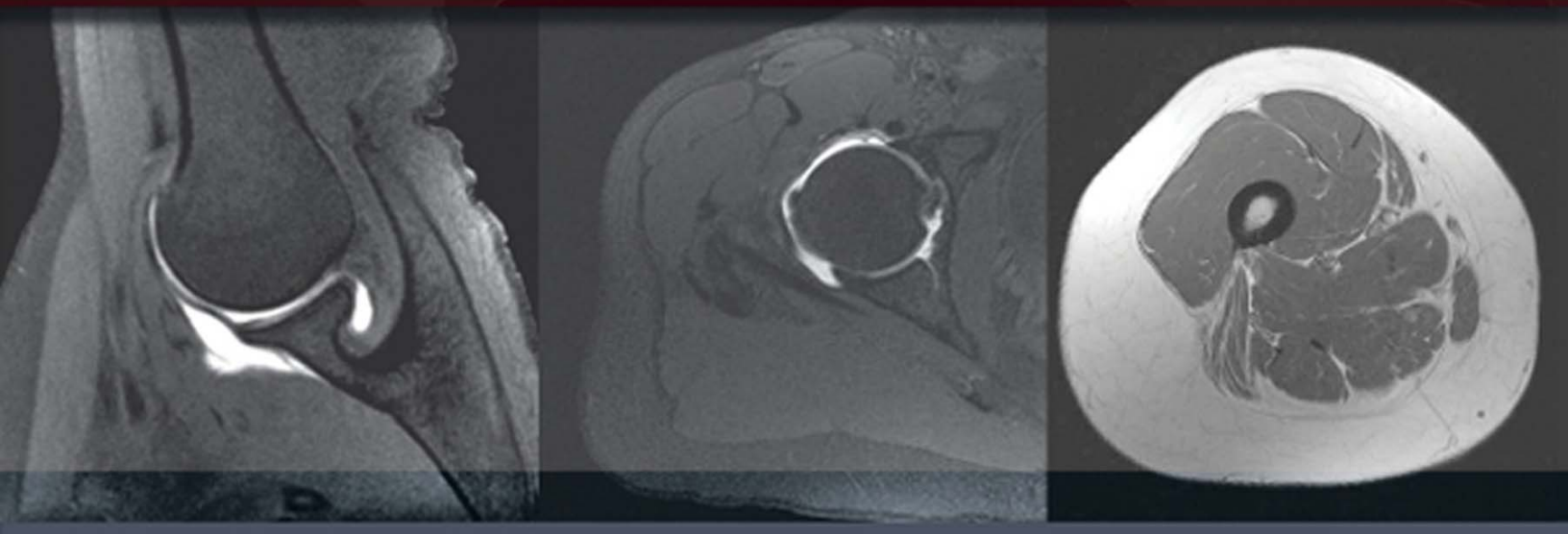
FOURTH EDITION

SECTIONAL ANATOMY

by MRI and CT



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Sectional Anatomy by MRI and CT

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Sectional Anatomy by MRI and CT

Fourth Edition

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Preface

With the explosion of cross-sectional imaging, the accessibility of a high quality anatomic atlas has become essential and it is with great pleasure that we introduce the fourth edition of this classic atlas.

Since it was first published in 1990, it has become a standard anatomic reference source. The first three editions were masterfully edited by Drs. Georges El-Khoury, Ronald Bergman, and William Montgomery, and we are honored to be able to continue the tradition of excellence that they established.

New features in this fourth edition include color-coded labeling and a corresponding online version that allows for easy access anytime/anywhere and provides features such as scroll, zoom, and search functions that should further enhance the user's experience.

We hope that you will find this new edition to be an integral and valuable addition to your practice.

Mark W. Anderson, MD
Michael G. Fox, MD

Acknowledgments

We are indebted to Drs. El-Khoury and Bergman for their prior efforts in producing and improving this text and for allowing us to continue along the path of excellence they established. We also thank Robin Carter, Katie DeFrancesco, and Dan Fitzgerald from Elsevier for helping to bring this project to fruition. Without their invaluable assistance, it wouldn't have happened!

Mark W. Anderson, MD
Michael G. Fox, MD

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Section

I

Upper Extremity

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Chapter

1

MRI of the Pectoral Girdle and Chest Wall

AXIAL

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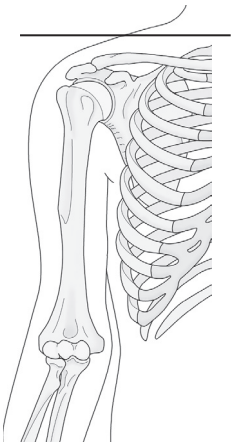

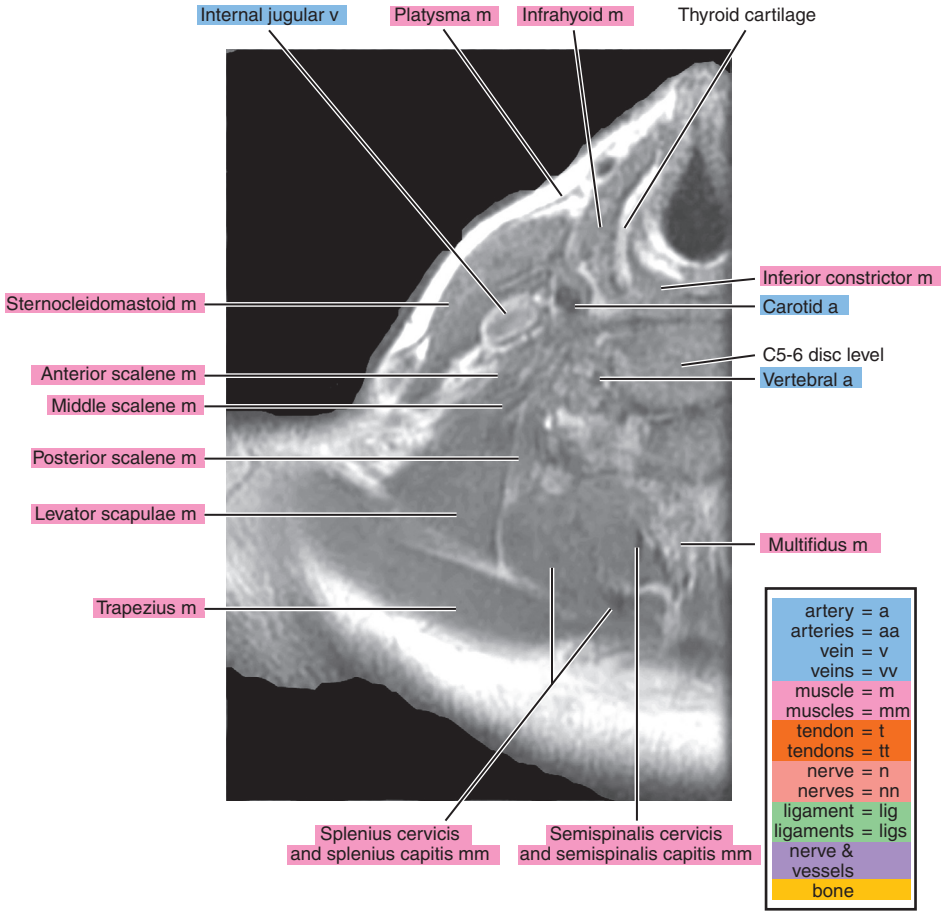

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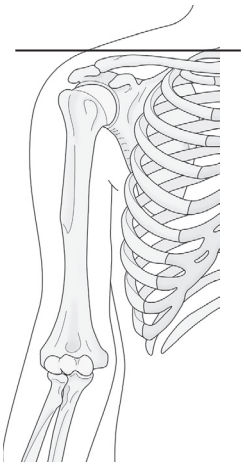

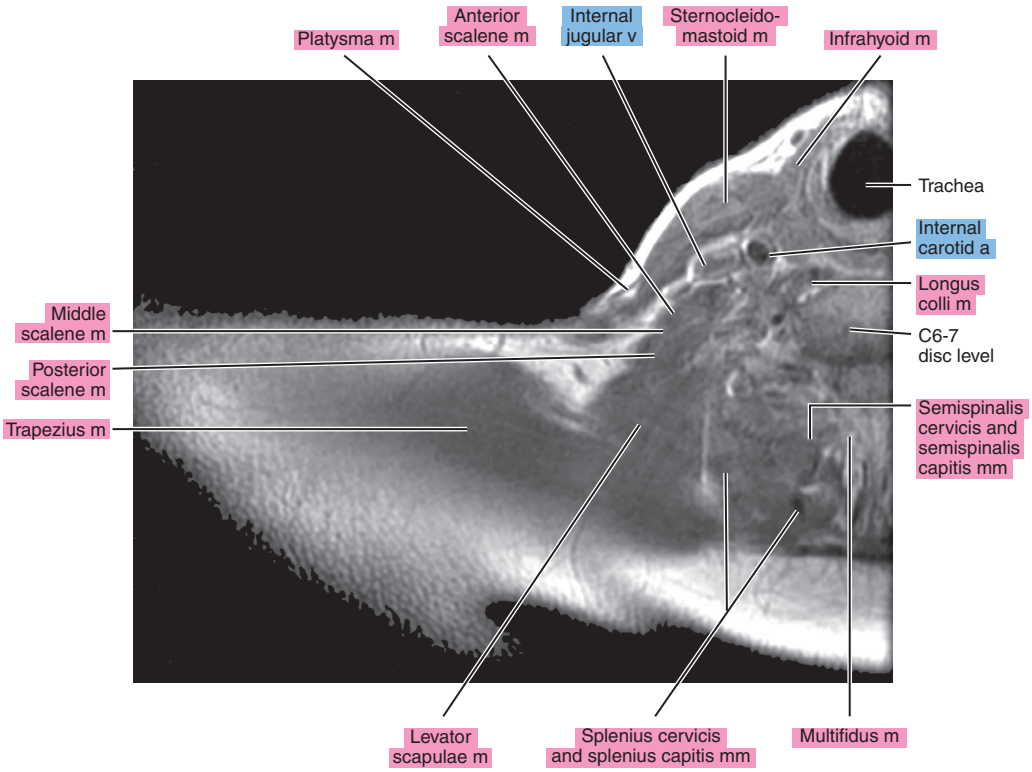

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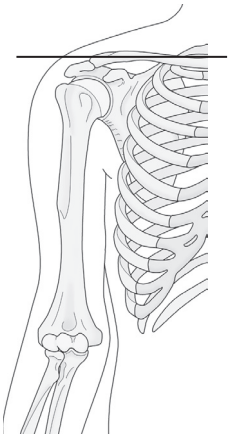

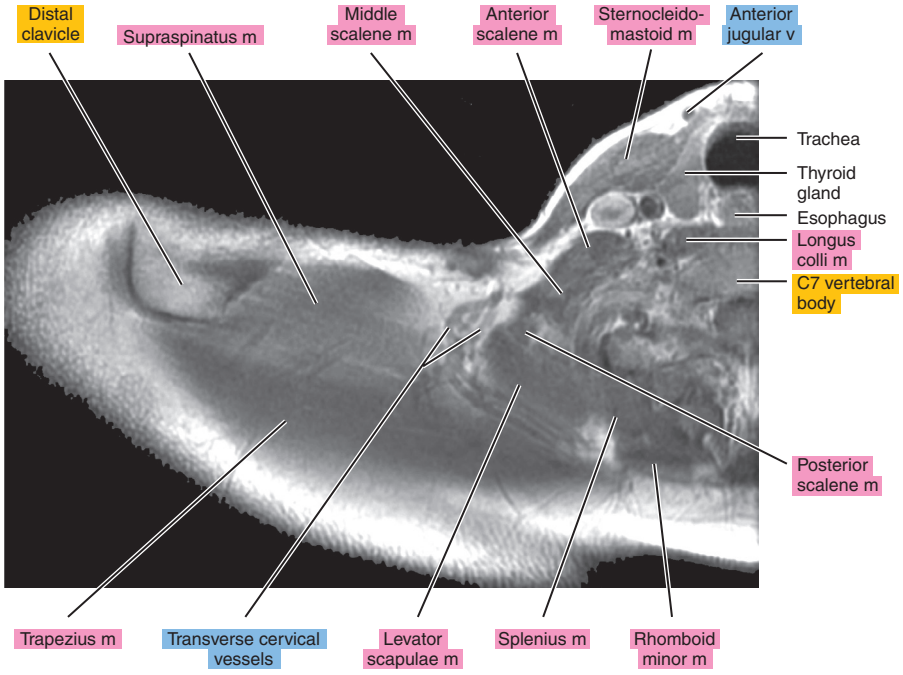

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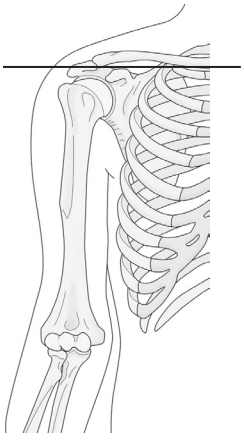

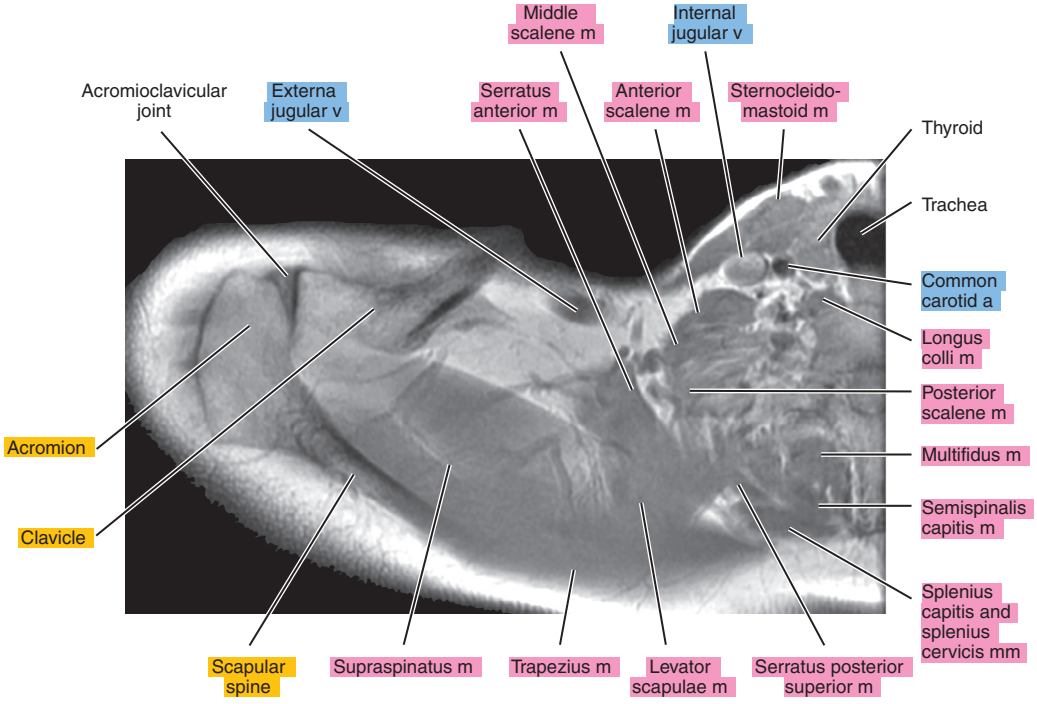

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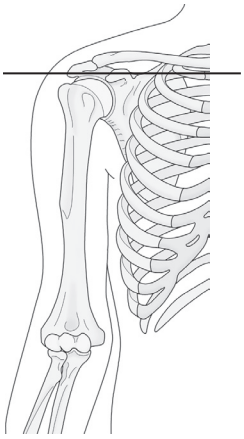

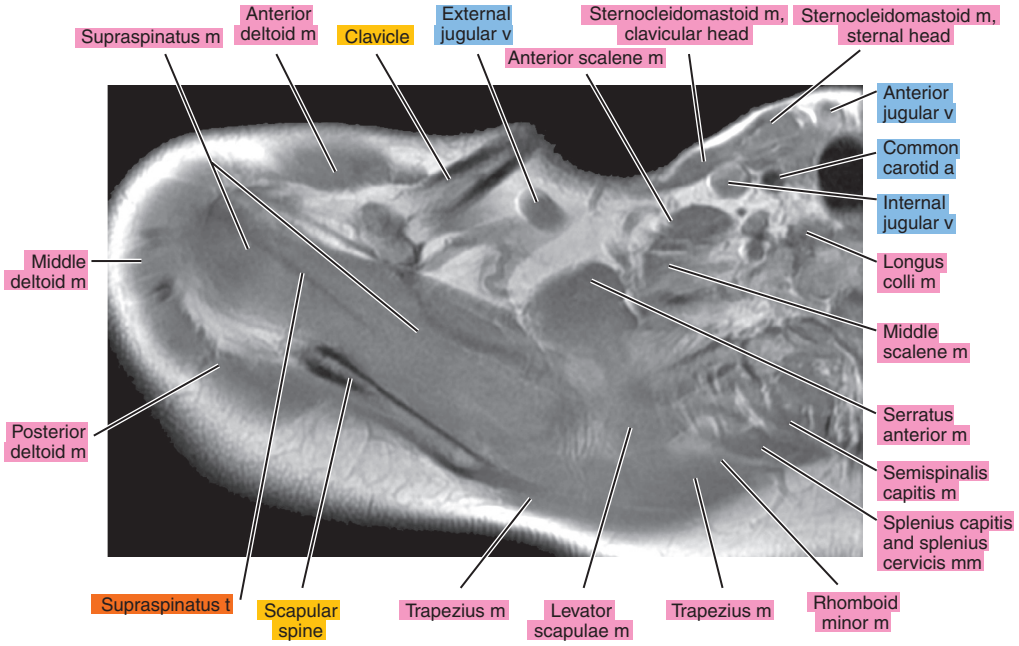

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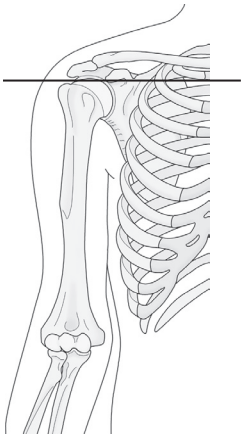

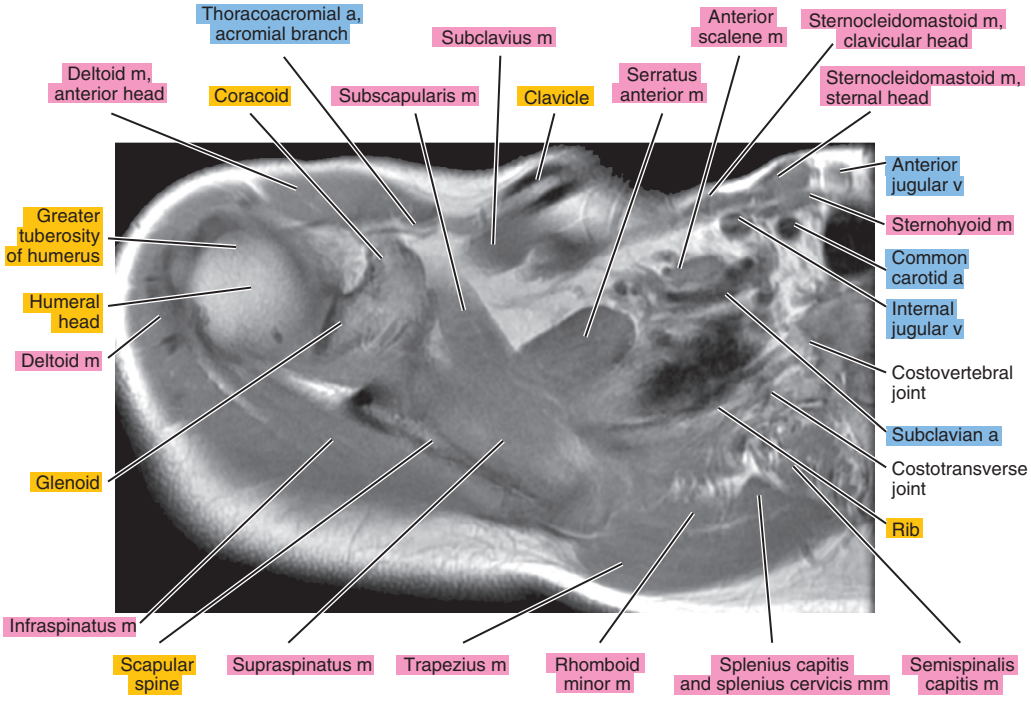

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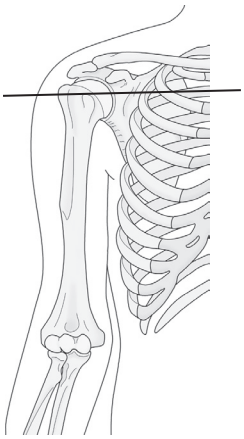

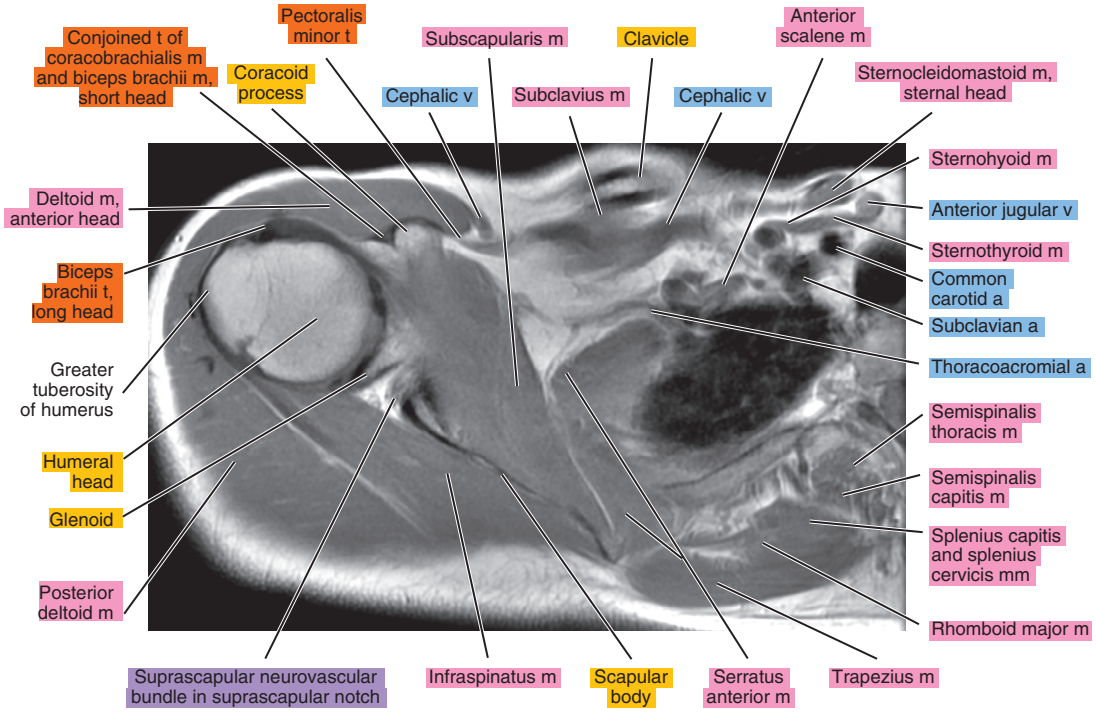

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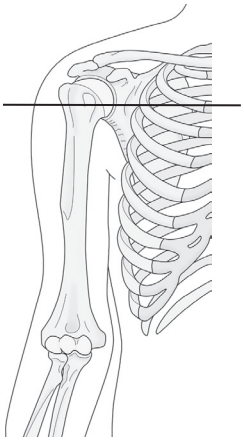

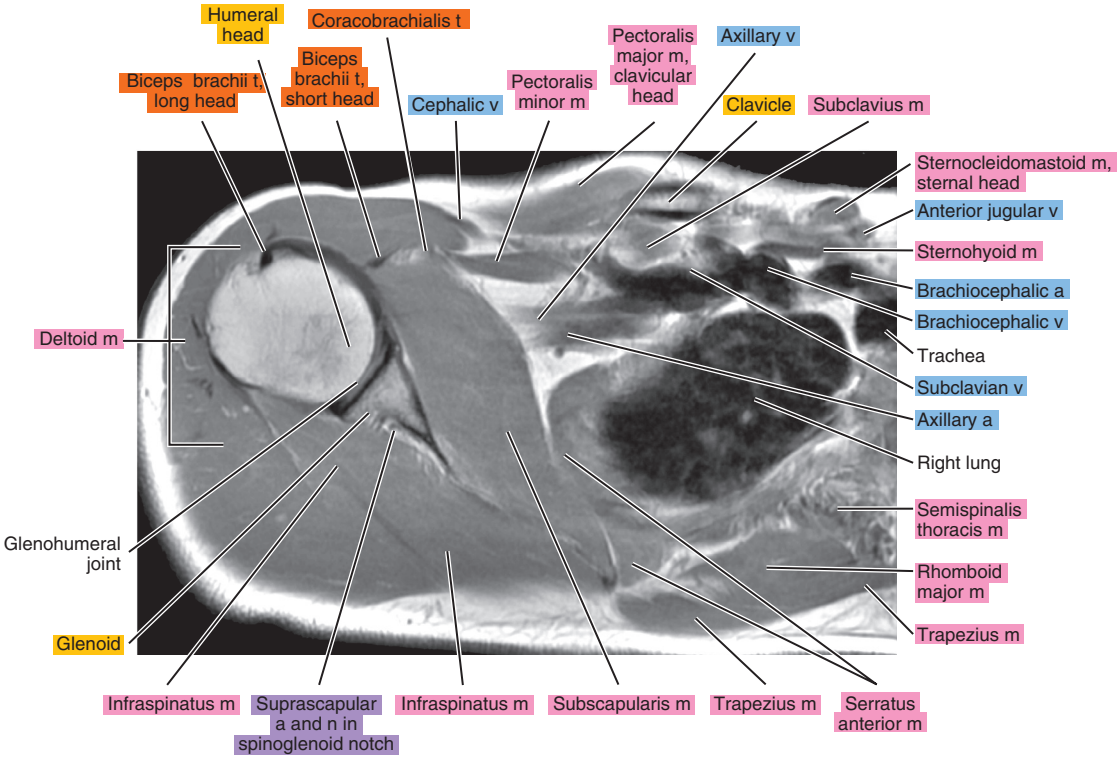

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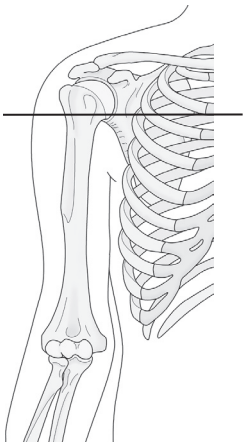

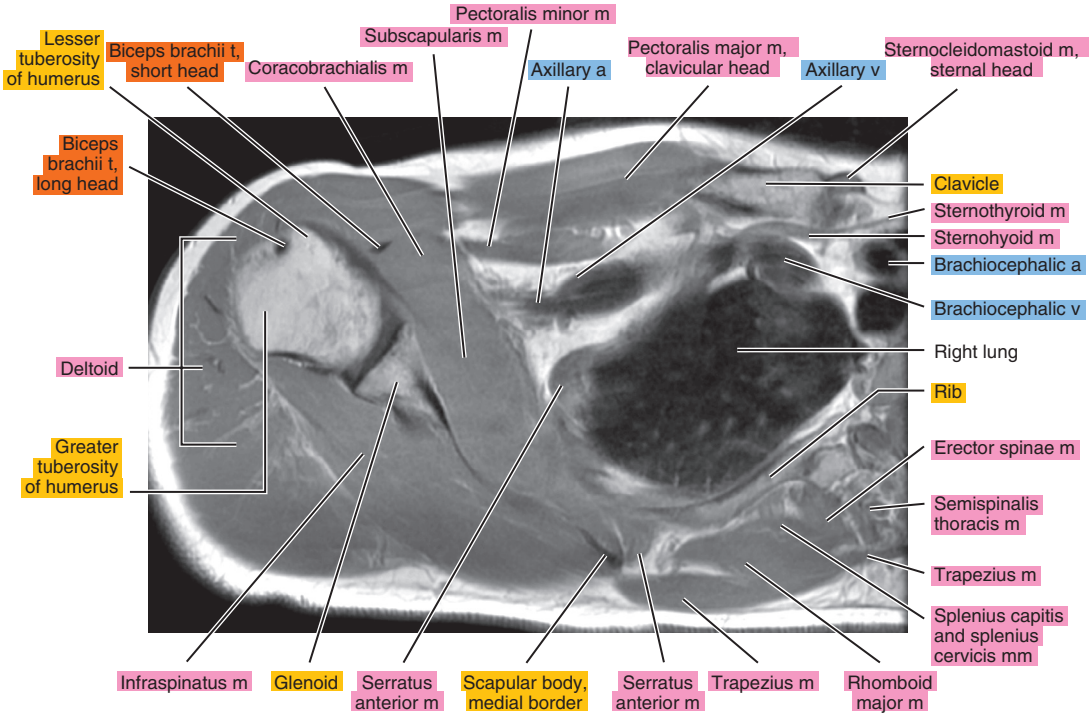

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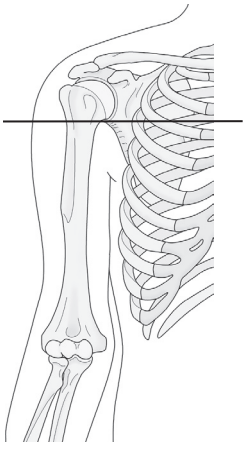

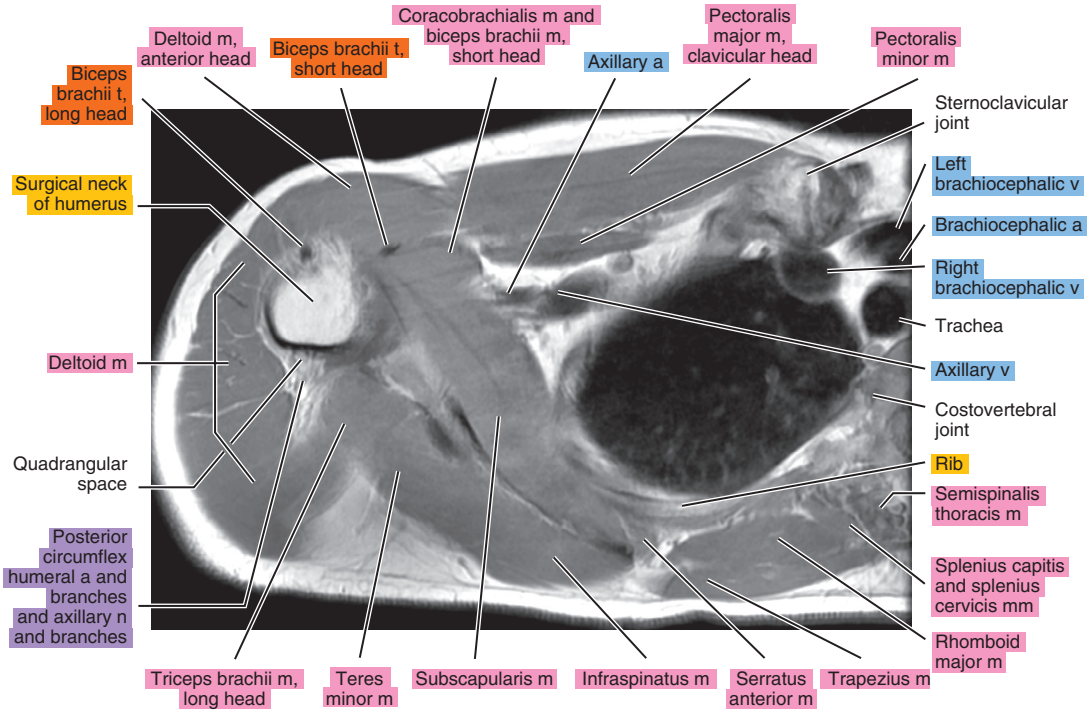

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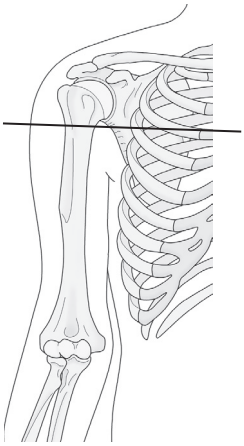

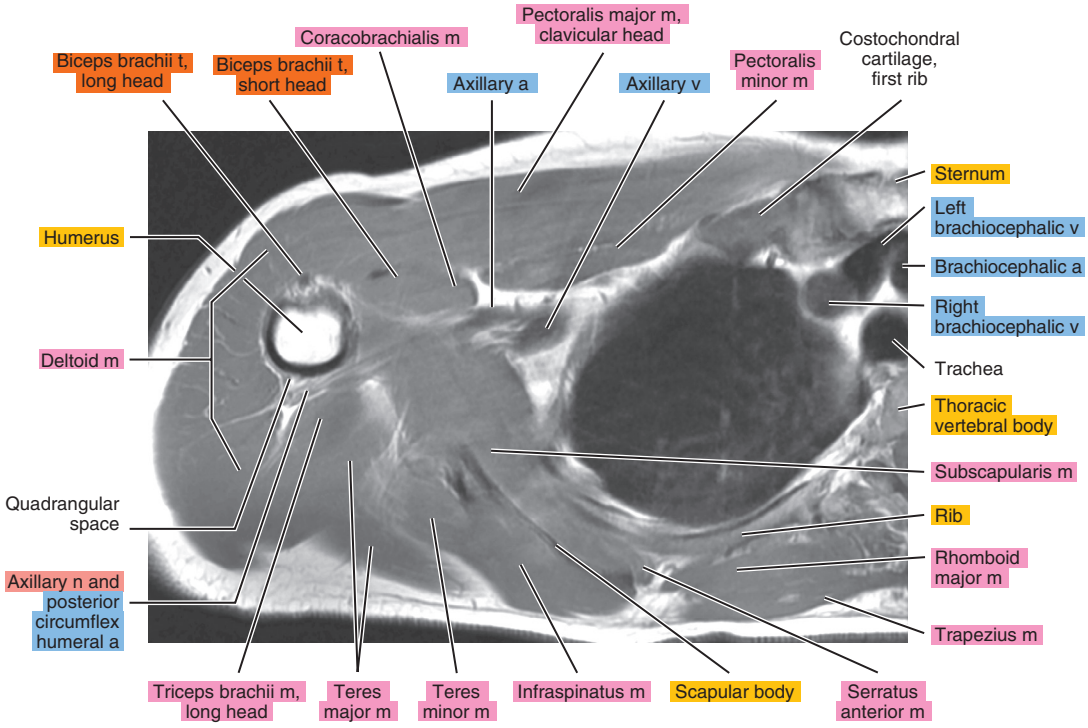

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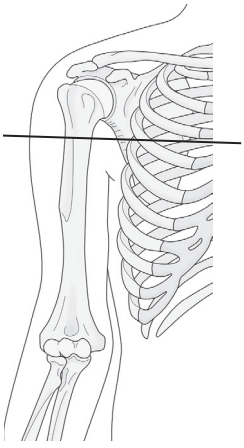

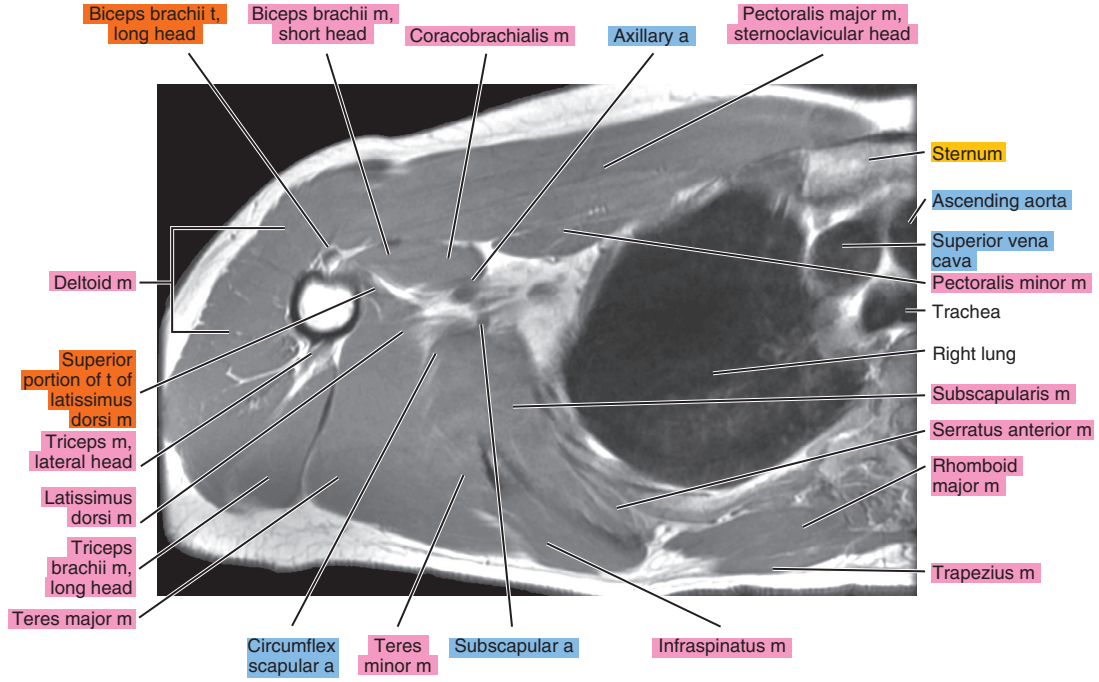

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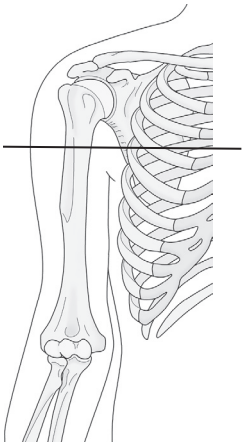

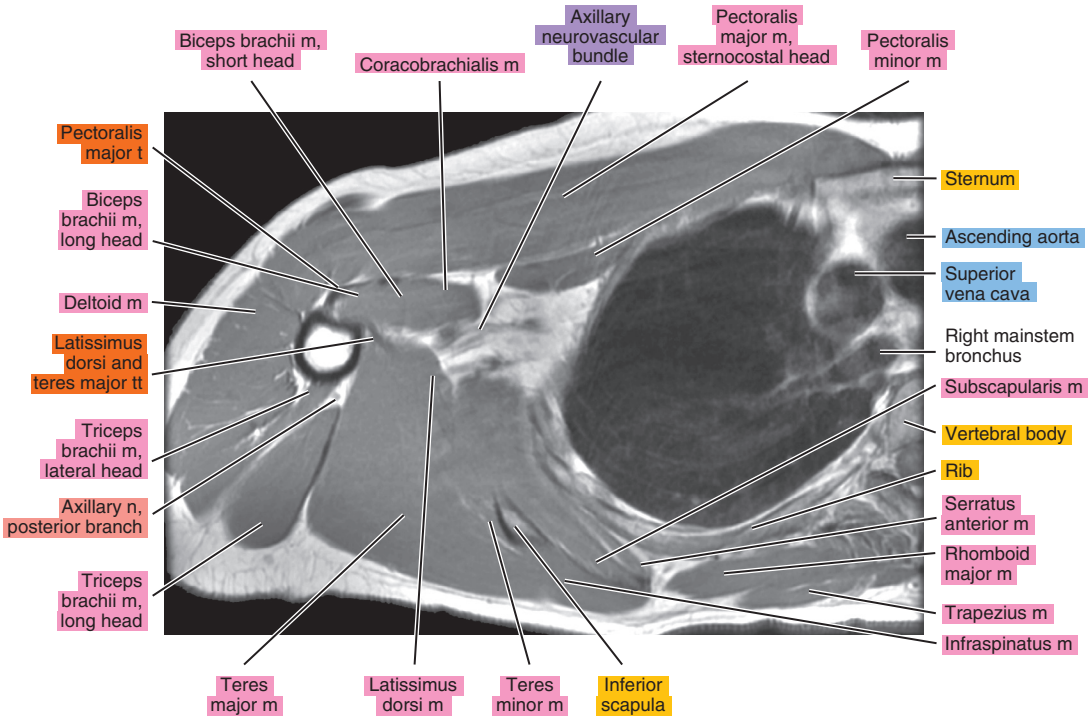

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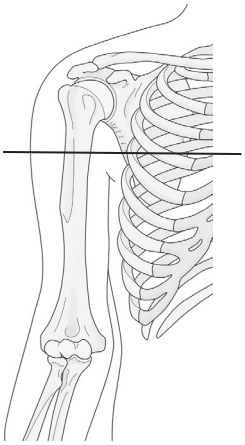

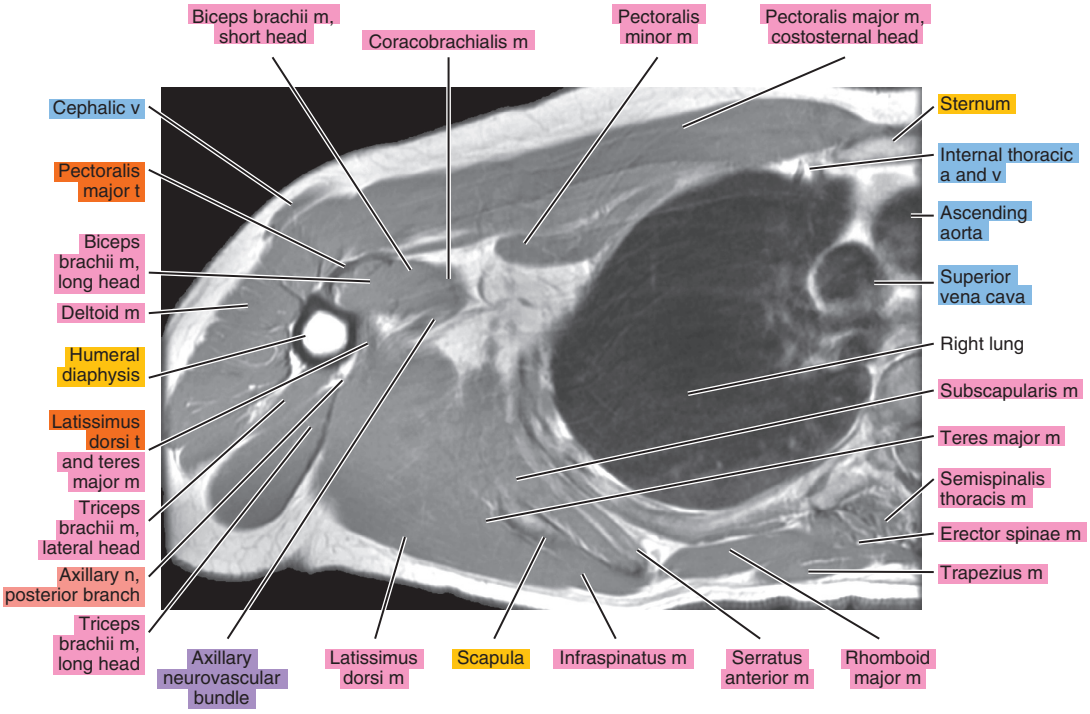

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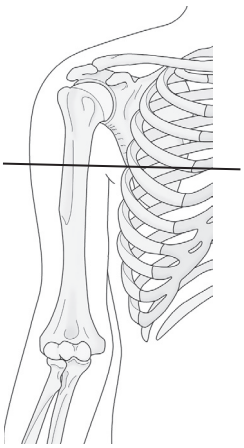

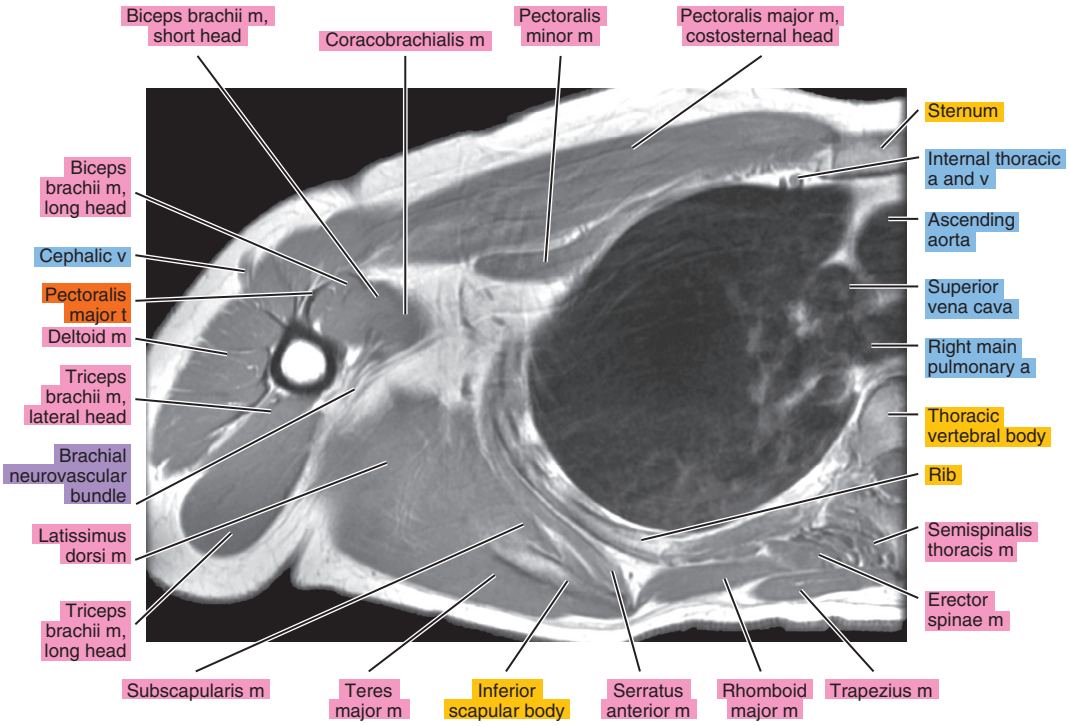

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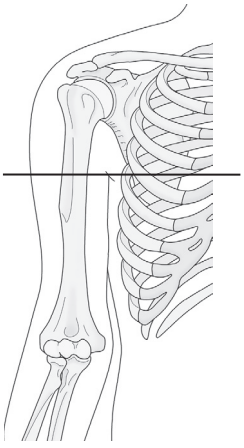

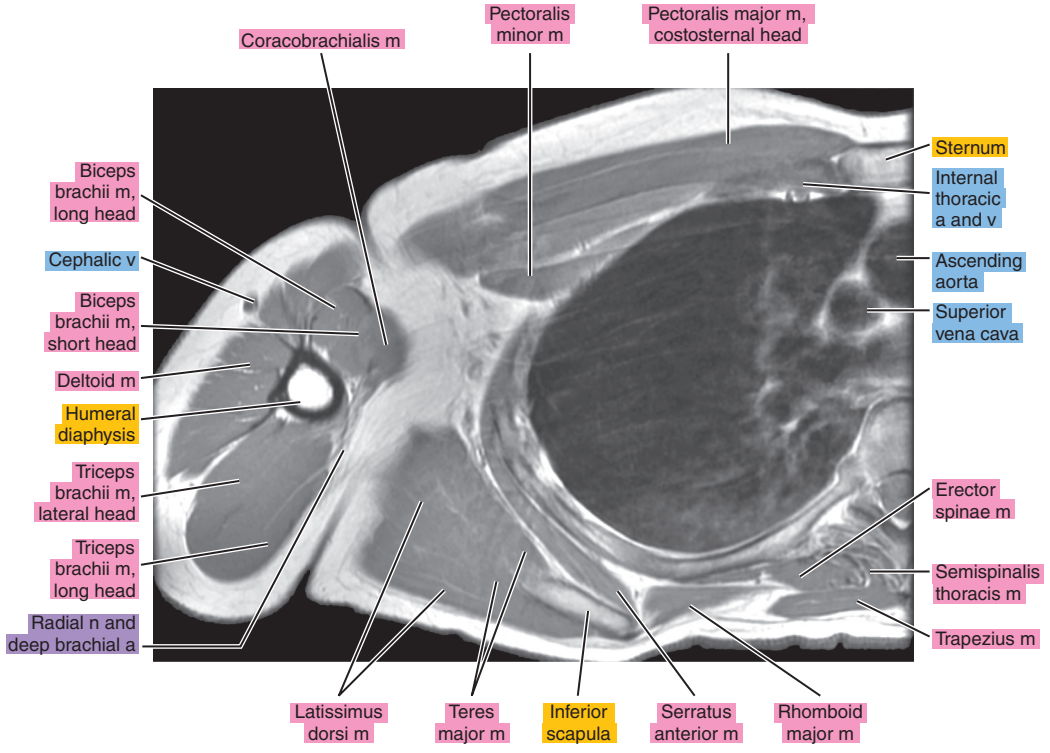

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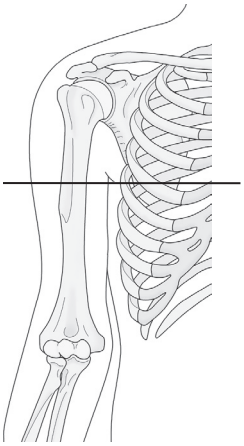

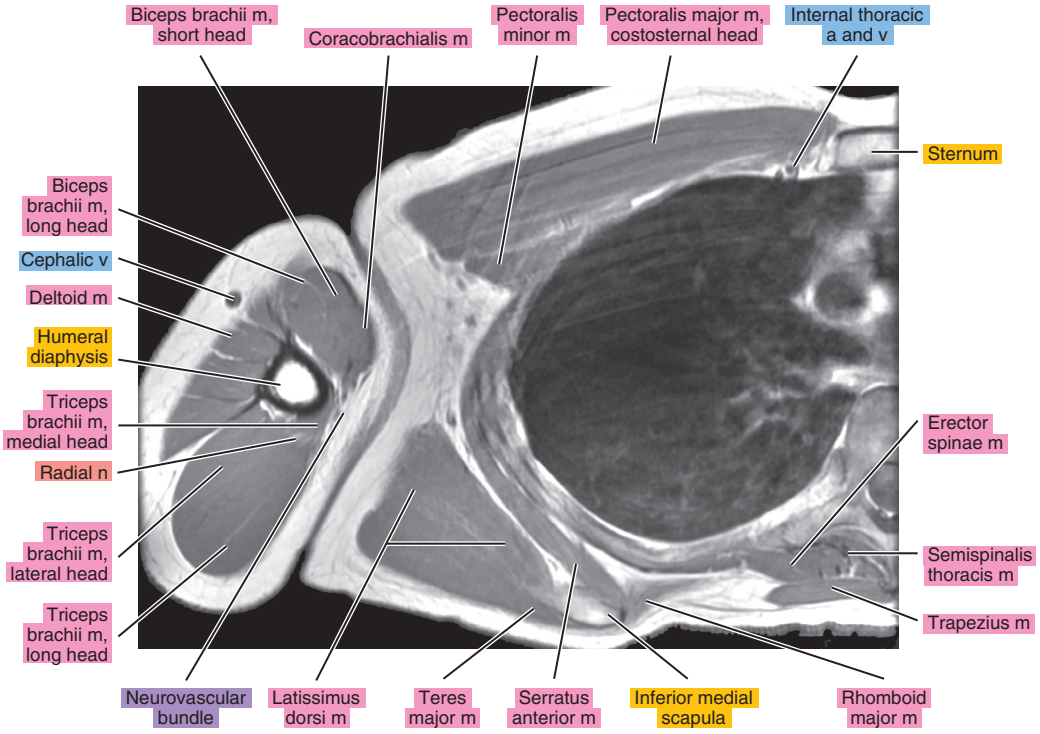

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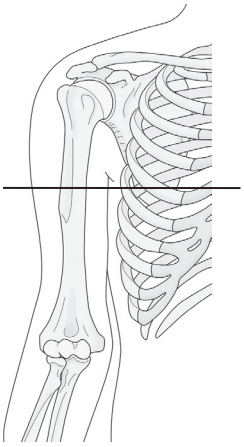

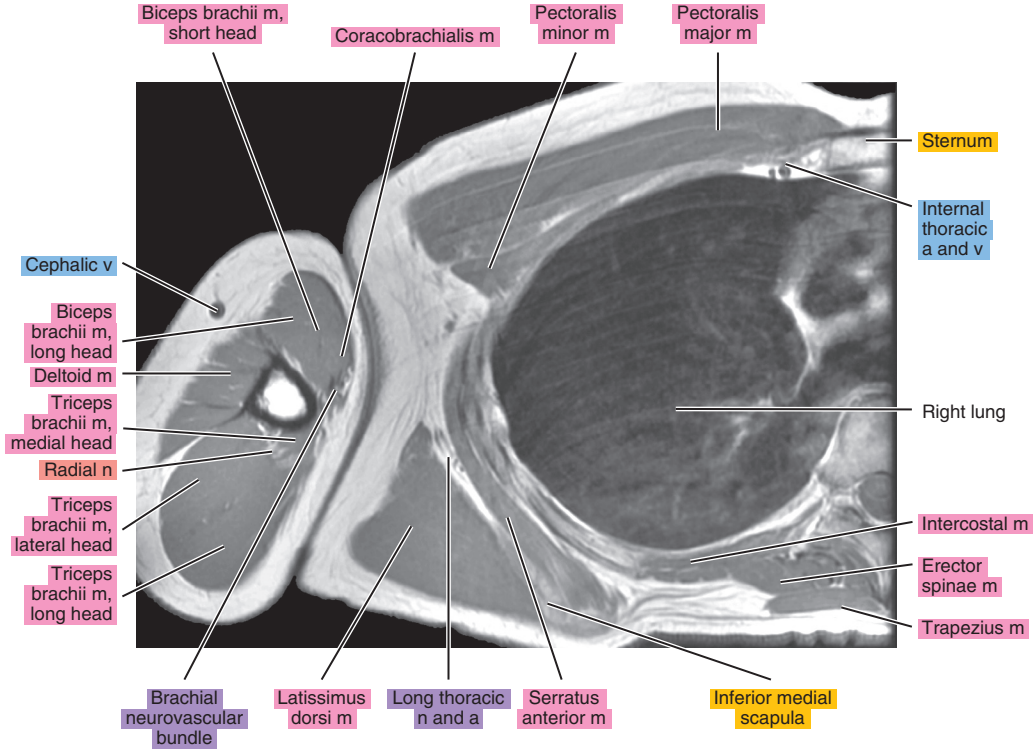

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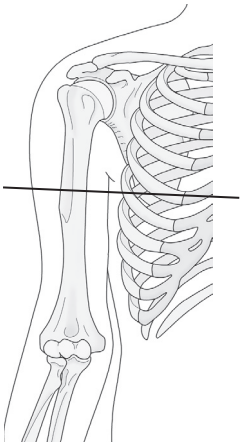
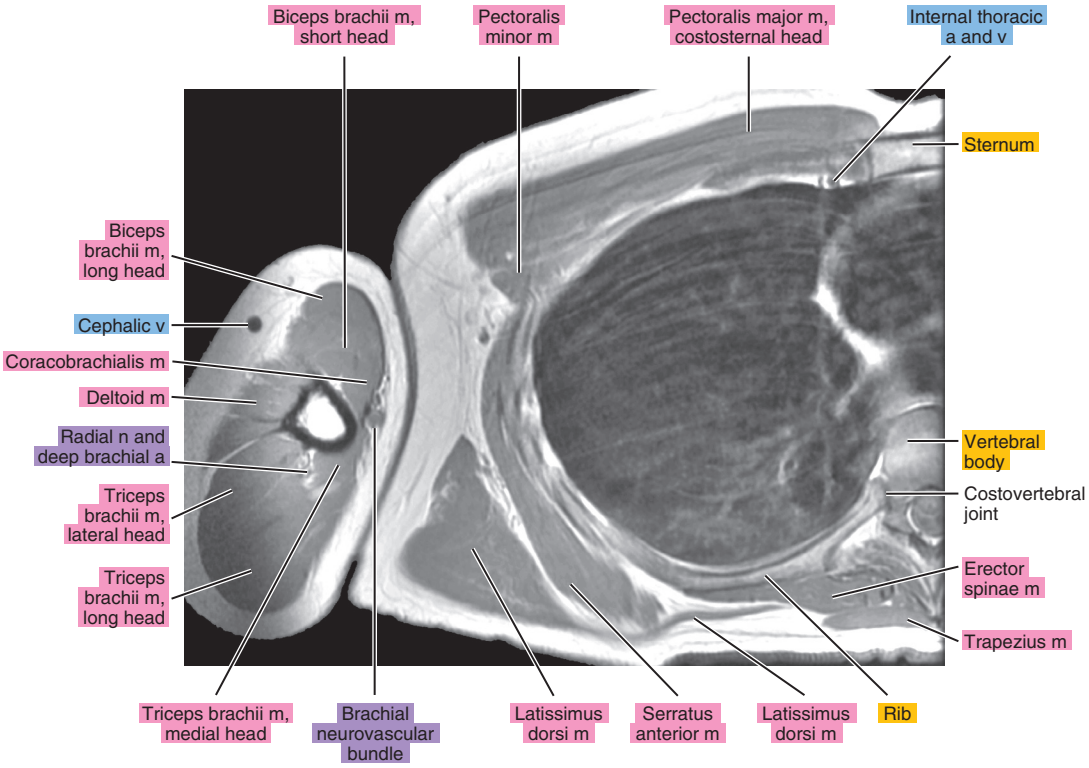
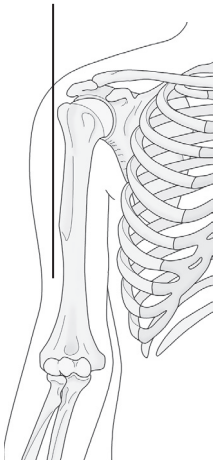
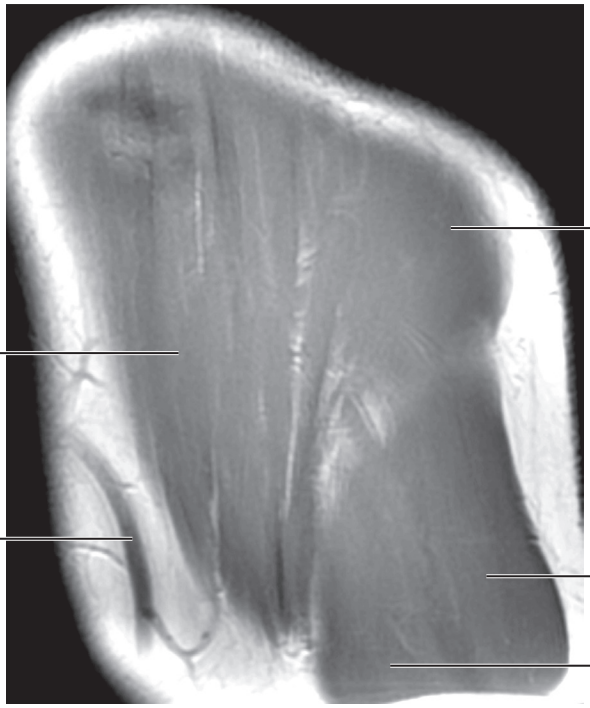



Biceps brachii m, short head
Pectoralis minor m
Pectoralis major m, costosternal head
Internal thoracic a and v
Sternum
Biceps brachii m, long head
Cephalic v
Coracobrachialis m
Deltoid m
Radial n and deep brachial a
Triceps brachii m, lateral head
Triceps brachii m, long head
Vertebral body
Costovertebral joint
Erector spinae m
Trapezius m
Triceps brachii m, medial head
Brachial neurovascular bundle
Latissimus dorsi m
Serratus anterior m
Latissimus dorsi m
Rib

SAGITTAL

Figure 1.2.1





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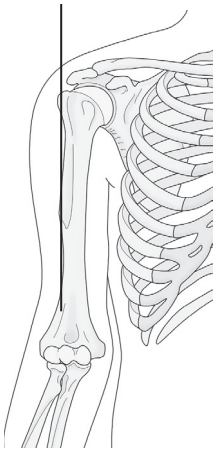

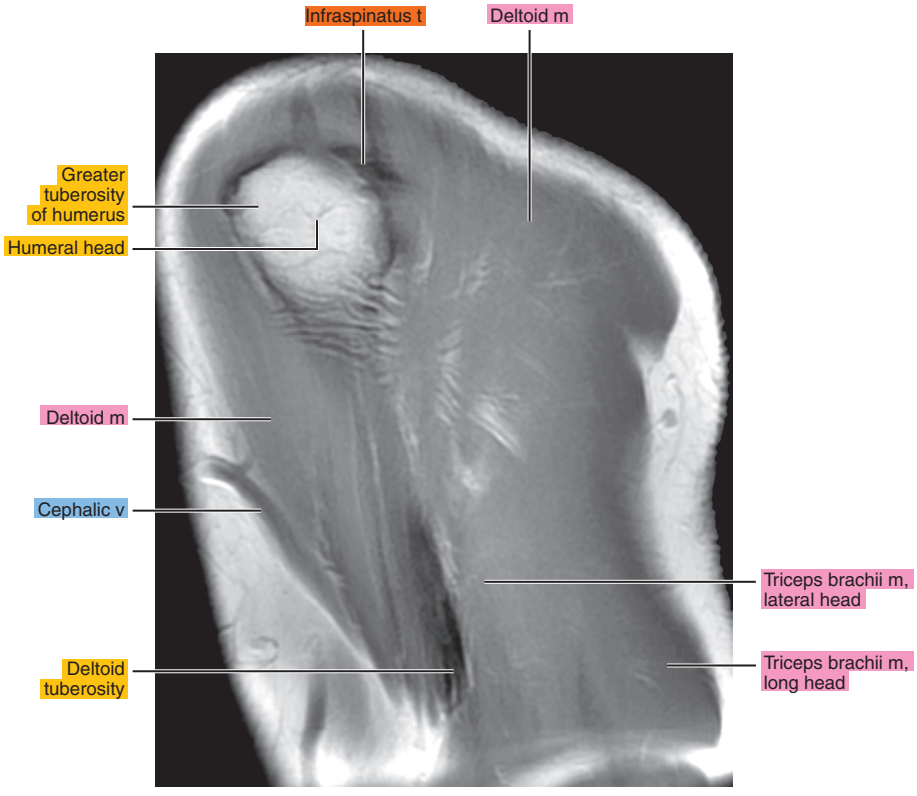

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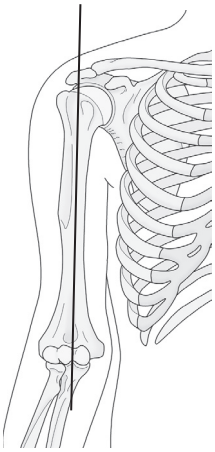

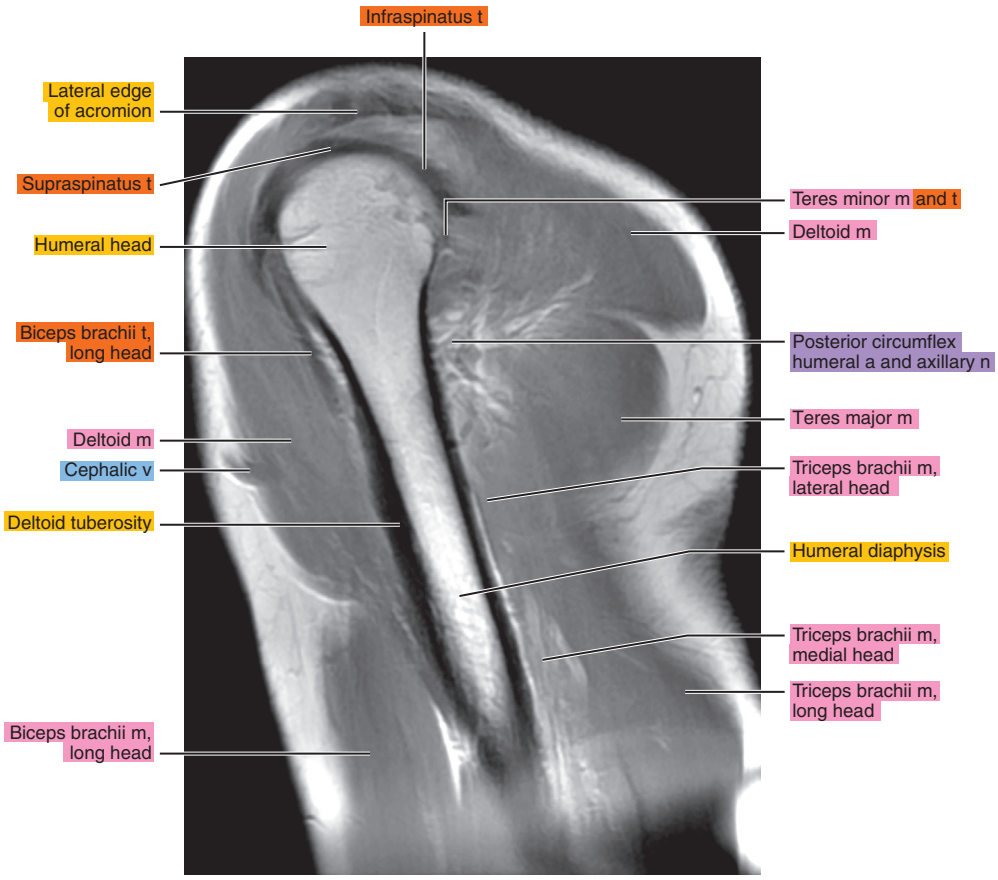

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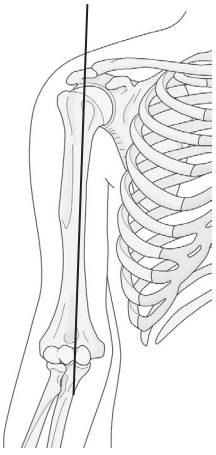

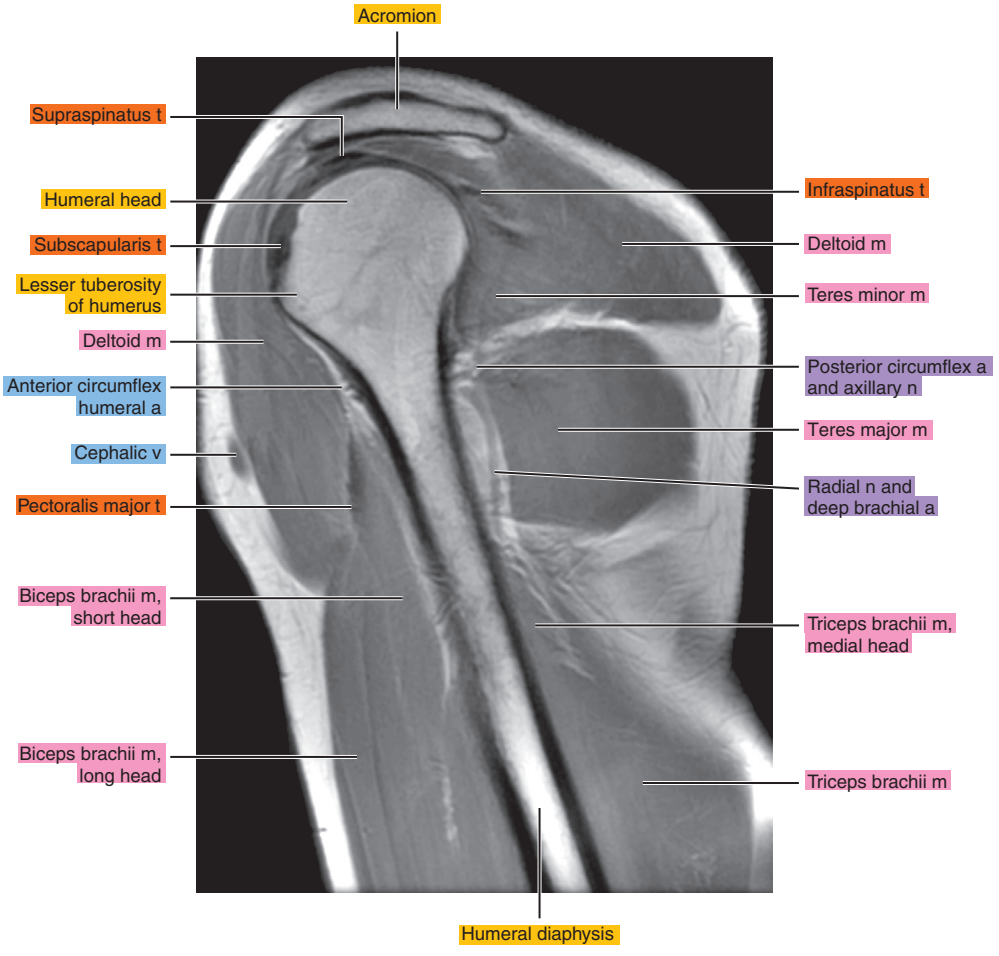

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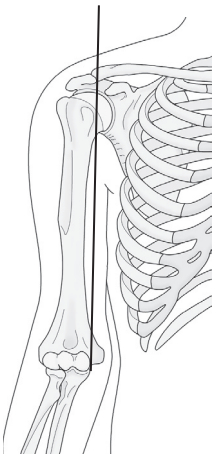

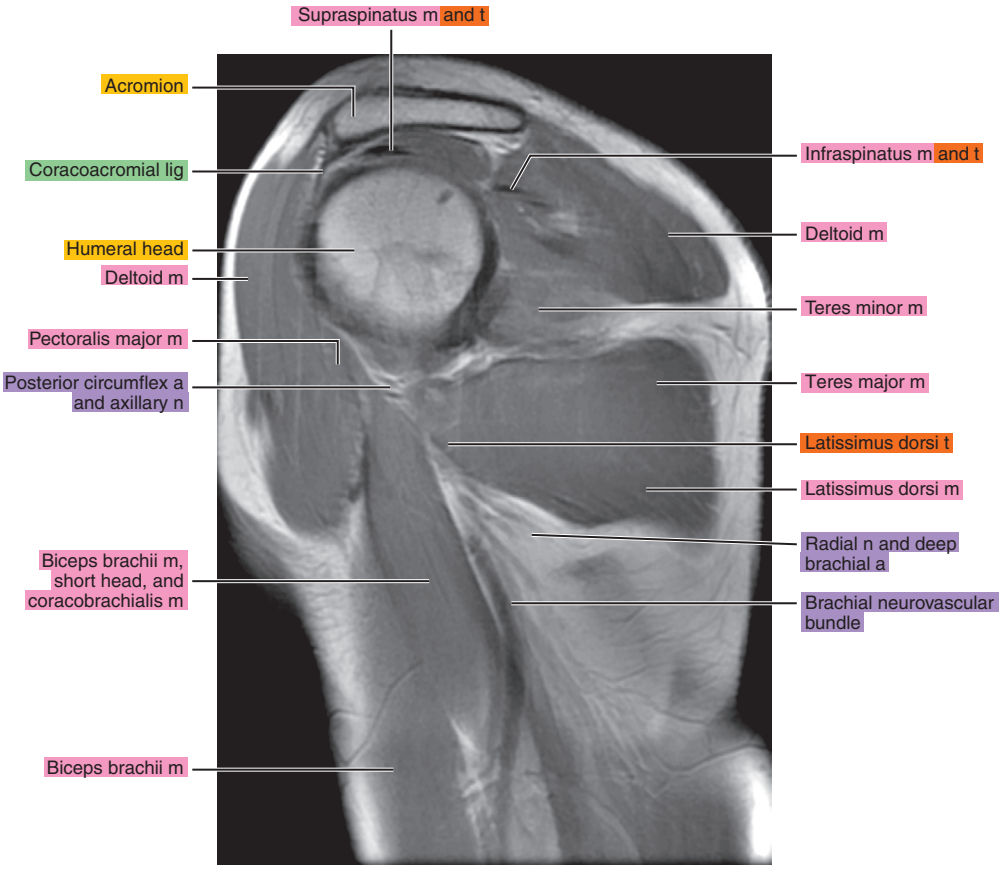

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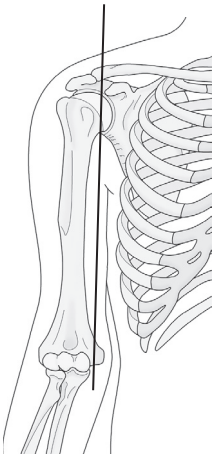

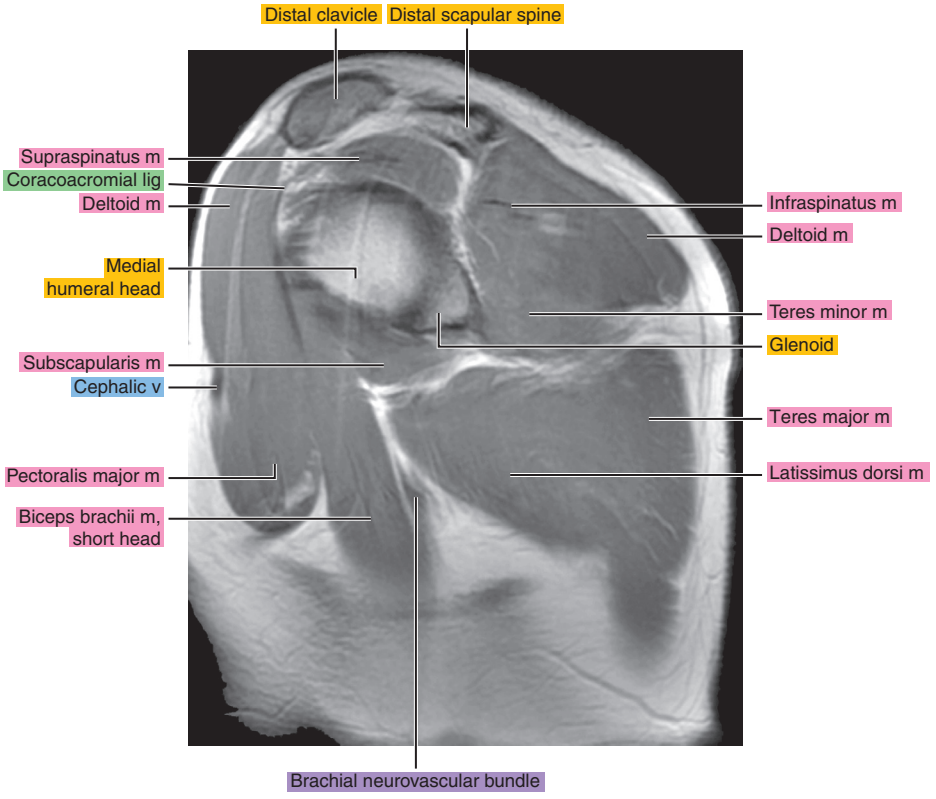

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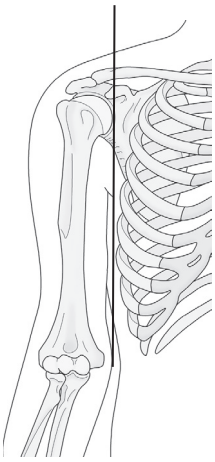

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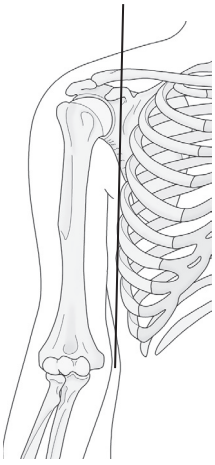

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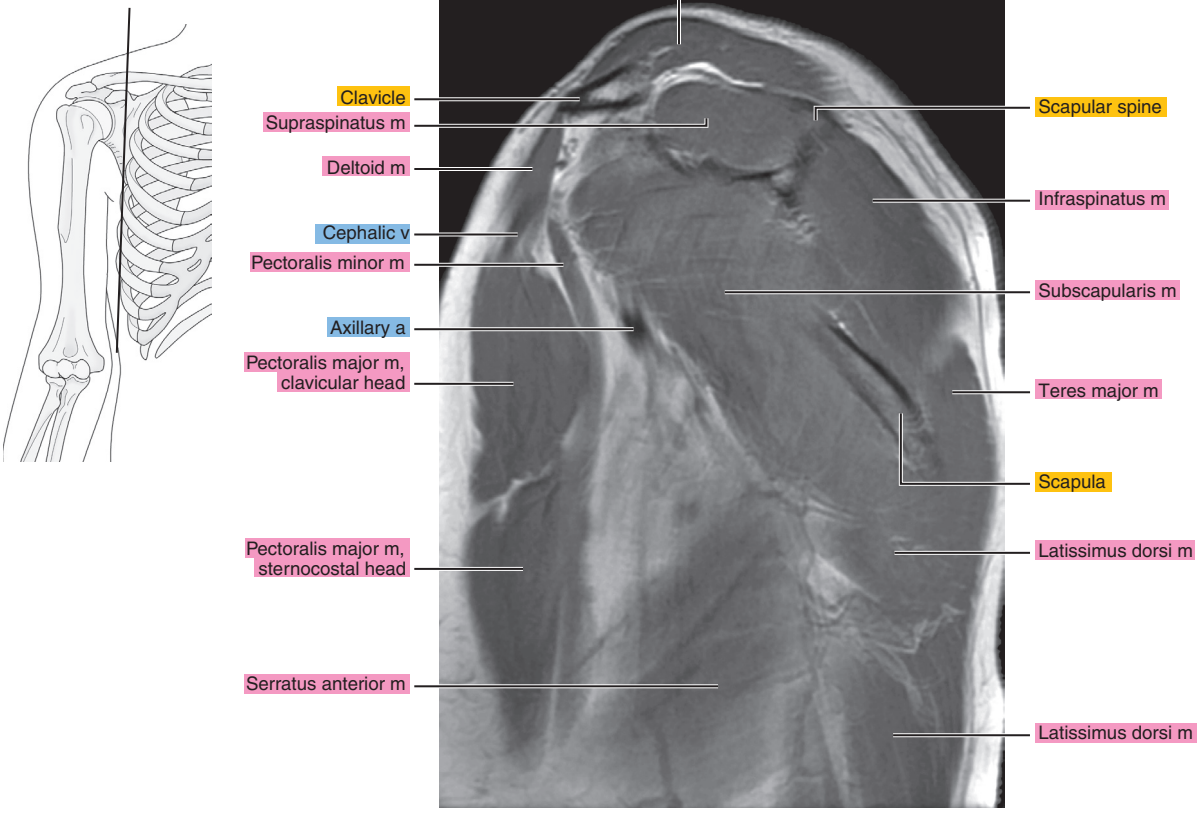

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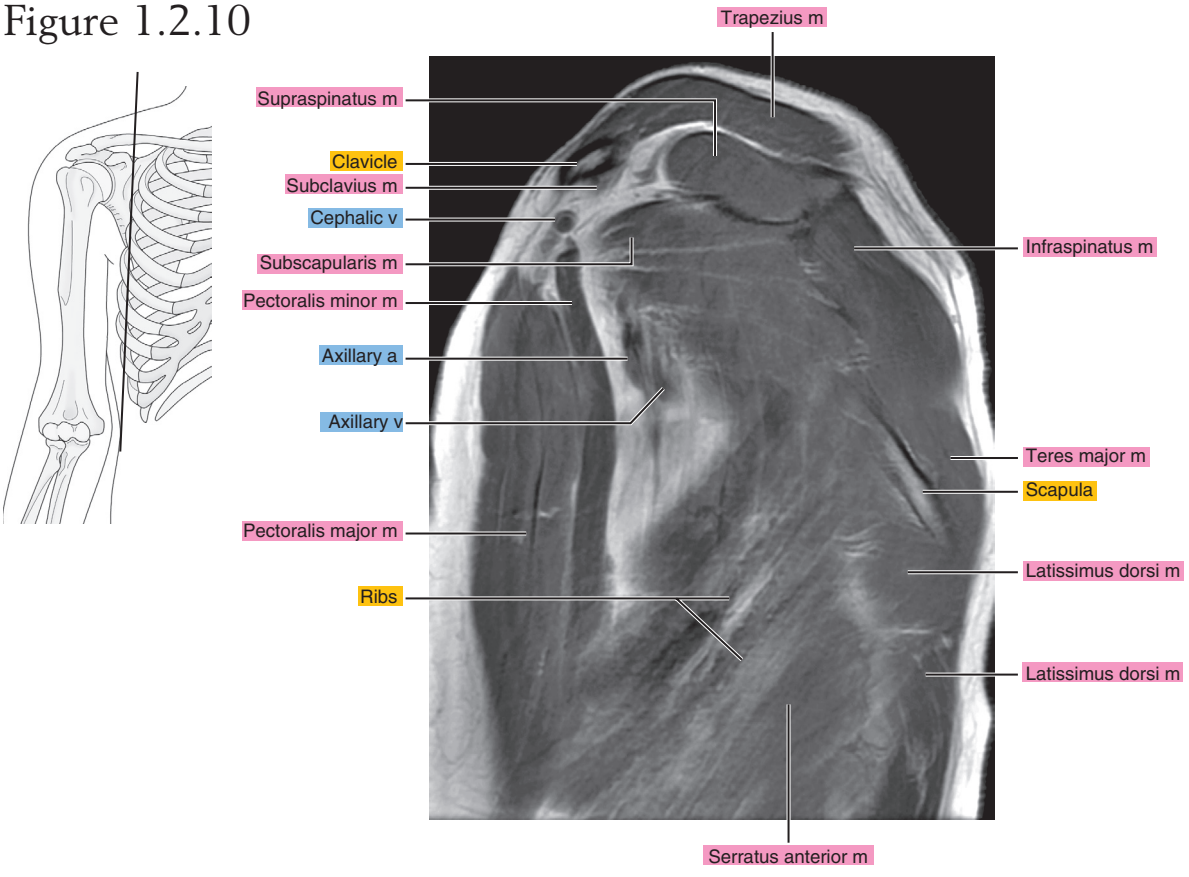
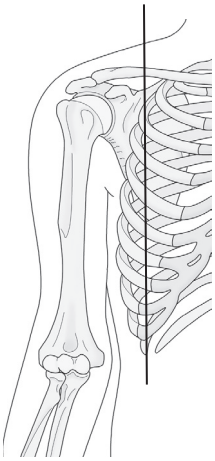
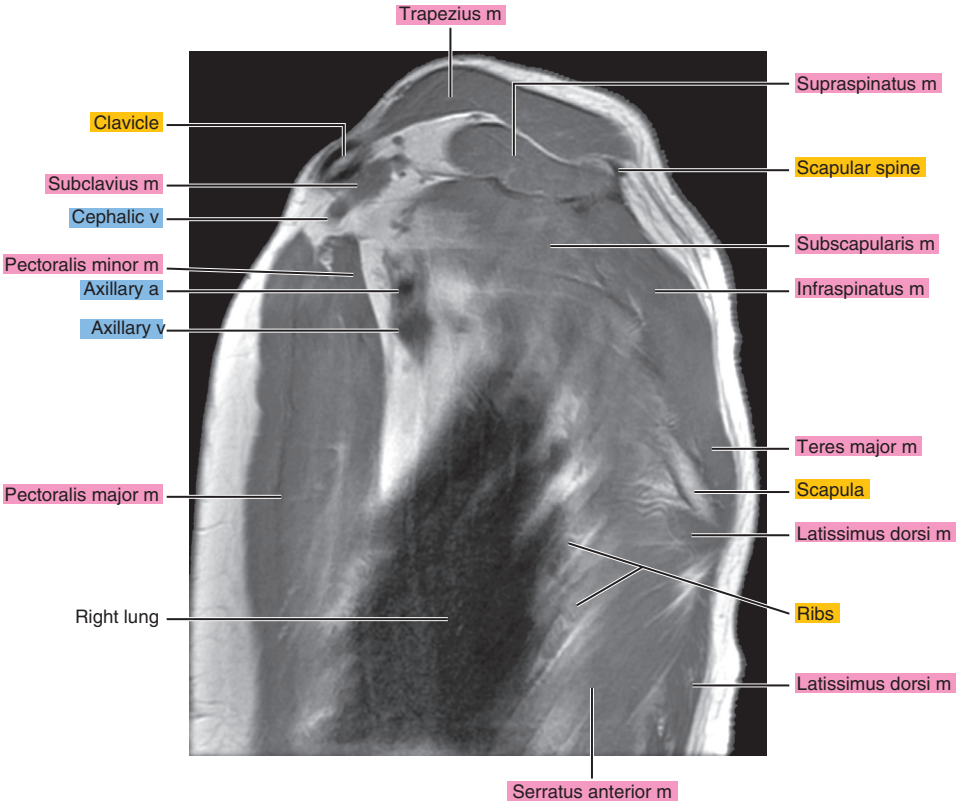


Figure 1.2.11





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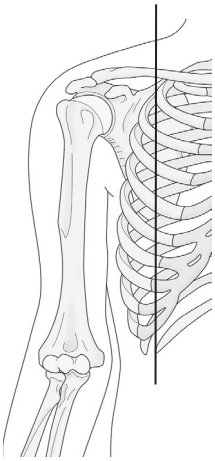

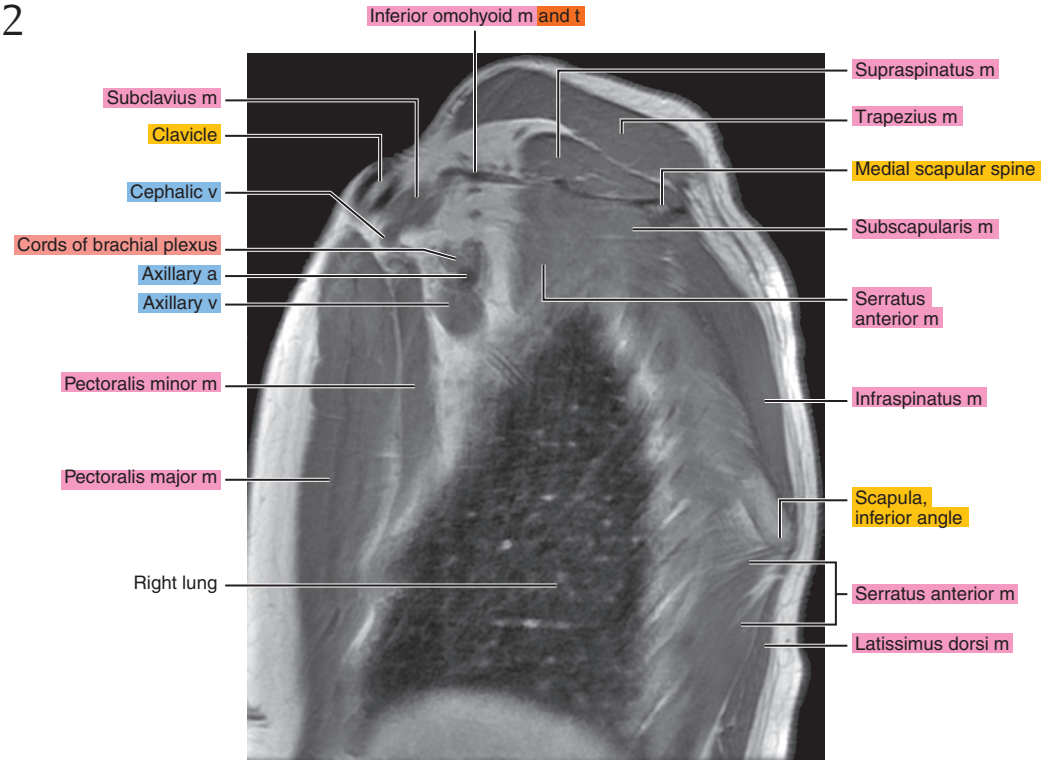

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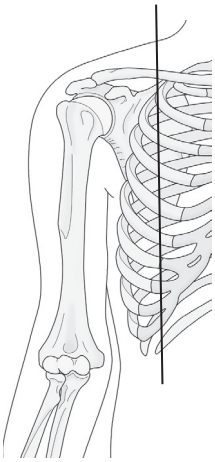

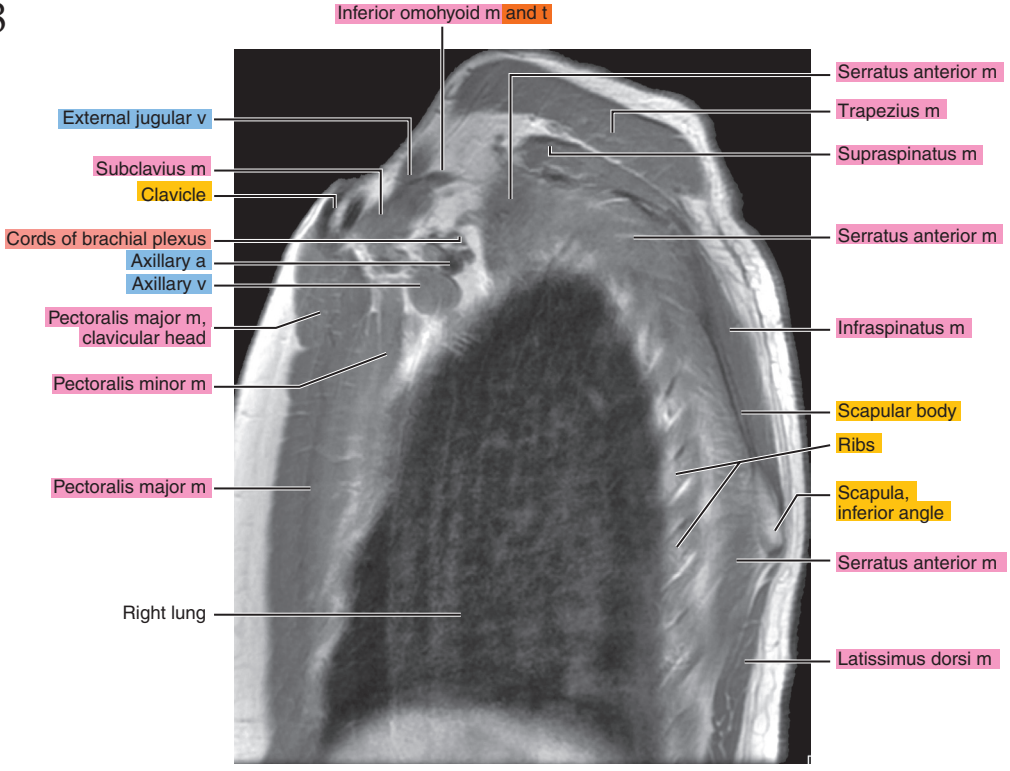

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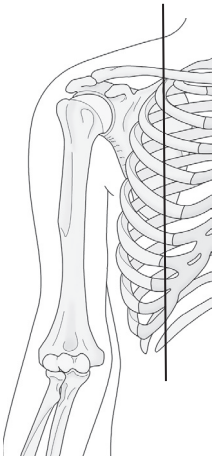

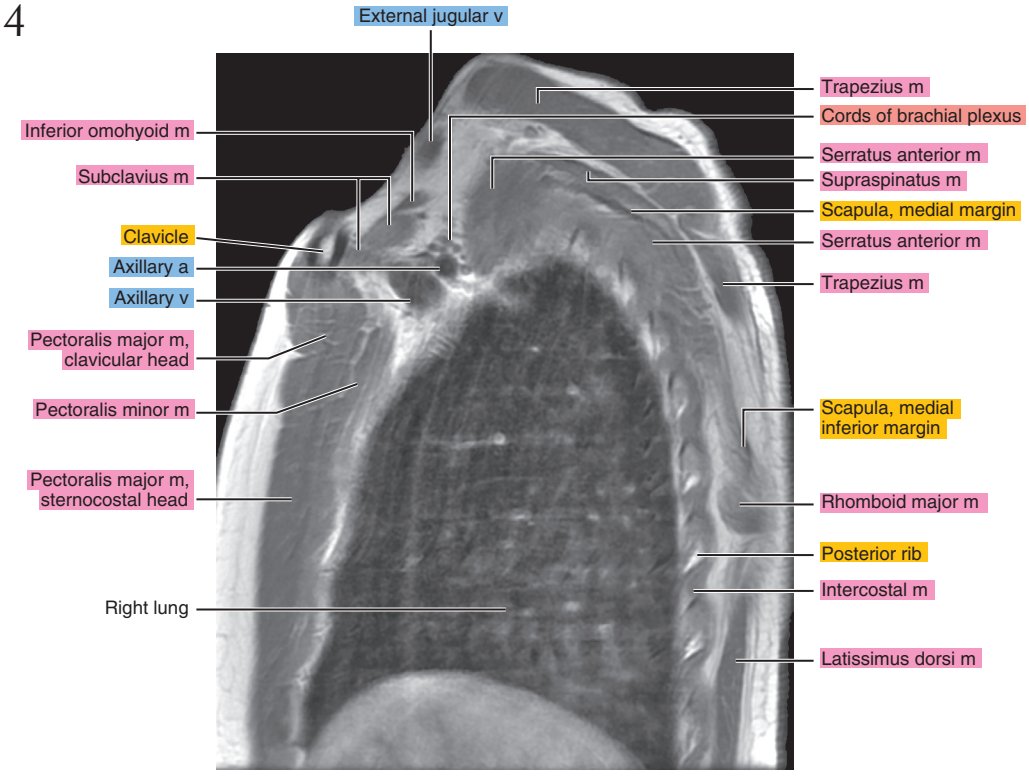

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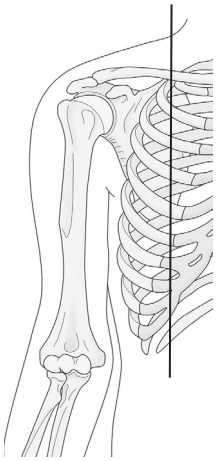

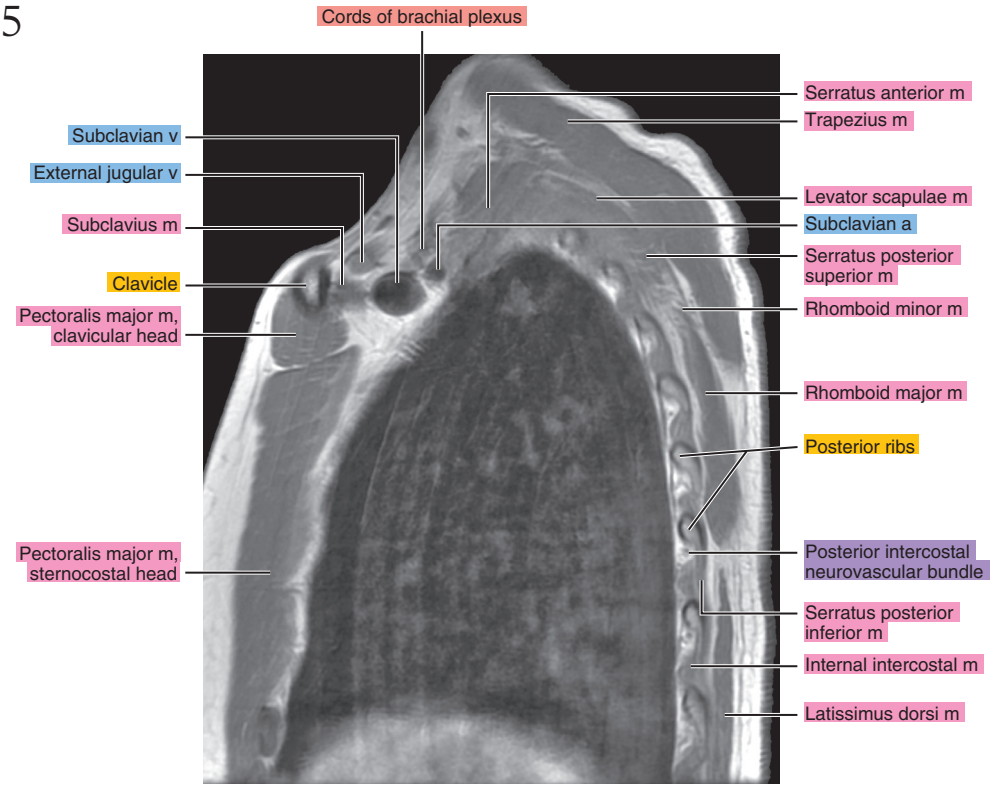

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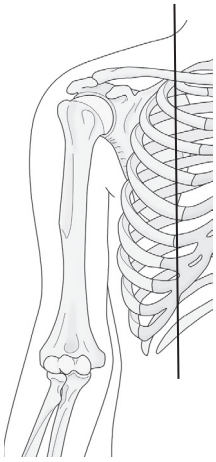

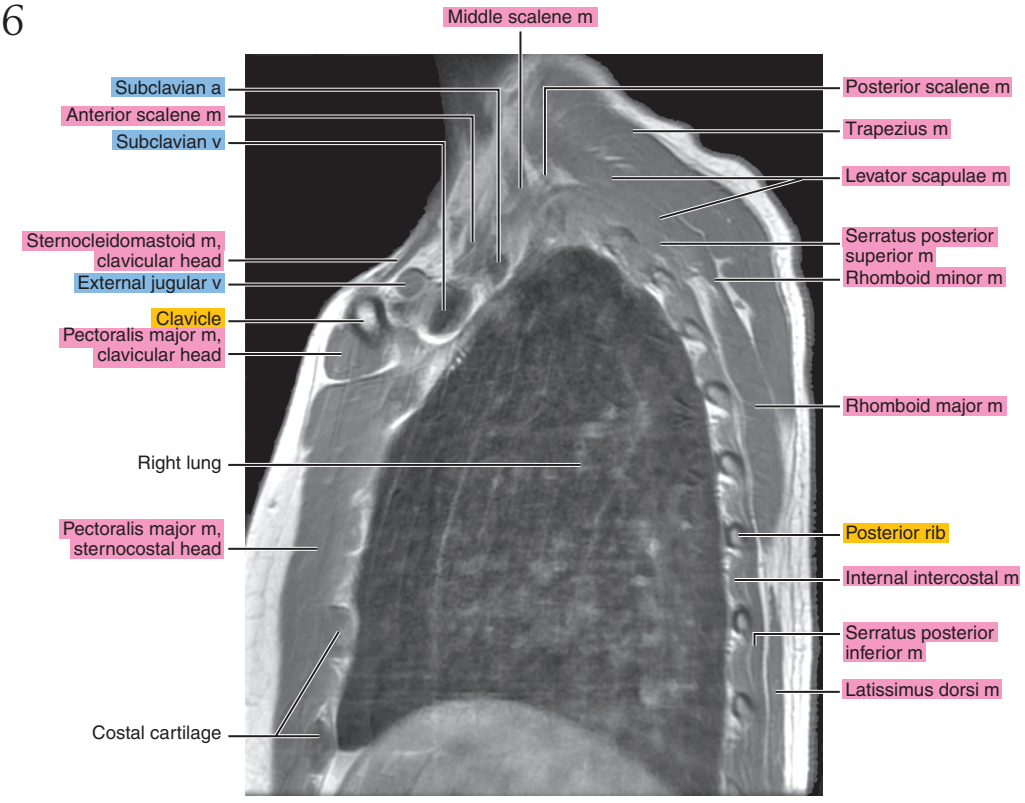

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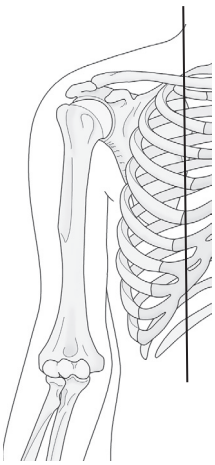

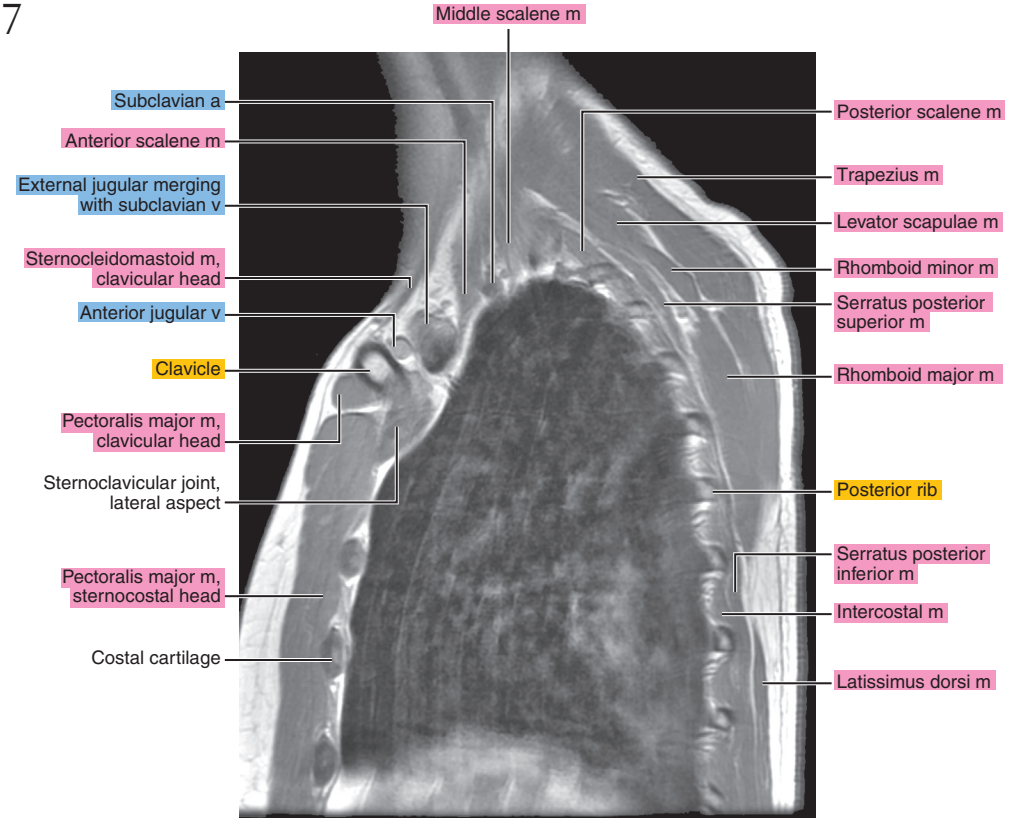

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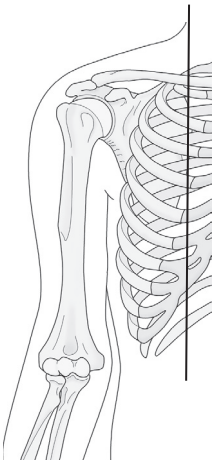

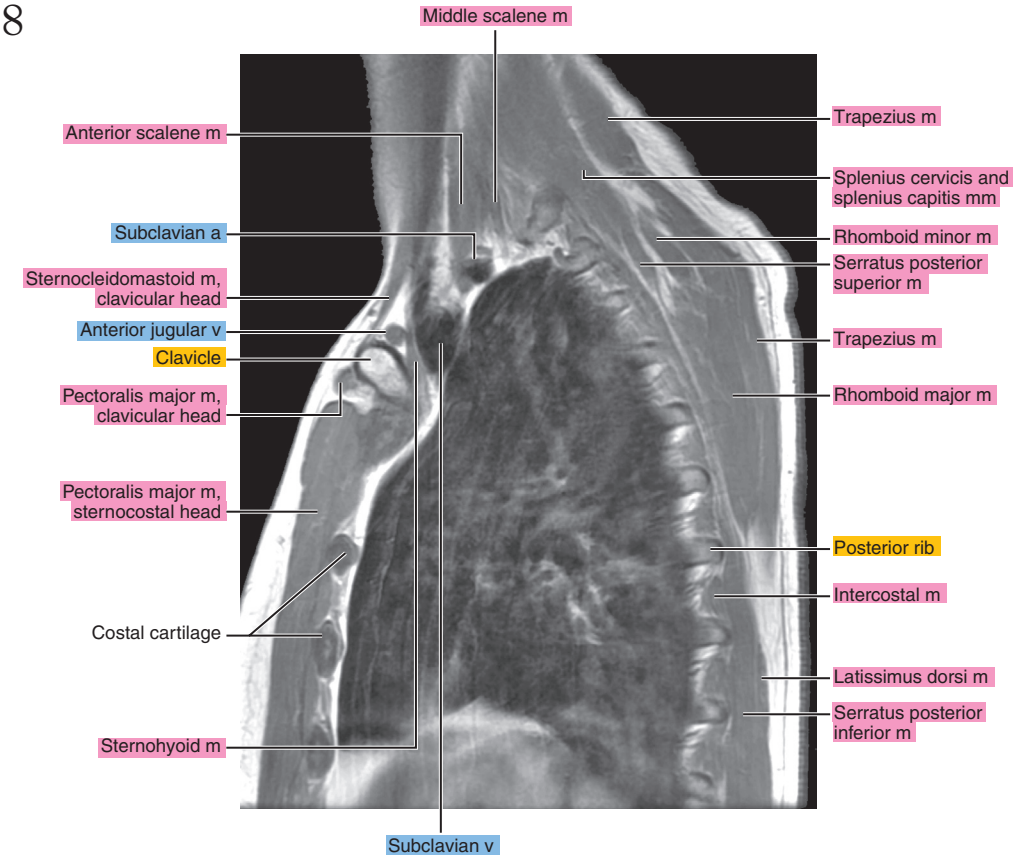

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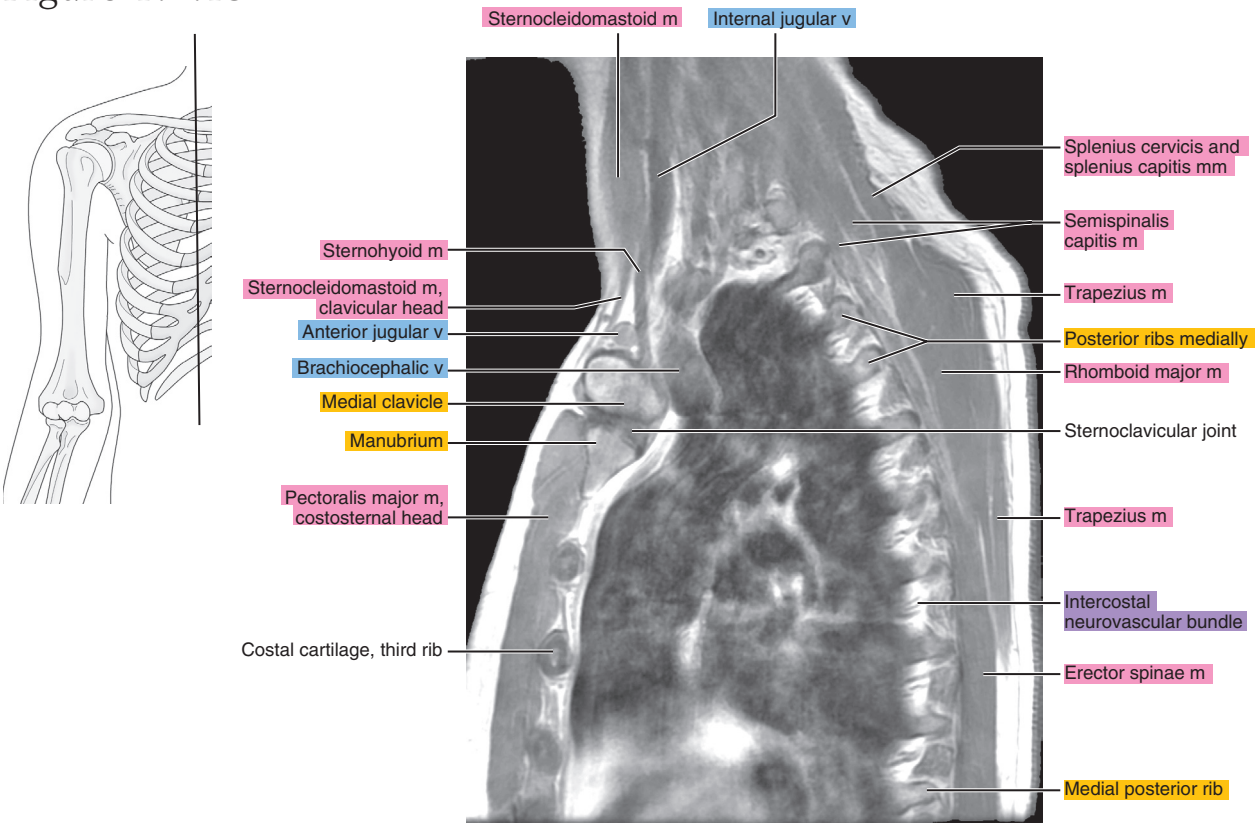
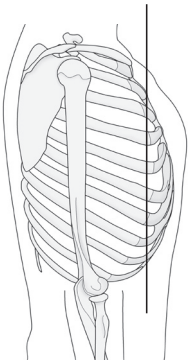

Sternocleidomastoid m
Internal jugular v
Splenius cervicis and splenius capitis mm
Semispinalis capitis m
Sternohyoid m
Trapezius m
Sternocleidomastoid m, clavicular head
Posterior ribs medially
Anterior jugular v
Rhomboid major m
Brachiocephalic v
Medial clavicle
Sternoclavicular joint
Manubrium
Pectoralis major m, costosternal head
Trapezius m
Intercostal neurovascular bundle
Costal cartilage, third rib
Erector spinae m
Medial posterior rib

CORONAL

Figure 1.3.1



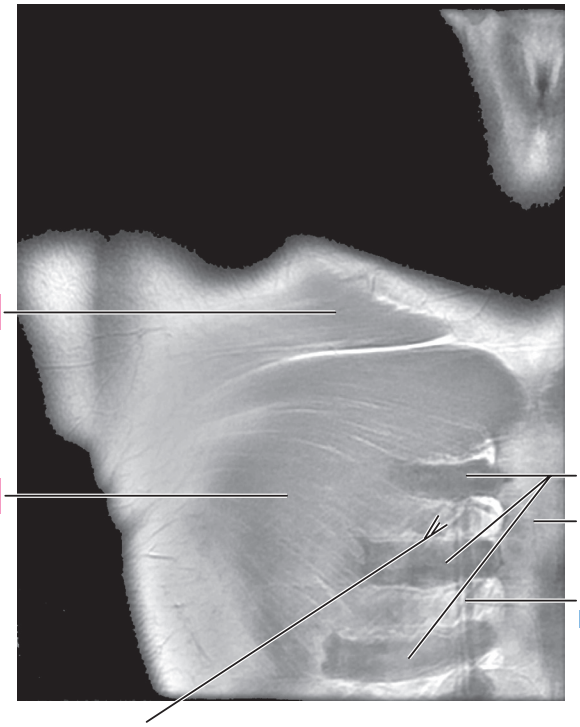
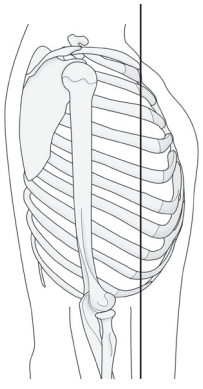
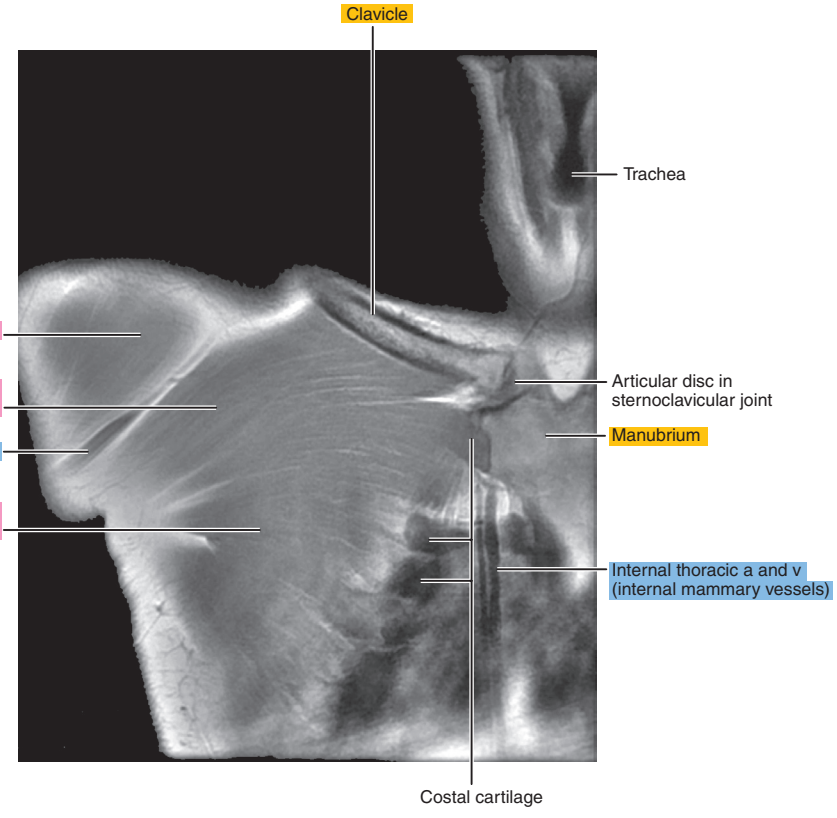


Figure 1.3.2





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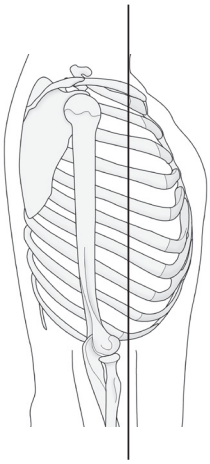

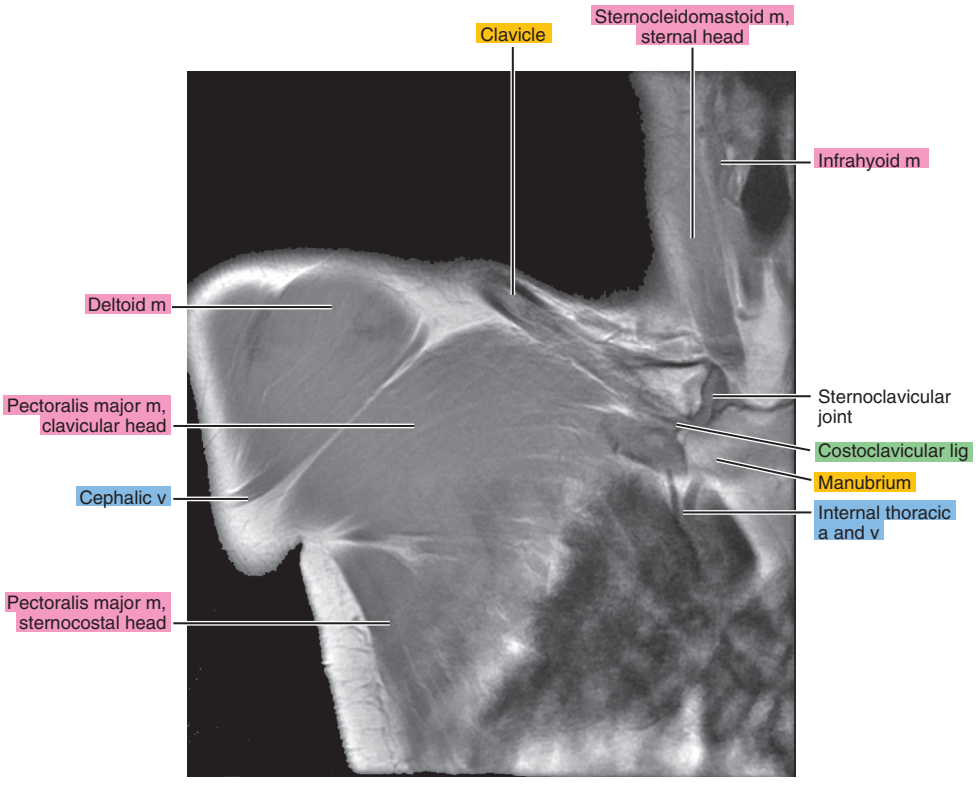

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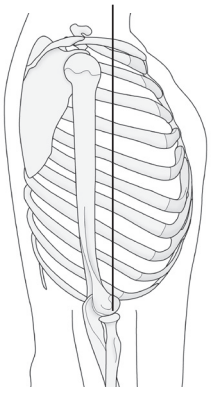

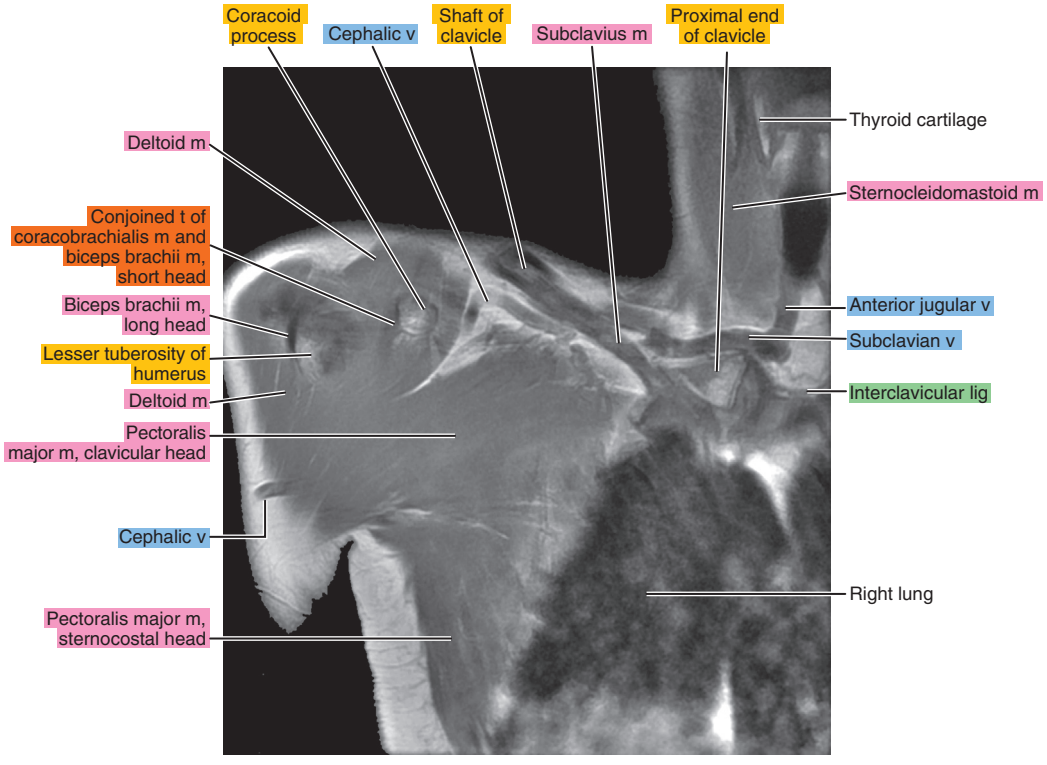

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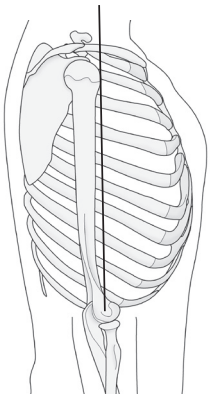

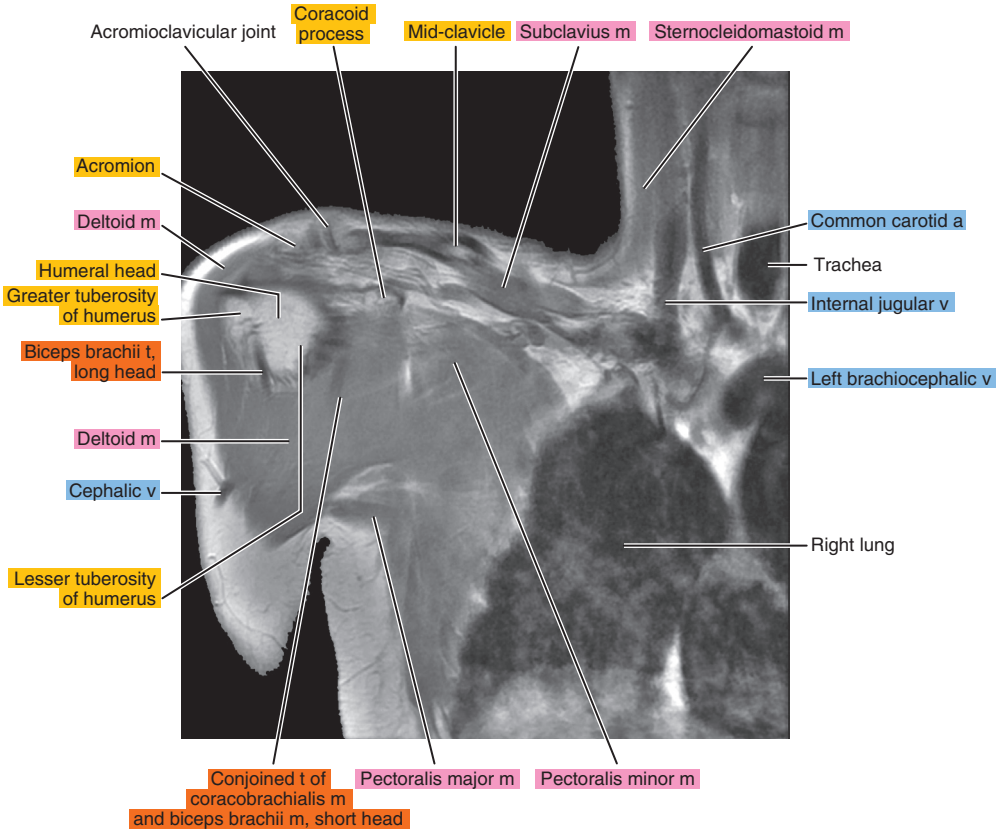

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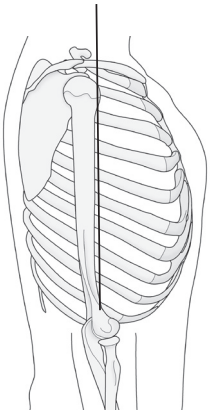

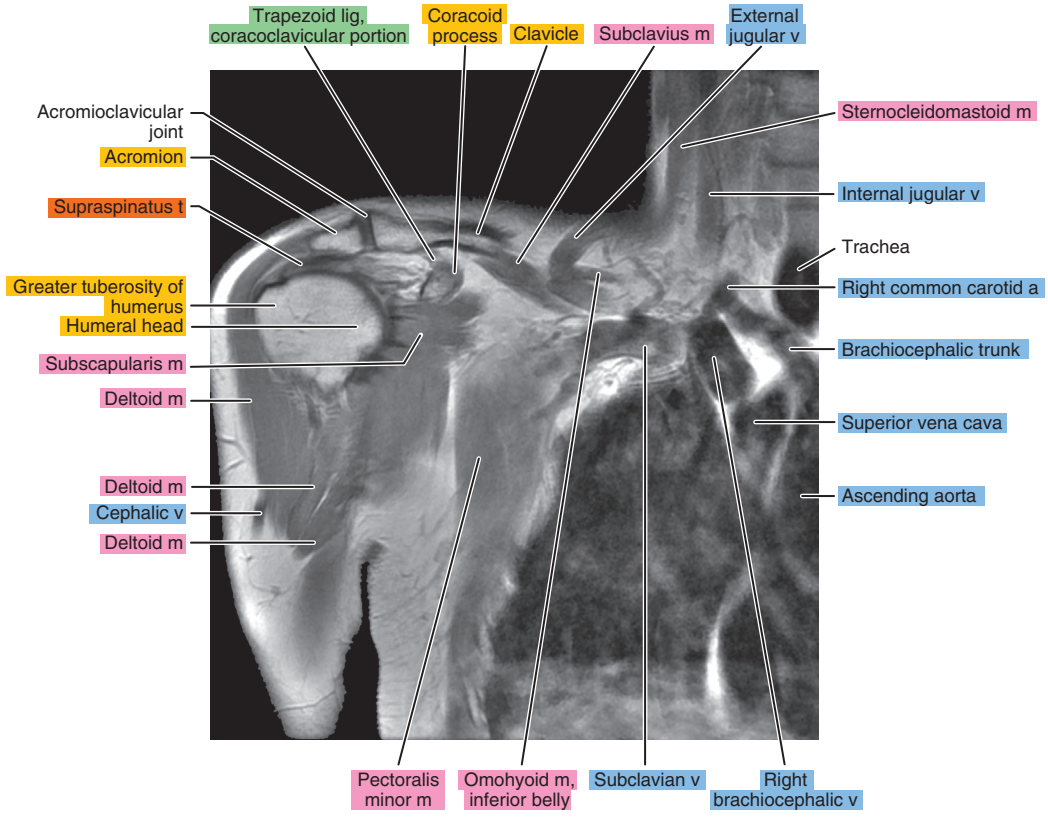

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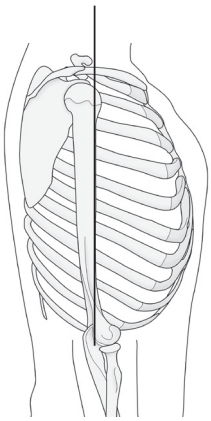


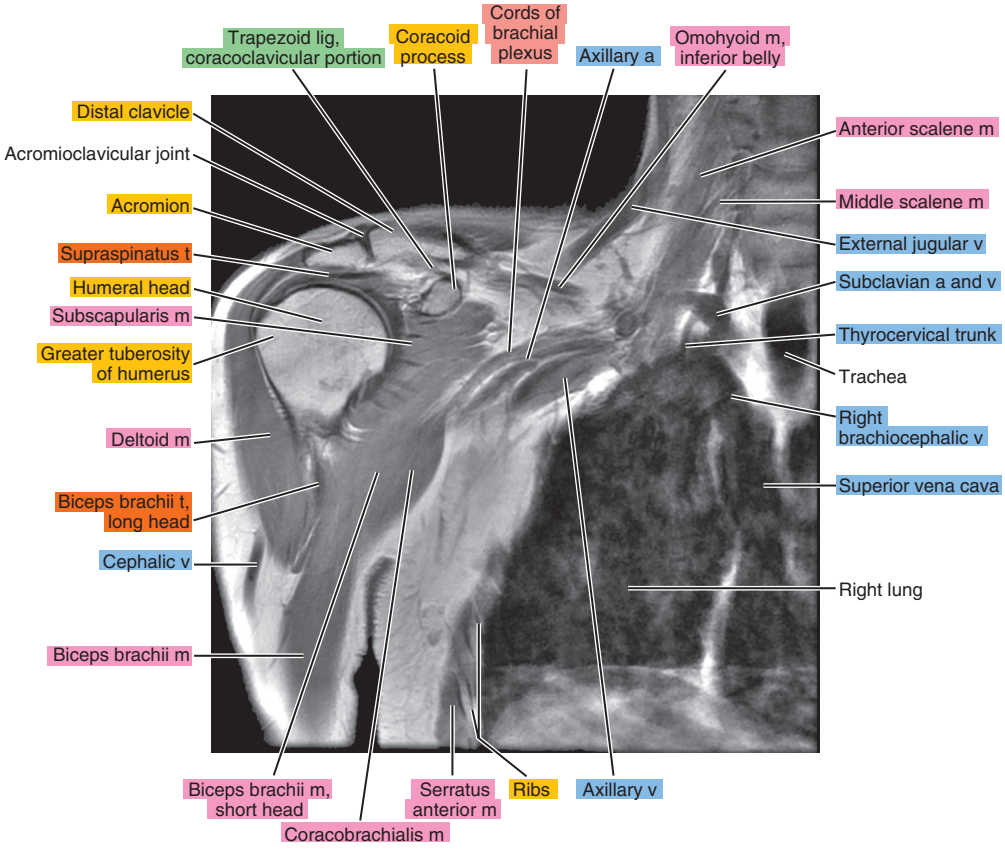
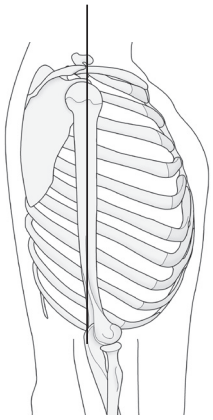
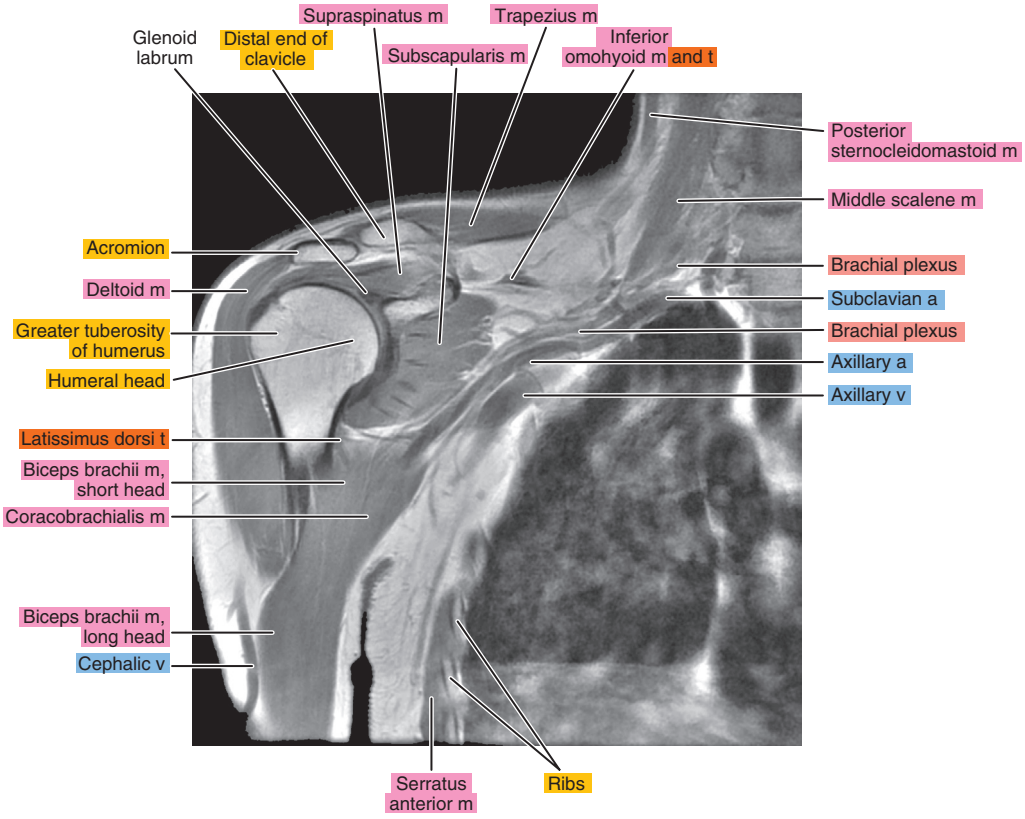


Figure 1.3.8





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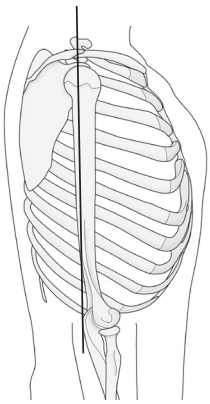


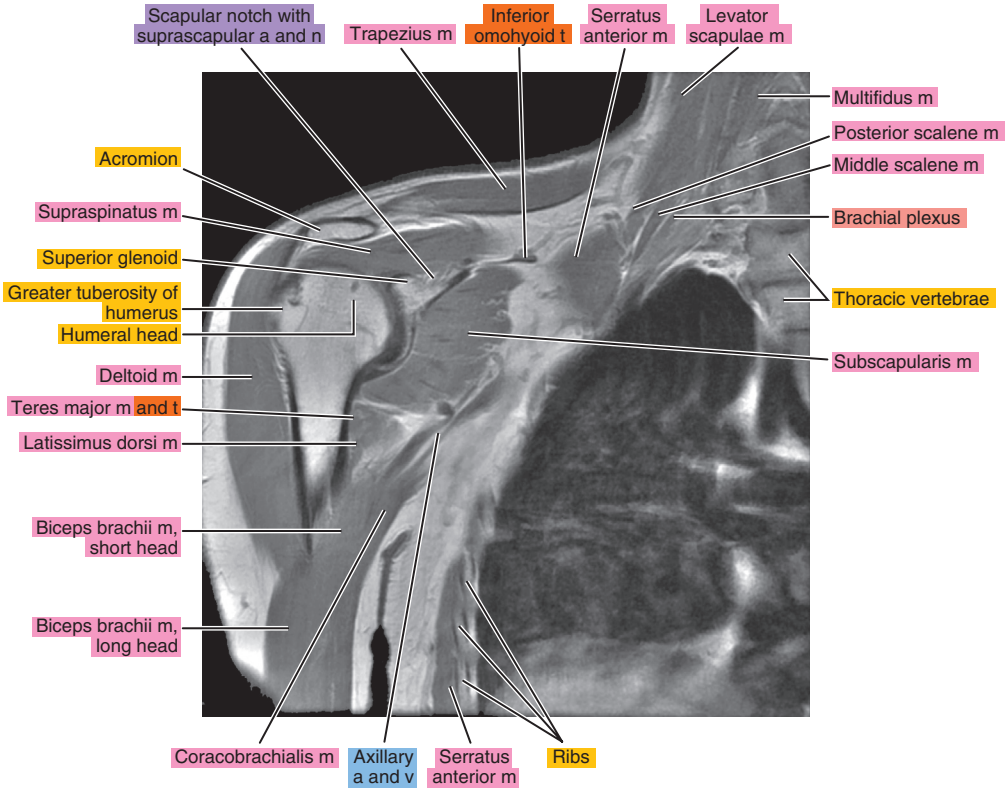
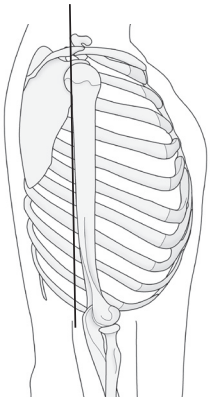
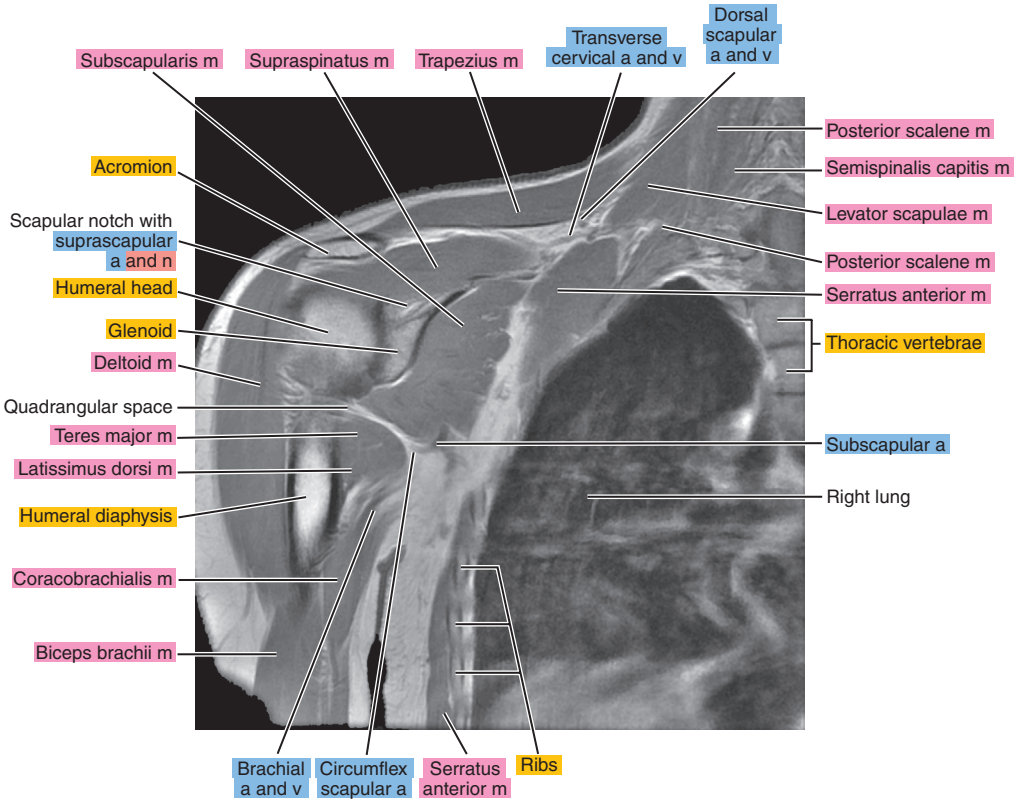


Figure 1.3.10





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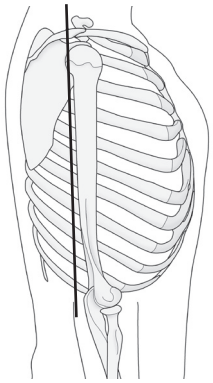

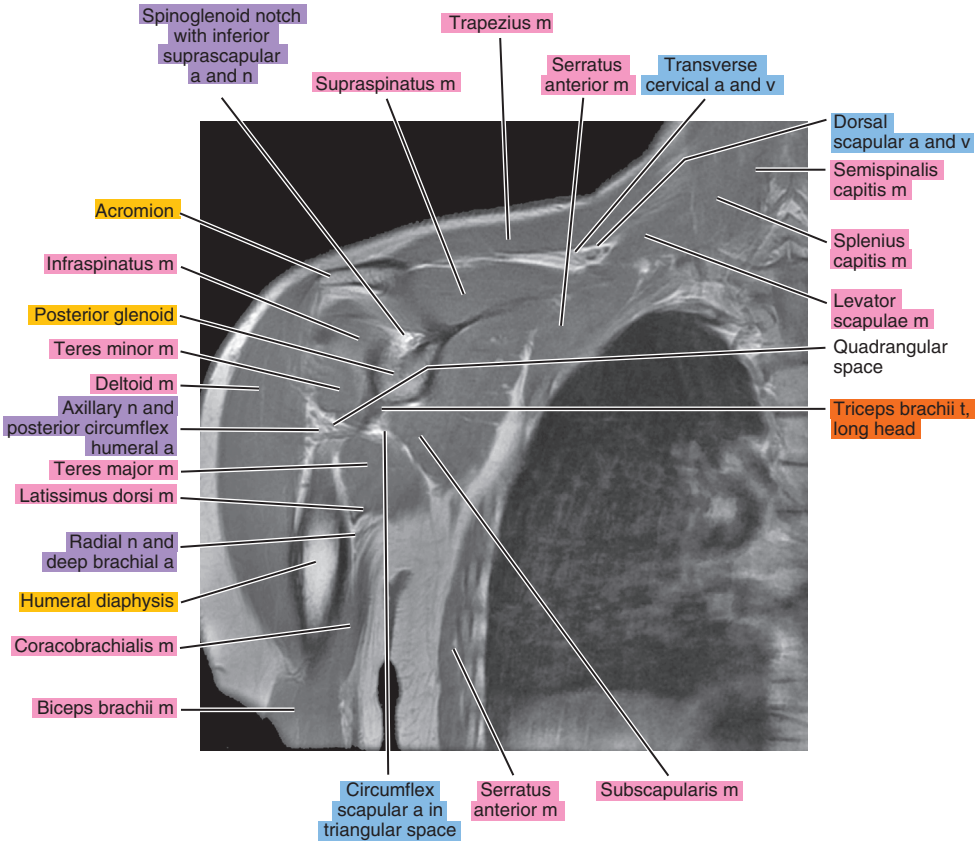

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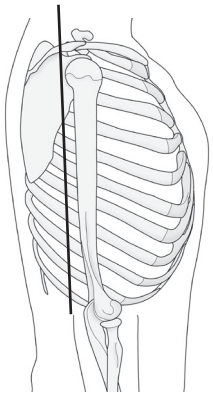

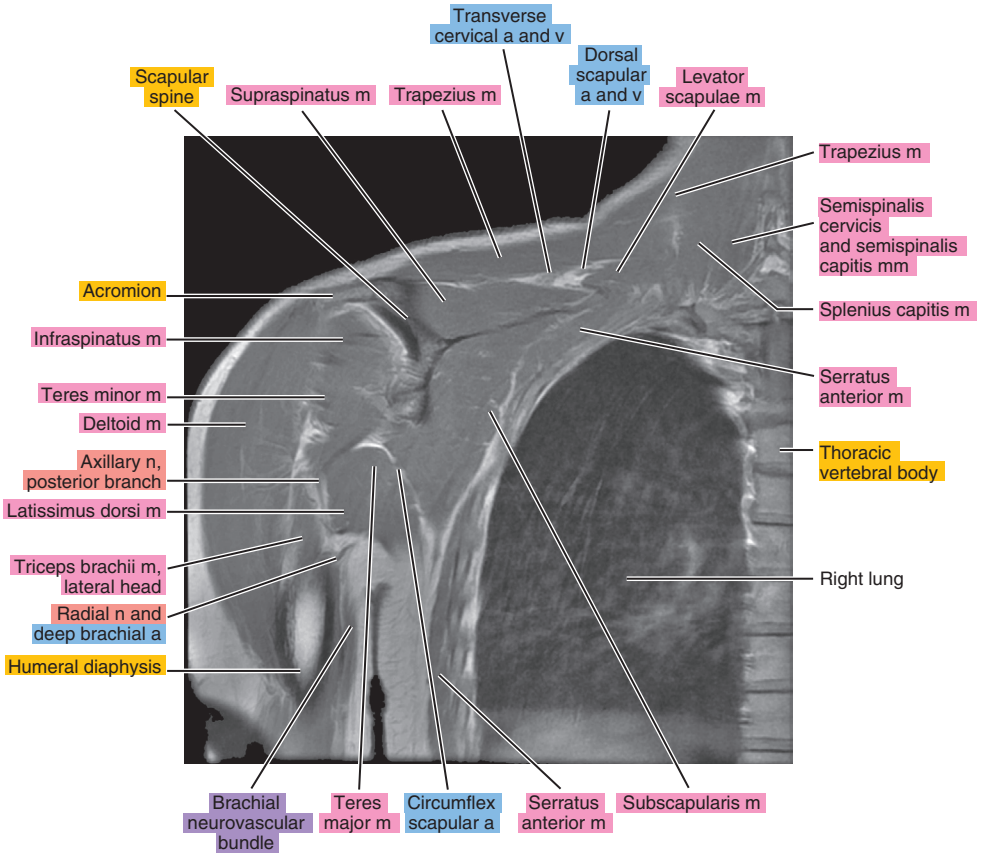

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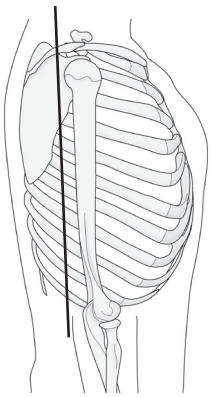

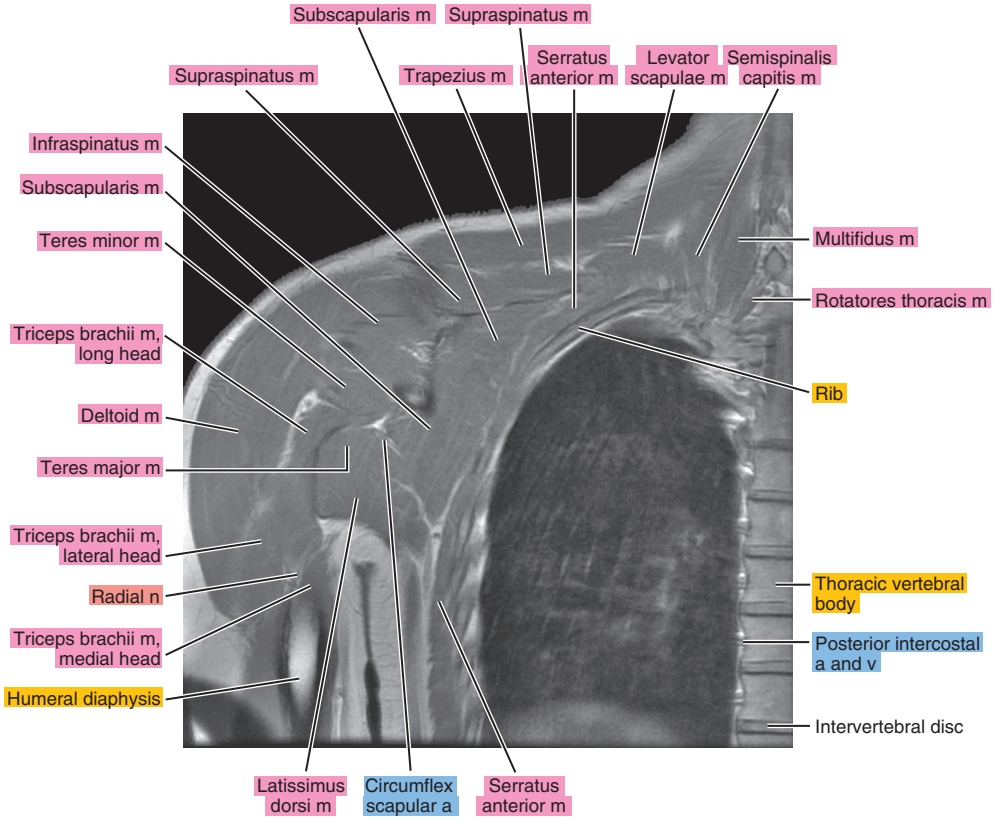

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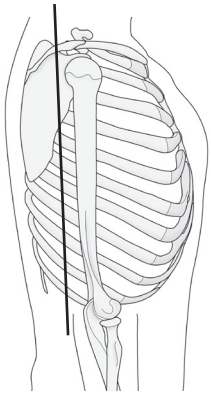

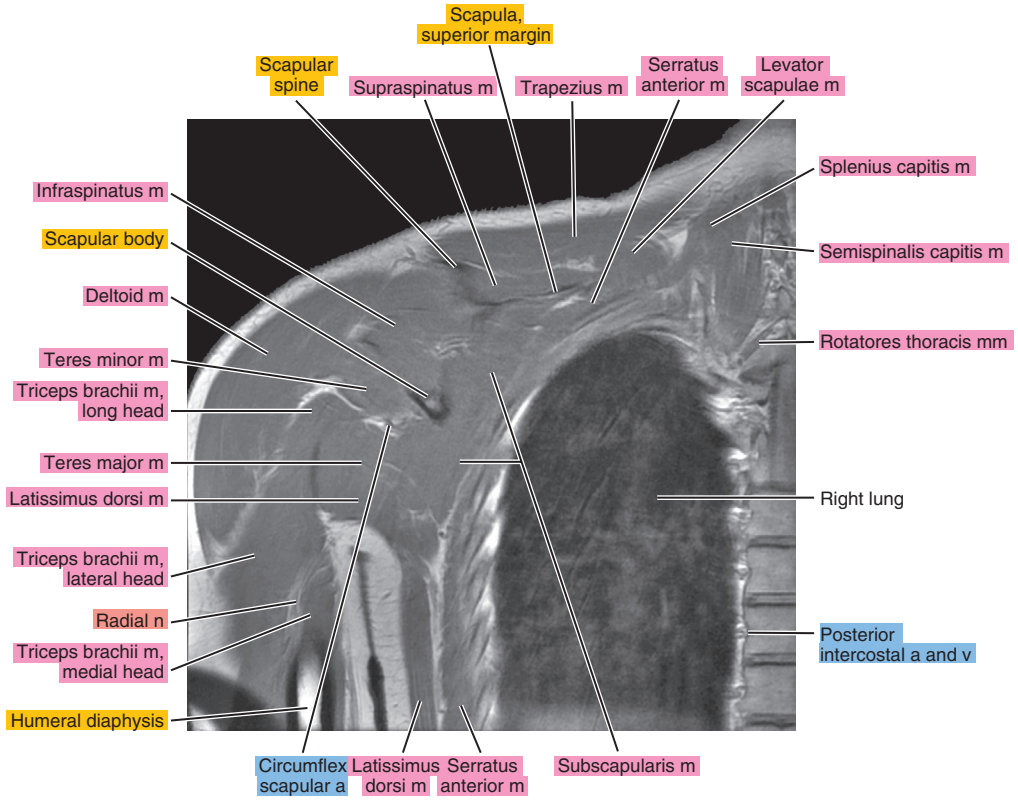

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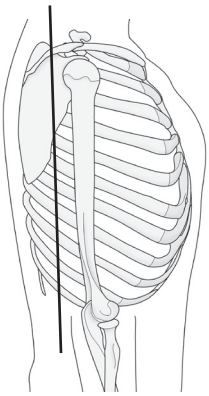

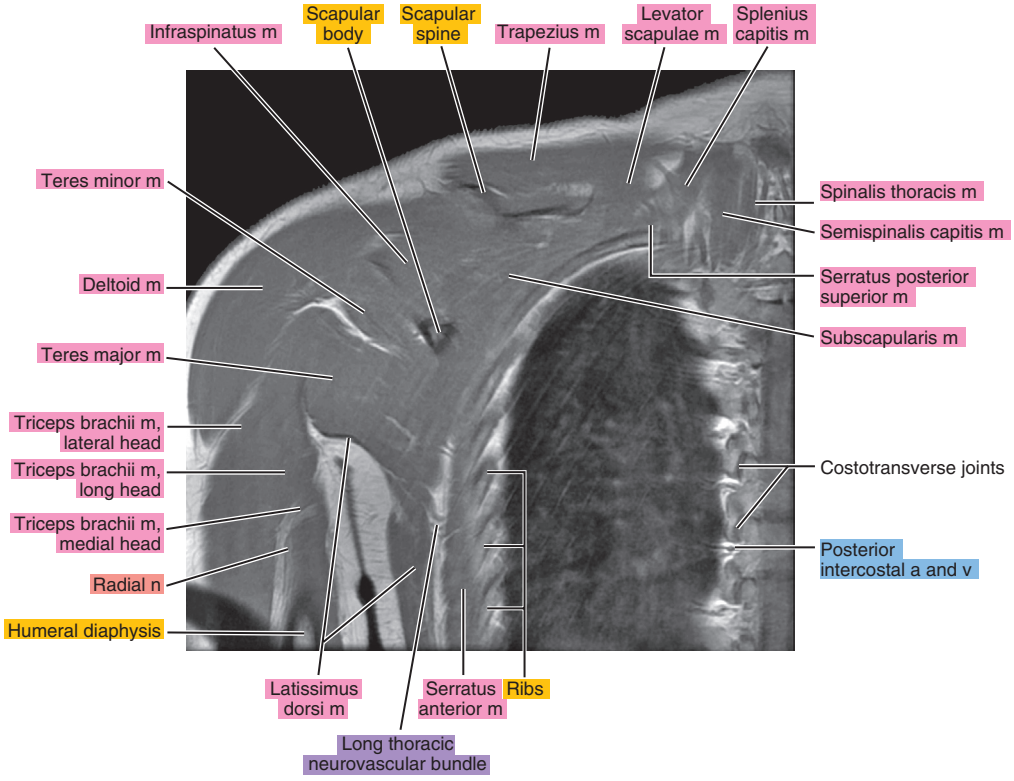

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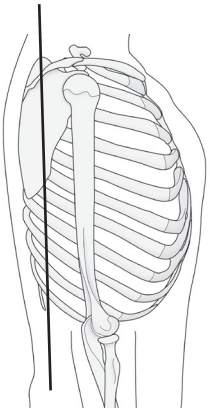

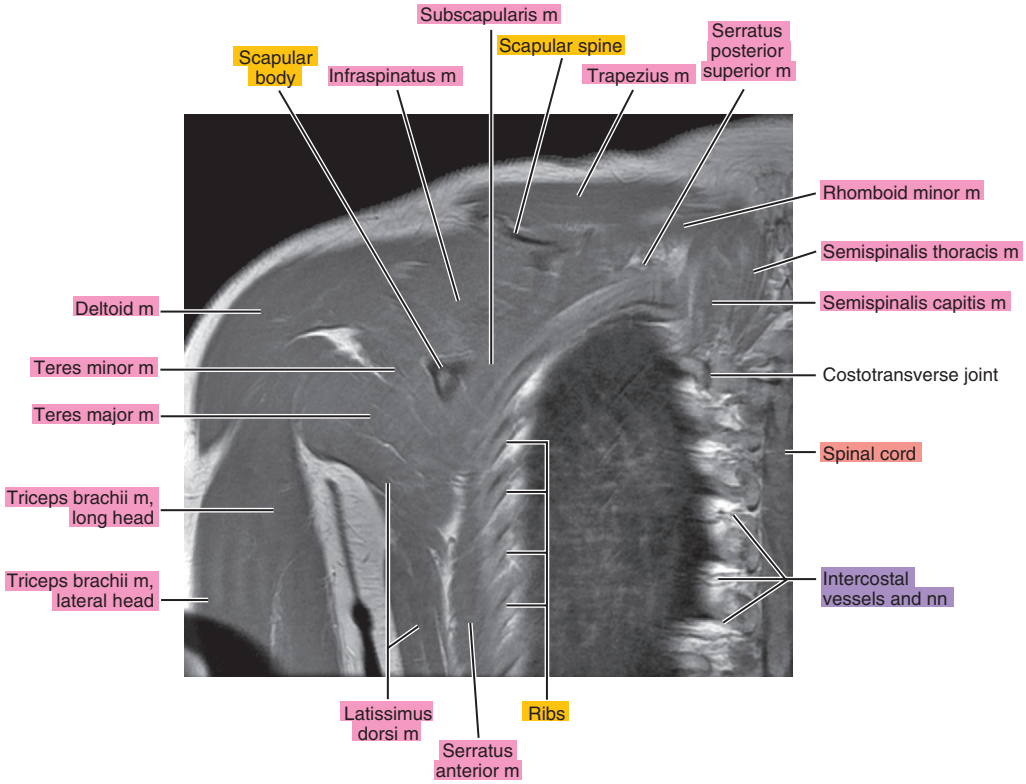

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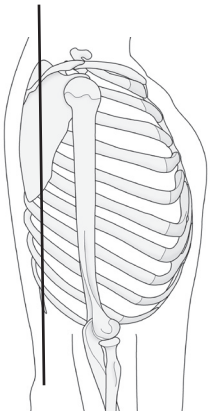

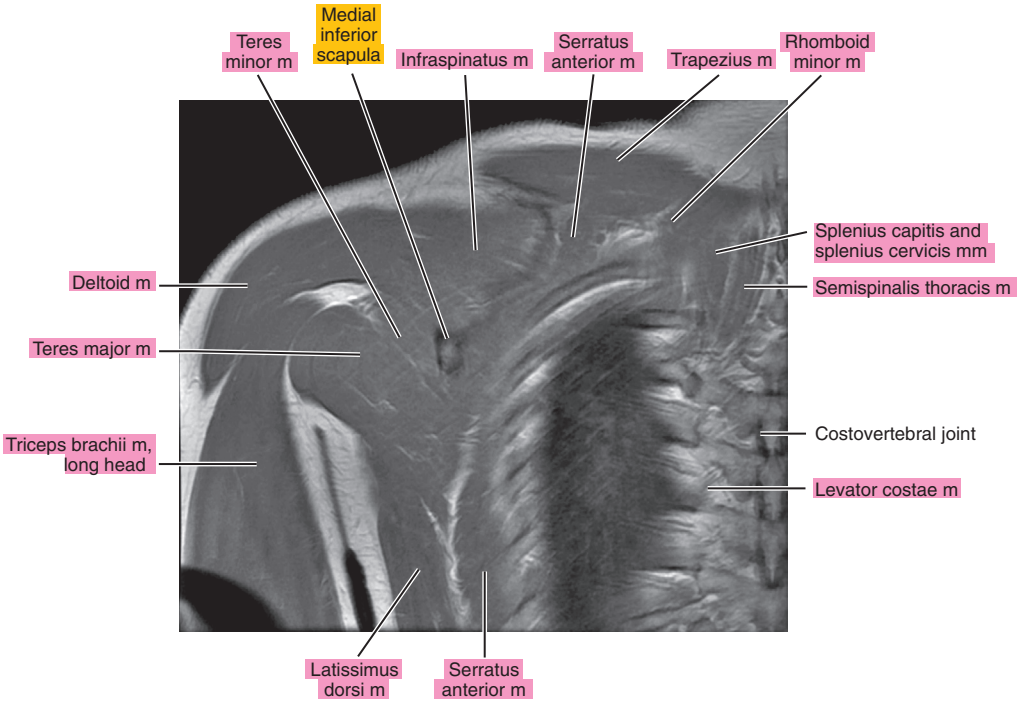

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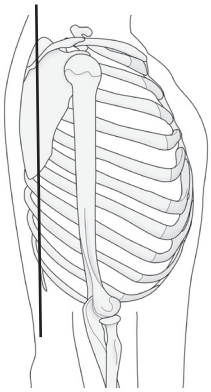

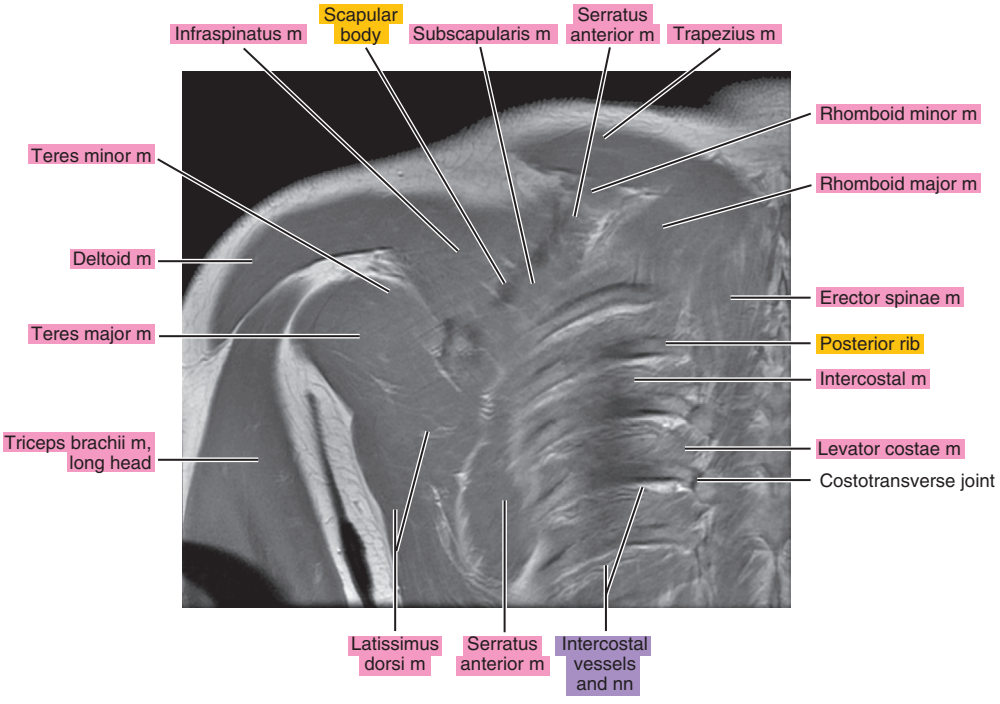

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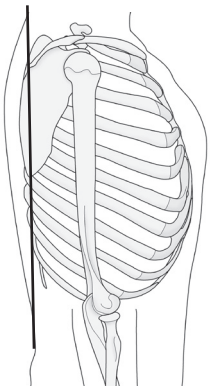

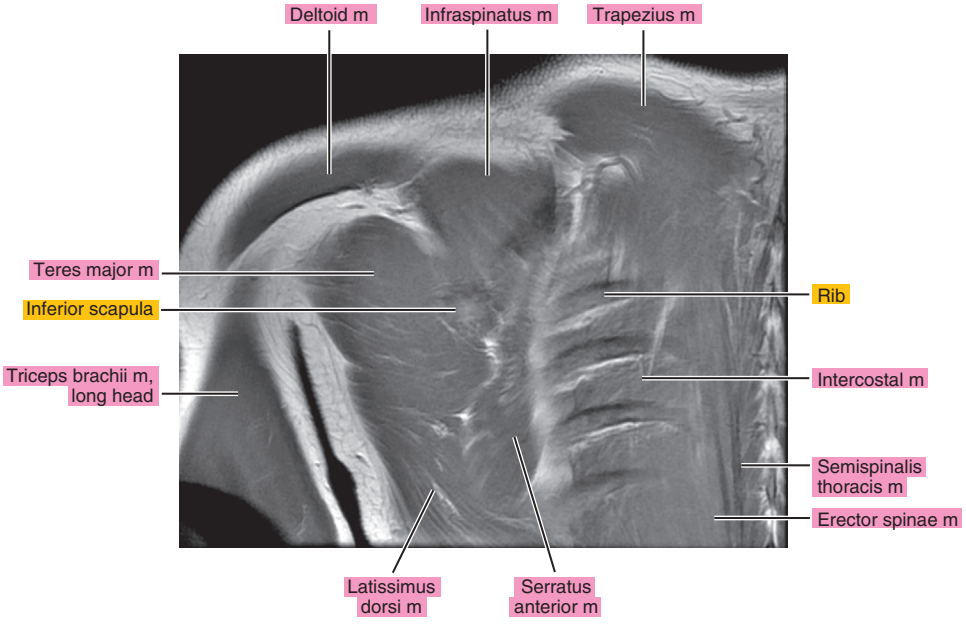

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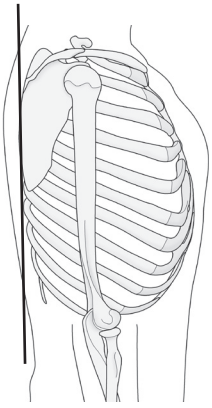

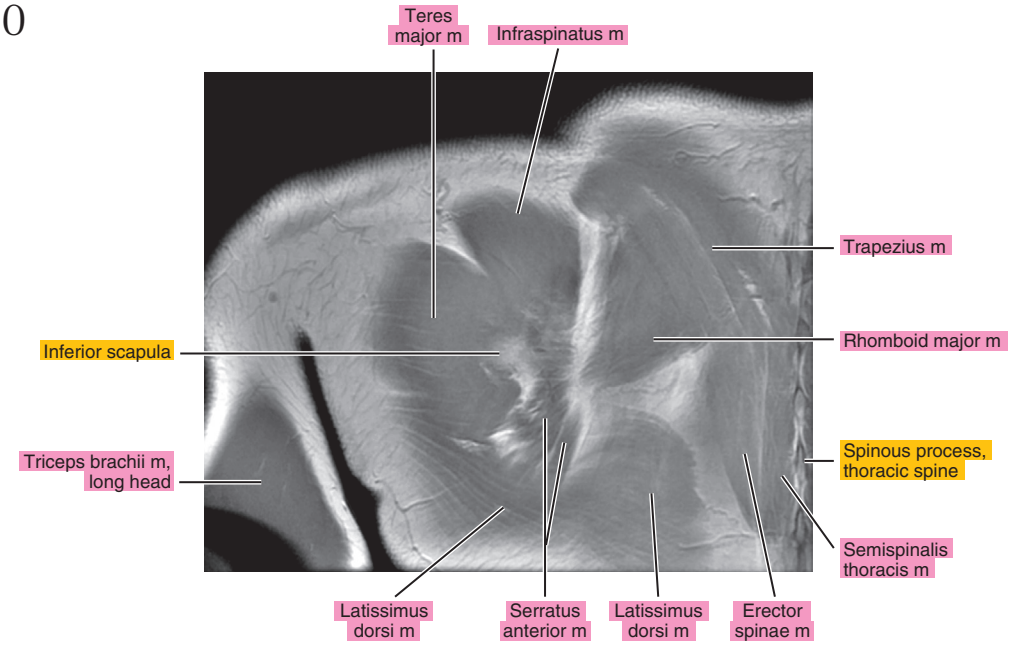

Chapter

2

MRI of the Shoulder

Table 2-1. Muscles of the Shoulder

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Pectoralis major	Medial half of the anterior surface of the clavicle, side and front of the sternum as far as the 6th costal cartilage, front and surfaces of the cartilage of the 2nd through 6th ribs, osseous ends of the 6th and 7th ribs, and aponeurosis of external abdominal oblique	Crest of the greater tubercle of the humerus, lateral lip of the intertubercular groove, deltoid tubercle, and fibrous periosteum of the intertubercular sulcus	Lateral and medial pectoral (C5 and C6 for the clavicular part, and C7, C8, and T1 for the sternocostal part)
Pectoralis minor	Aponeurotic slips from the 2nd through 5th ribs, near costal cartilages	Anterior half of the medial border and upper surface of the coracoid process of the scapula	Medial and lateral pectoral (C6, C7, C8)
Subclavius	First rib and its cartilage	Inferior surface of the clavicle between the costal and coracoid tuberosities	Nerve to subclavian (C5 or C5 and C6)
Deltoid	Lateral border and upper surface of the lateral third of the clavicle, the acromion, and the scapular spine	Deltoid tuberosity of the humerus	Axillary (C5, C6)
Supraspinatus	Supraspinous fossa and investing fascia	Shoulder capsule and superior facet of the greater tubercle of the humerus	Suprascapular (C4, C5, C6)
Infraspinatus	Infraspinous fossa, scapular spine, investing (deep) fascia, and adjacent aponeurotic septa	Shoulder capsule and middle facet of the greater tubercle of the humerus	Suprascapular (C4, C5, C6)
Teres minor	Upper two thirds of the axillary border of the scapula	Shoulder capsule and inferior facet of the greater tubercle of the humerus	Axillary (C4, C5, C6)
Subscapularis	Subscapularis fossa	Shoulder capsule and lesser tubercle of humerus and its shaft immediately below the tubercle	Two or three subscapular branches from posterior cord and upper and lower subscapular (C5, C6, C7)
Teres major	Inferior angle of the scapula	Medial lip of the intertubercular groove of the humerus	Lower subscapular (C6, C7)
Latissimus dorsi	Spine and interspinous ligaments of the lower five or six thoracic vertebrae, upper lumbar vertebrae, thoracodorsal fascia, posterior third of the crest of the ilium, and the lateral surface and upper edge of the lower three or four ribs	Muscle tendon inserts onto the ventral side of the lesser tubercle of the humerus and onto the floor of the intertubercular groove ventral to the tendon of the teres major. The tendon may extend to the greater tubercle of the humerus.	Thoracodorsal (C6, C7, C8)

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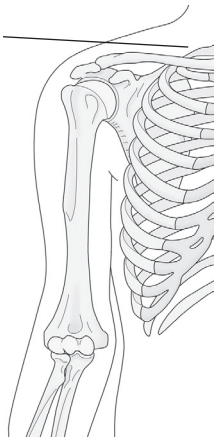
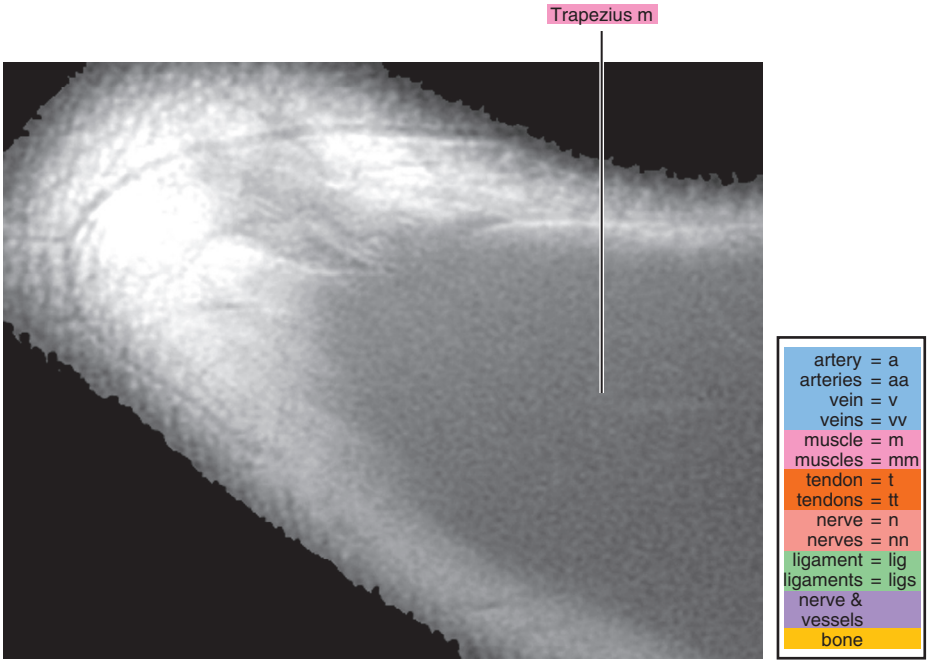
Figure 2.1.1





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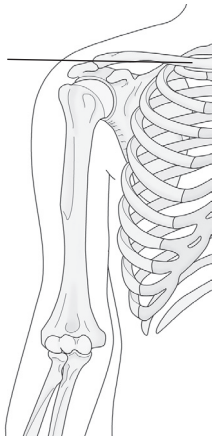

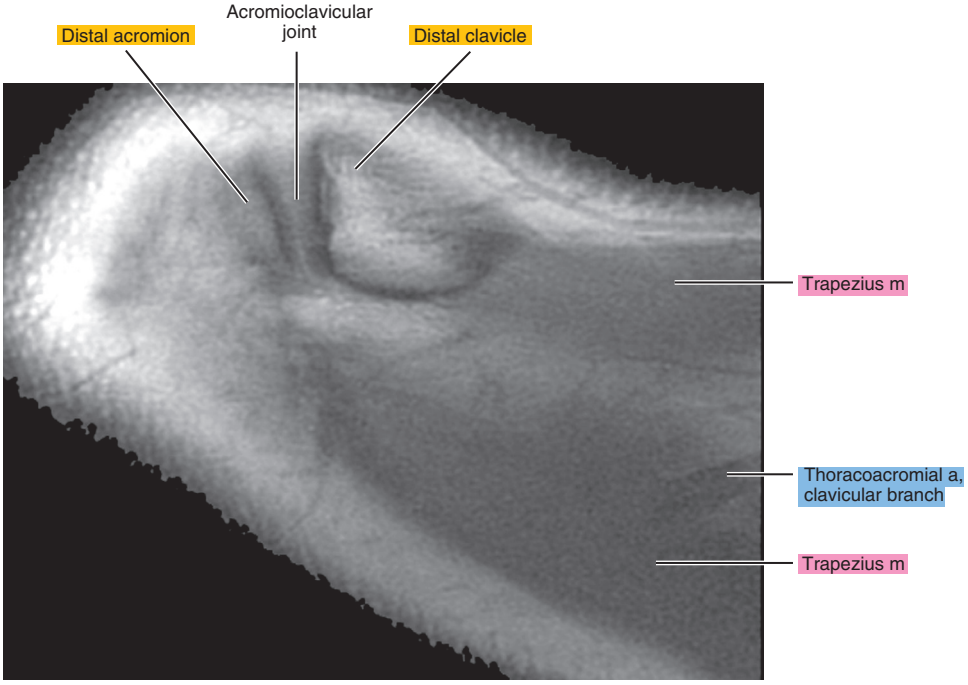

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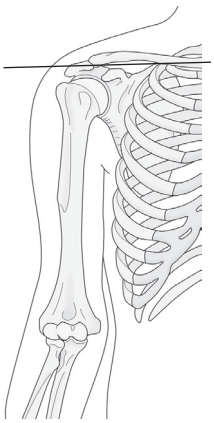

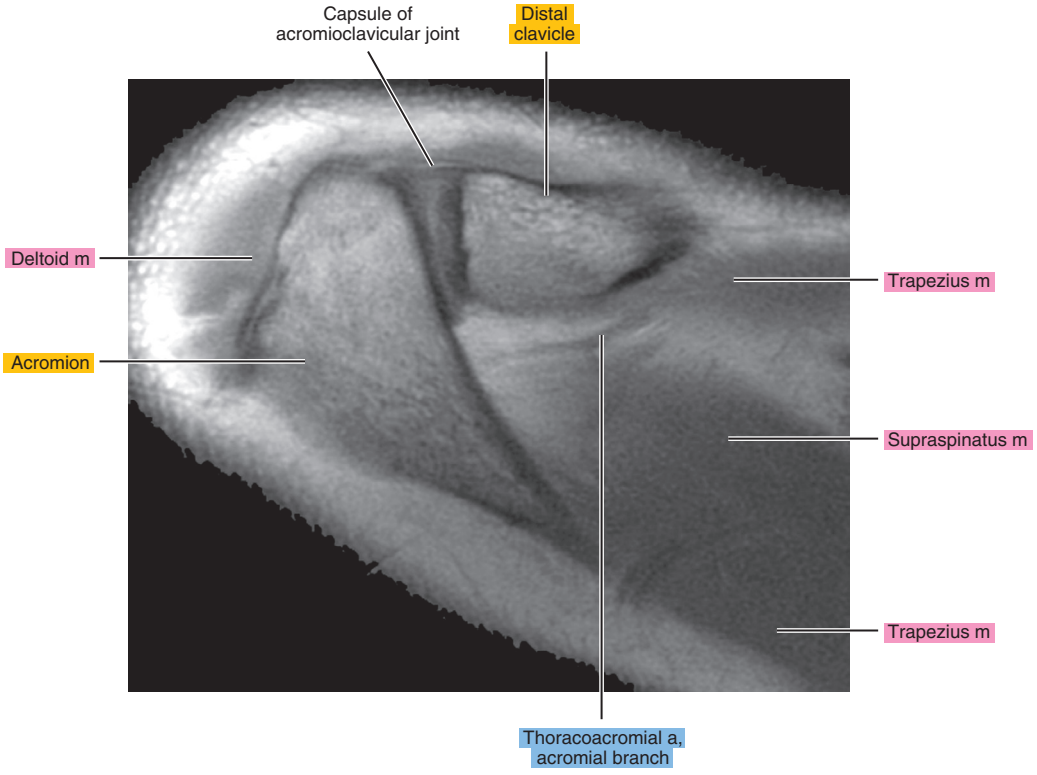

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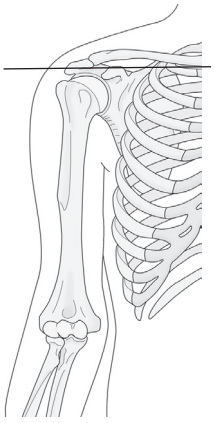

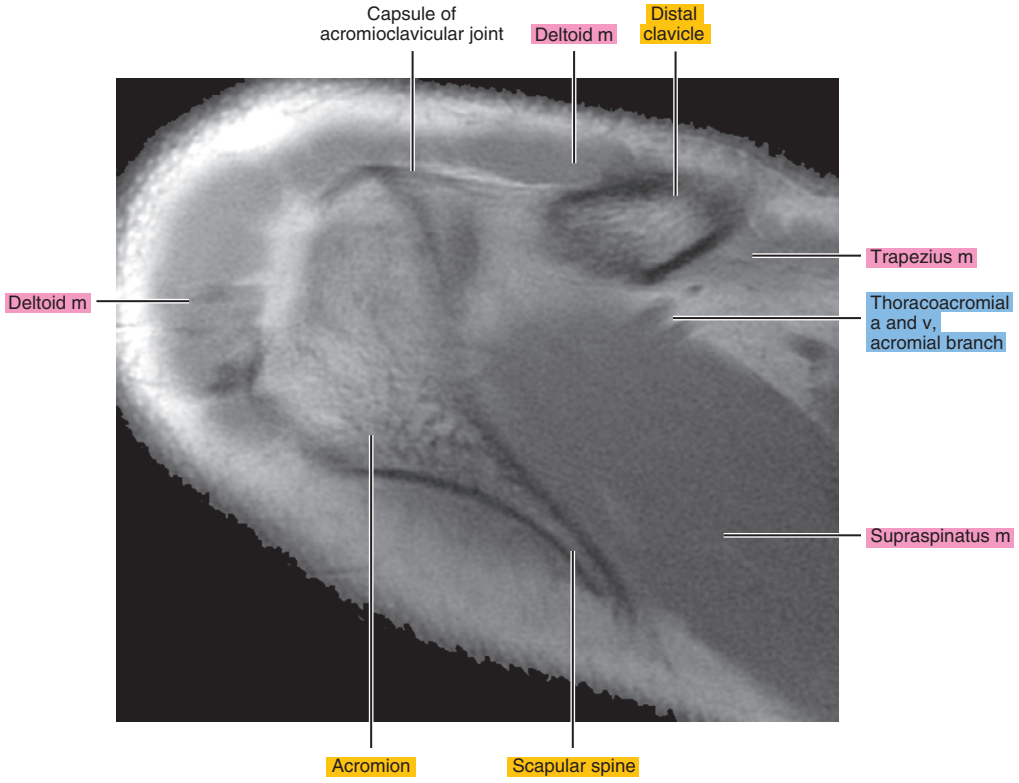

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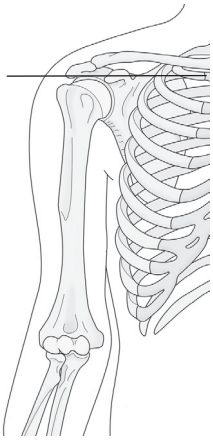

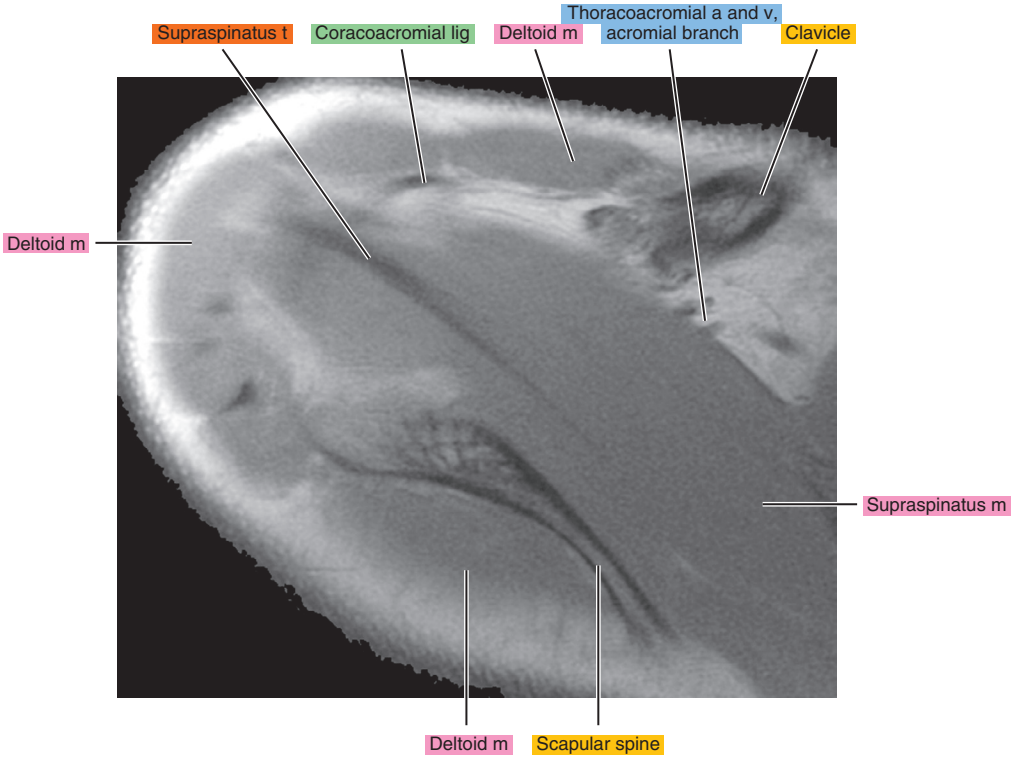

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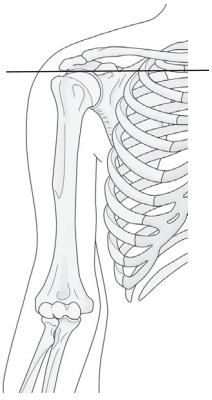

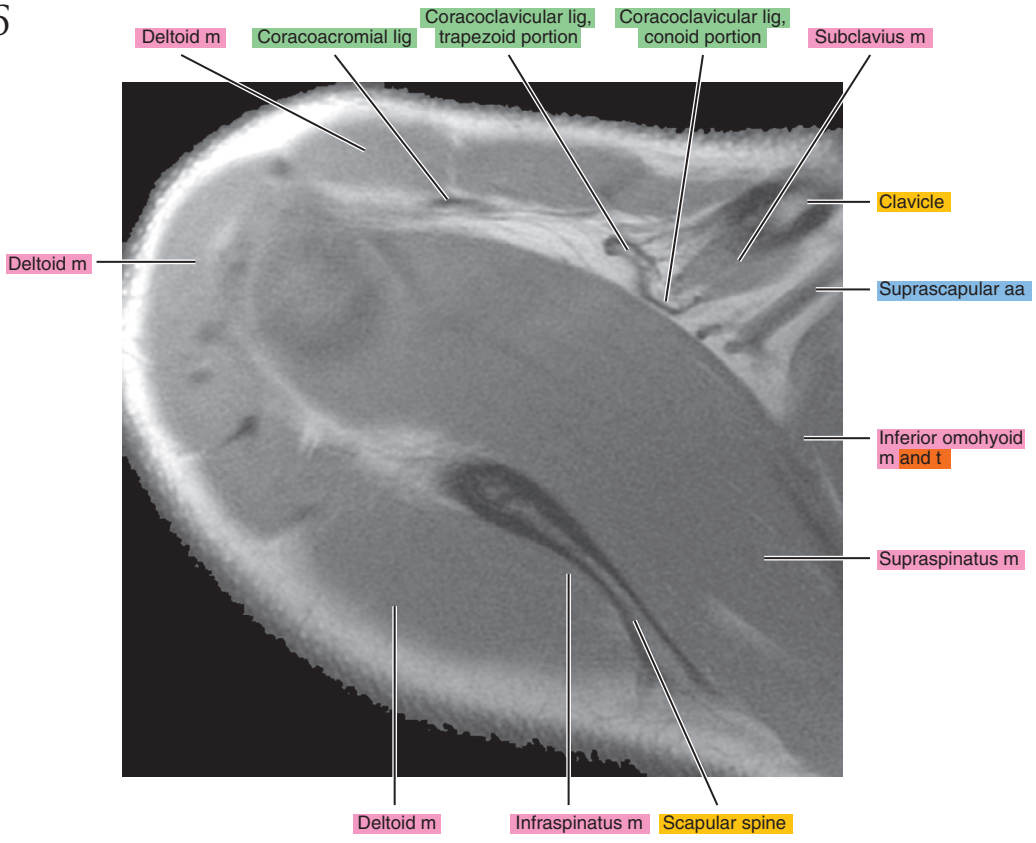

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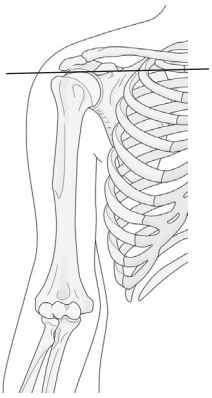

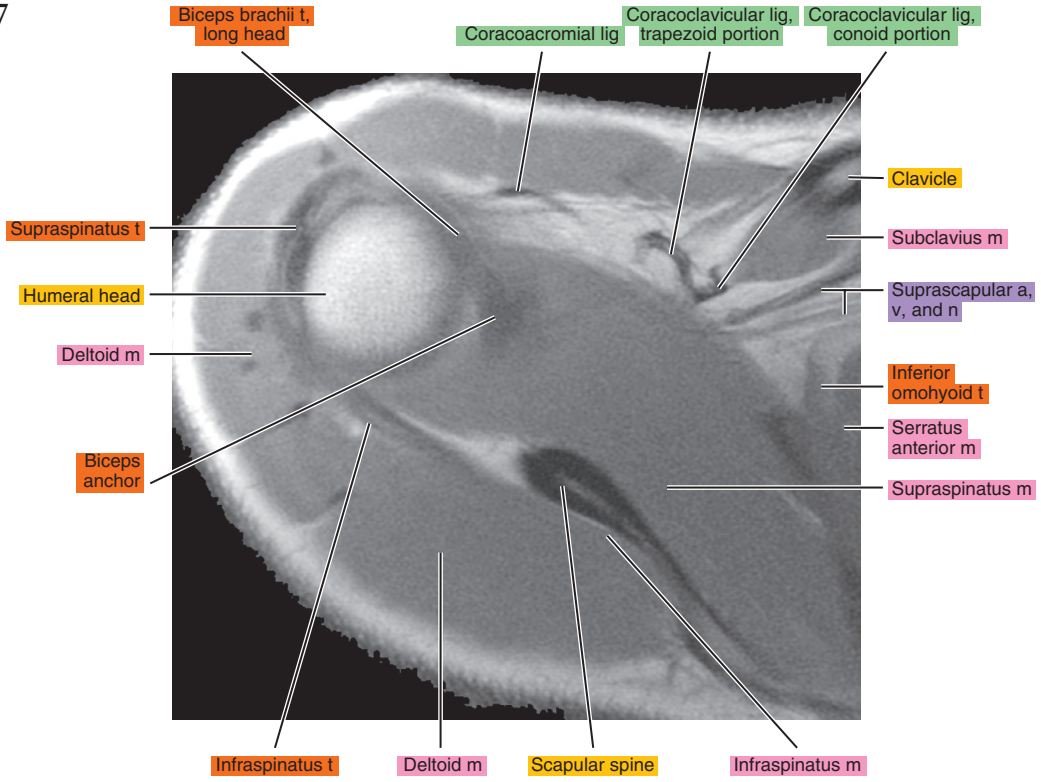

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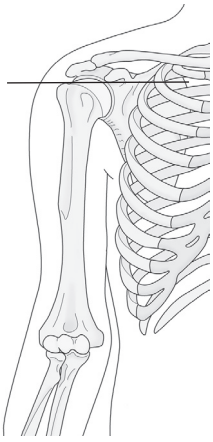

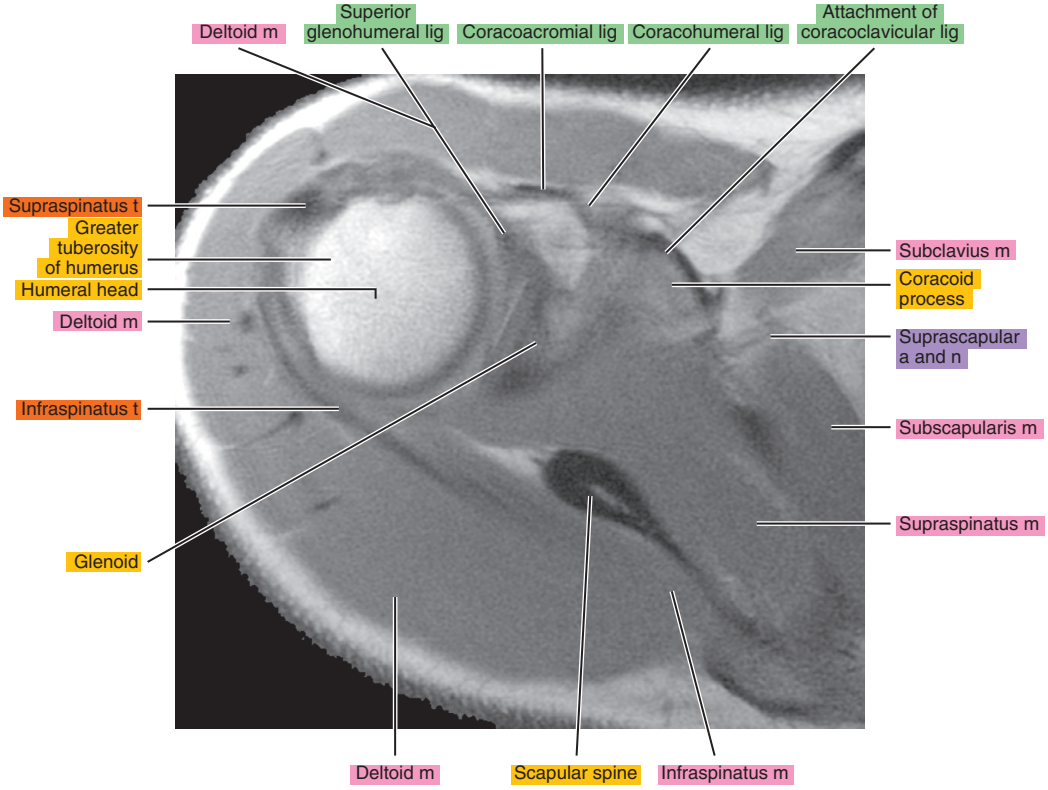

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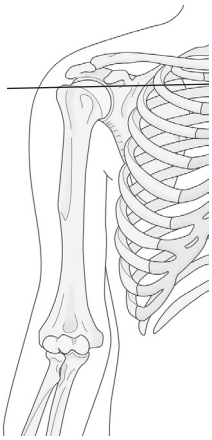

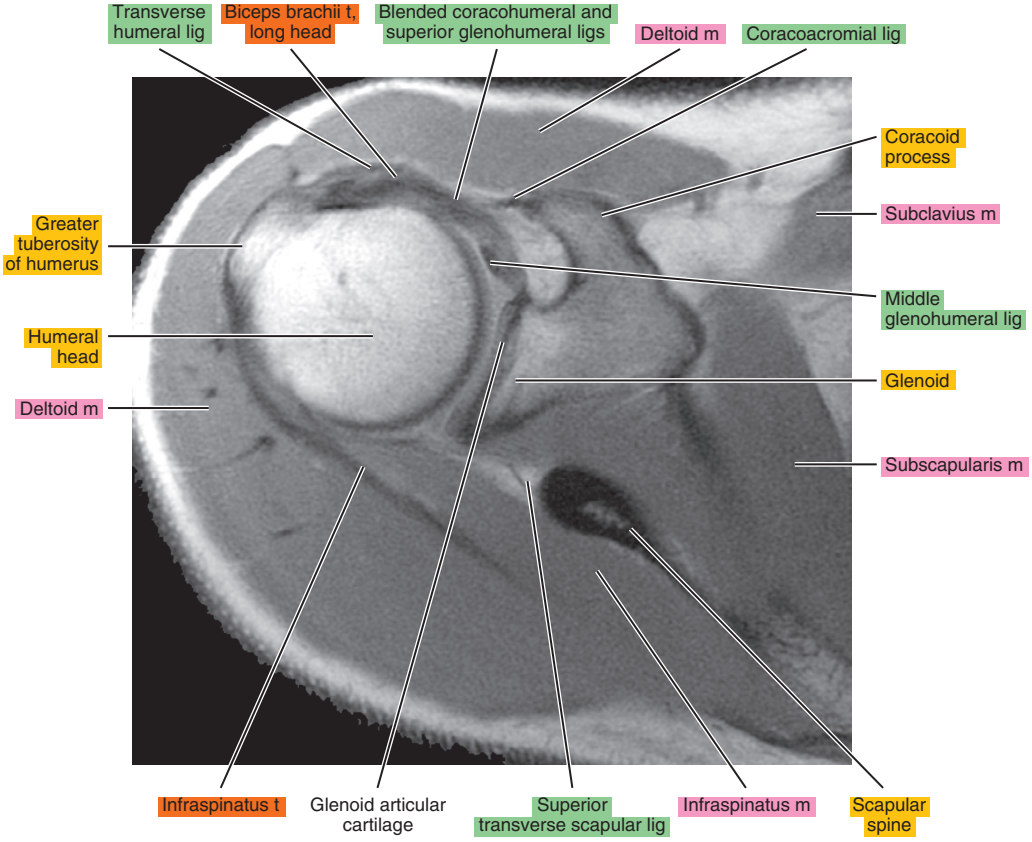

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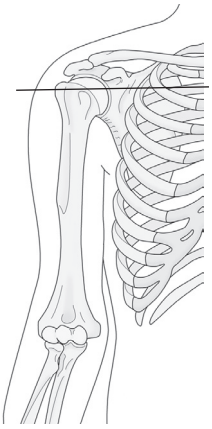

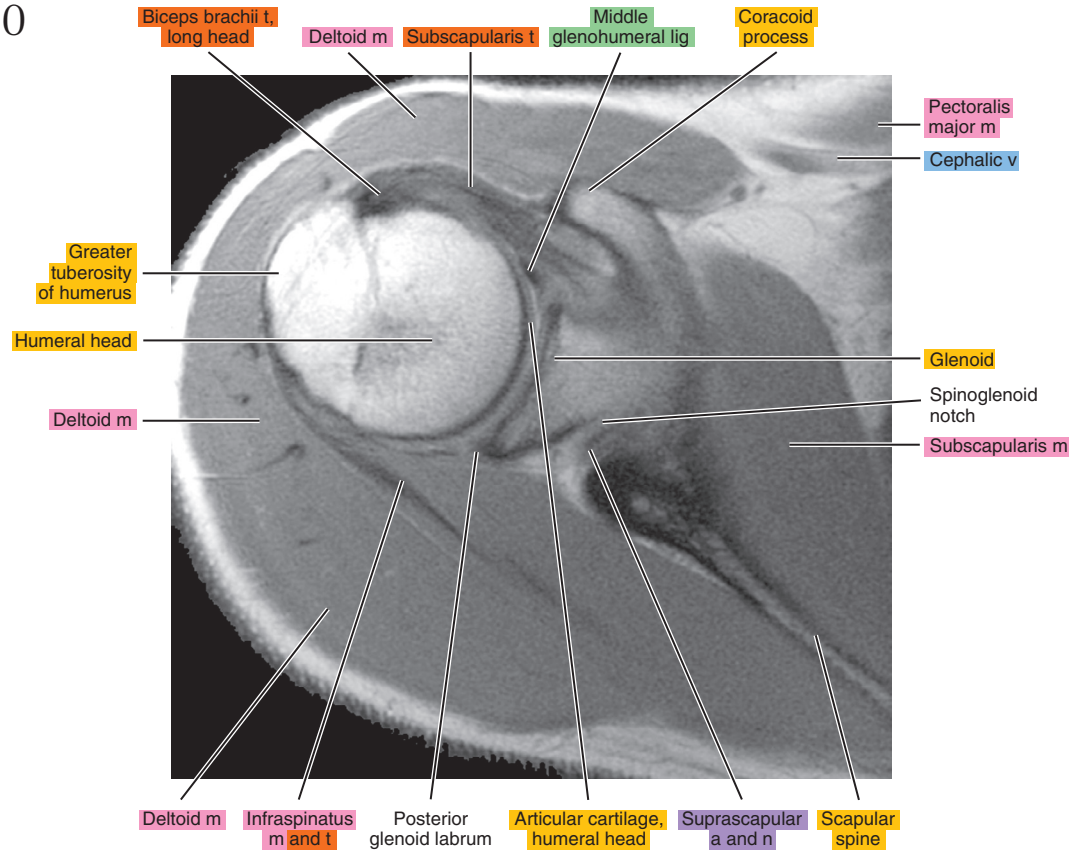

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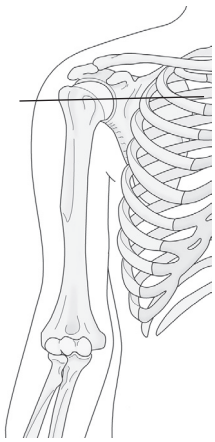

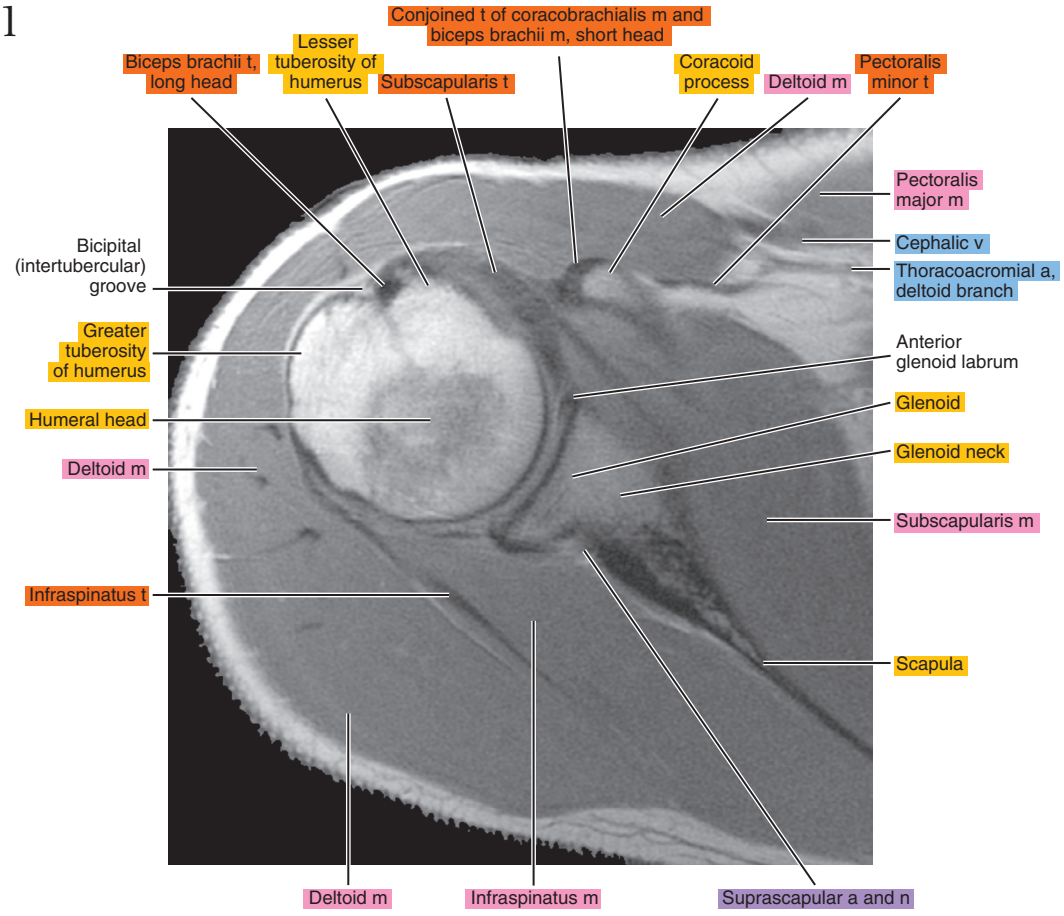

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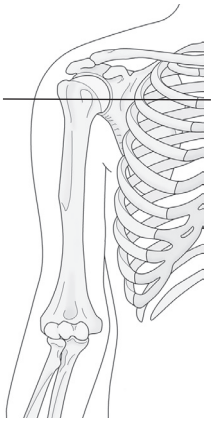

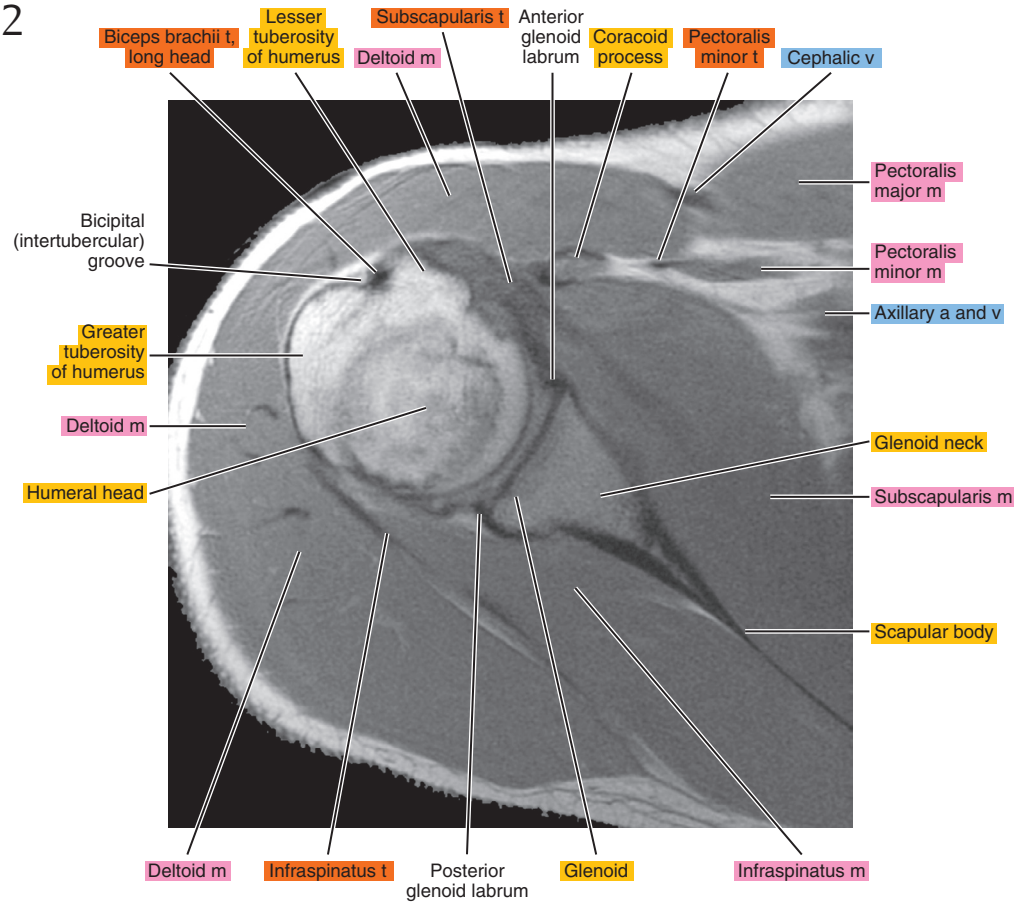

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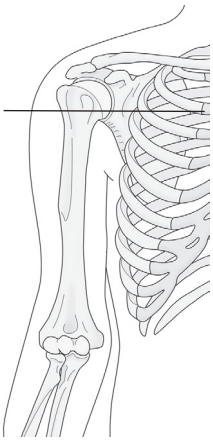

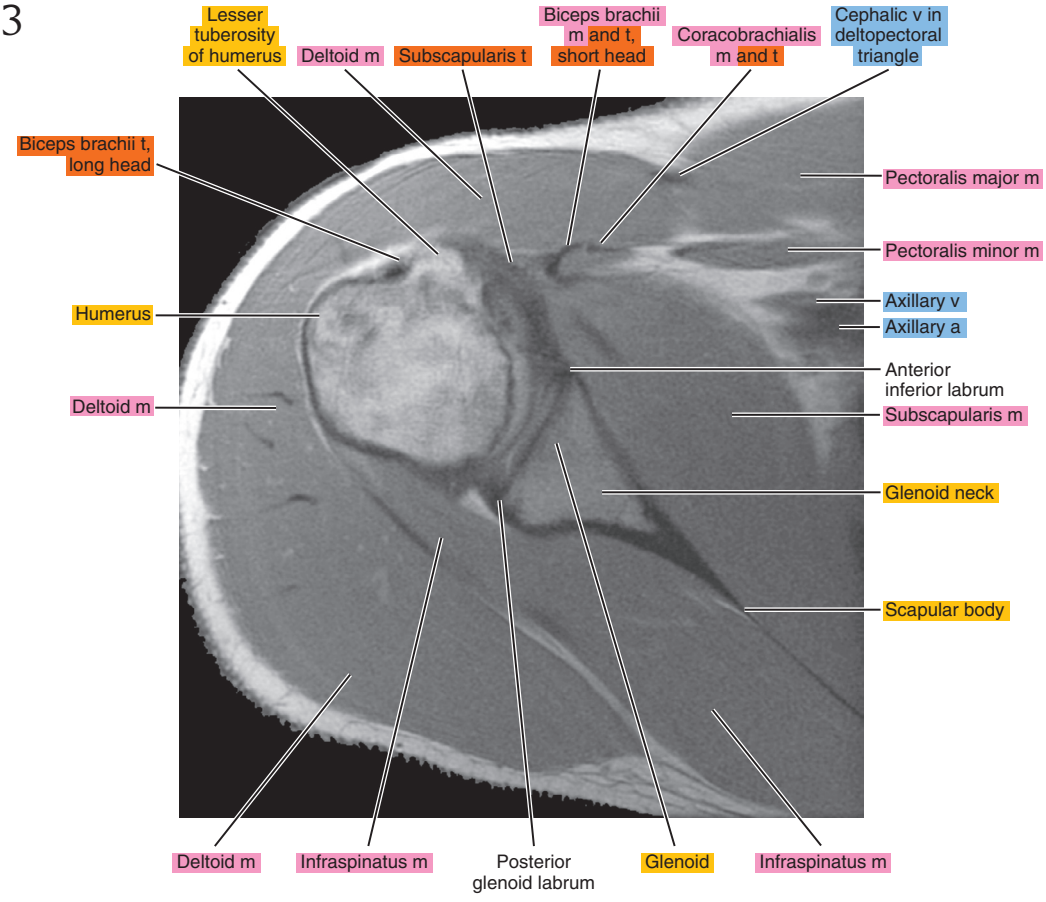

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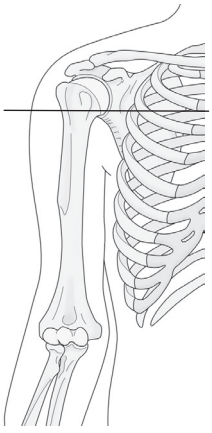

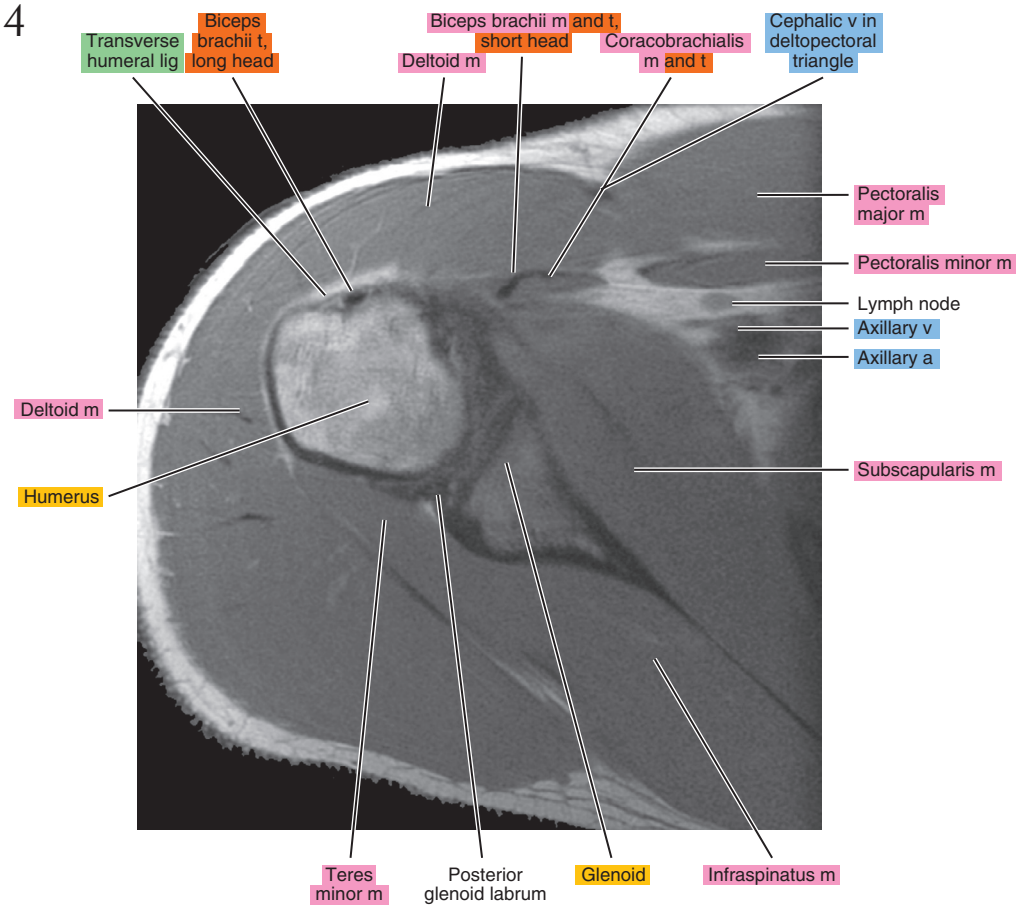

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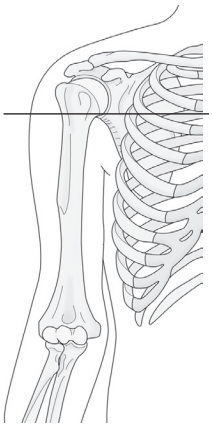

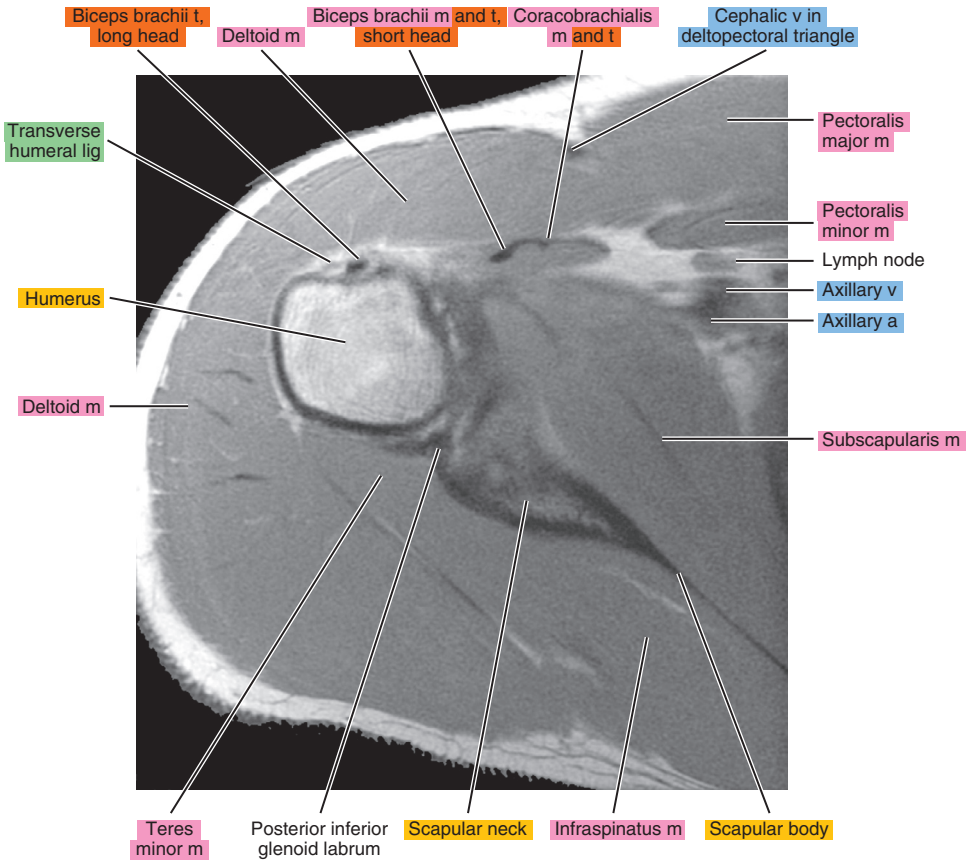

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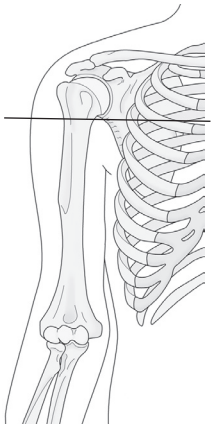

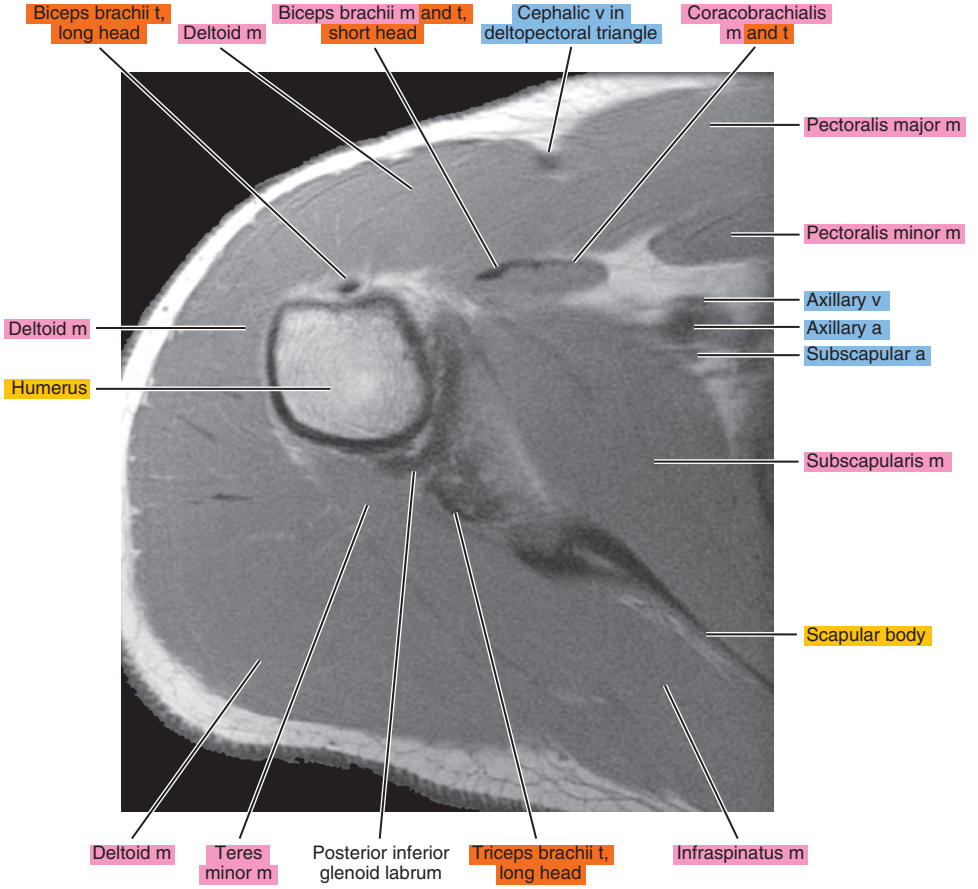

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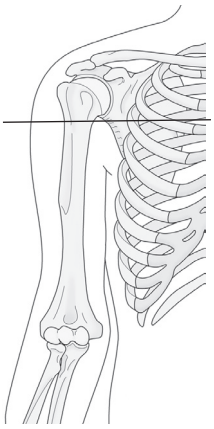

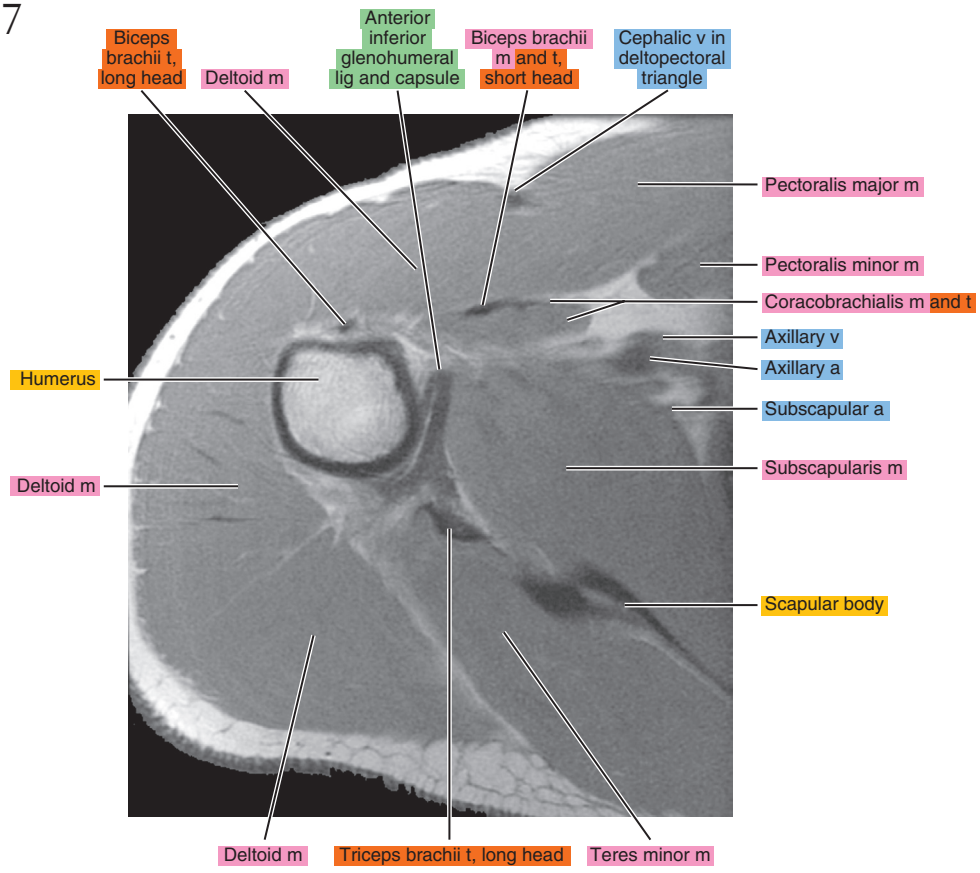

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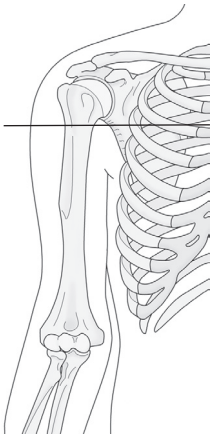

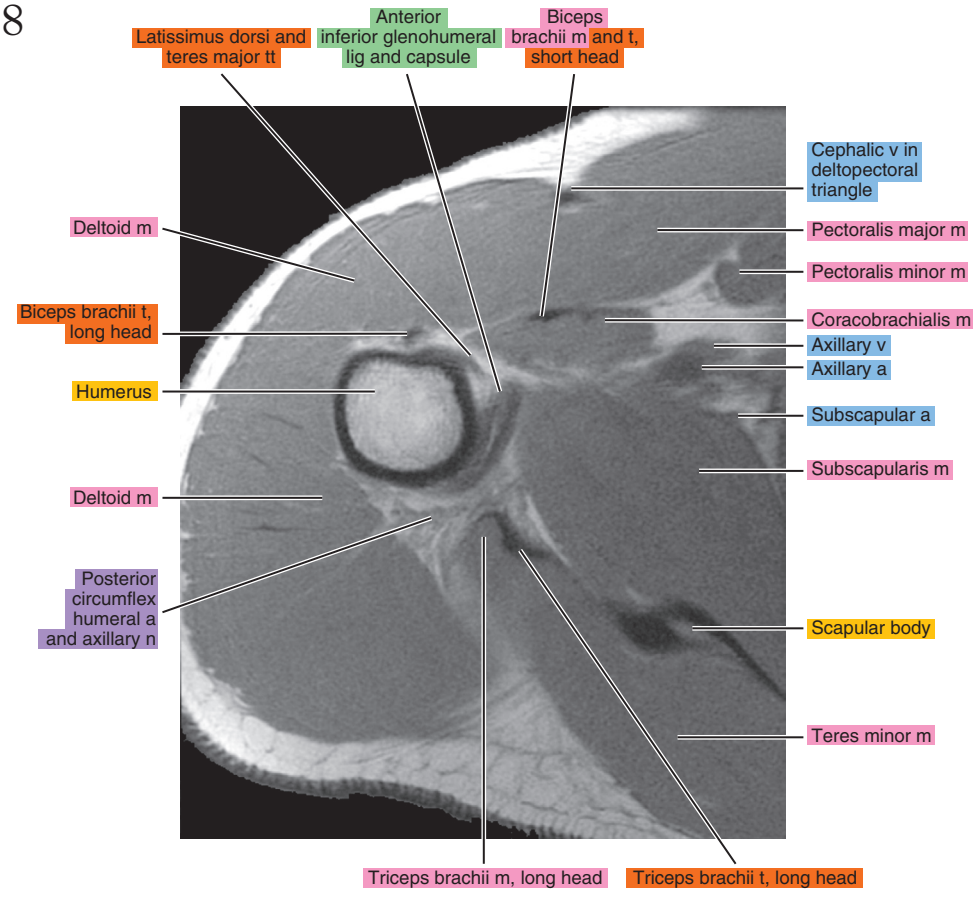

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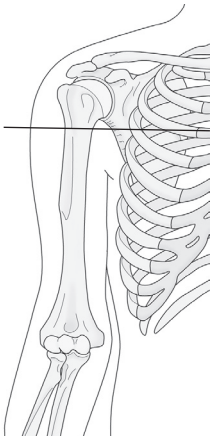

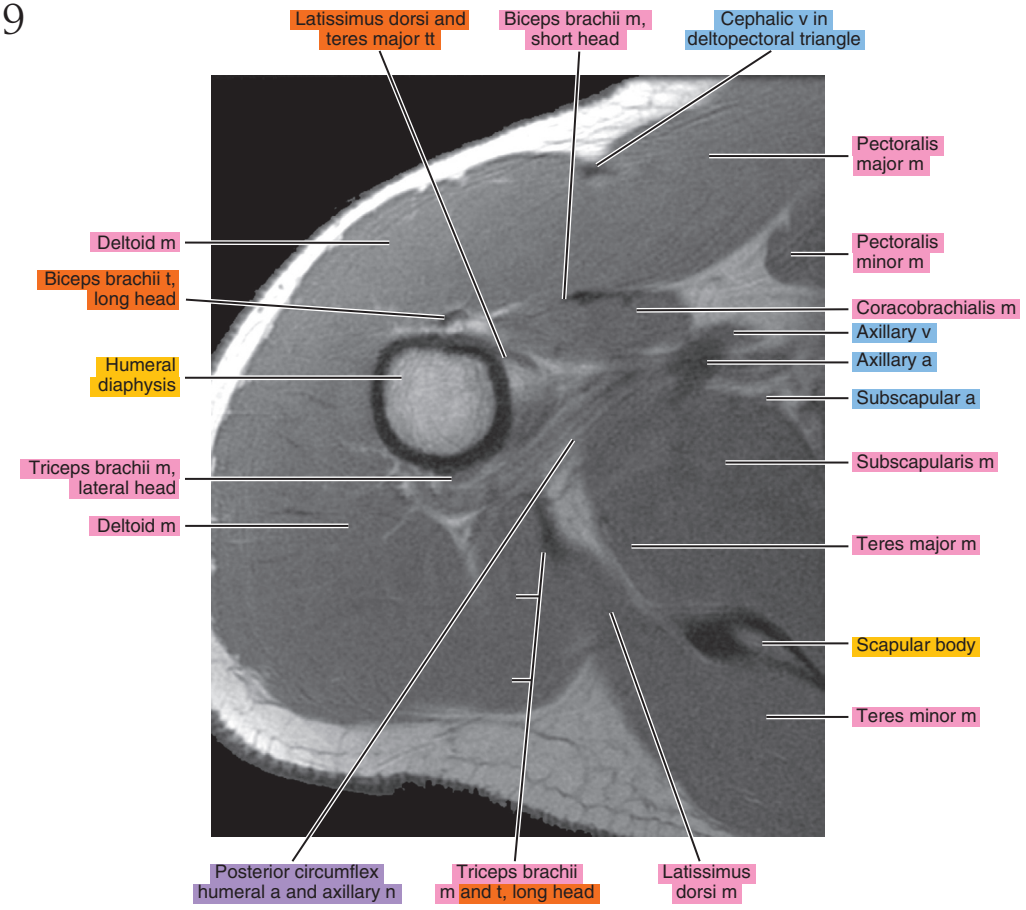

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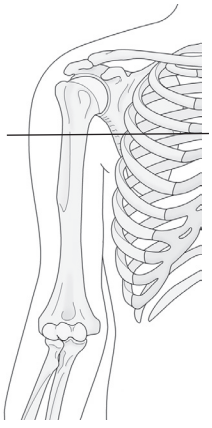

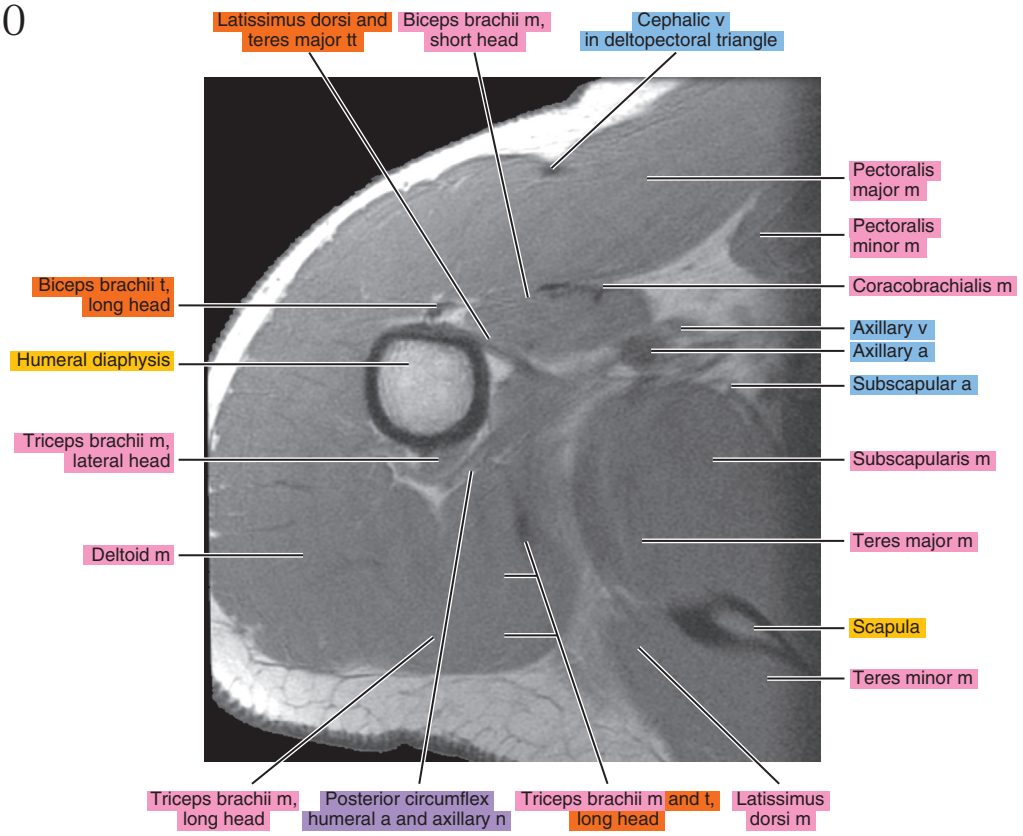

OBLIQUE SAGITTAL

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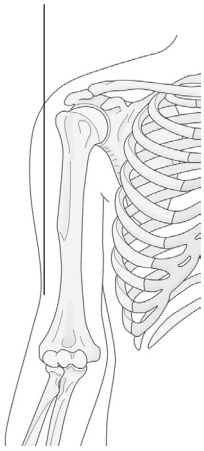

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veins = vv
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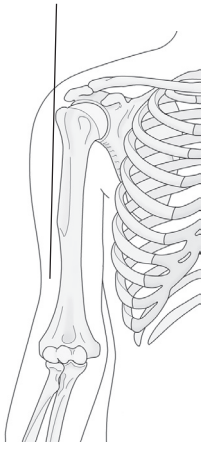
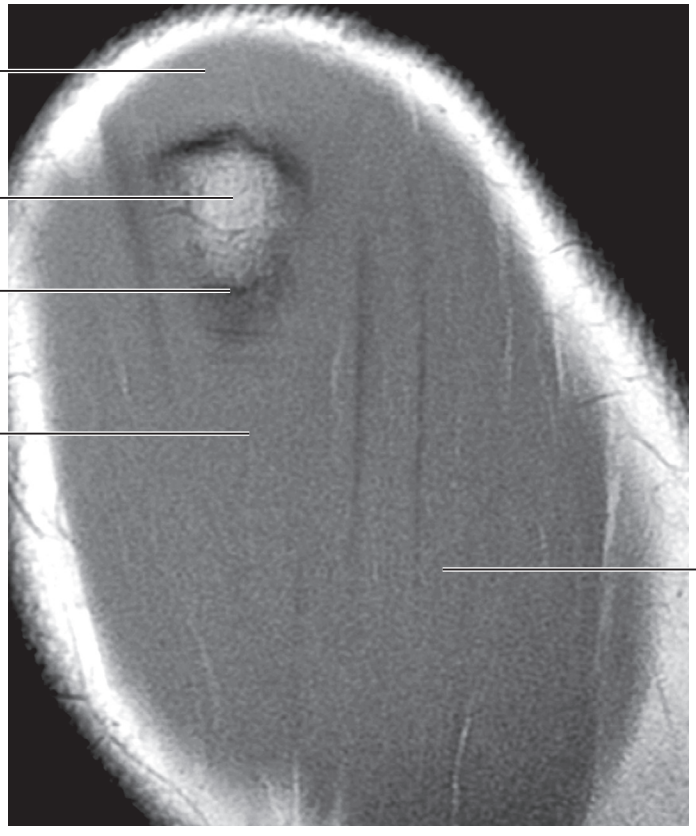
ligaments = ligs
nerve & vessels
bone

Figure 2.2.2





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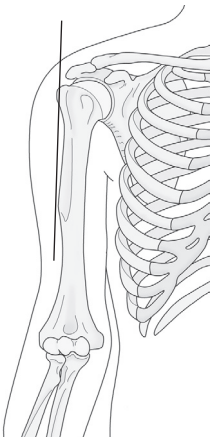

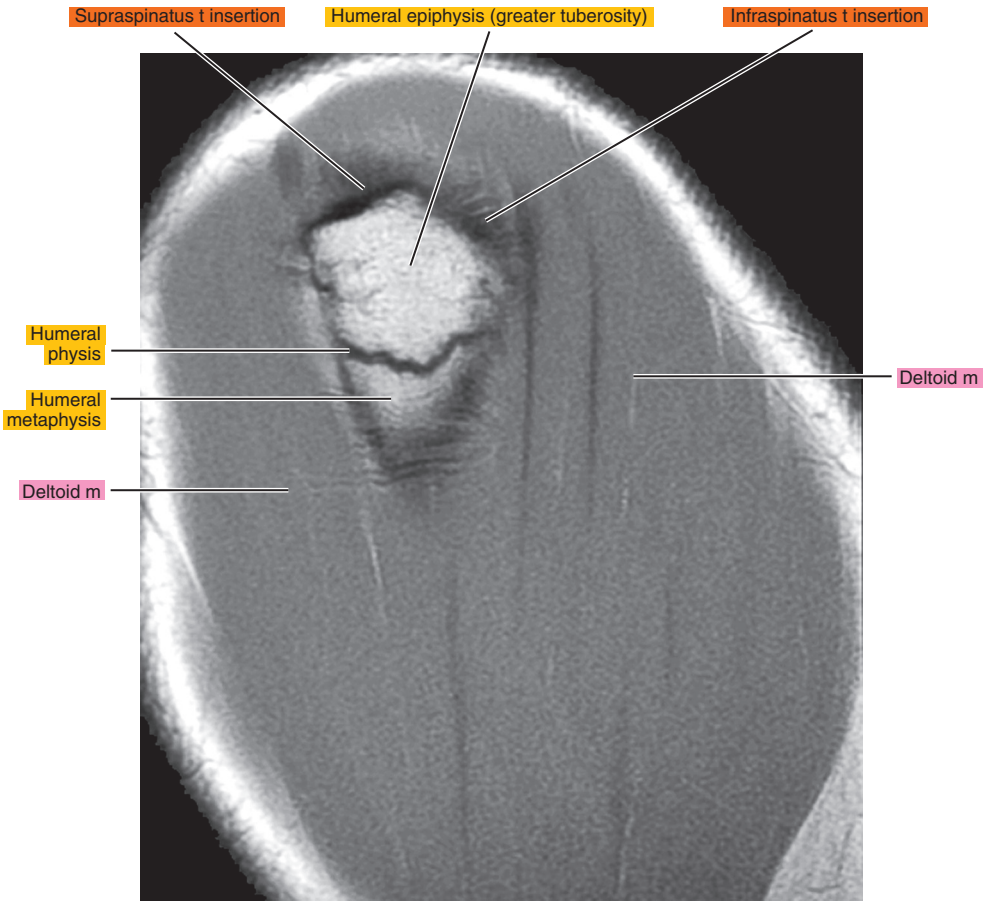

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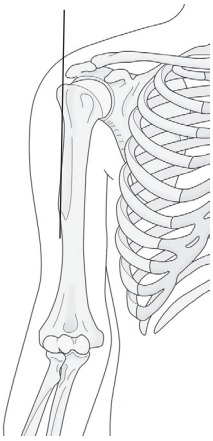

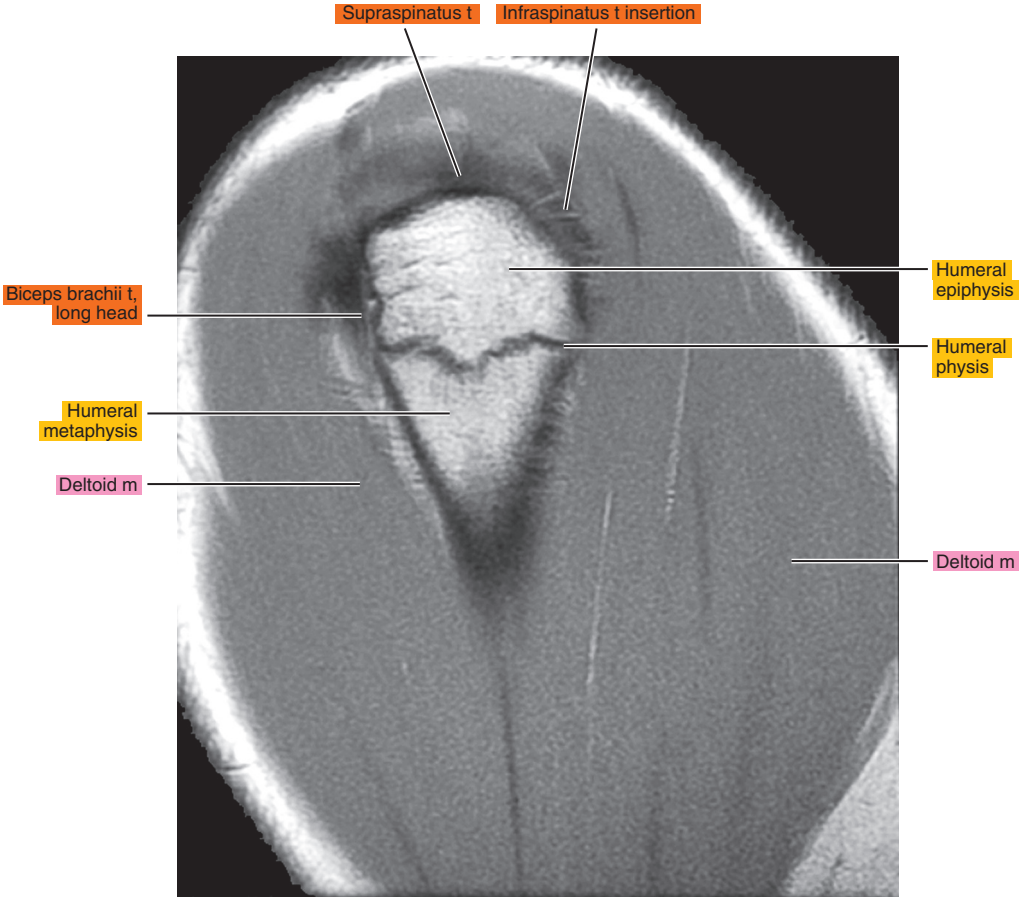

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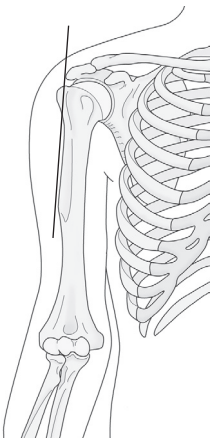

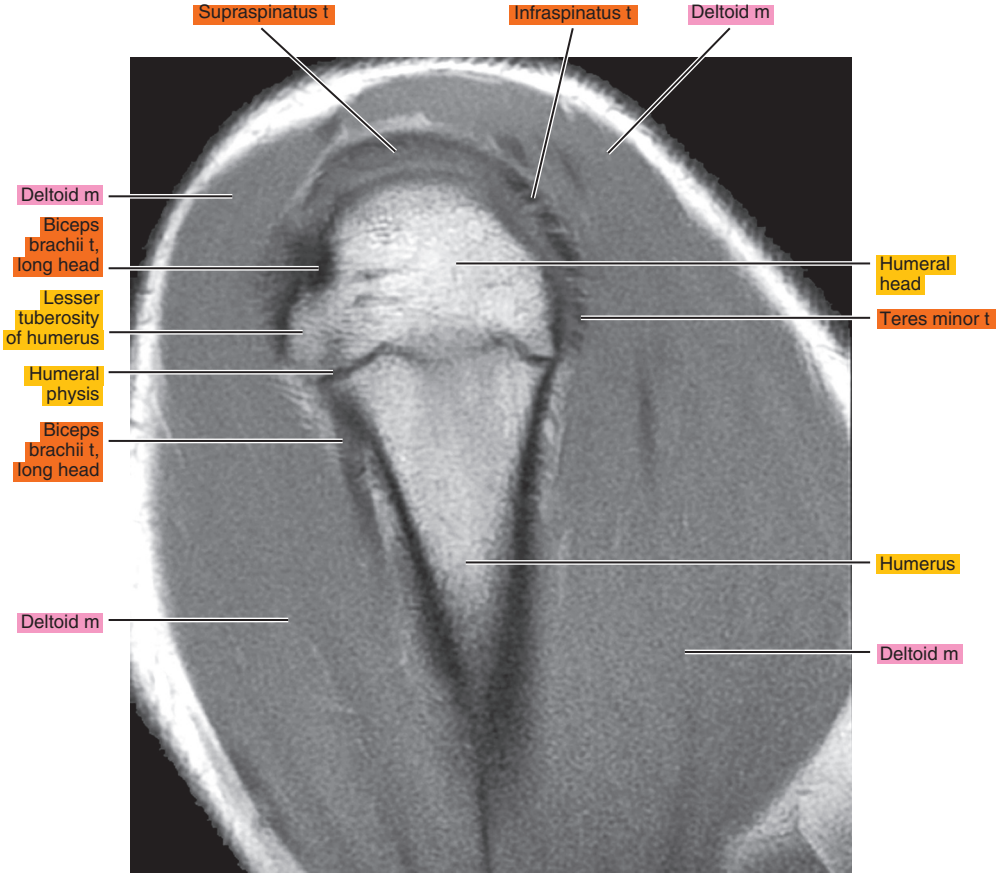

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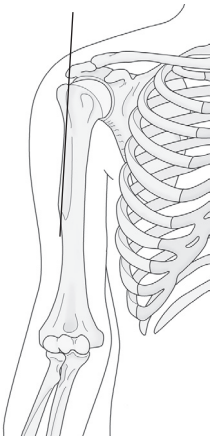

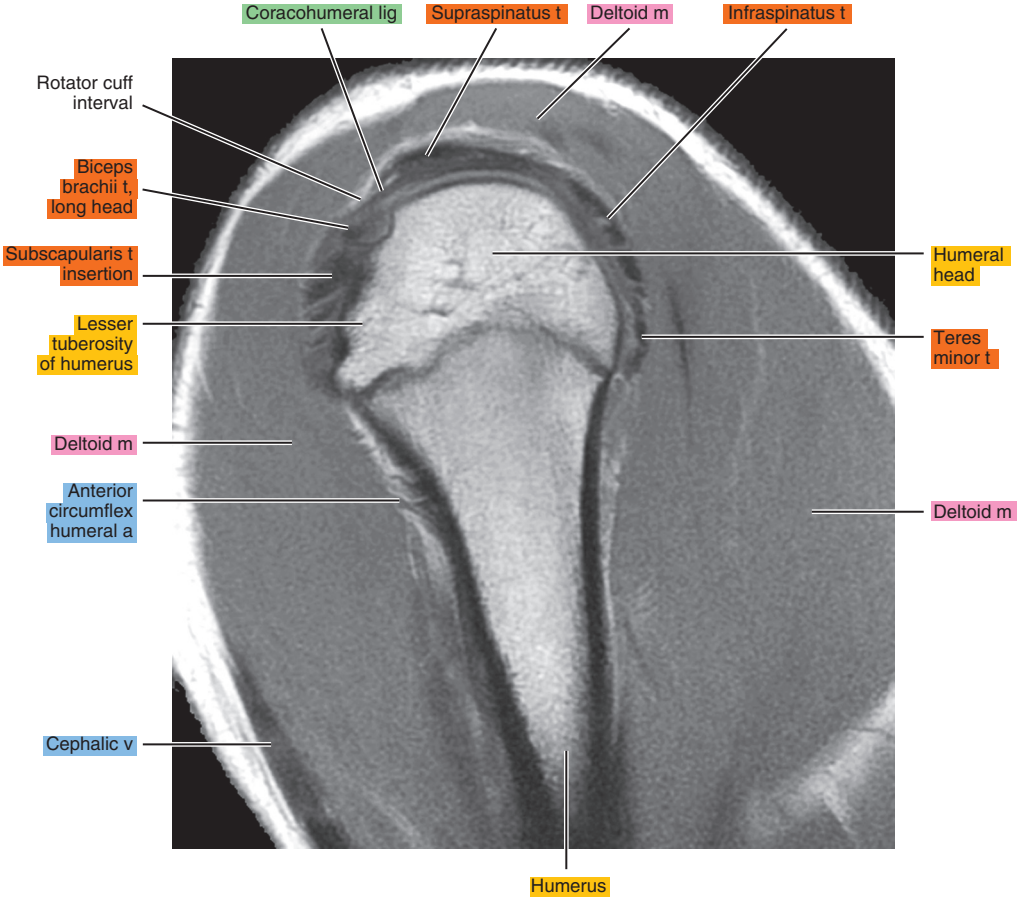

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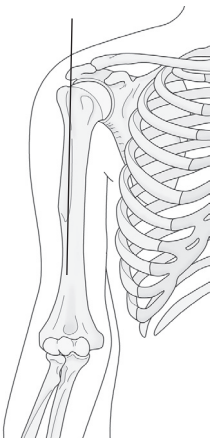

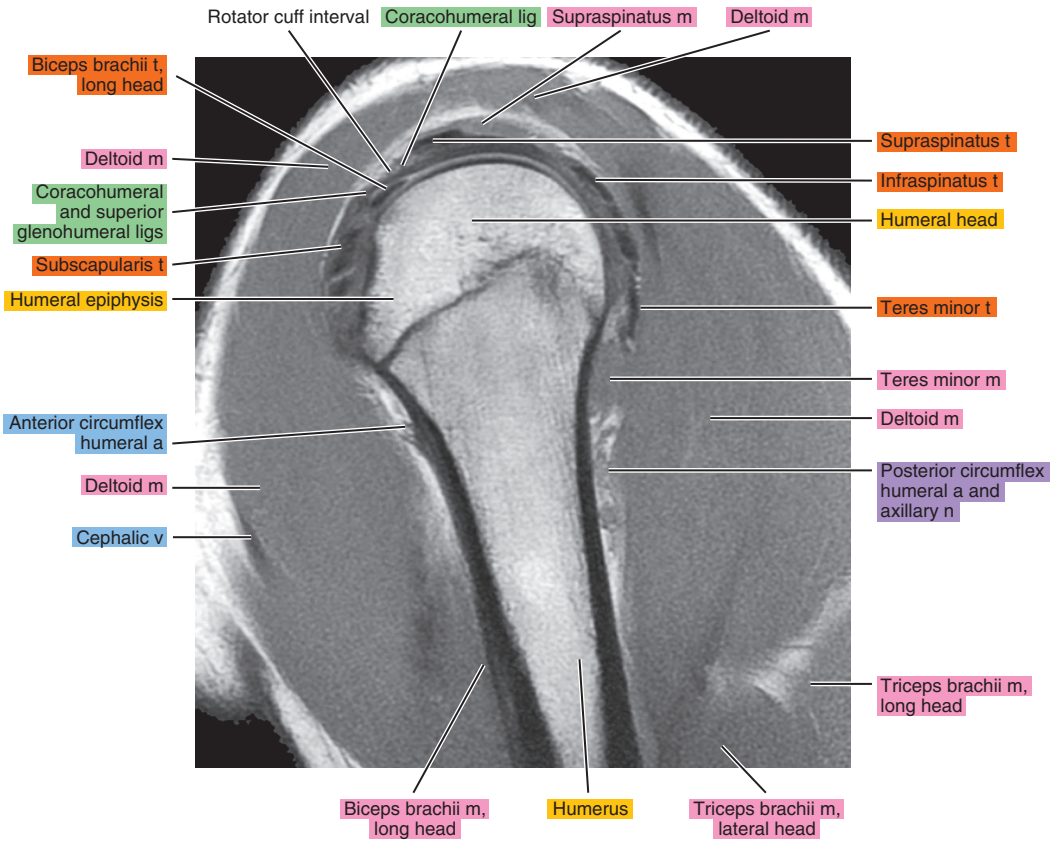

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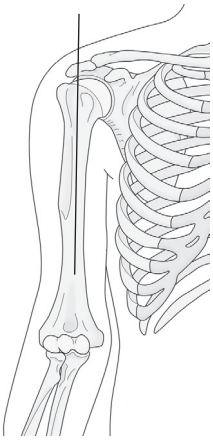

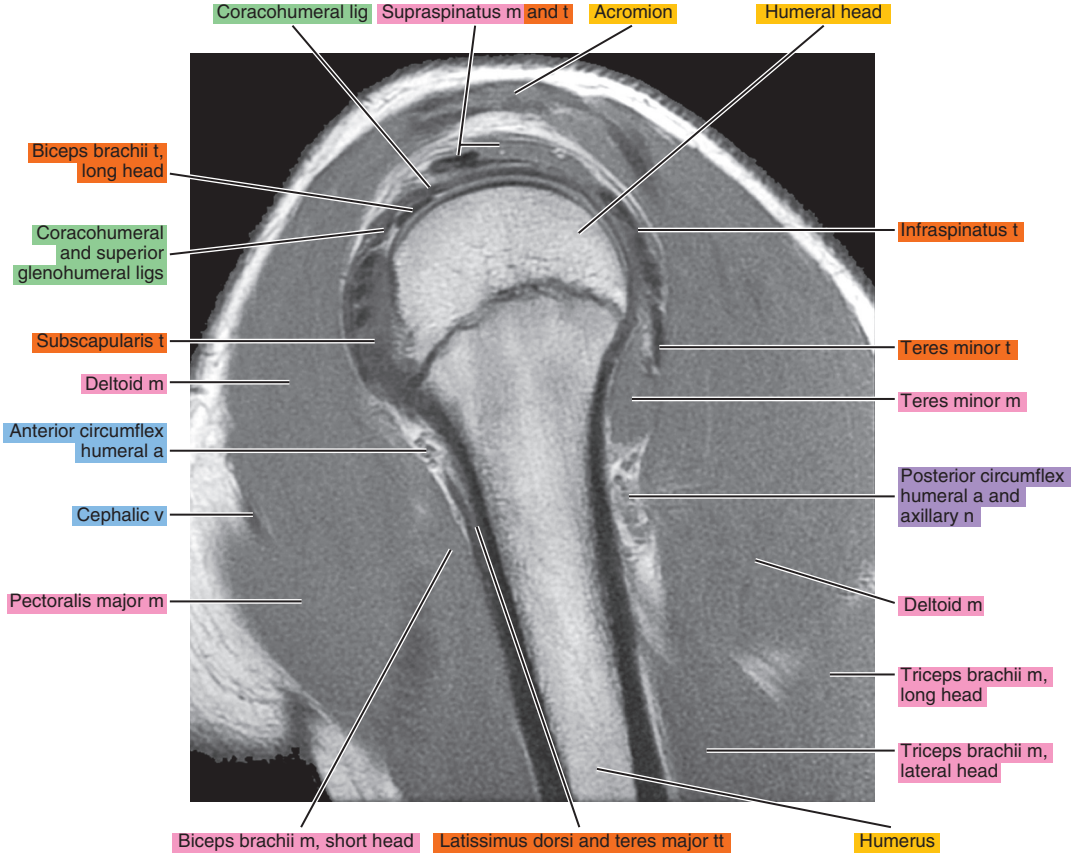

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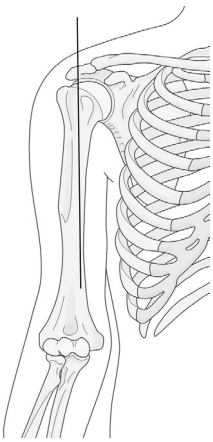

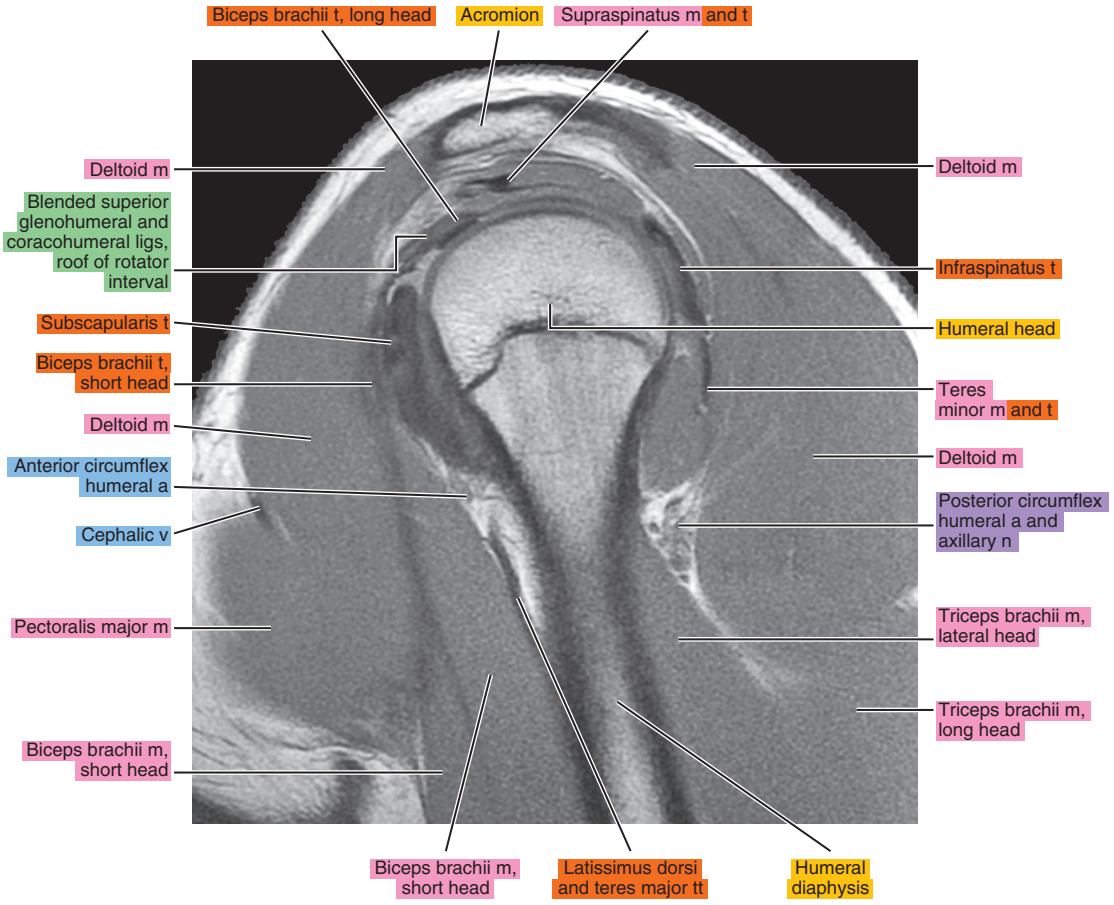

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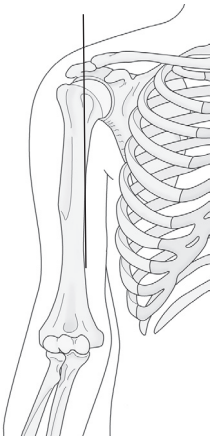

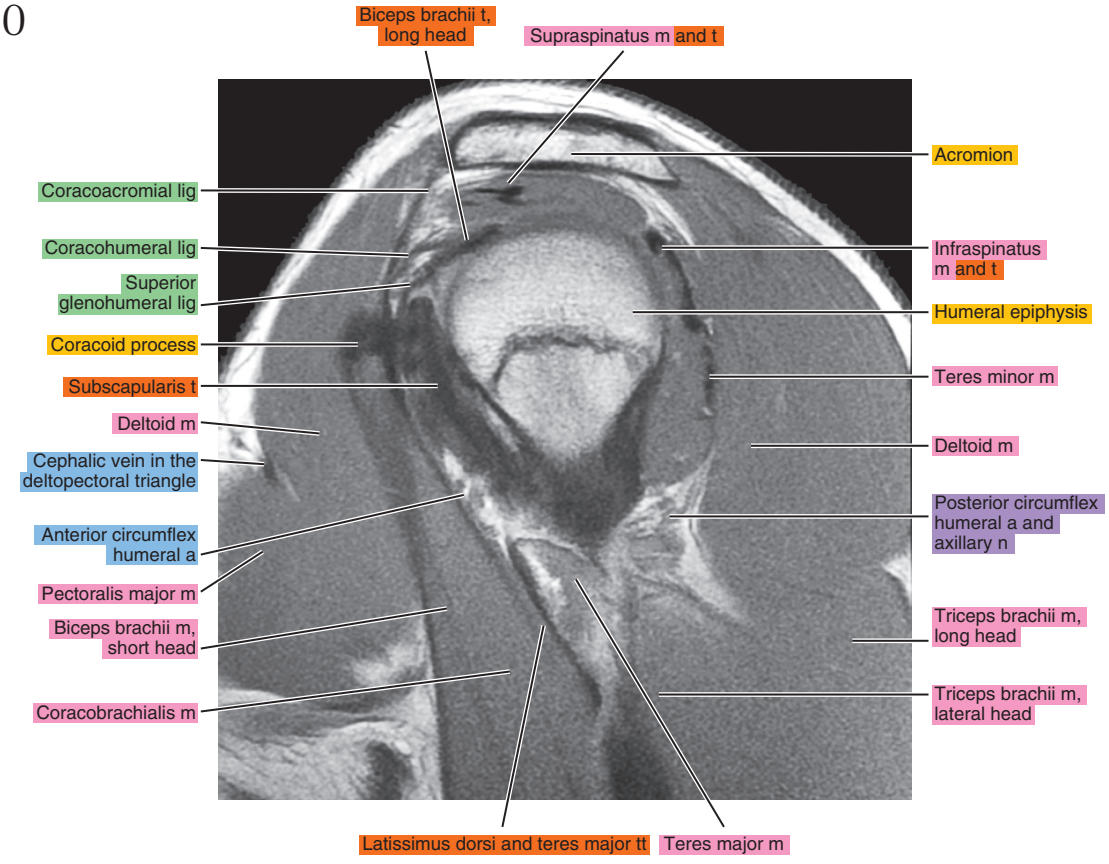

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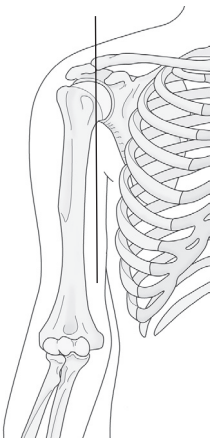

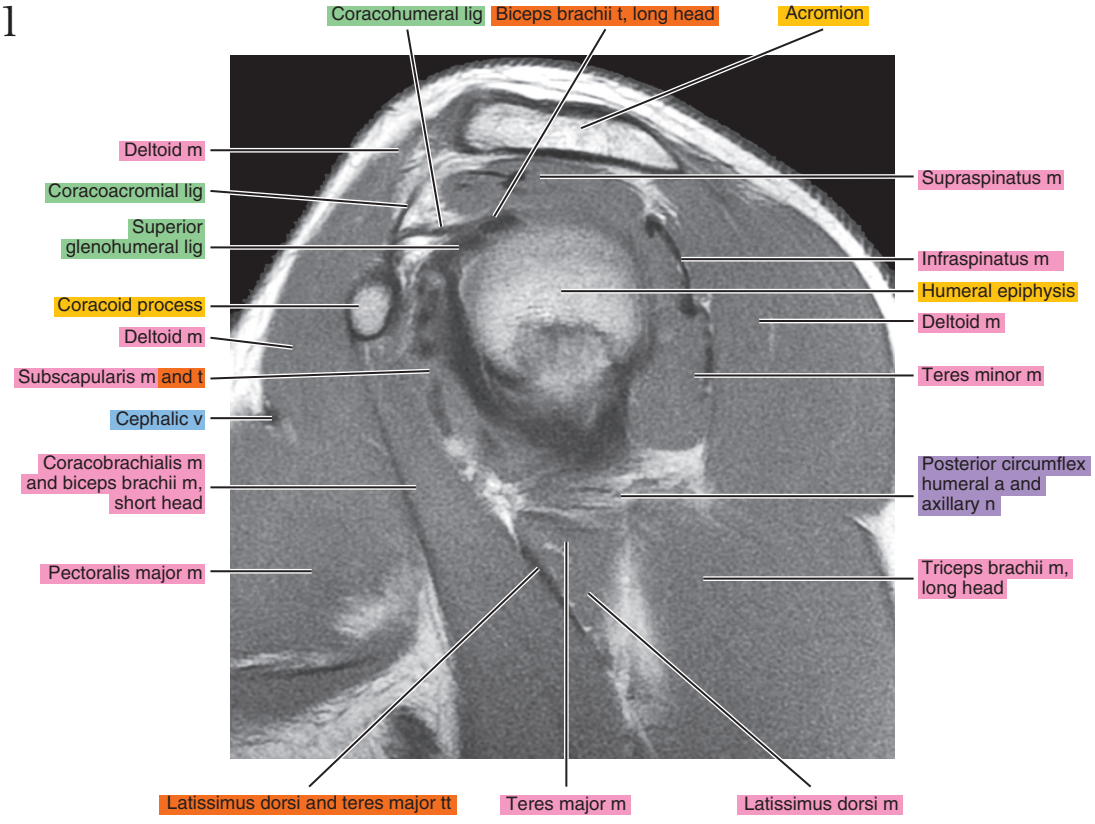

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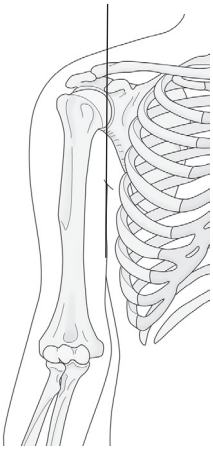

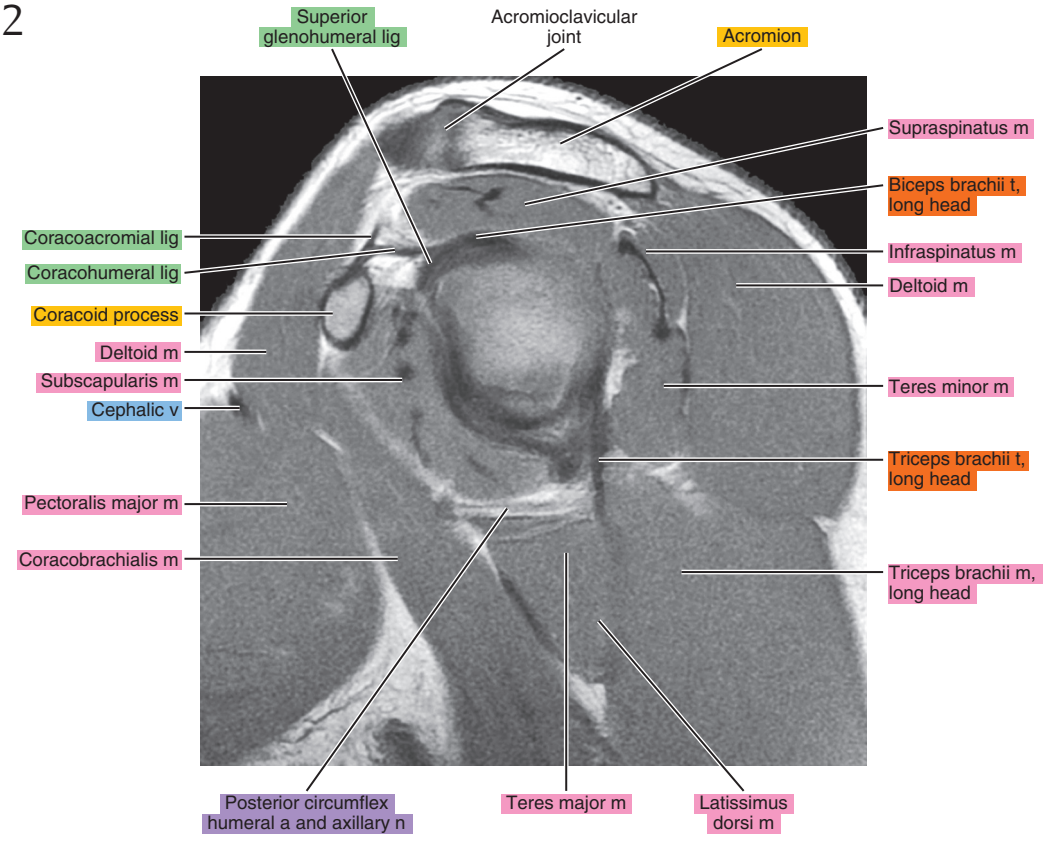

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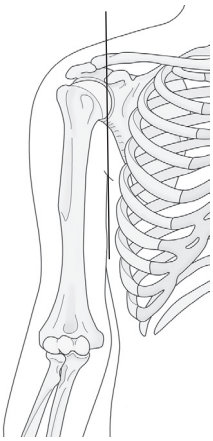

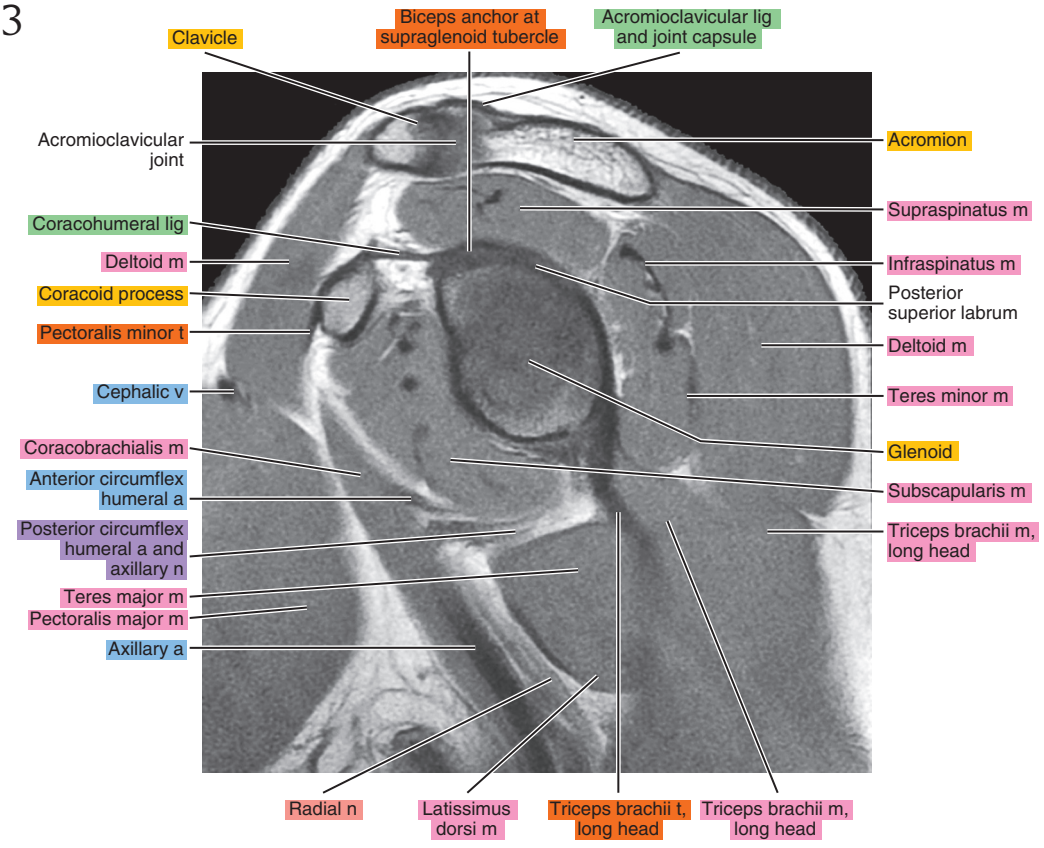

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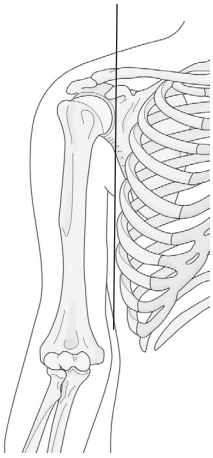

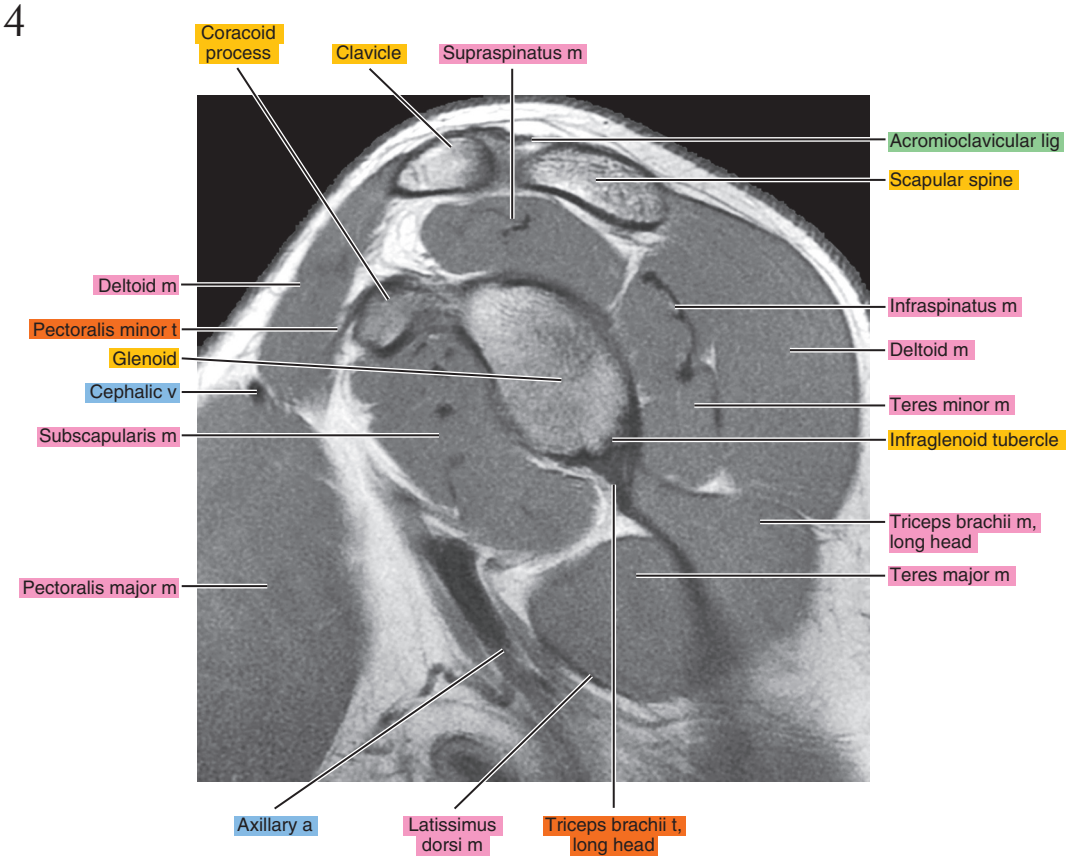

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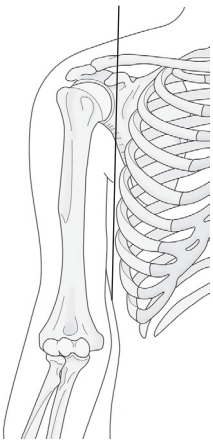

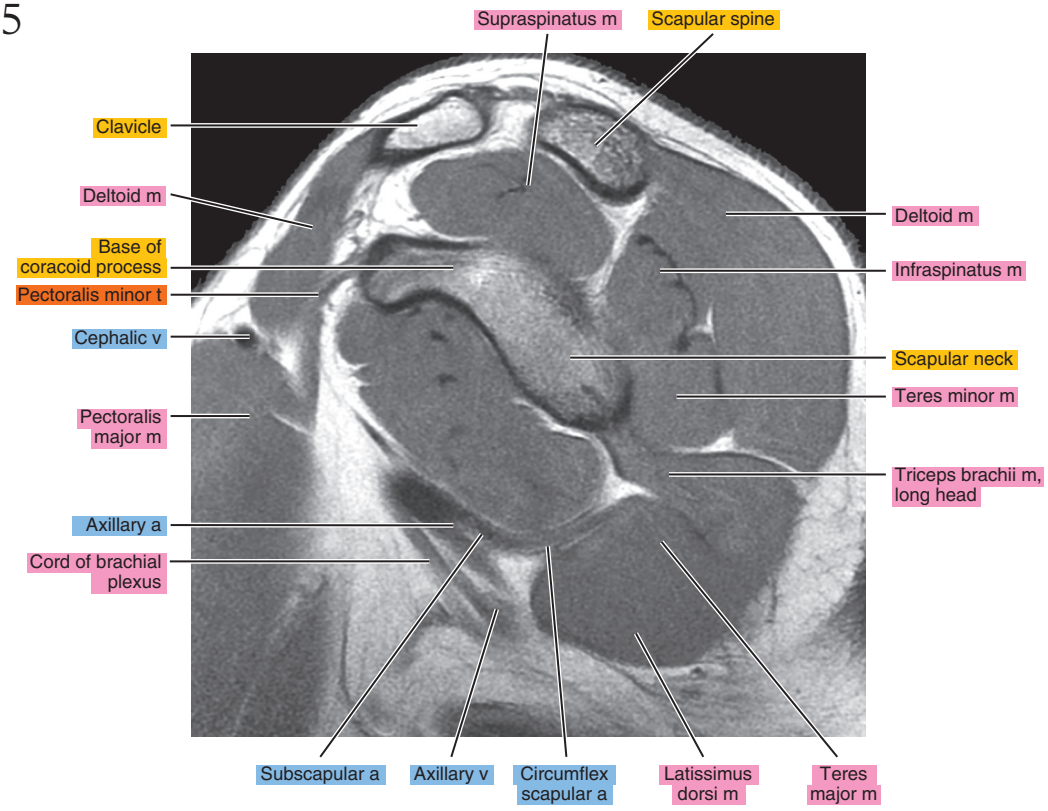

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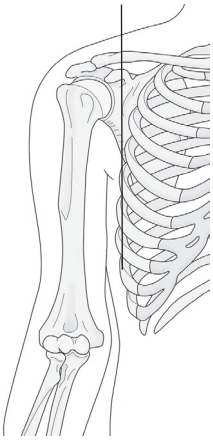

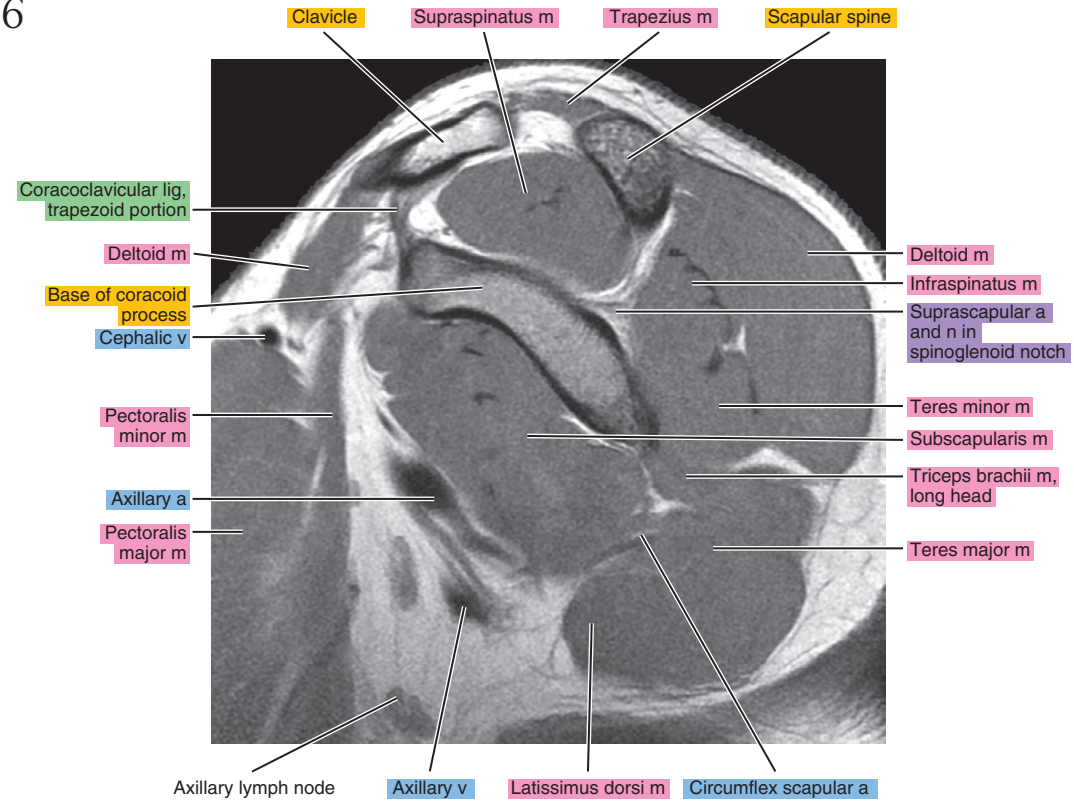

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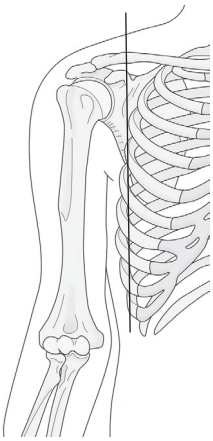

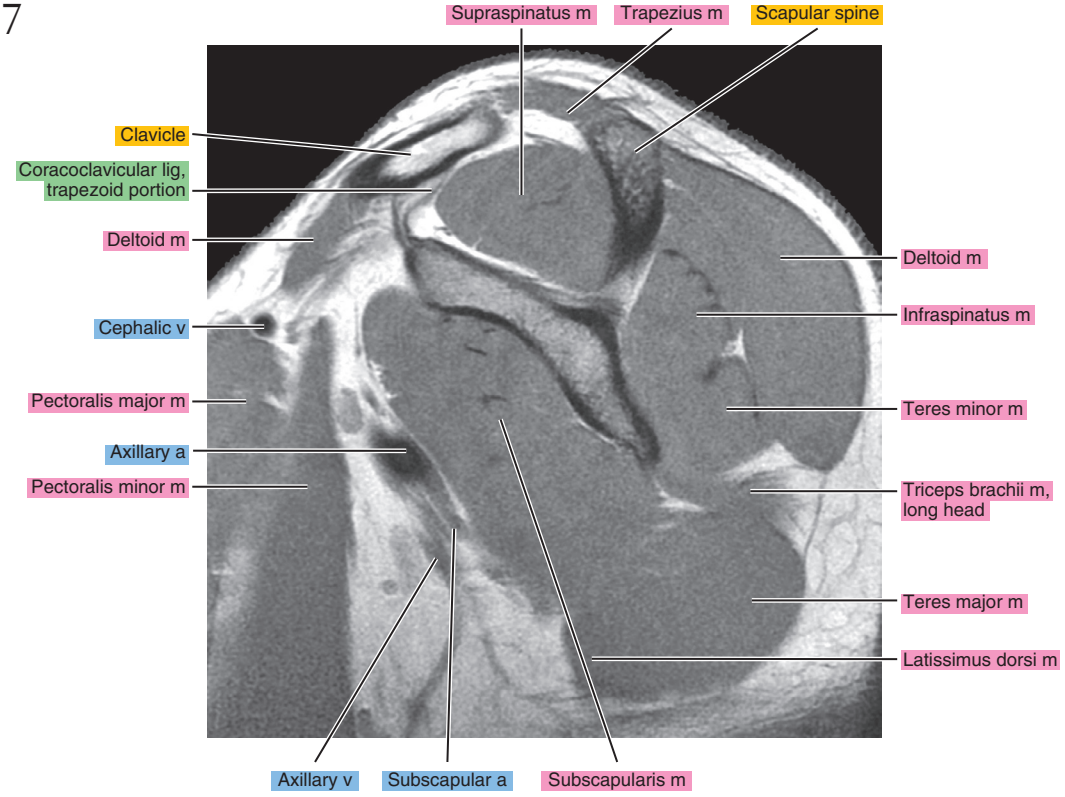

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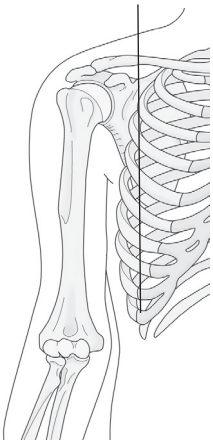

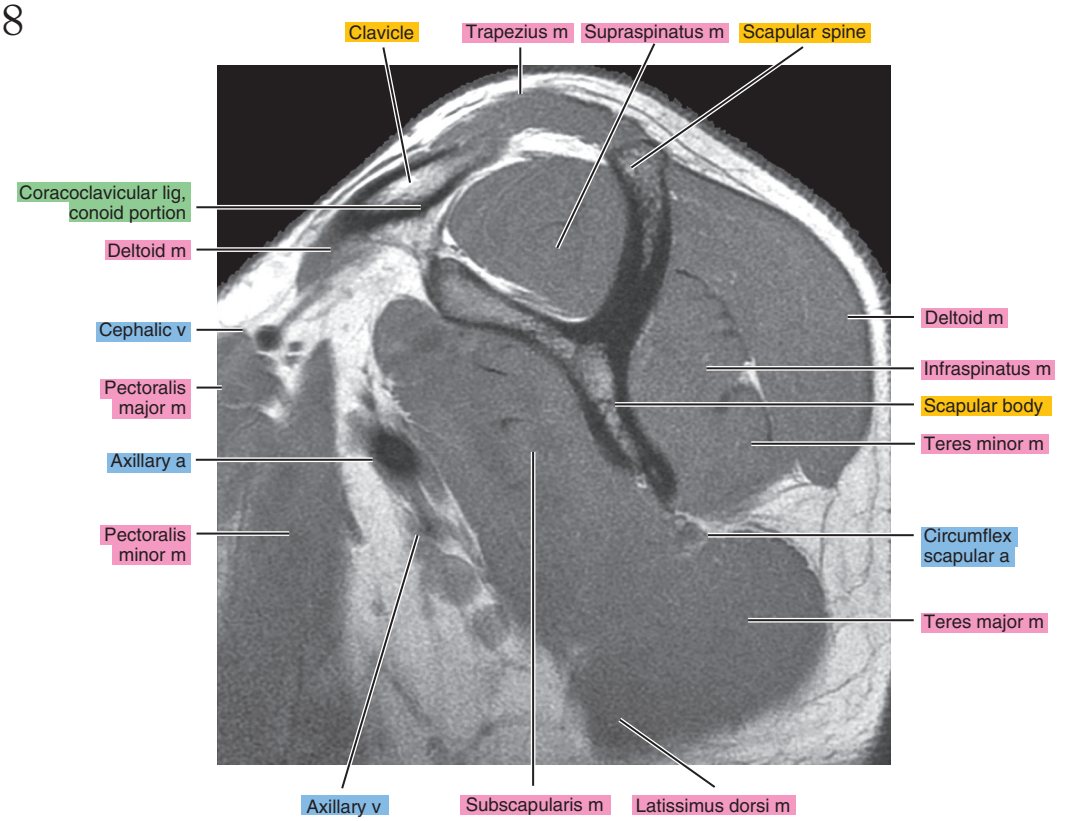

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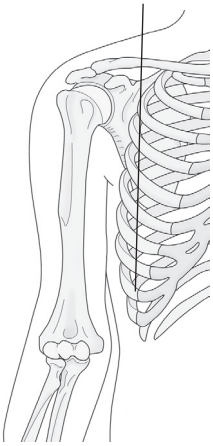

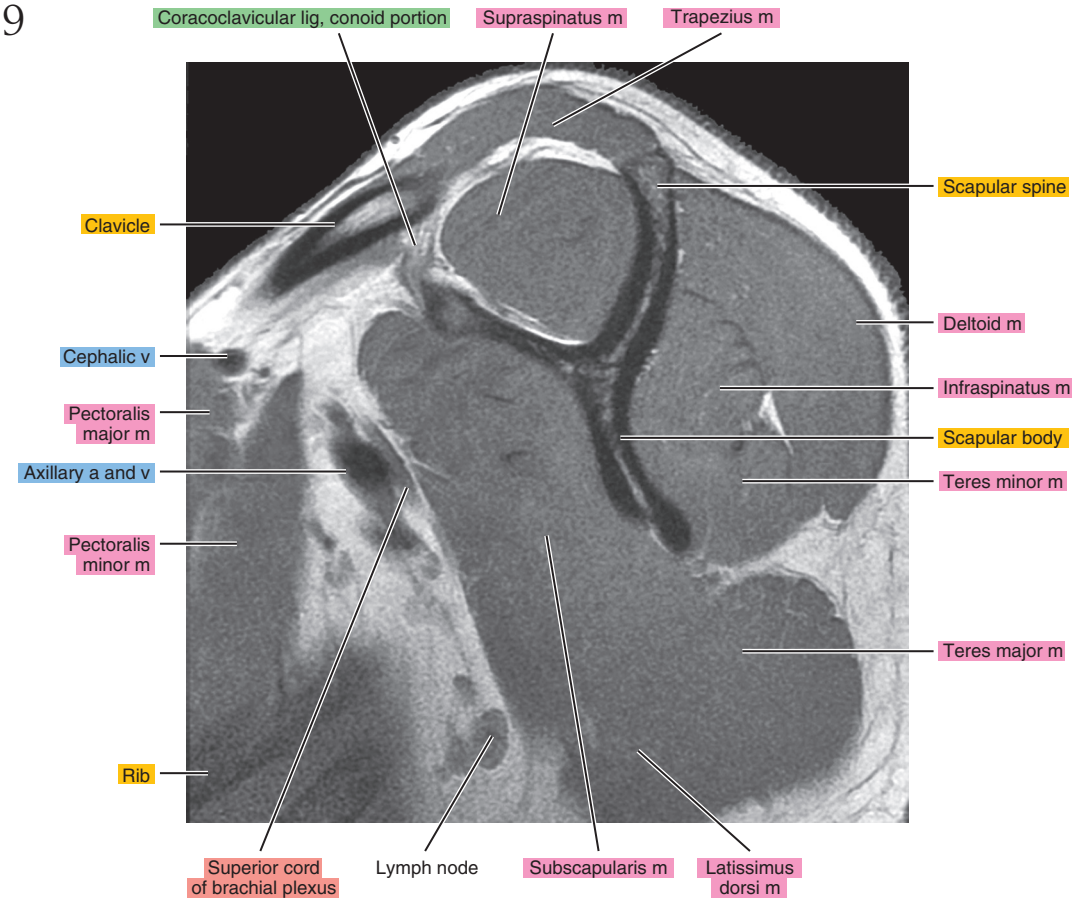

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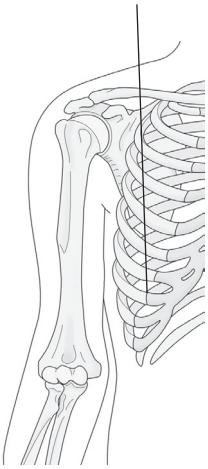
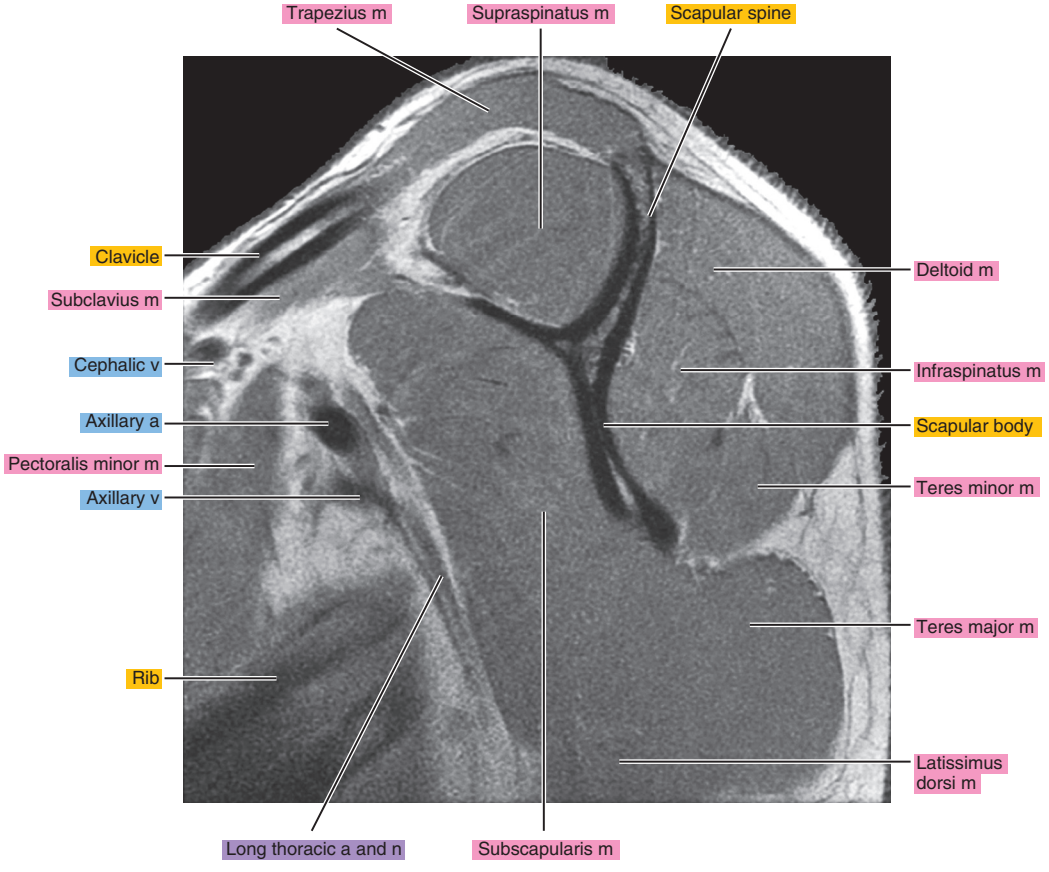
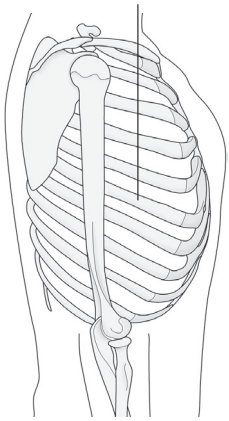




OBLIQUE CORONAL

Figure 2.3.1



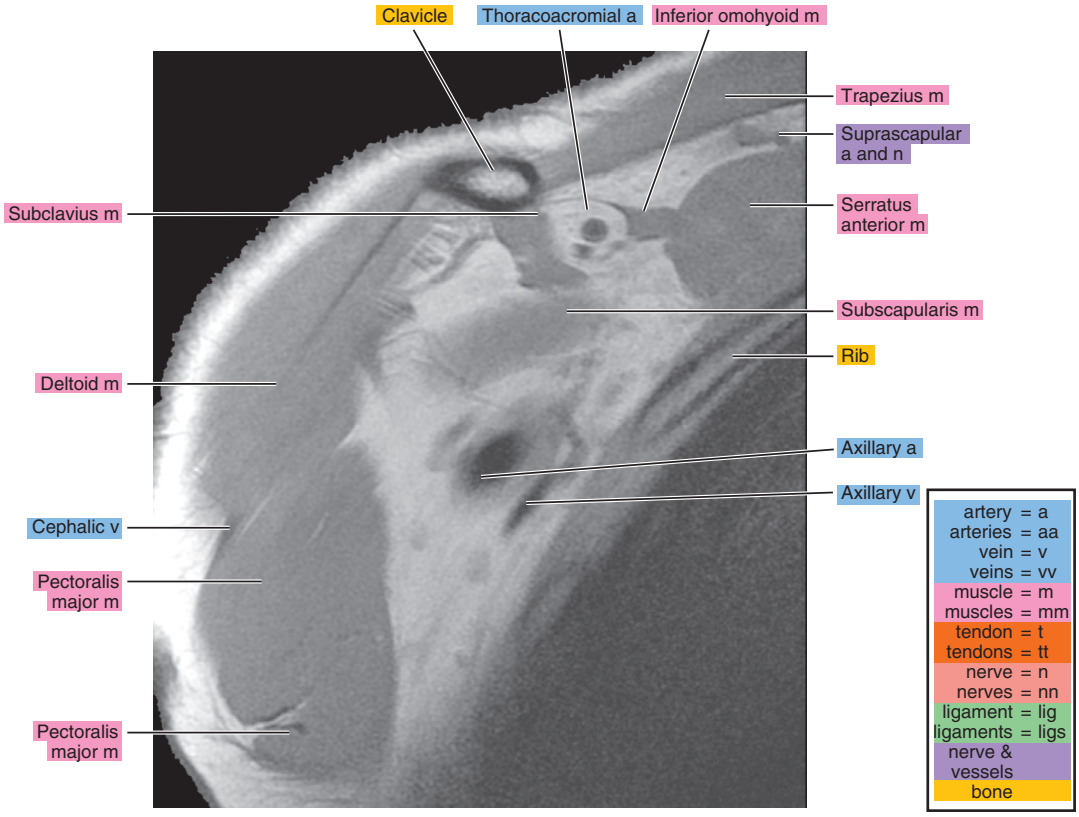
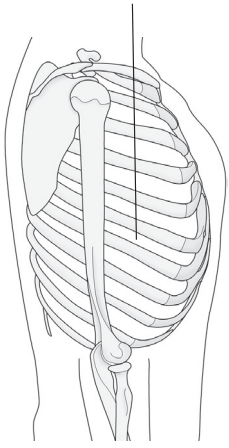
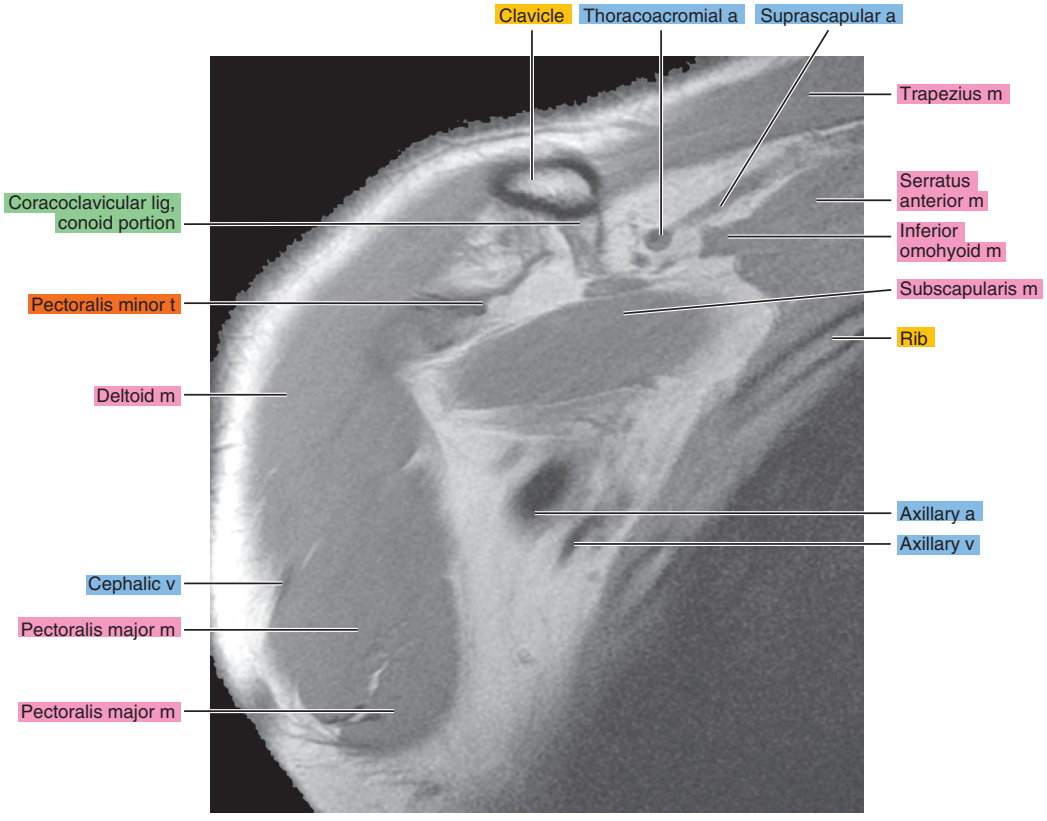


Figure 2.3.2





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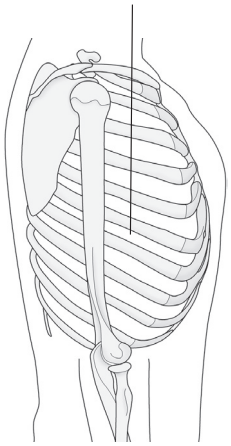

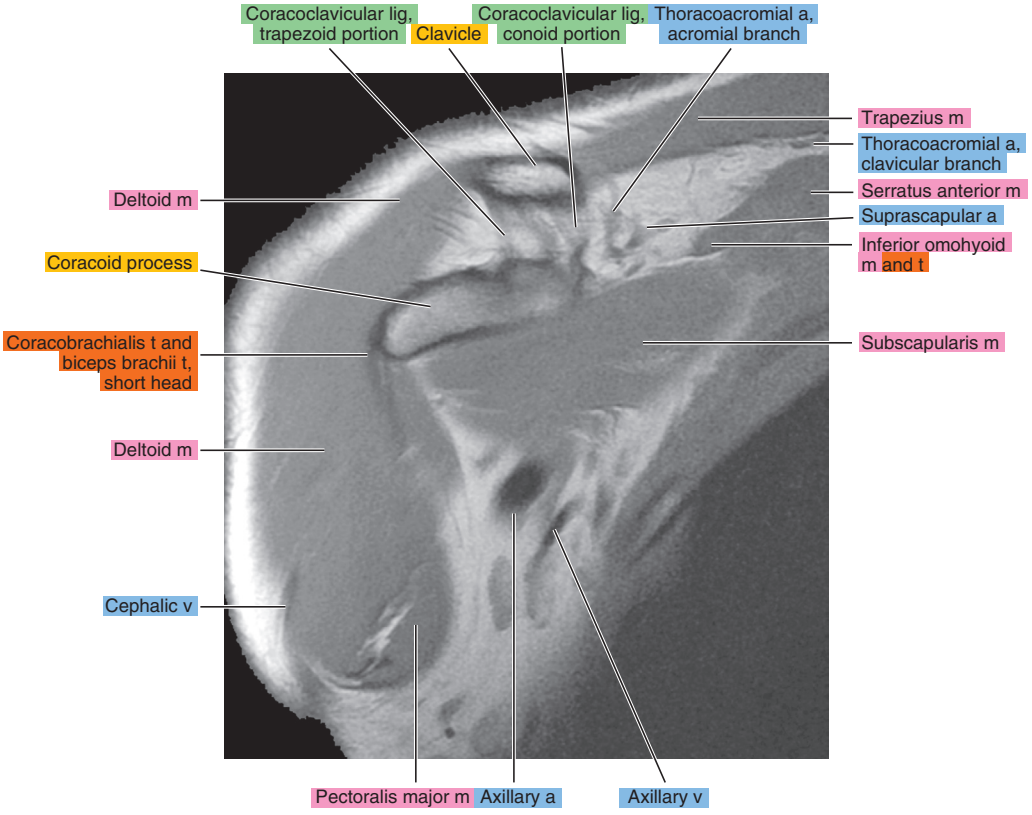

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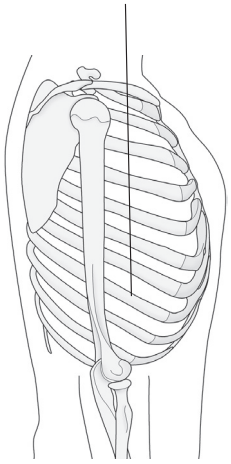

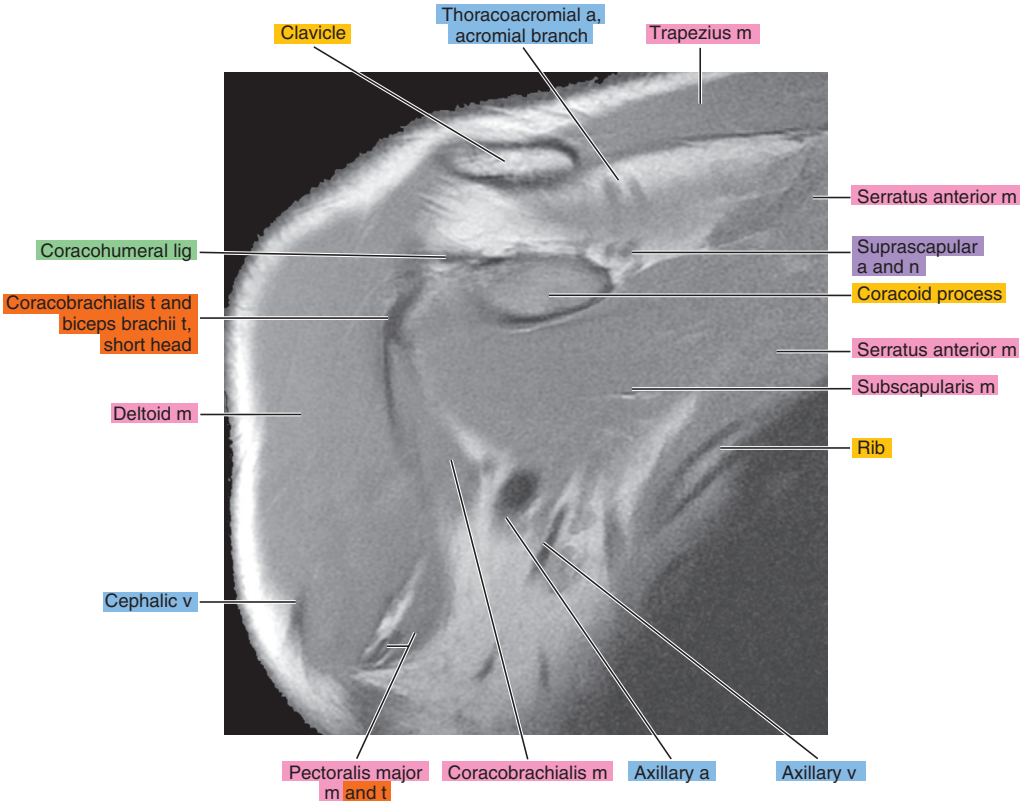

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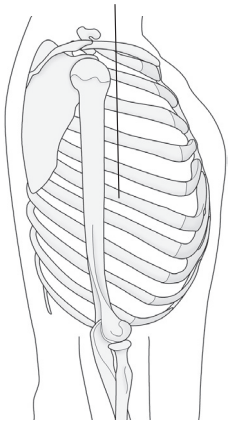

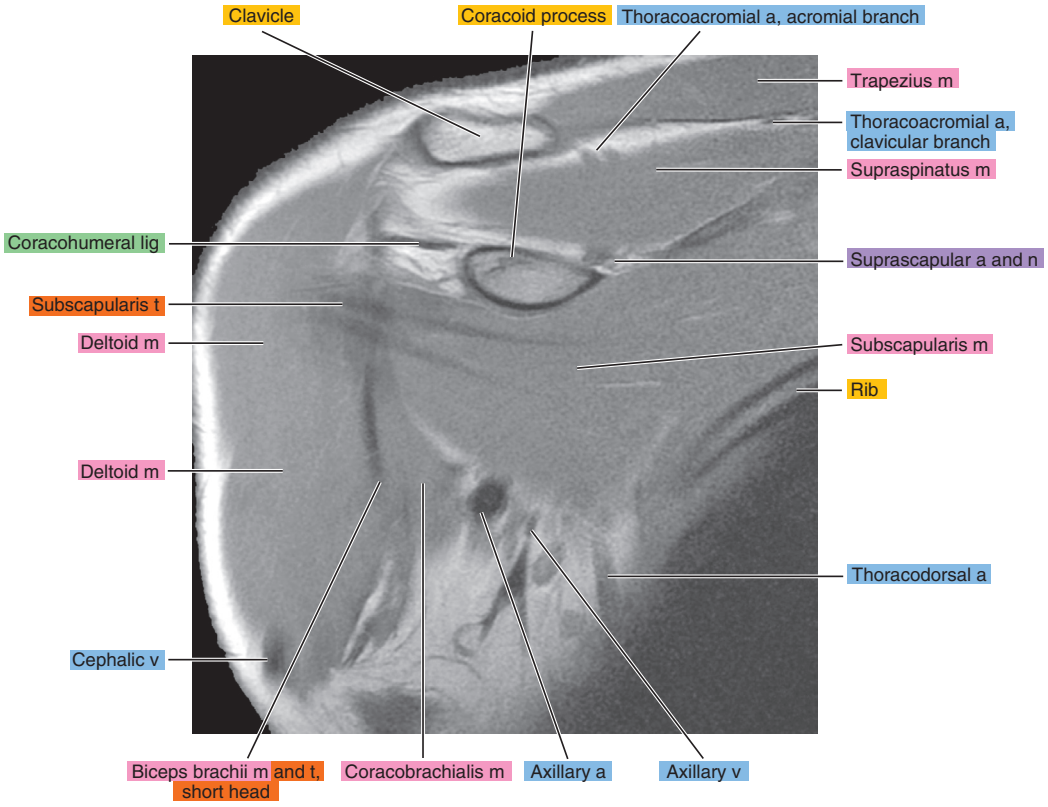

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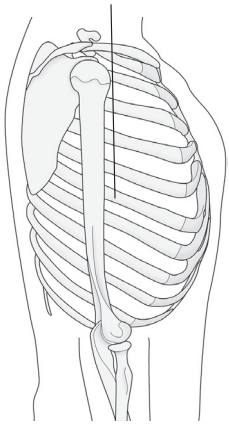

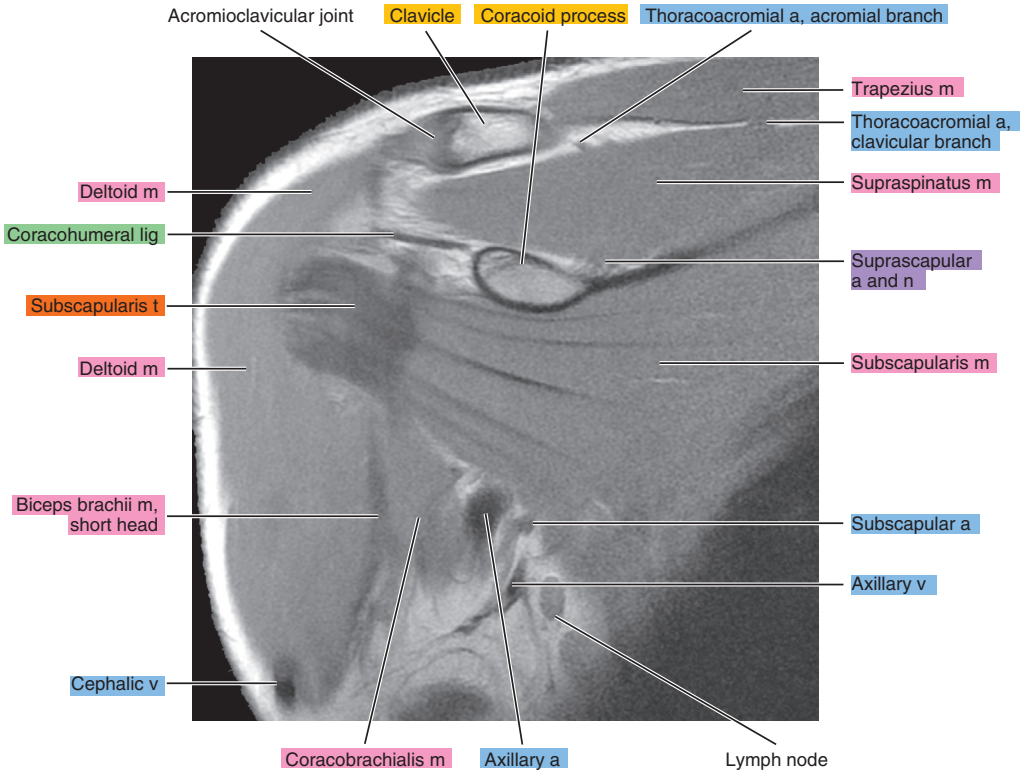

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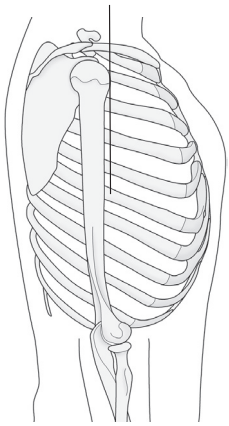

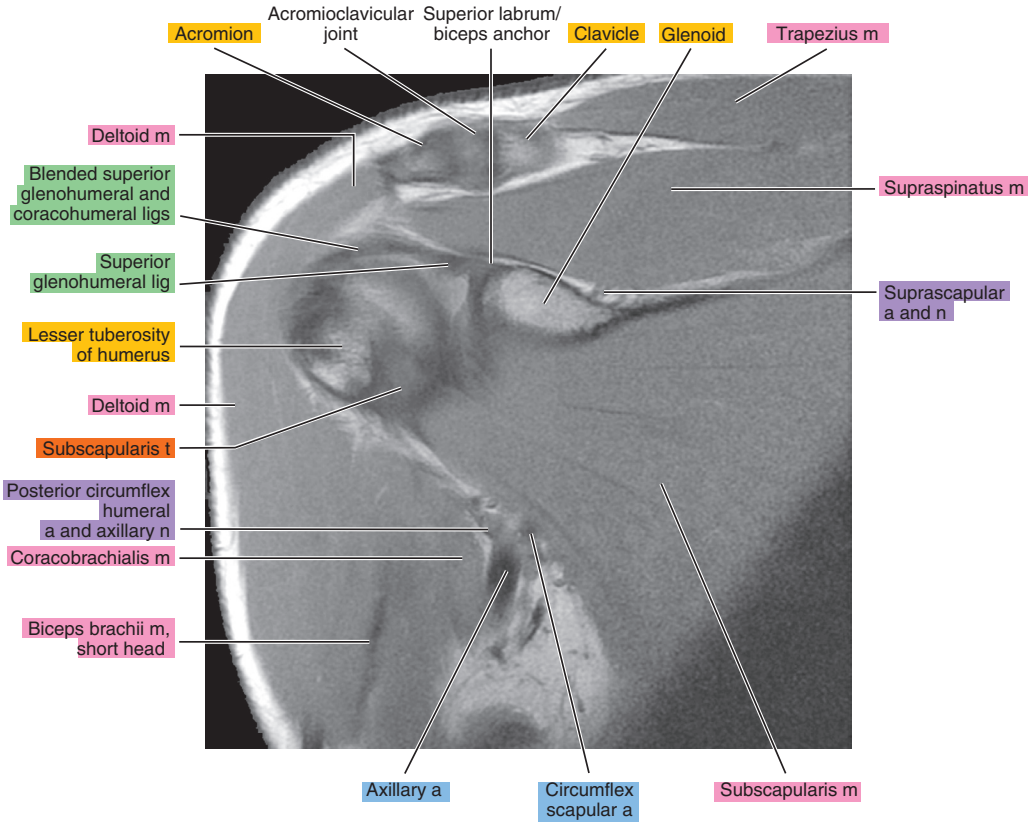

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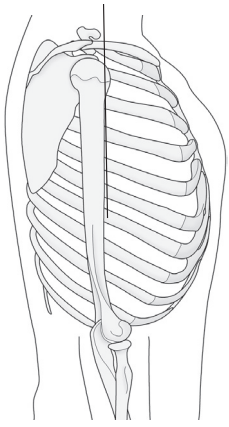

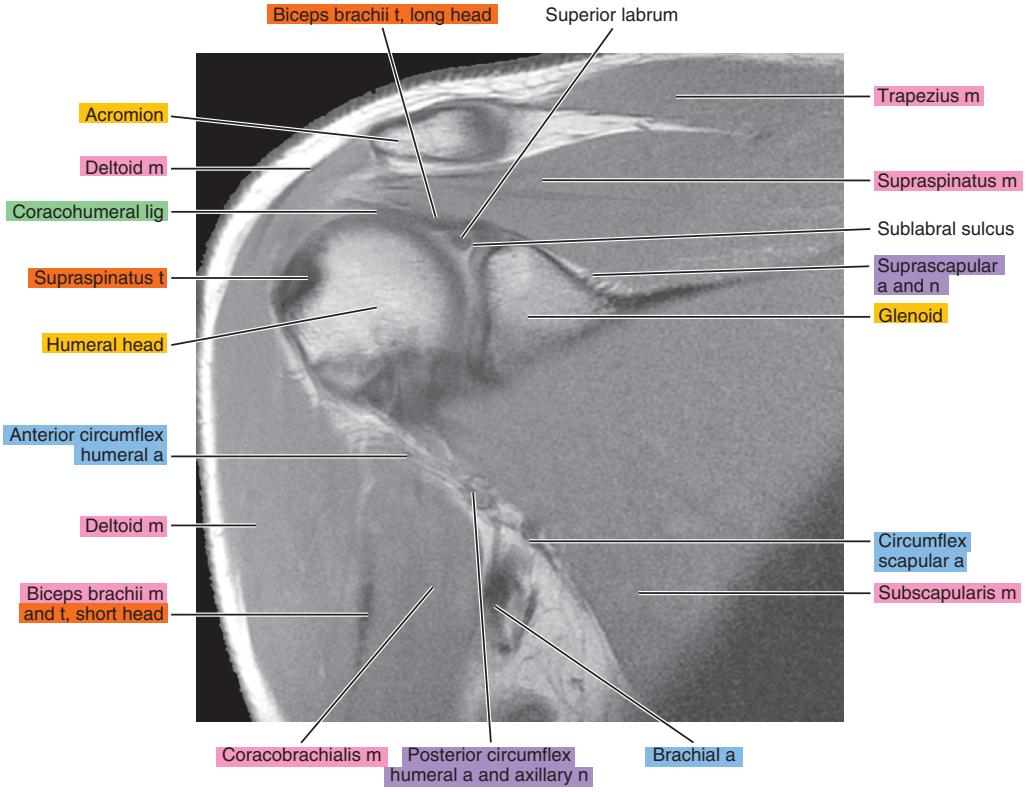

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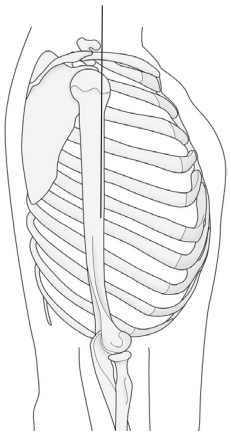

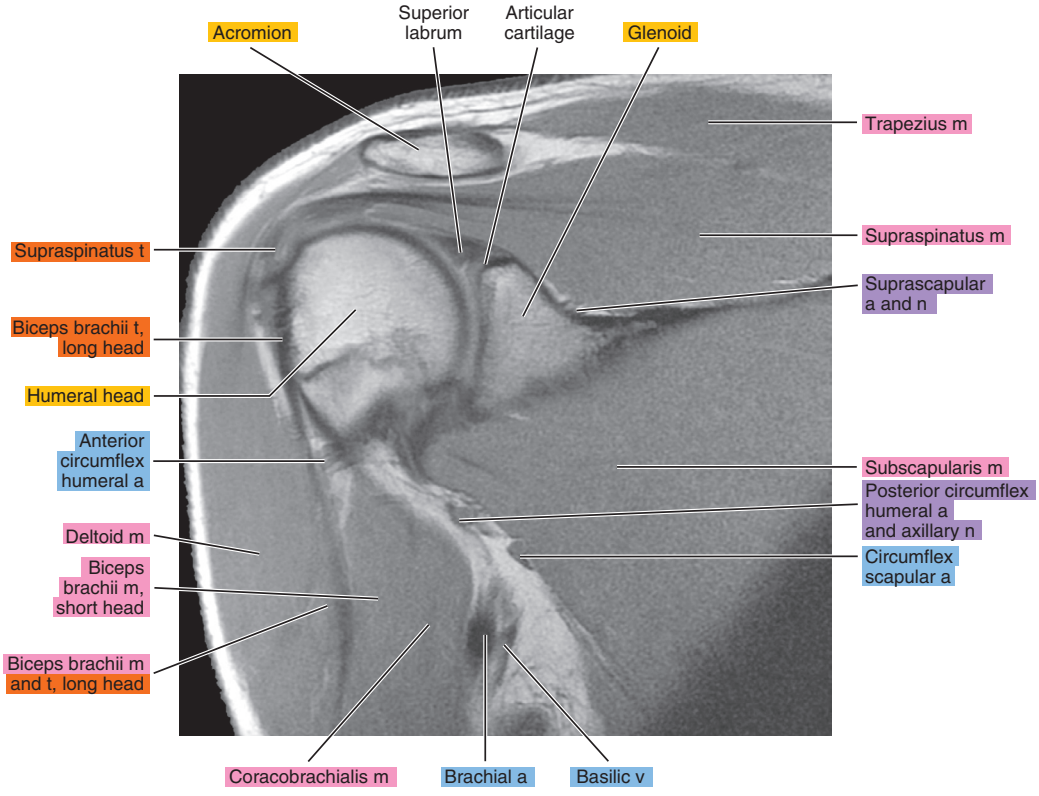

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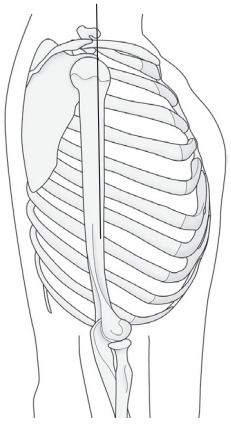

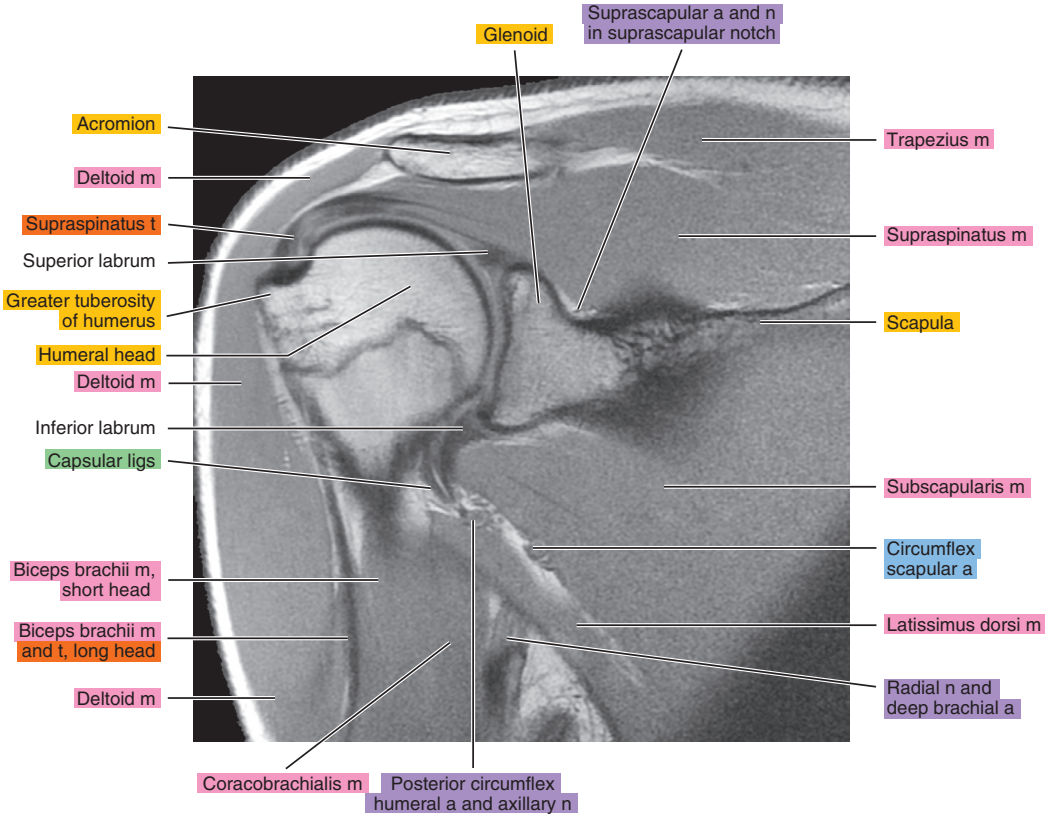

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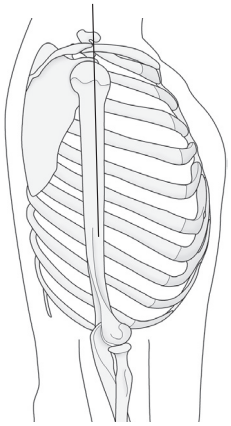

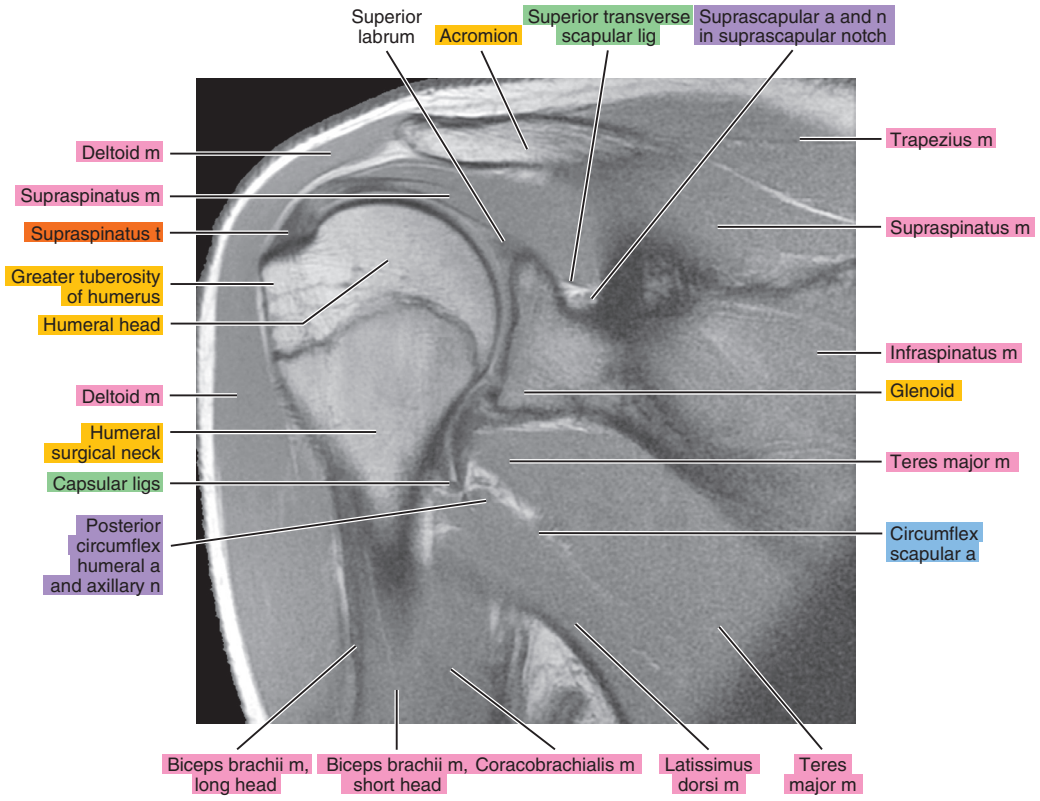

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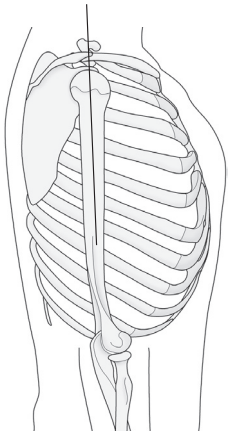

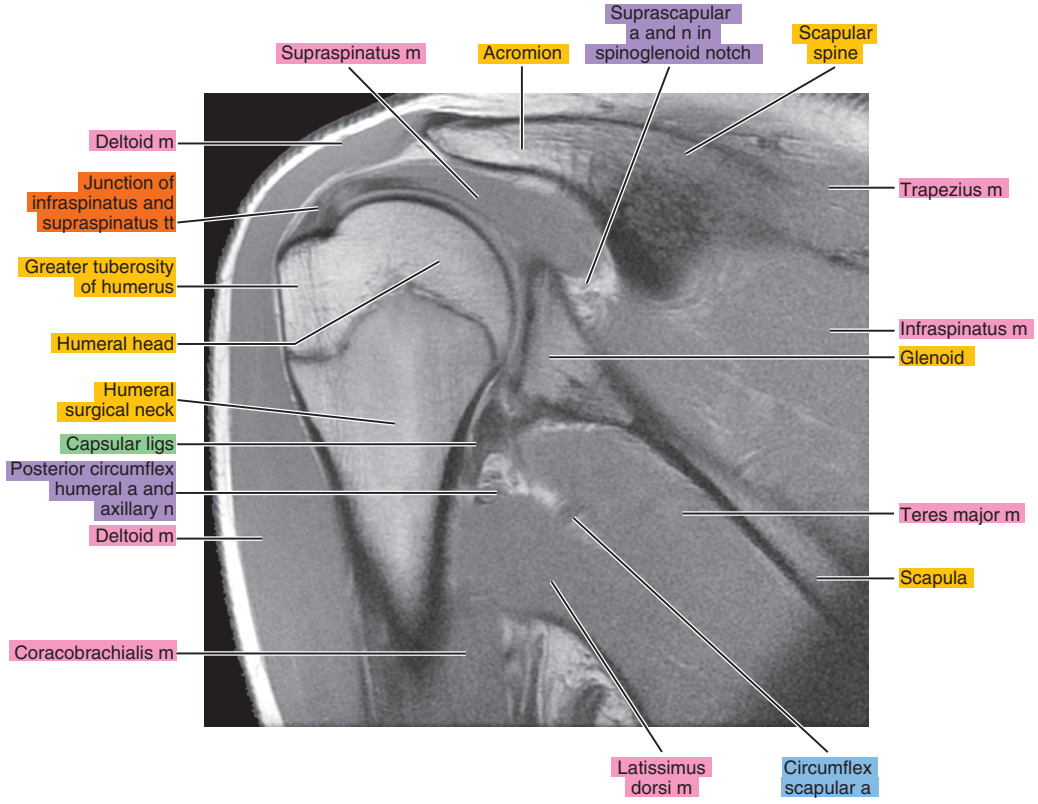

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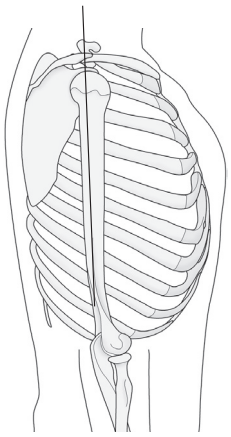

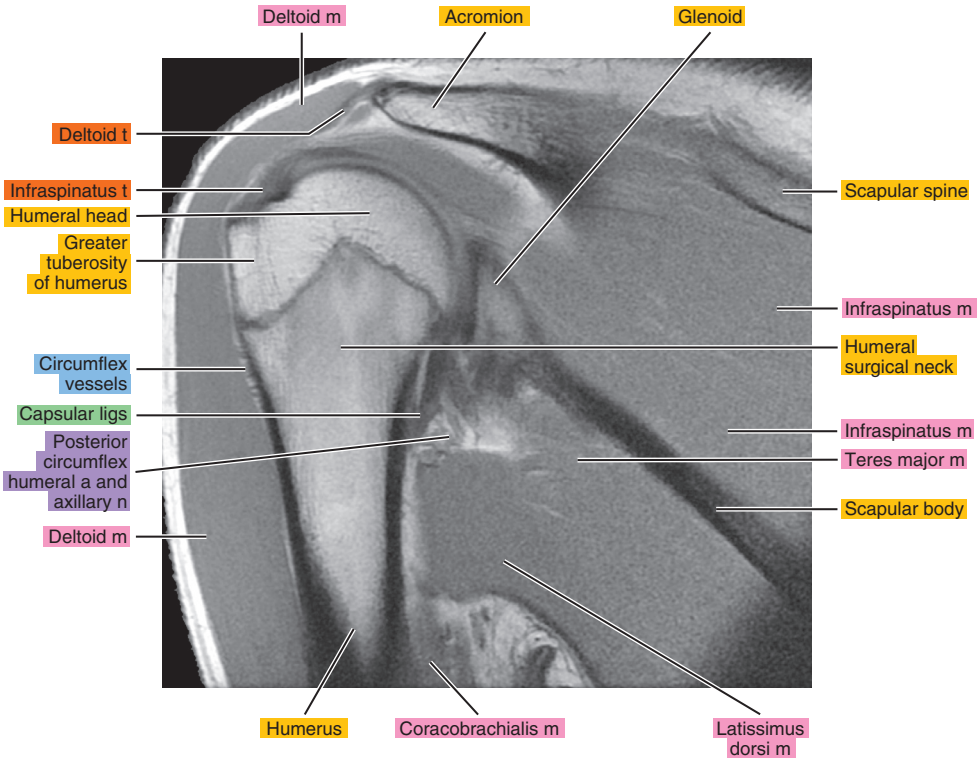

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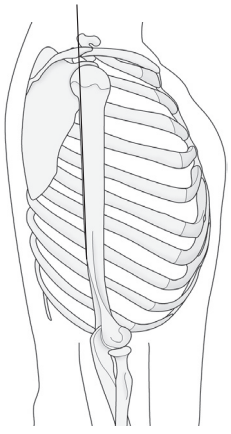

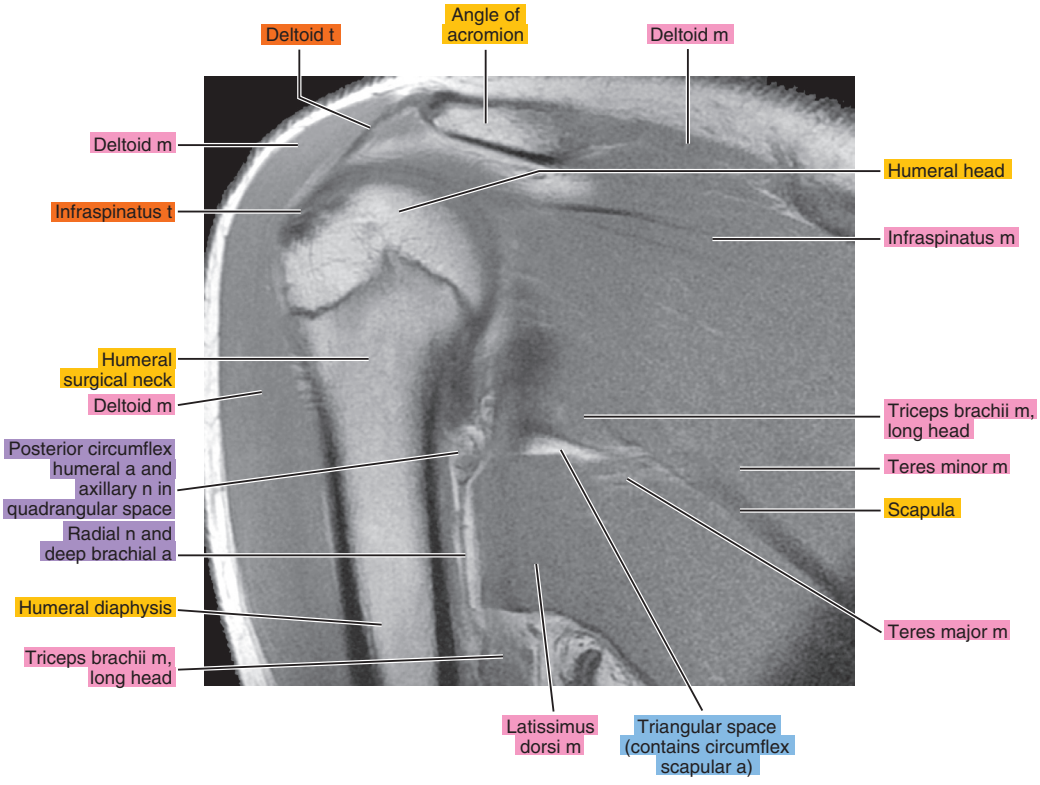

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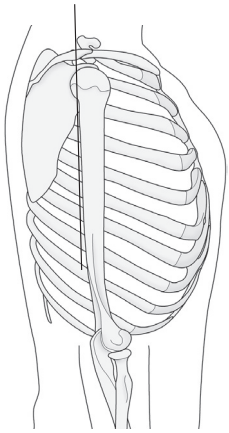

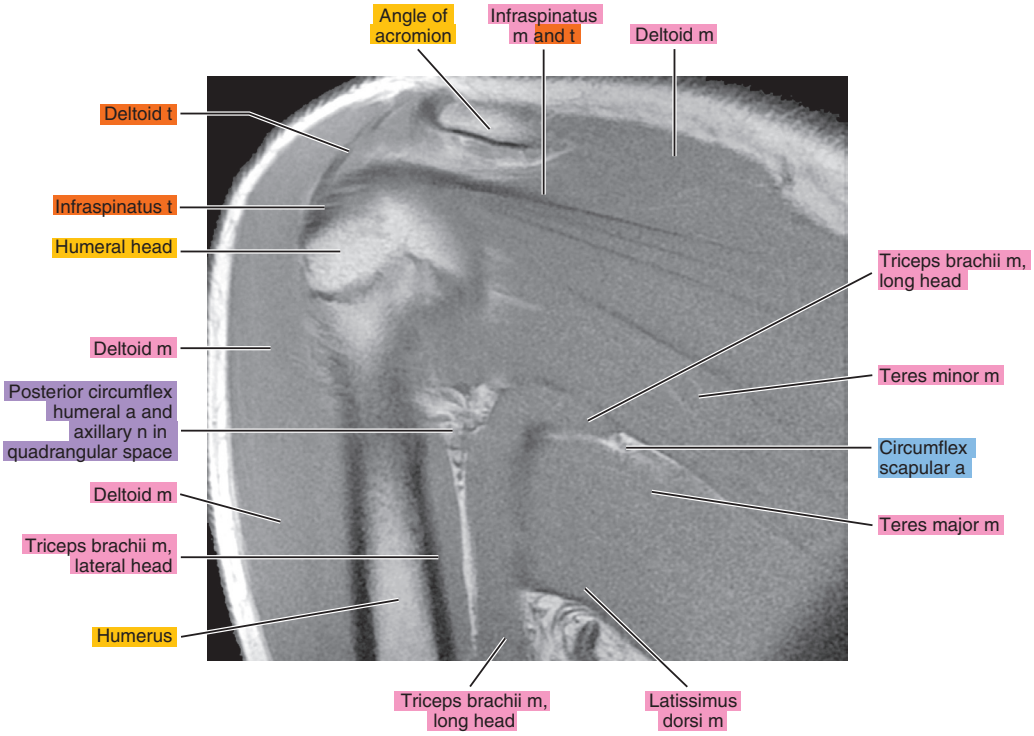

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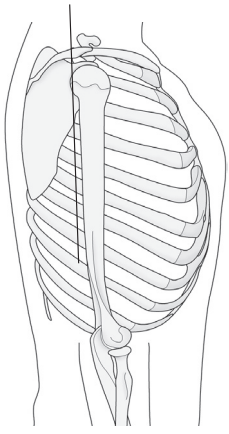

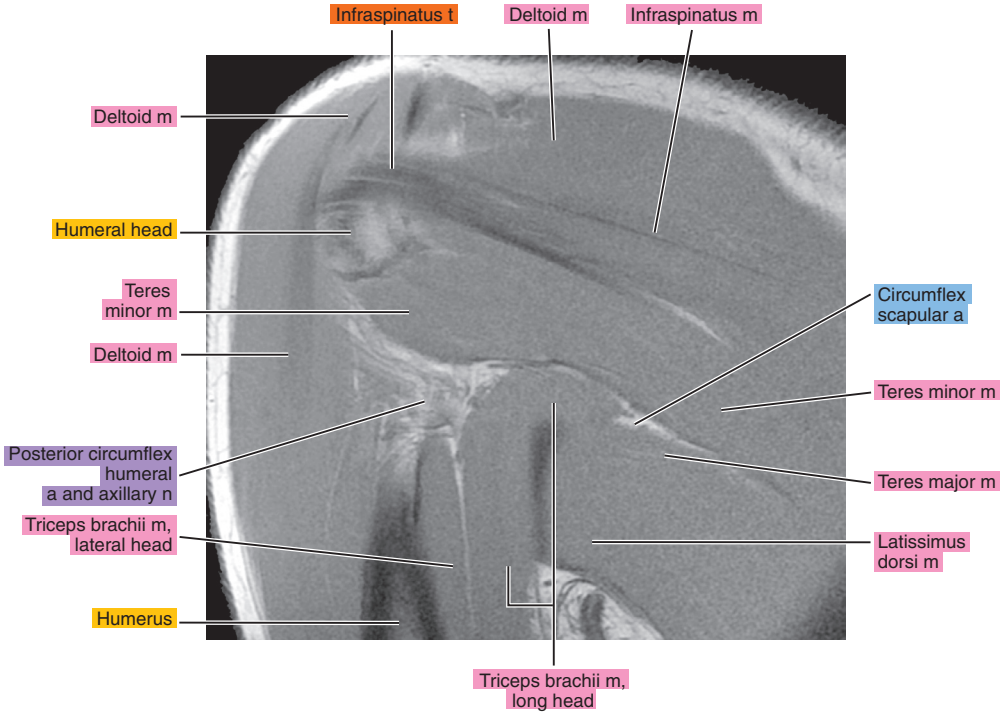

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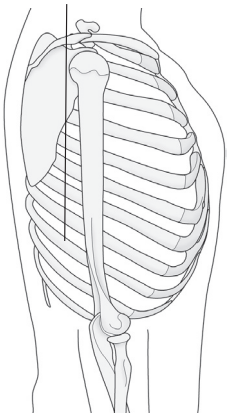

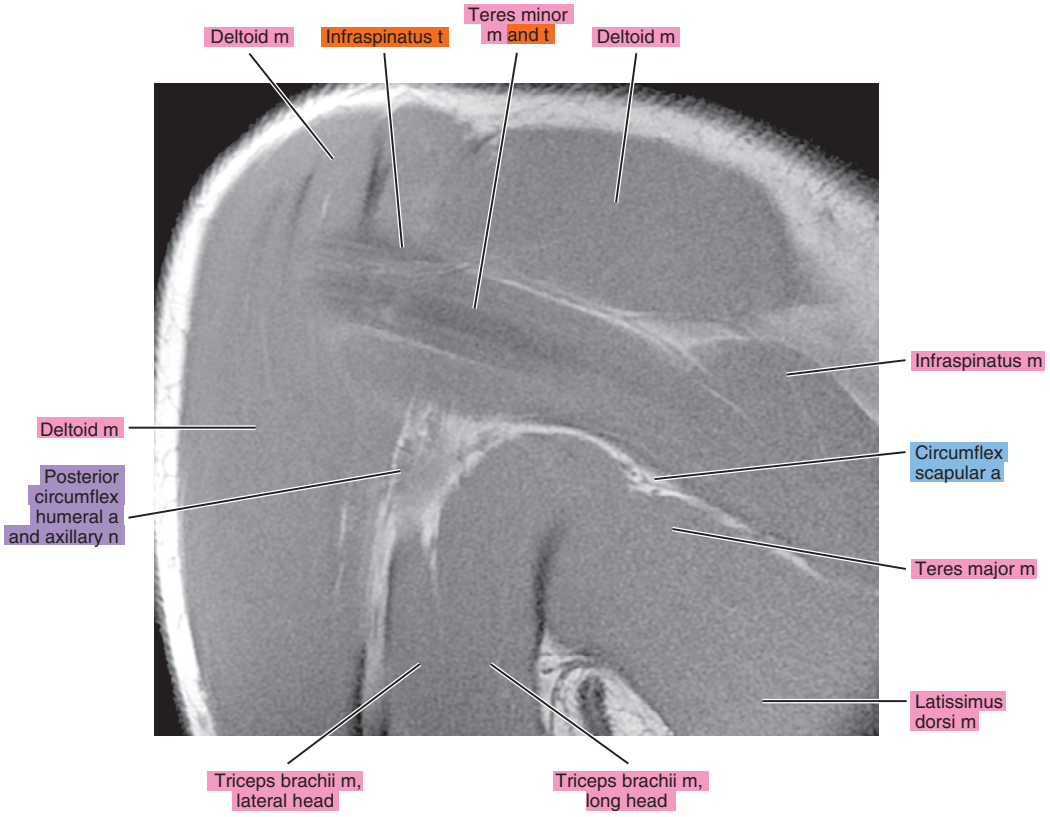

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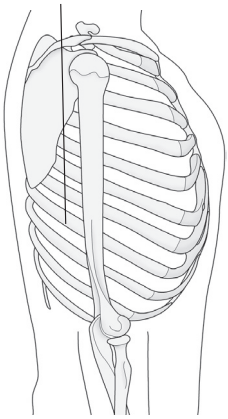

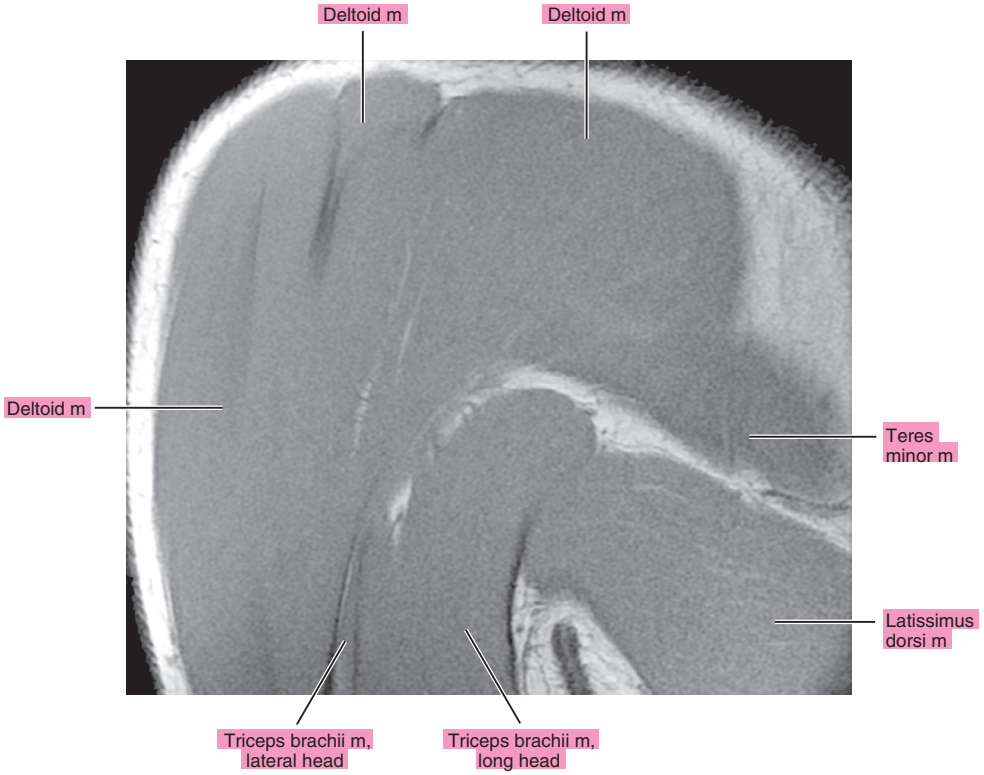

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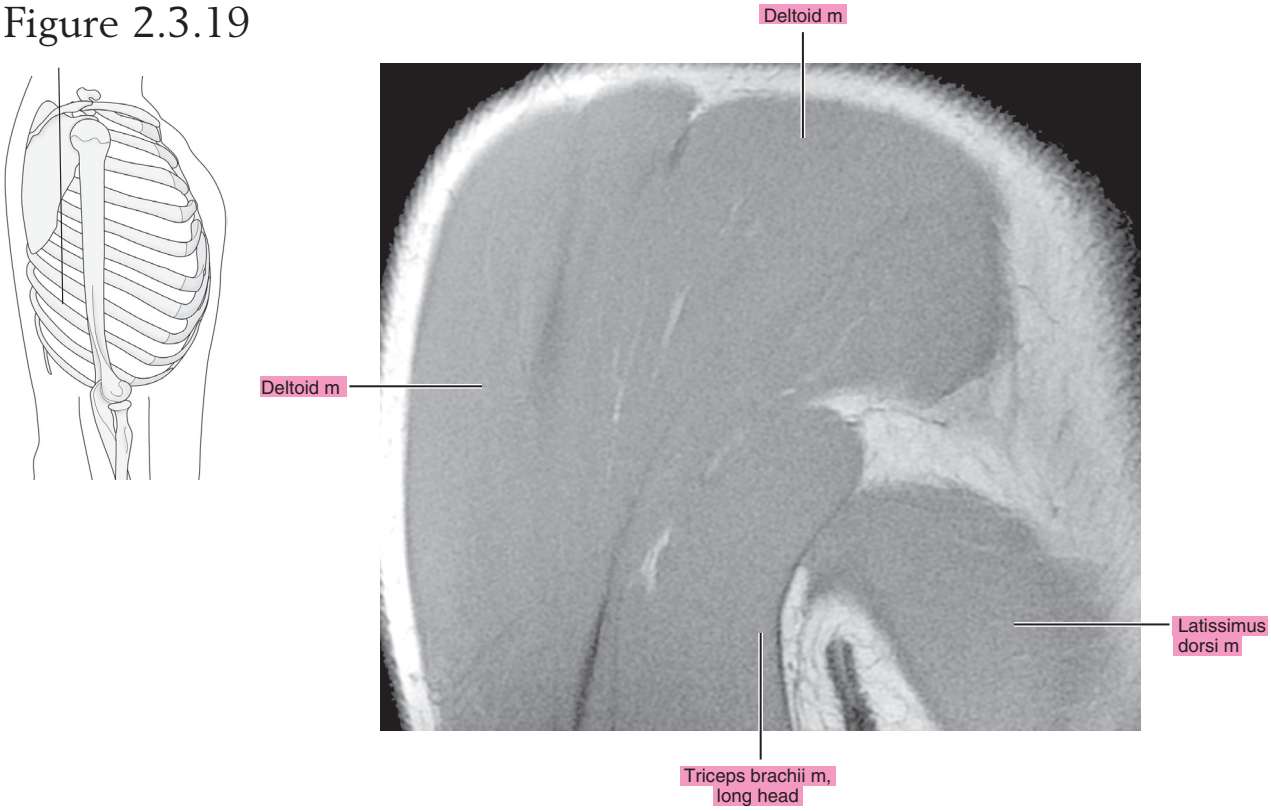

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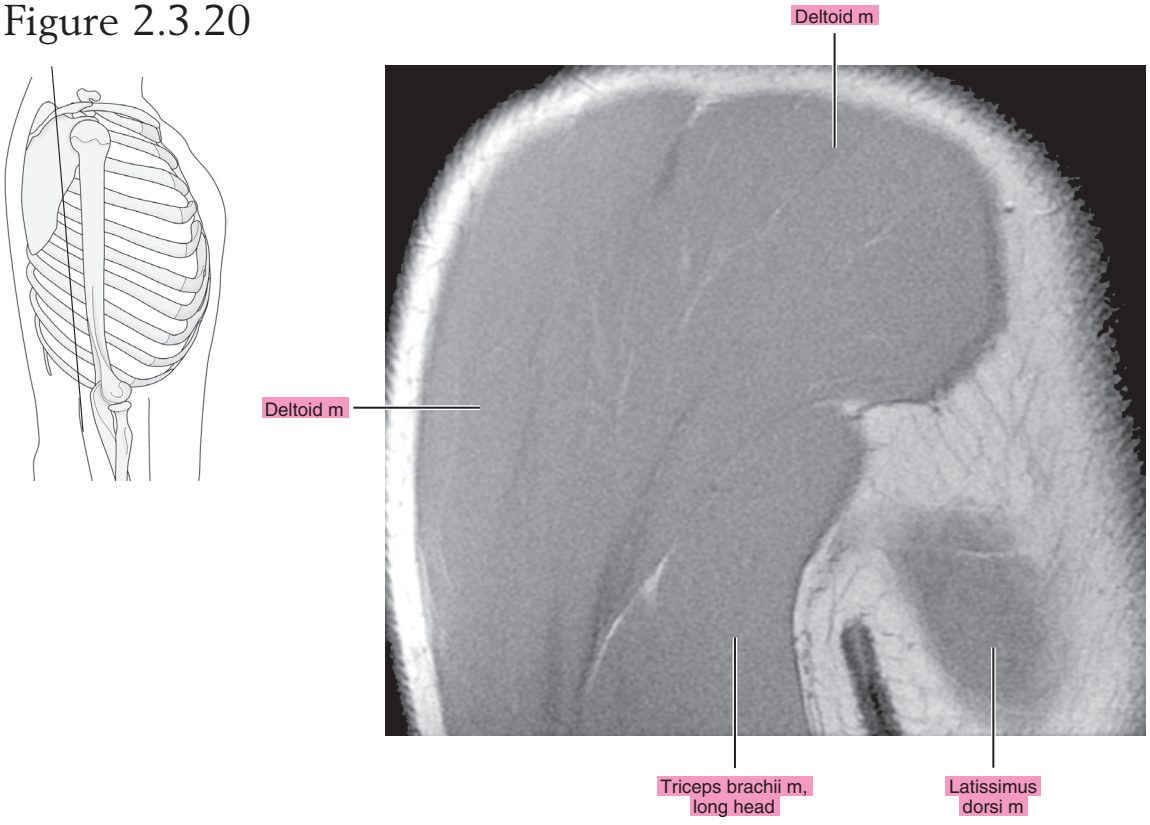

Chapter 3

MR Arthrography of the Shoulder

AXIAL

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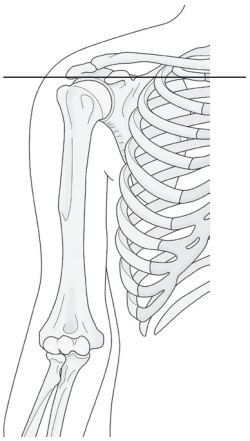

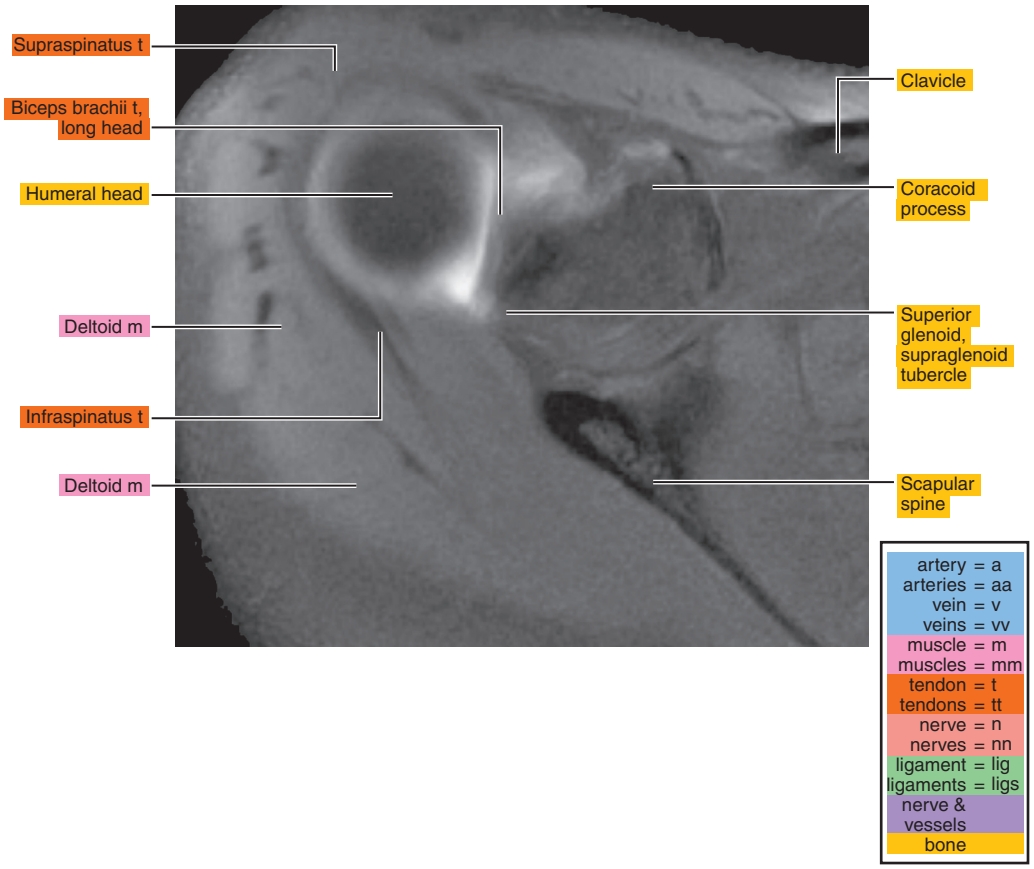

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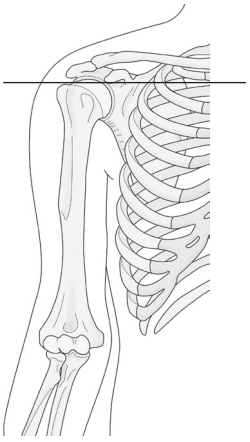

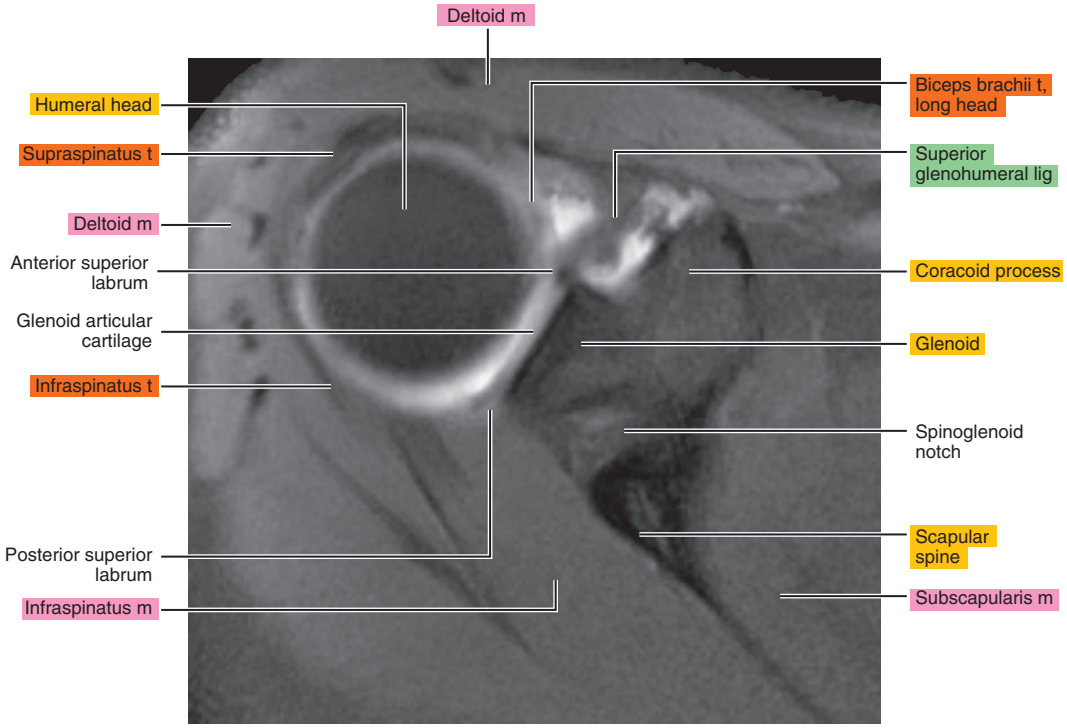

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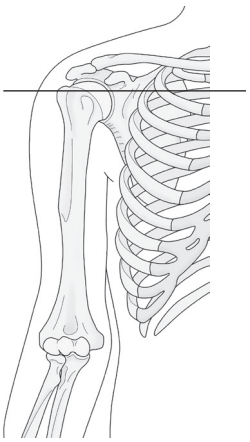

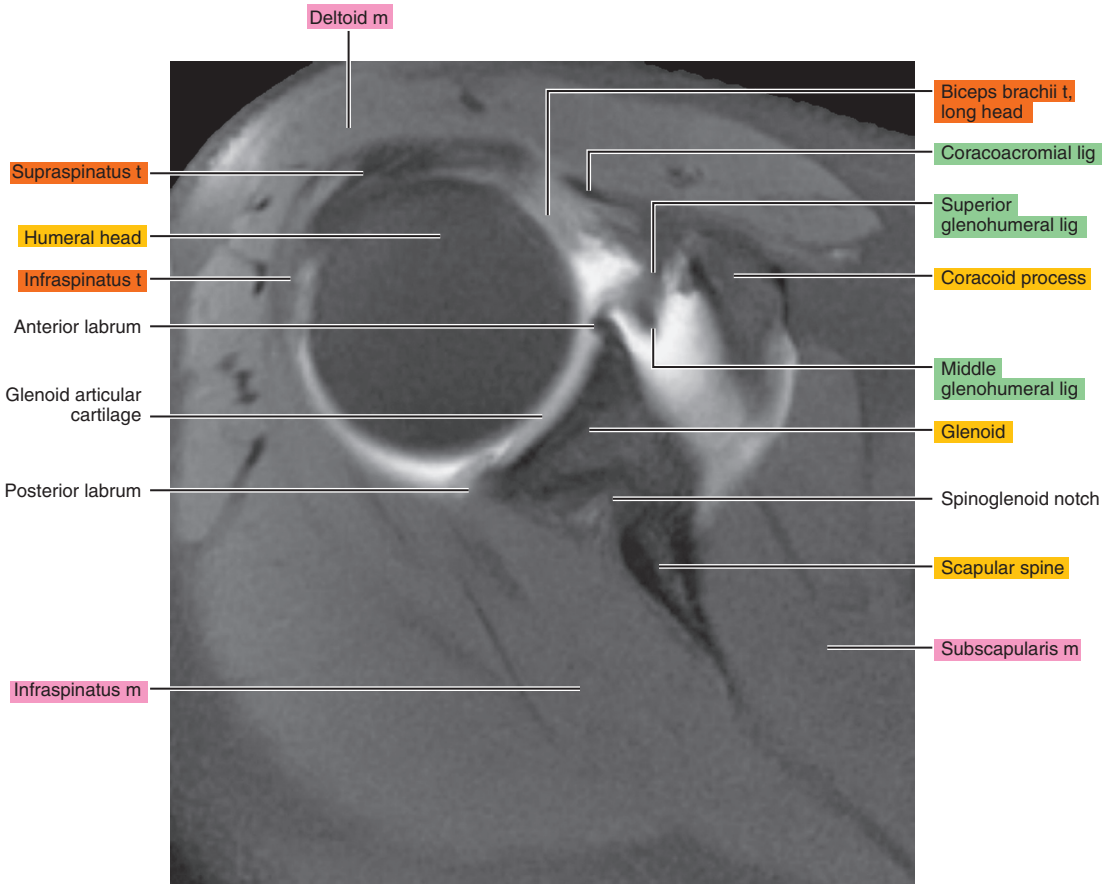

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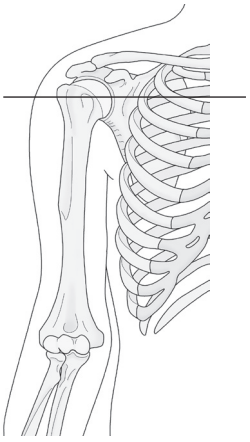

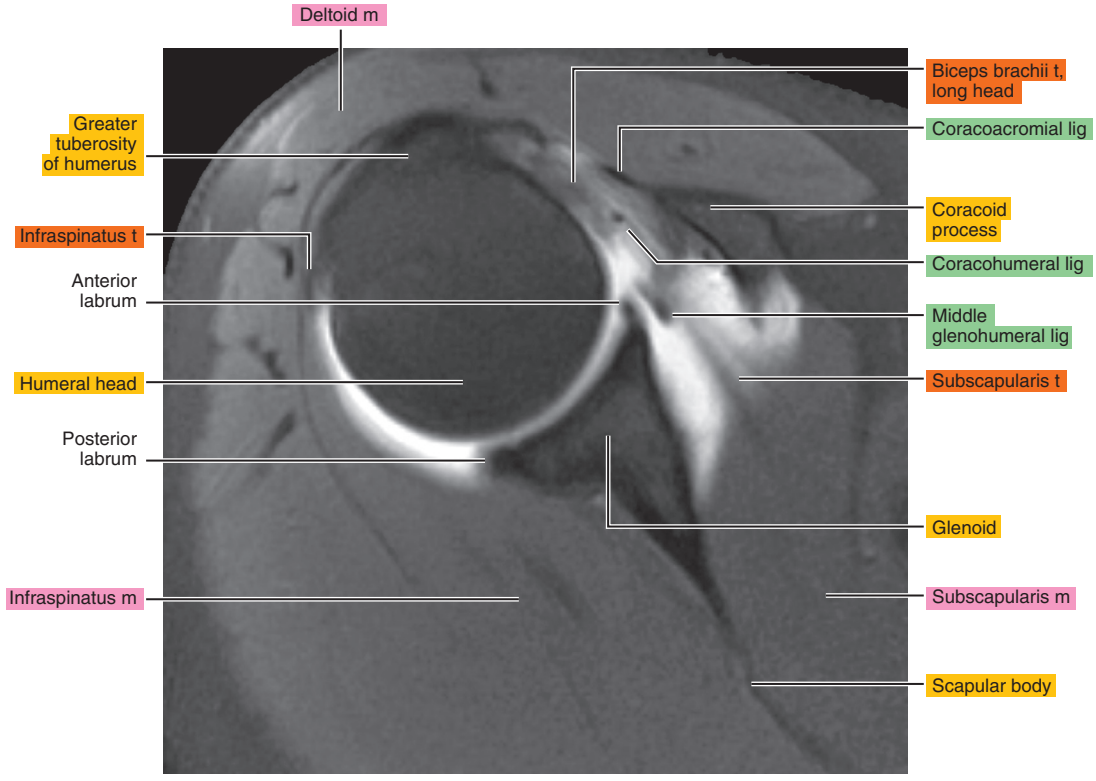

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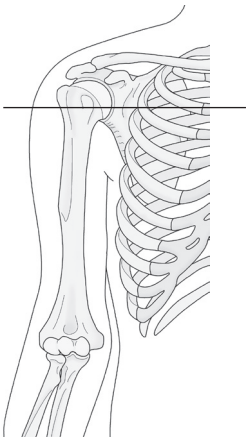

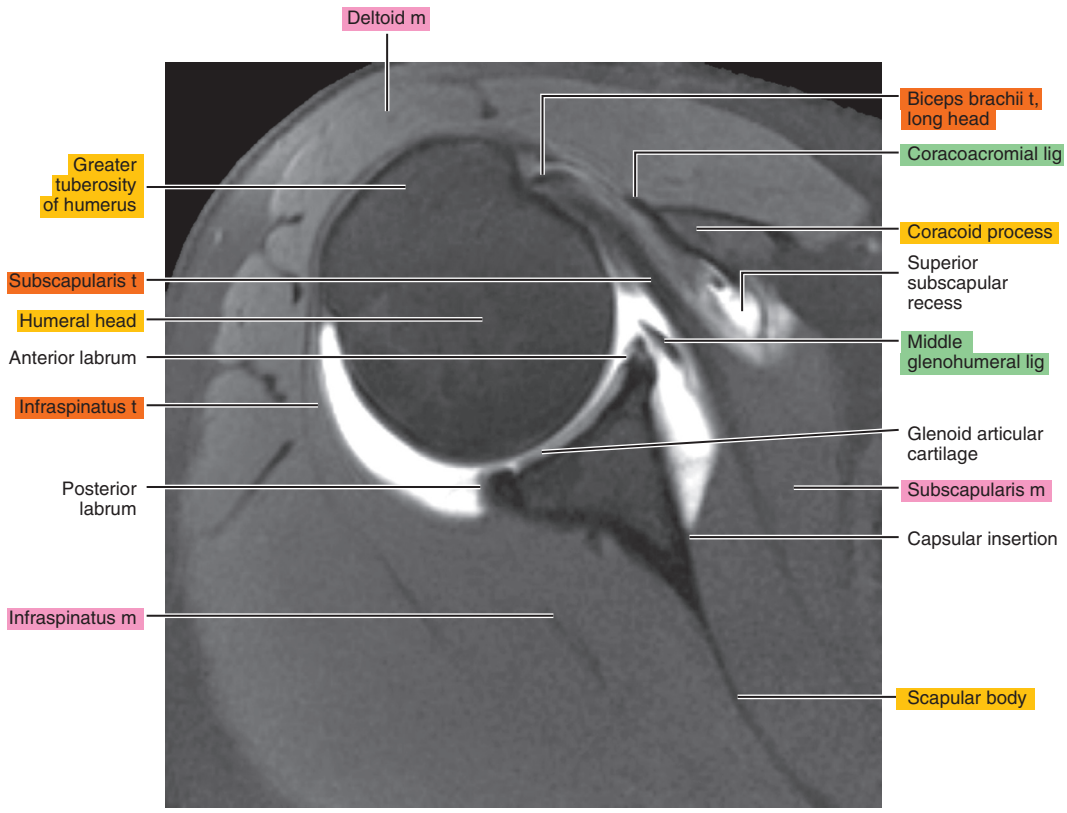

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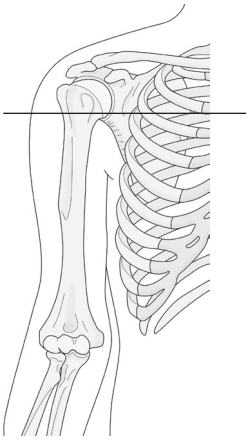

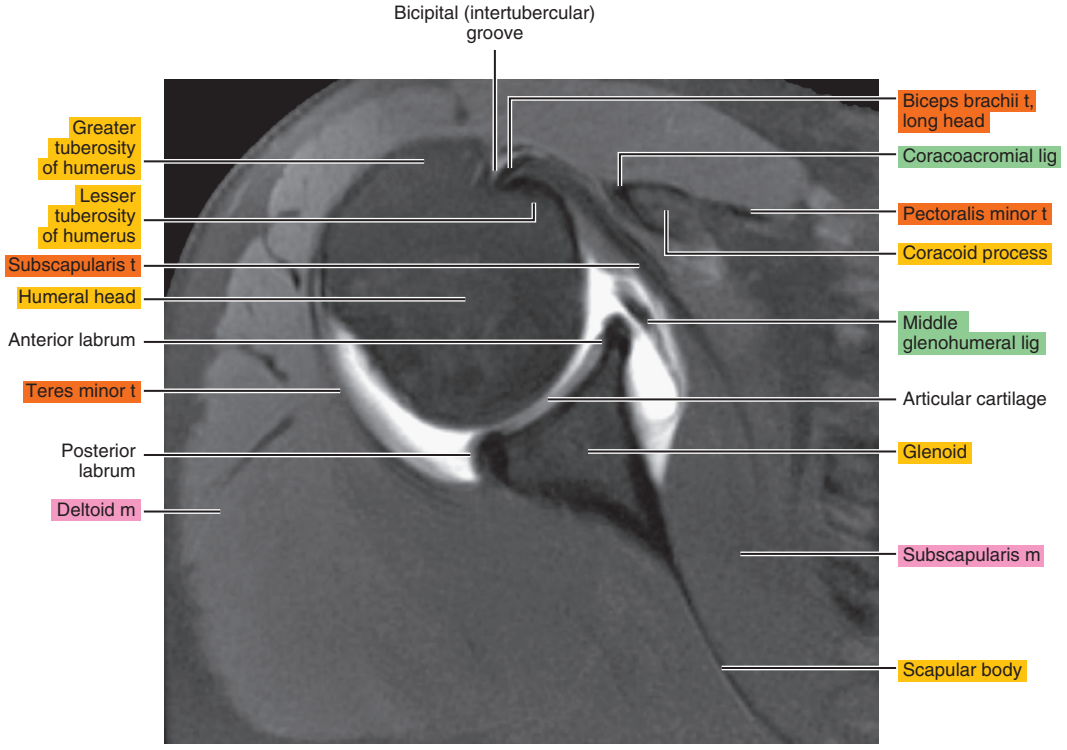

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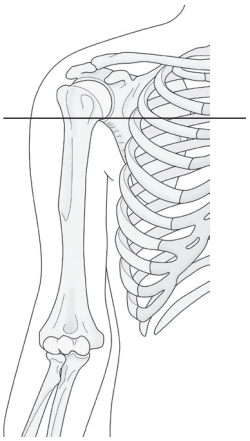

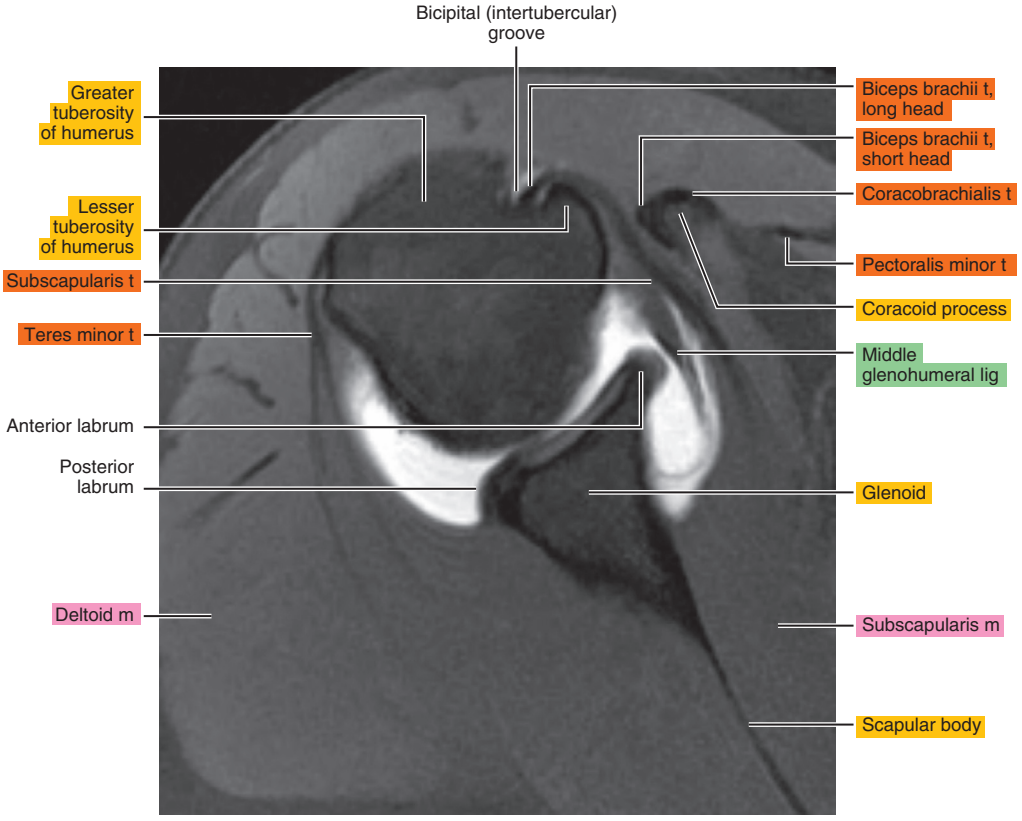

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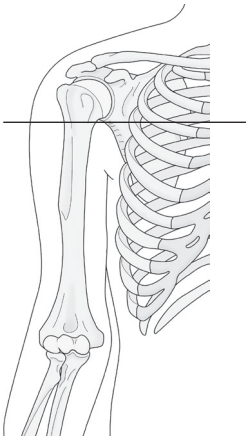

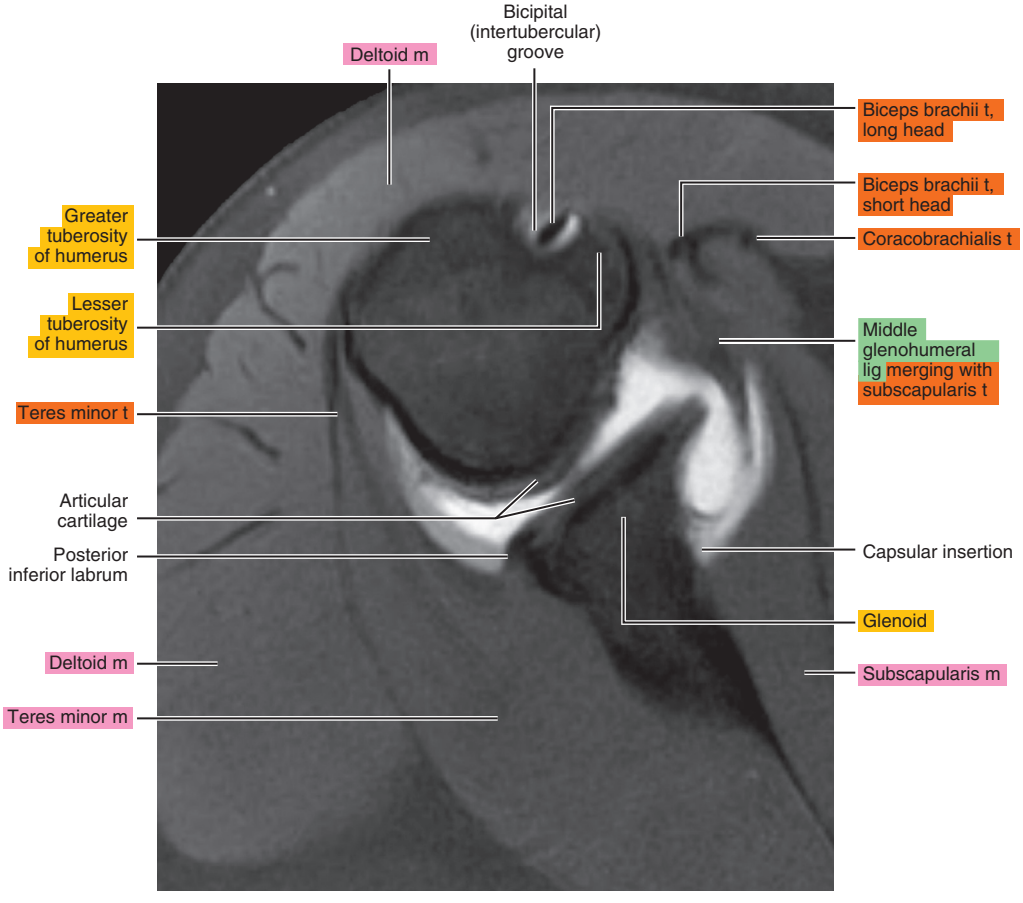

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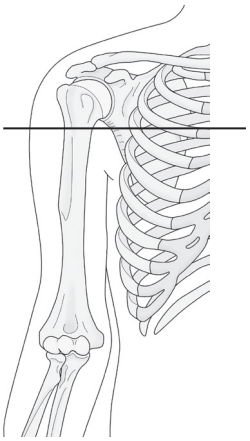

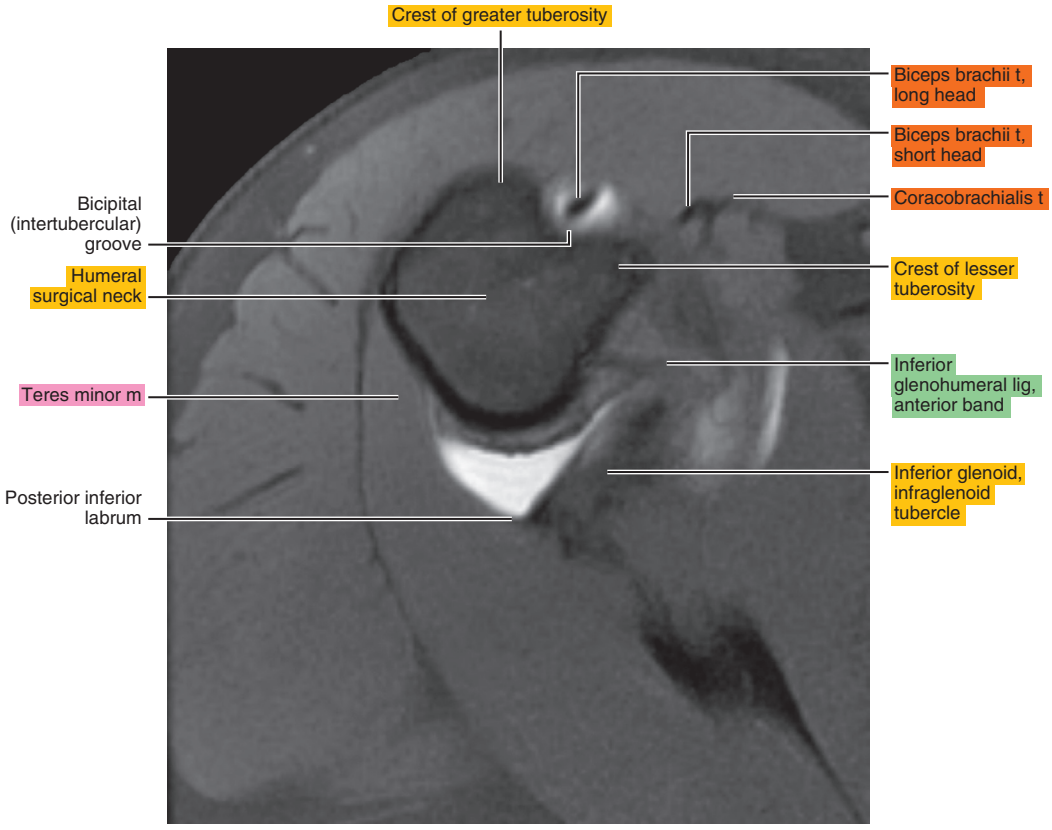

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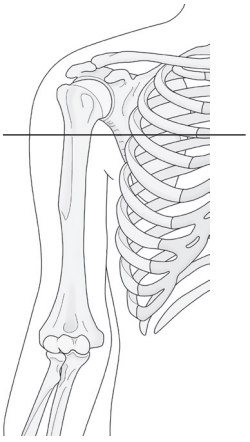

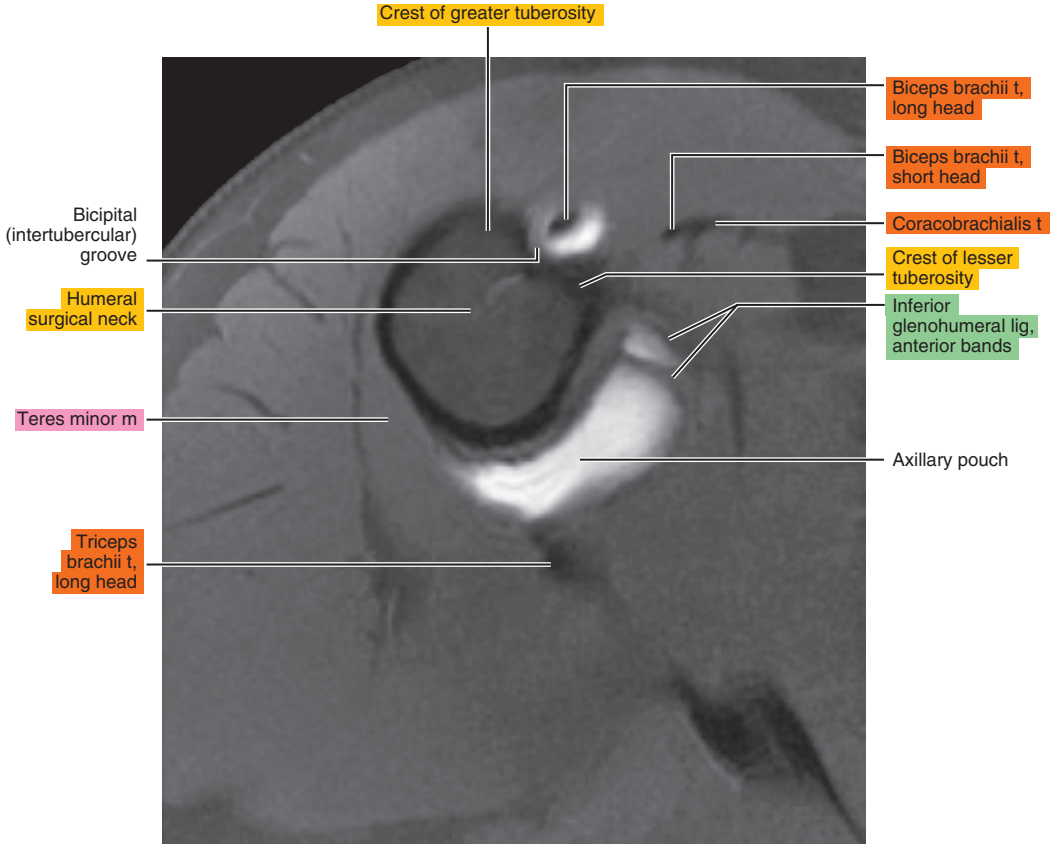

OBLIQUE SAGITTAL

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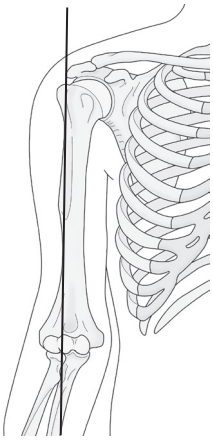

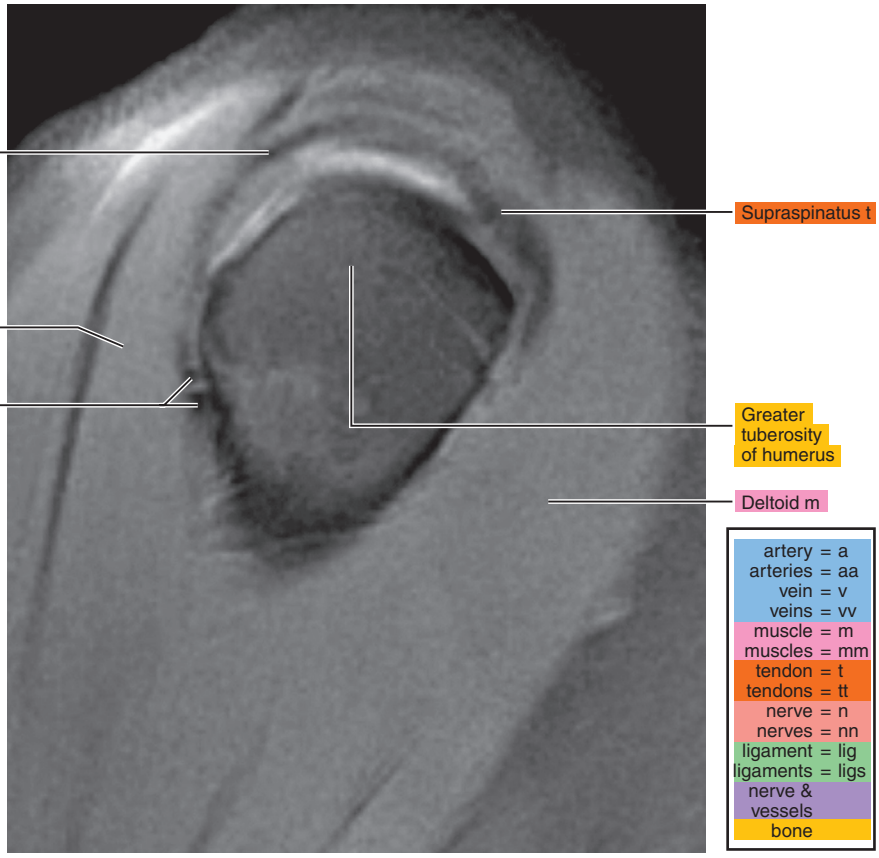

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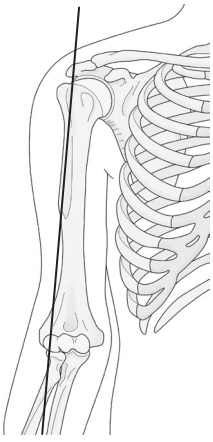

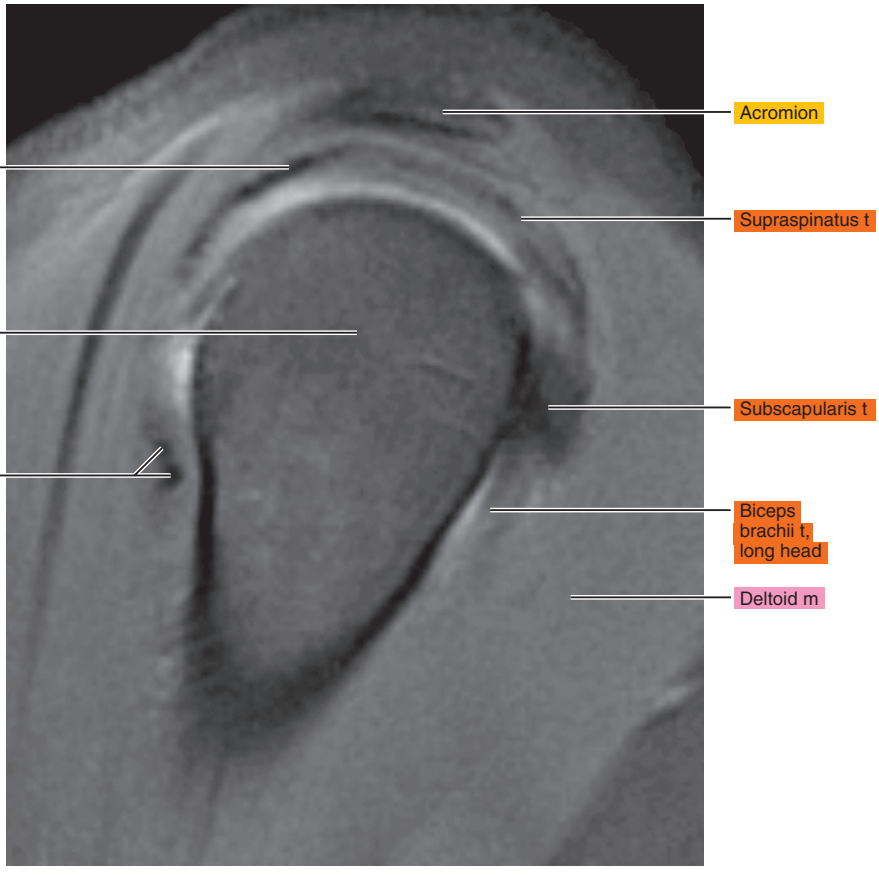

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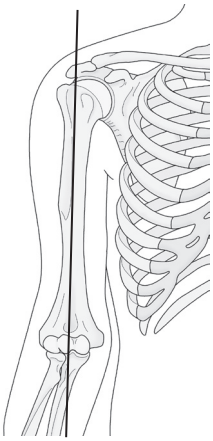

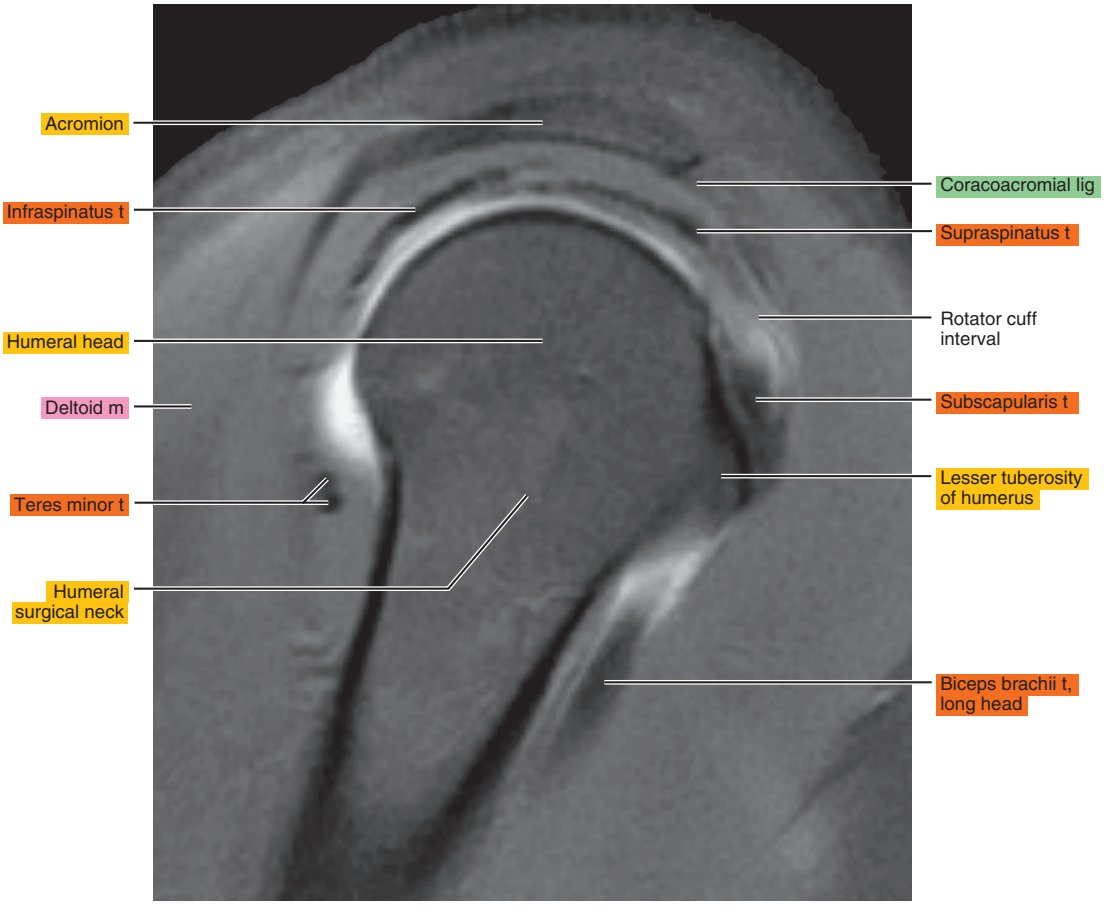

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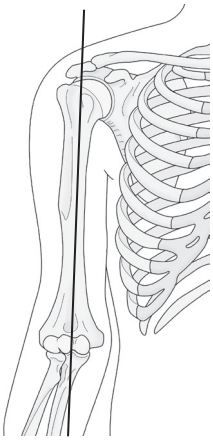

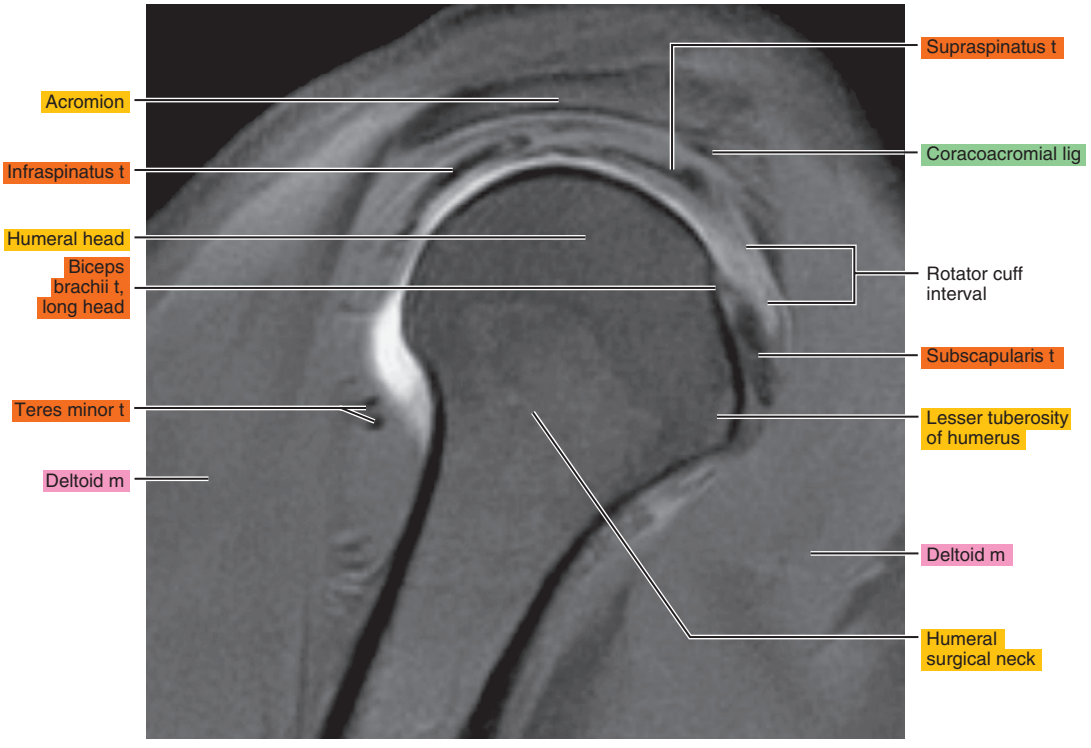

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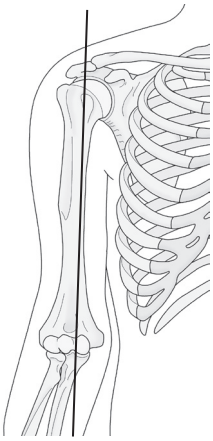

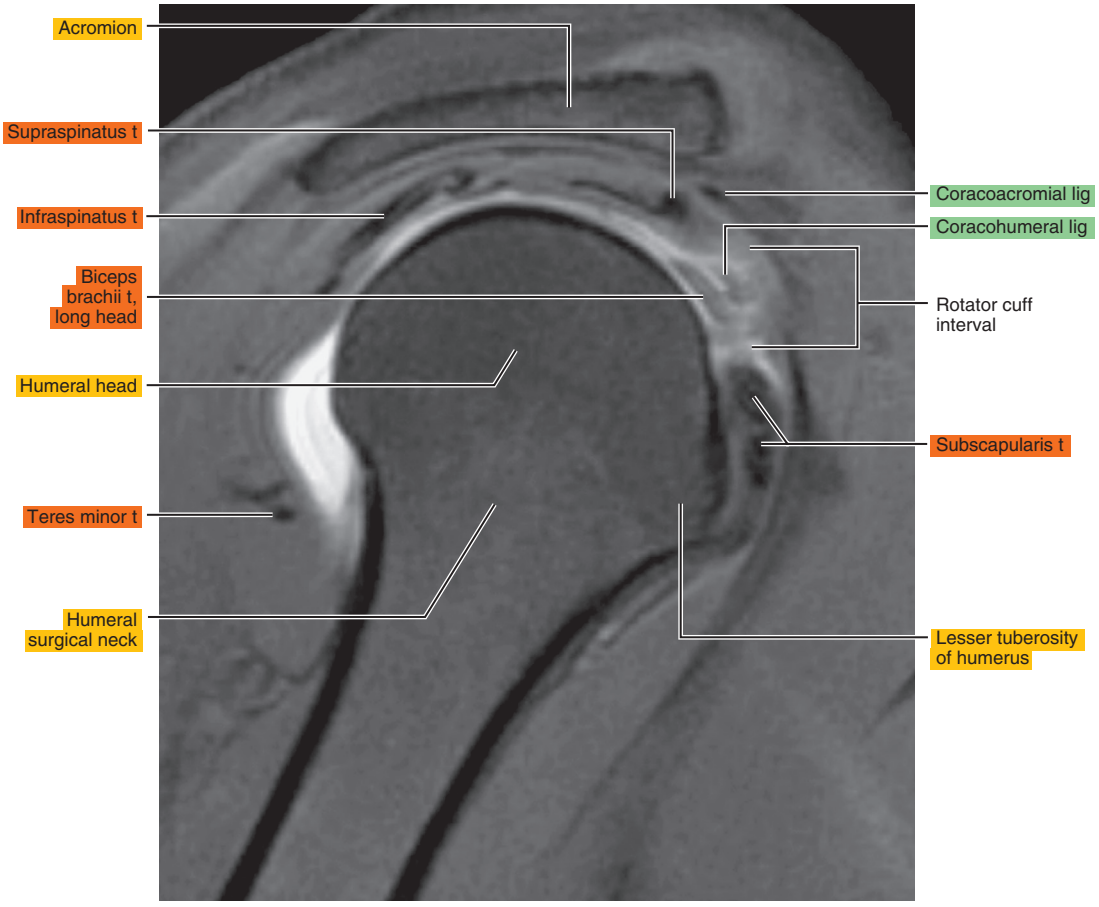

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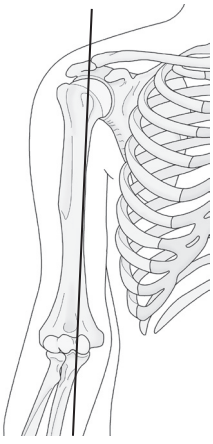

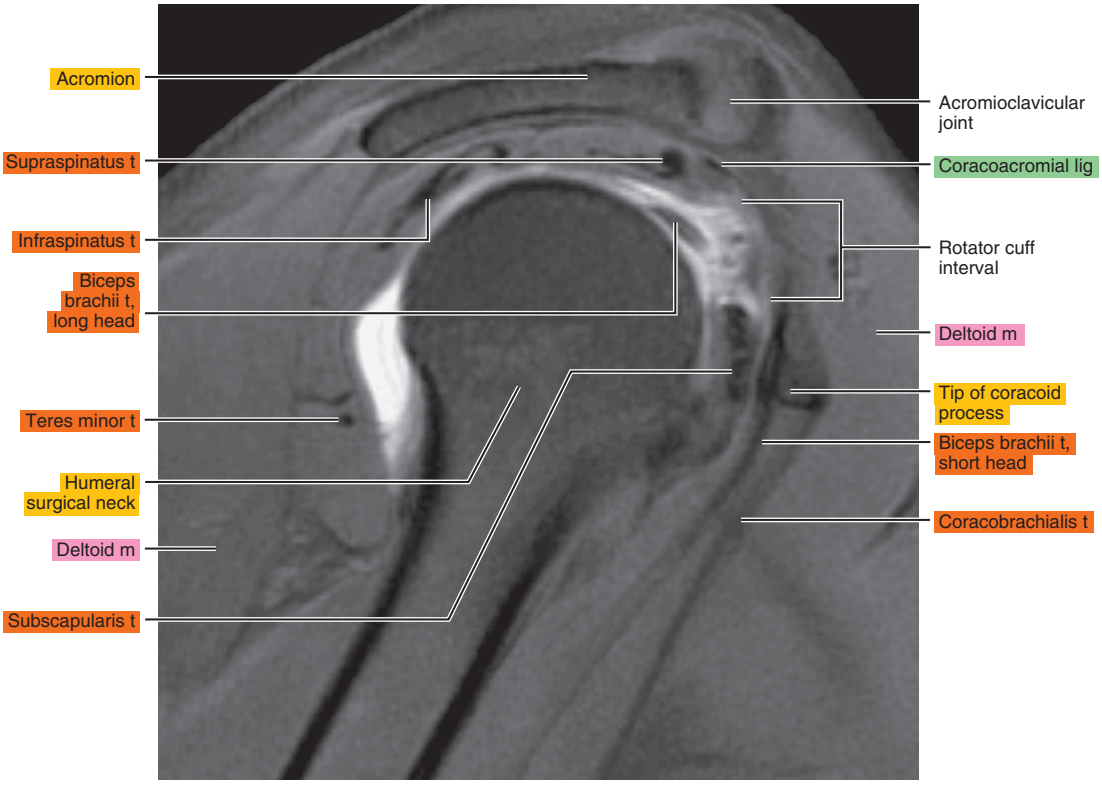

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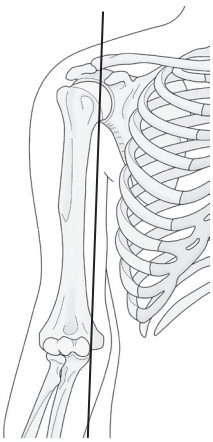

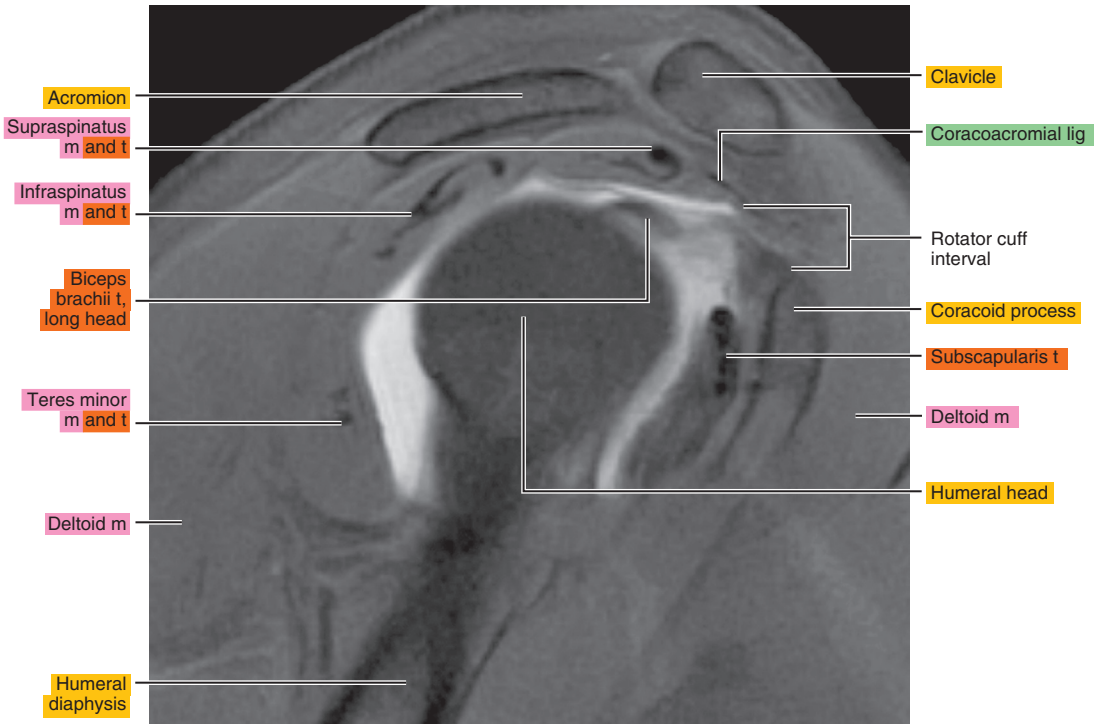

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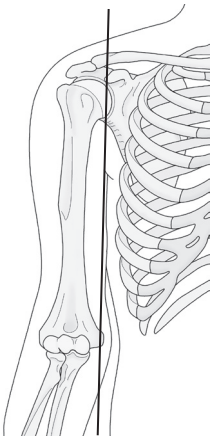

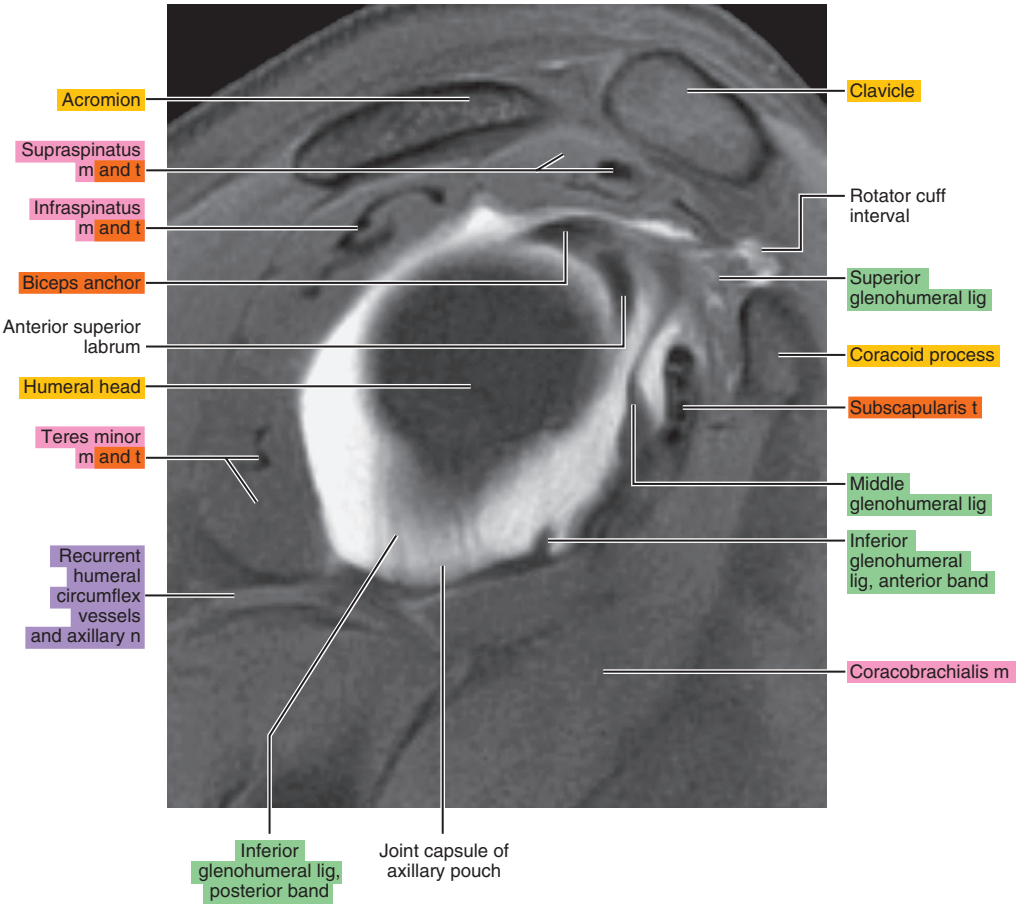

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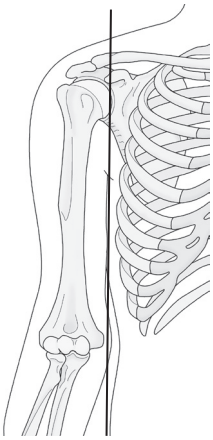

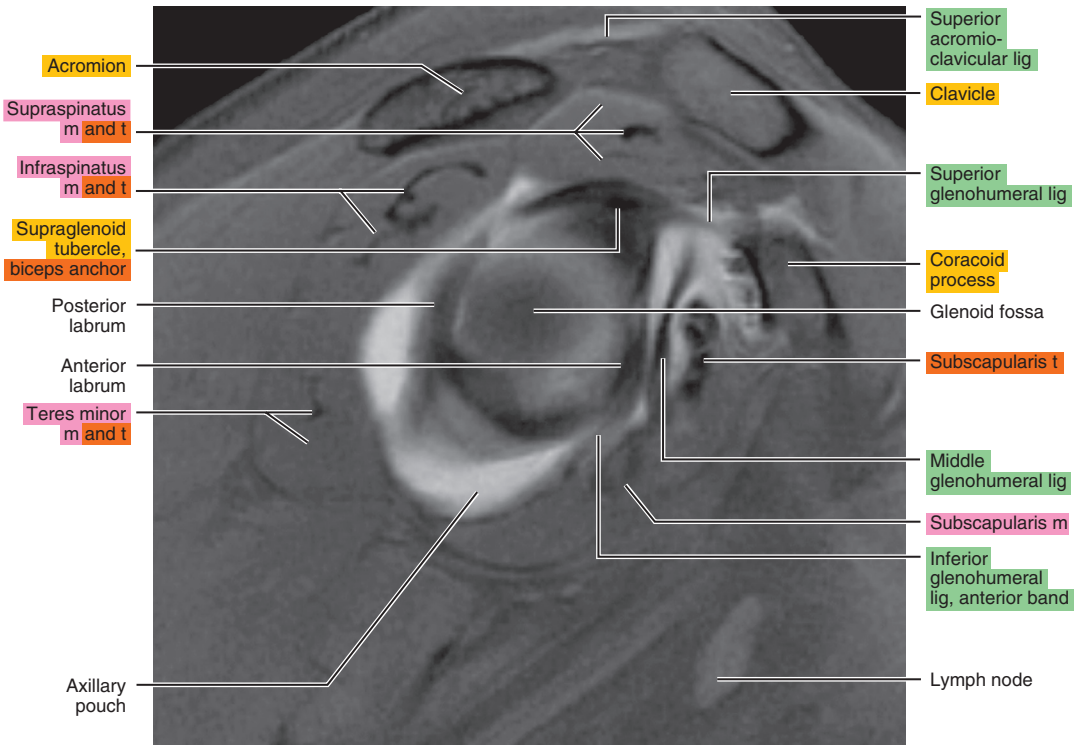

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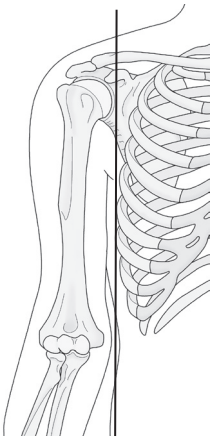


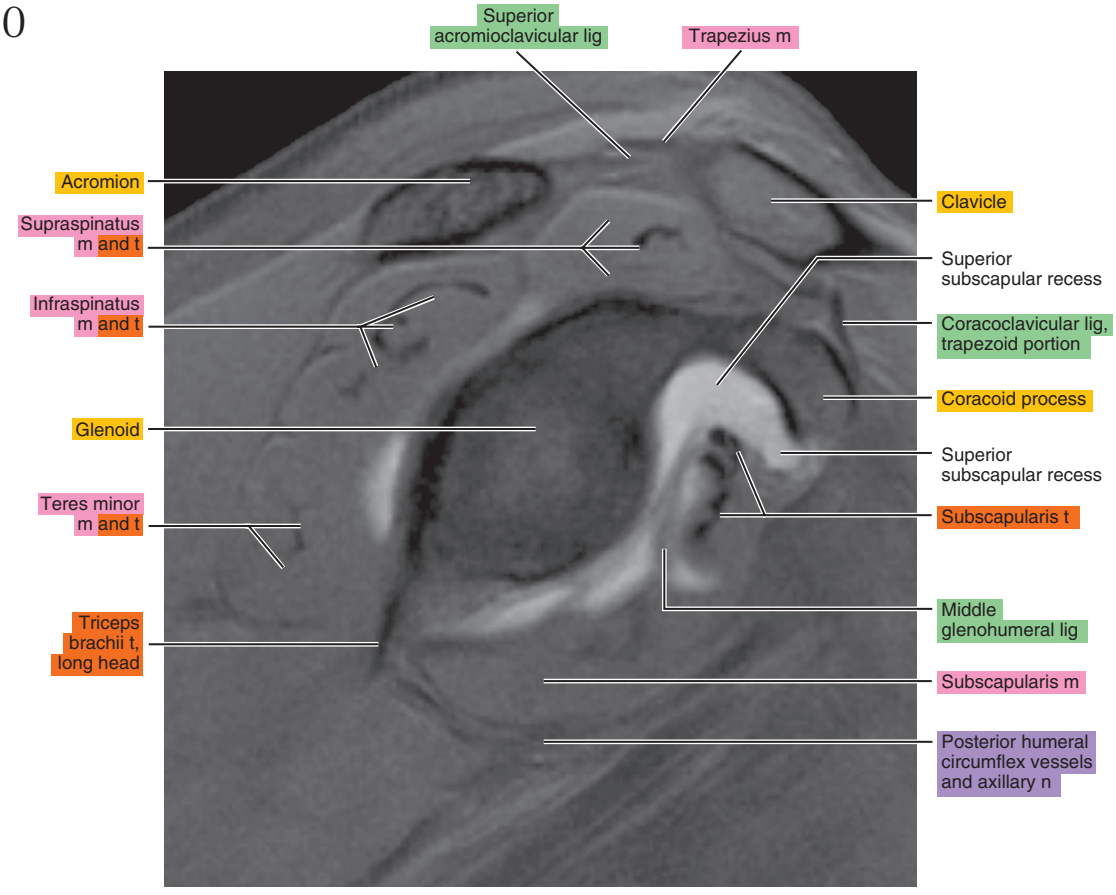
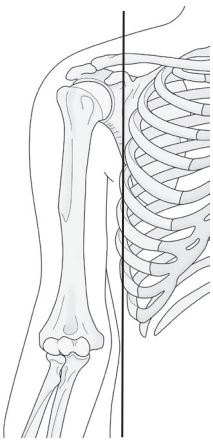
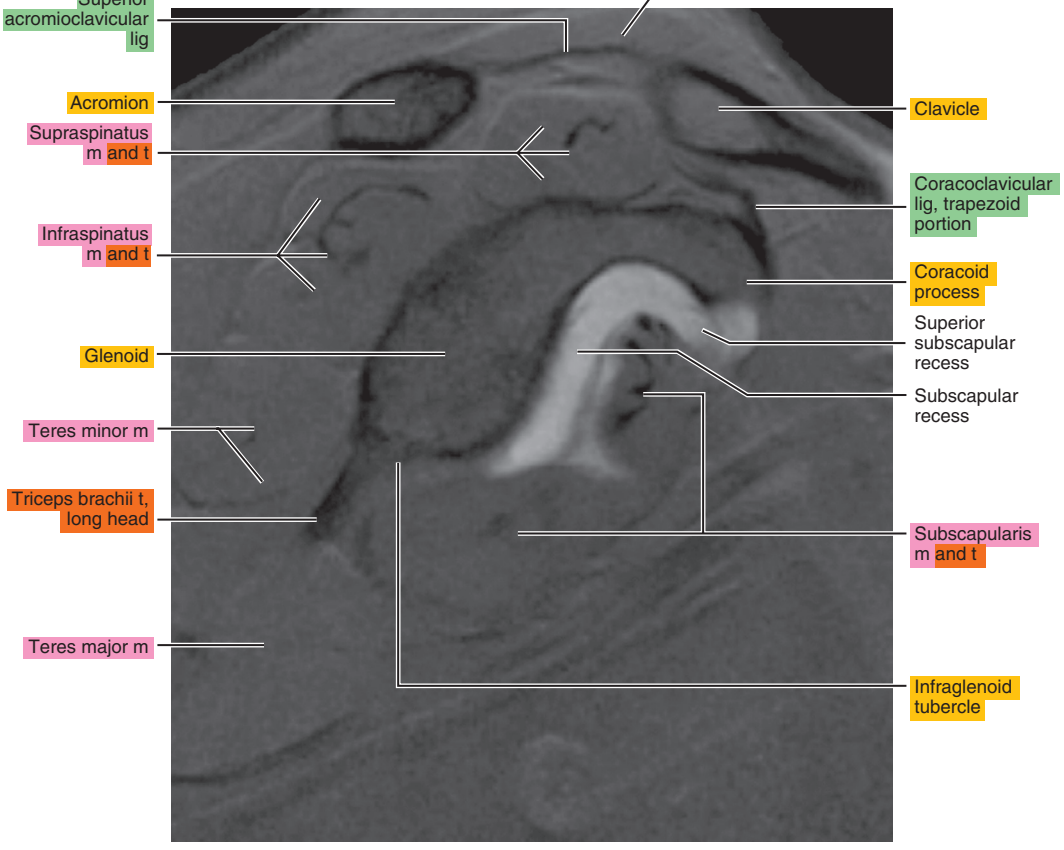


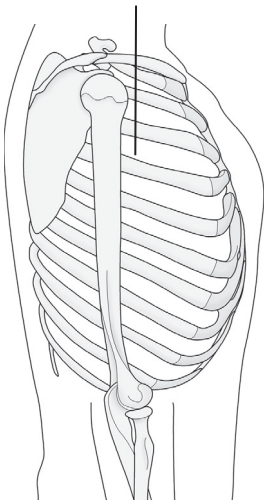
Figure 3.2.11

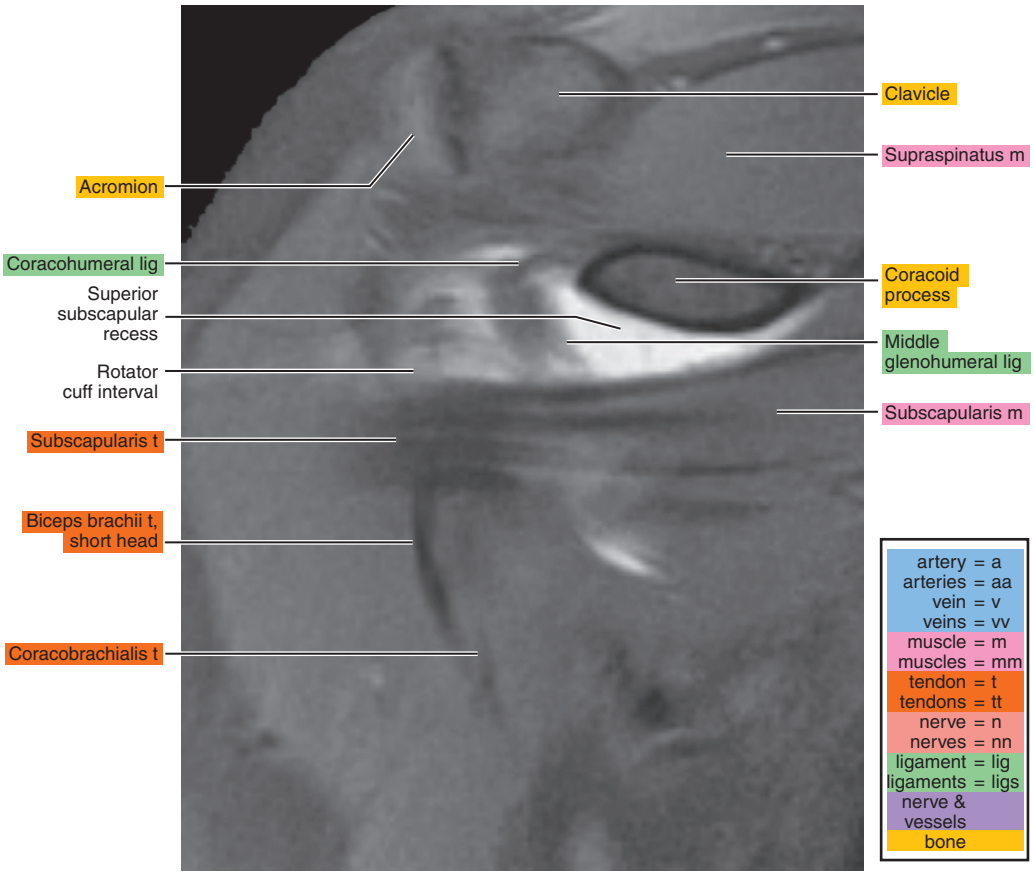



Trapezius m
Superior acromioclavicular lig
Acromion
Supraspinatus m and t
Infraspinatus m and t
Glenoid
Teres minor m
Triceps brachii t, long head
Teres major m
Clavicle
Coracoclavicular lig, trapezoid portion
Coracoid process
Superior subscapular recess
Subscapular recess
Subscapularis m and t
Infraglenoid tubercle

OBLIQUE CORONAL

Figure 3.3.1





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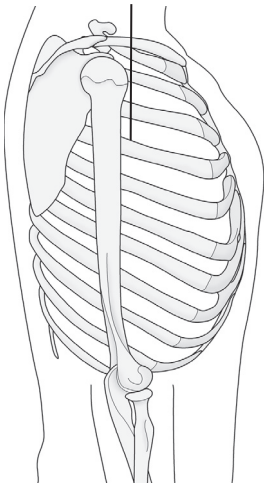

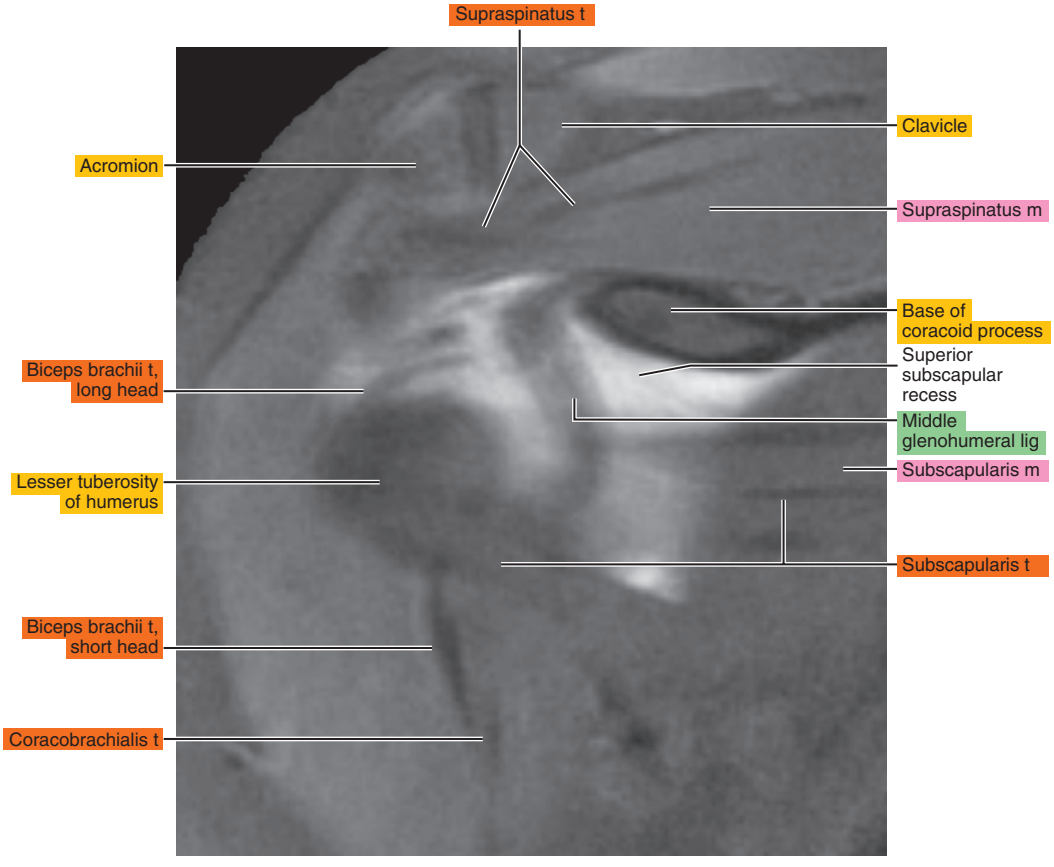

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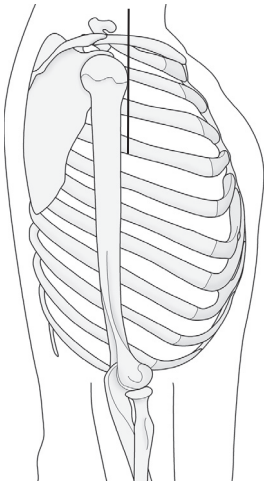

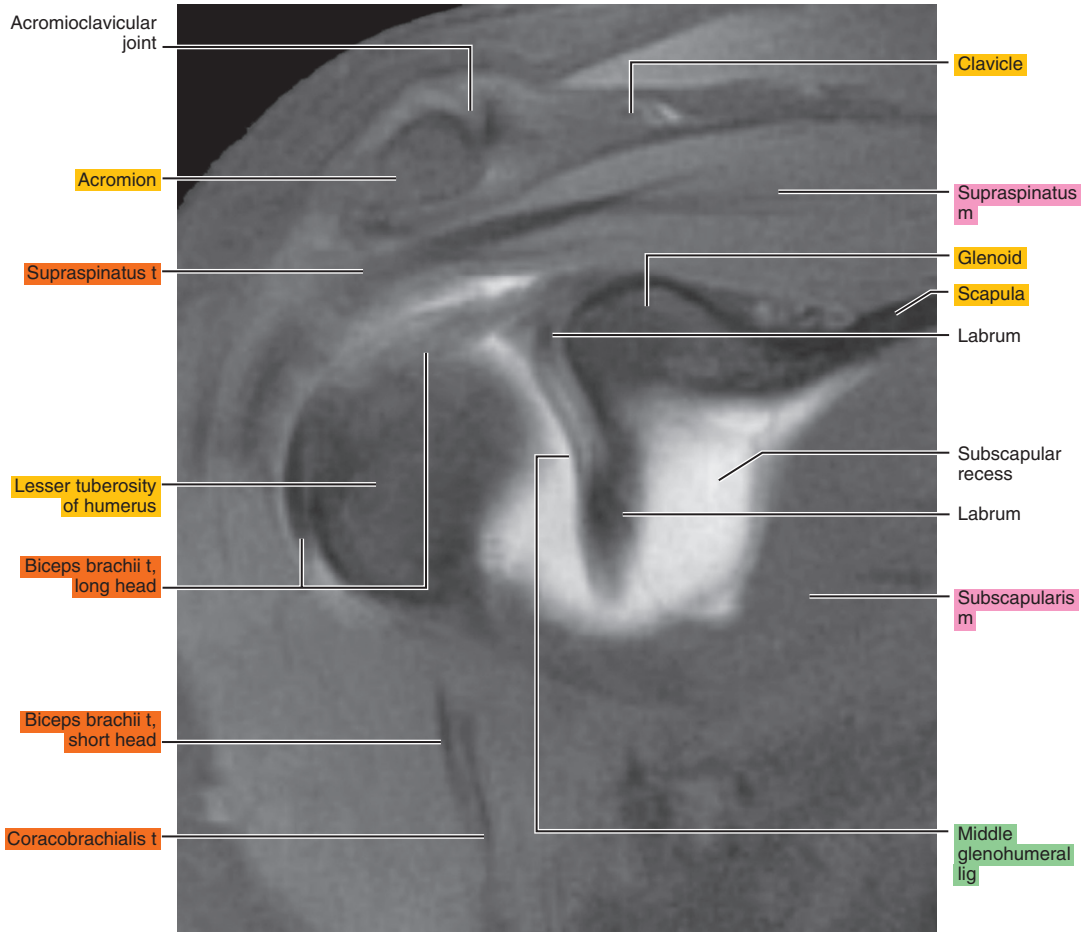

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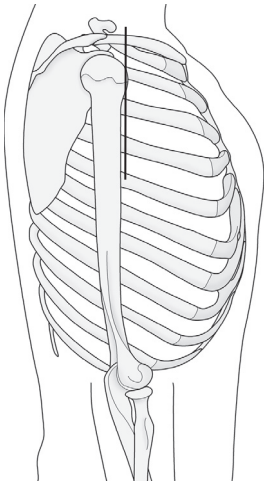

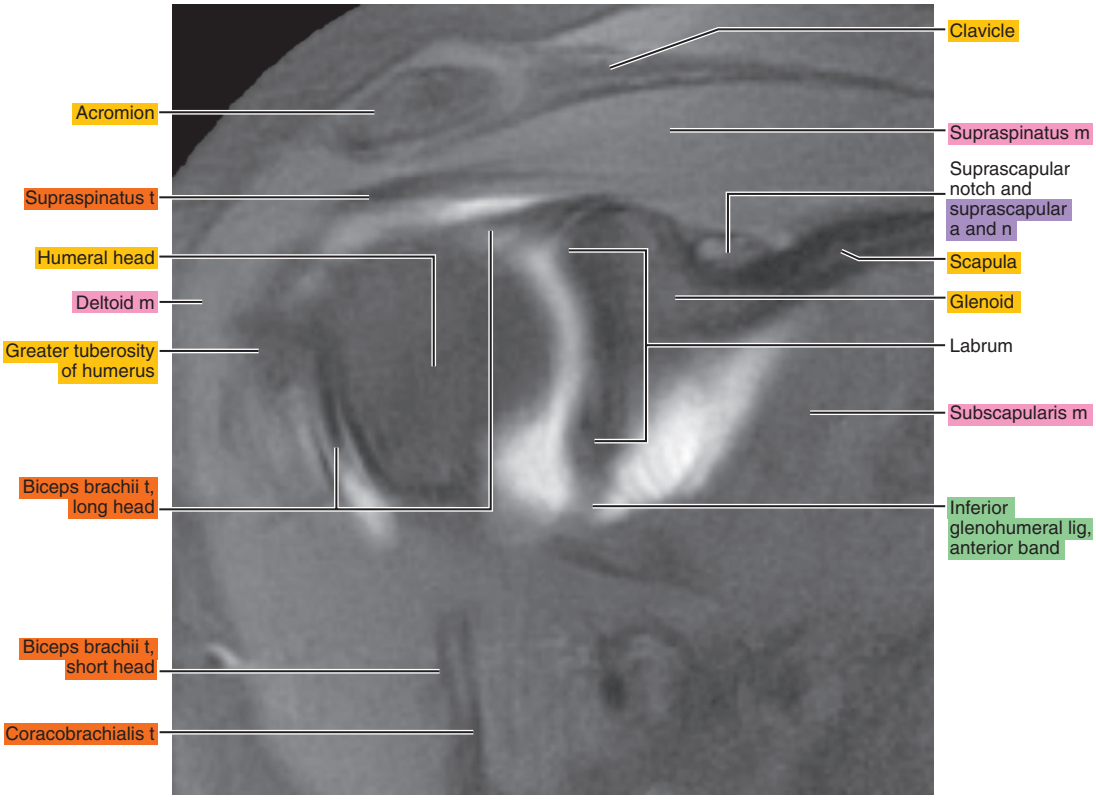

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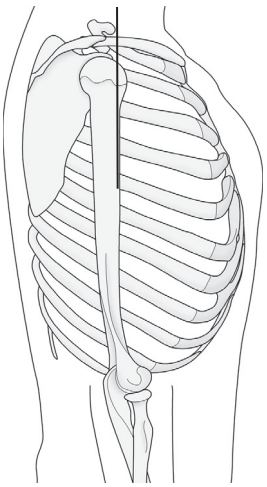

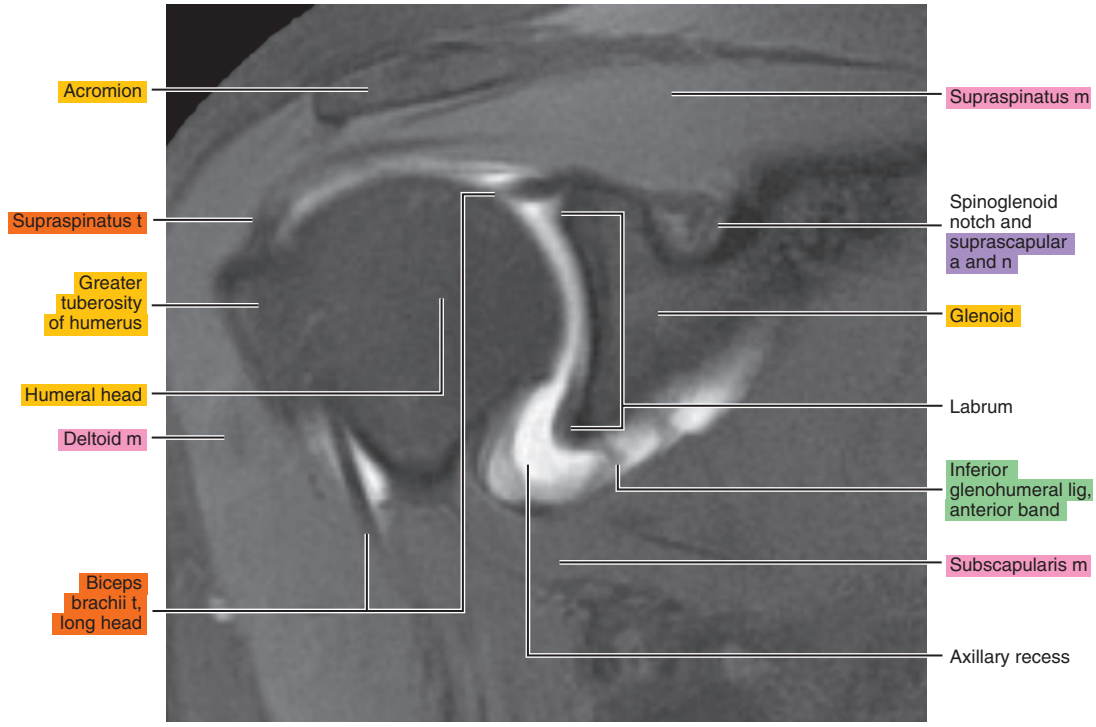

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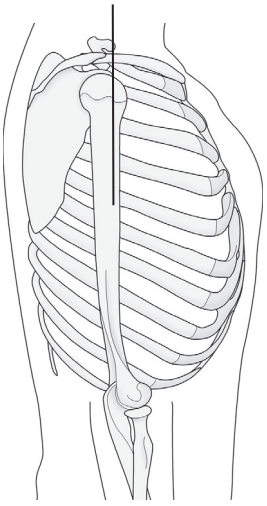

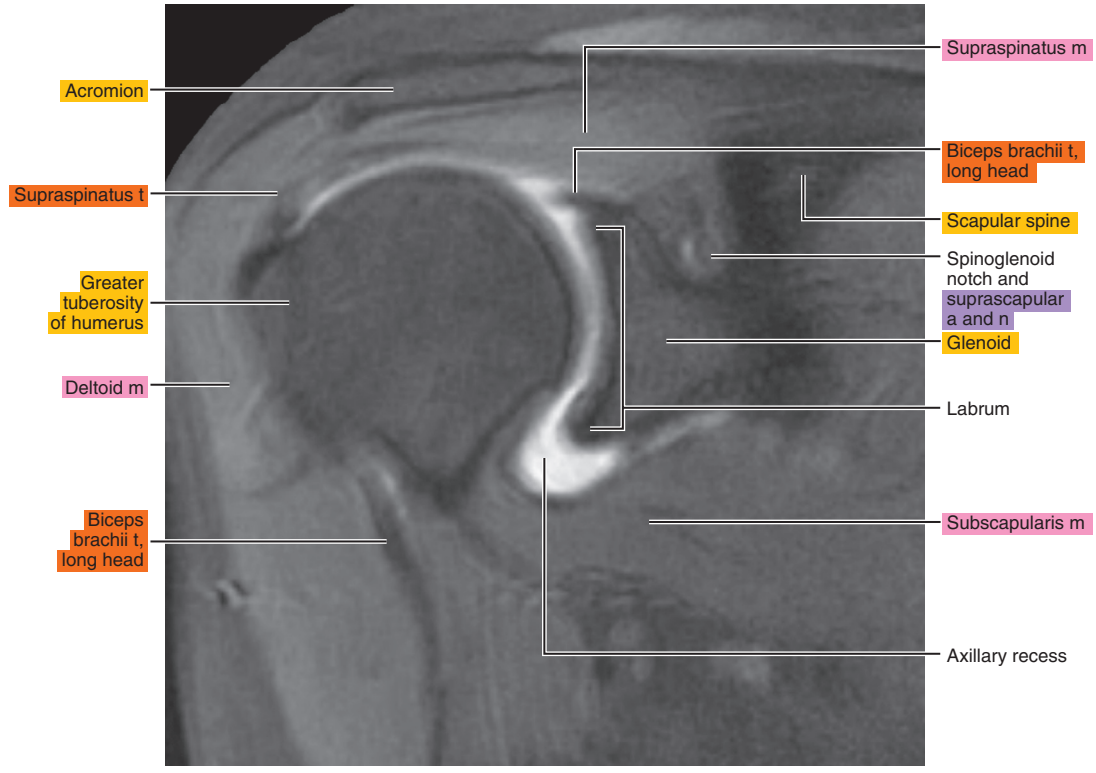

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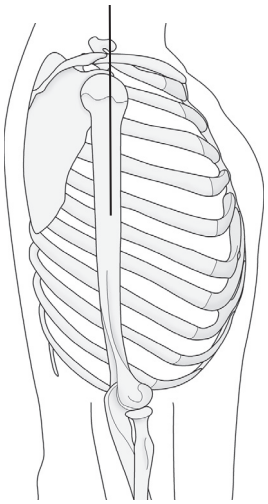

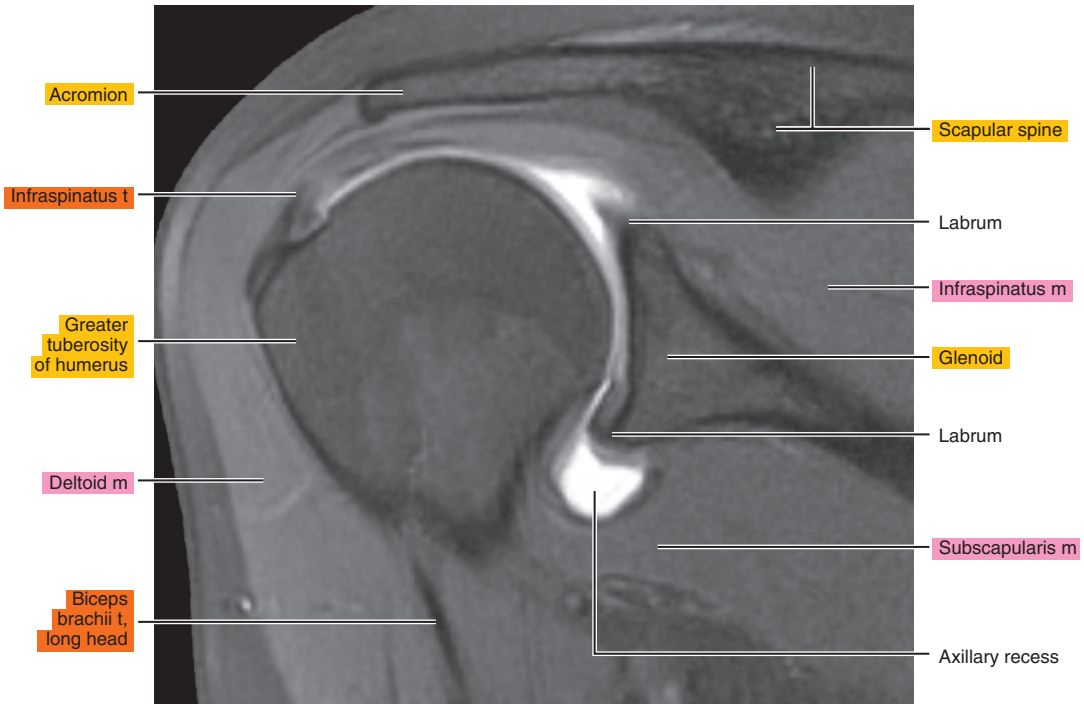

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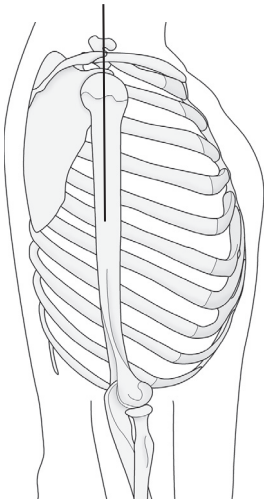

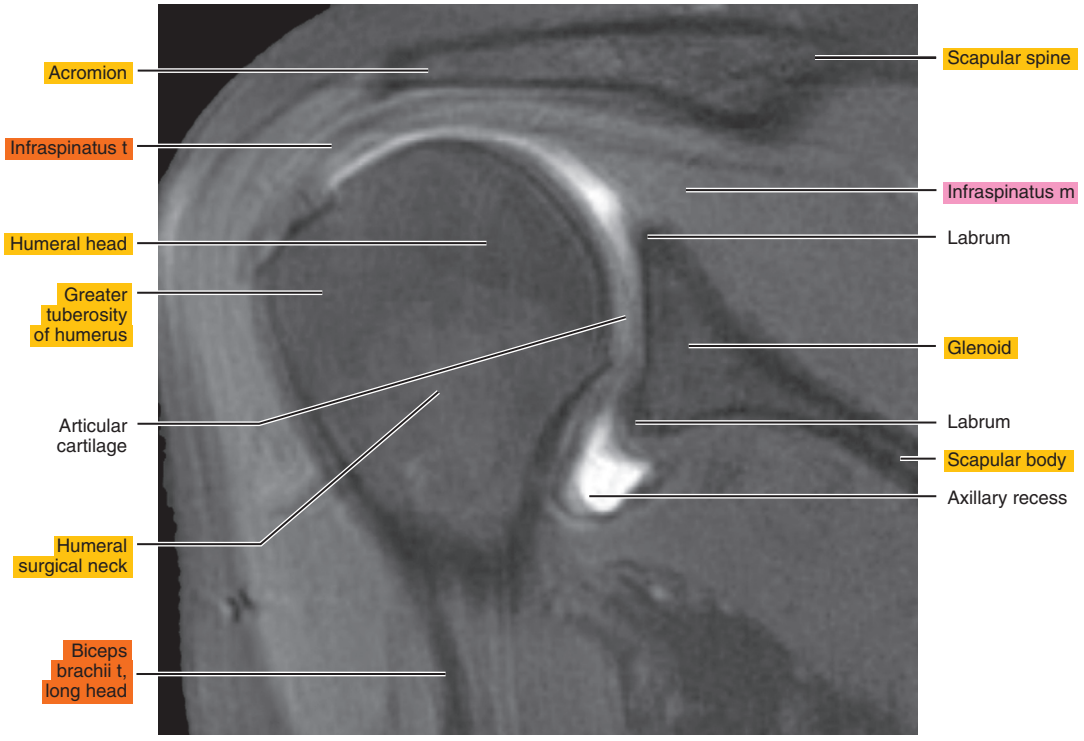

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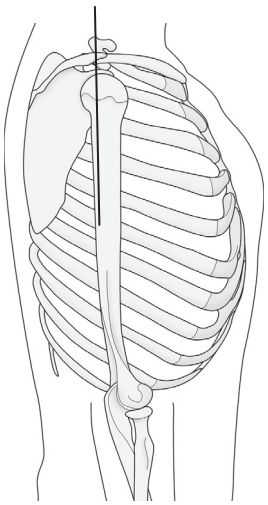

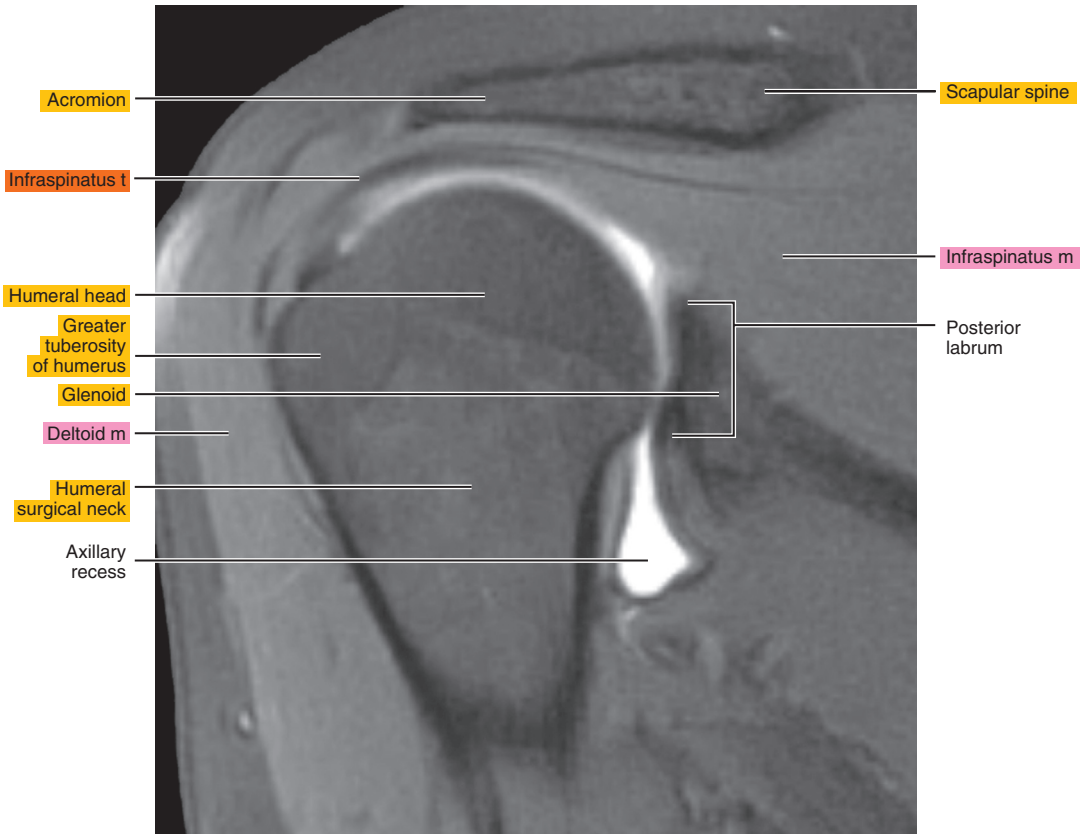

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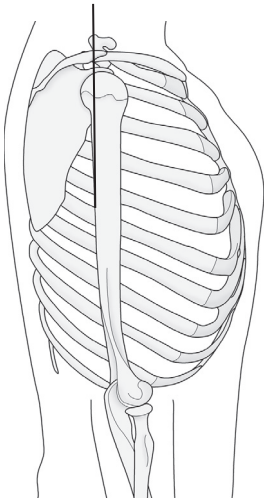

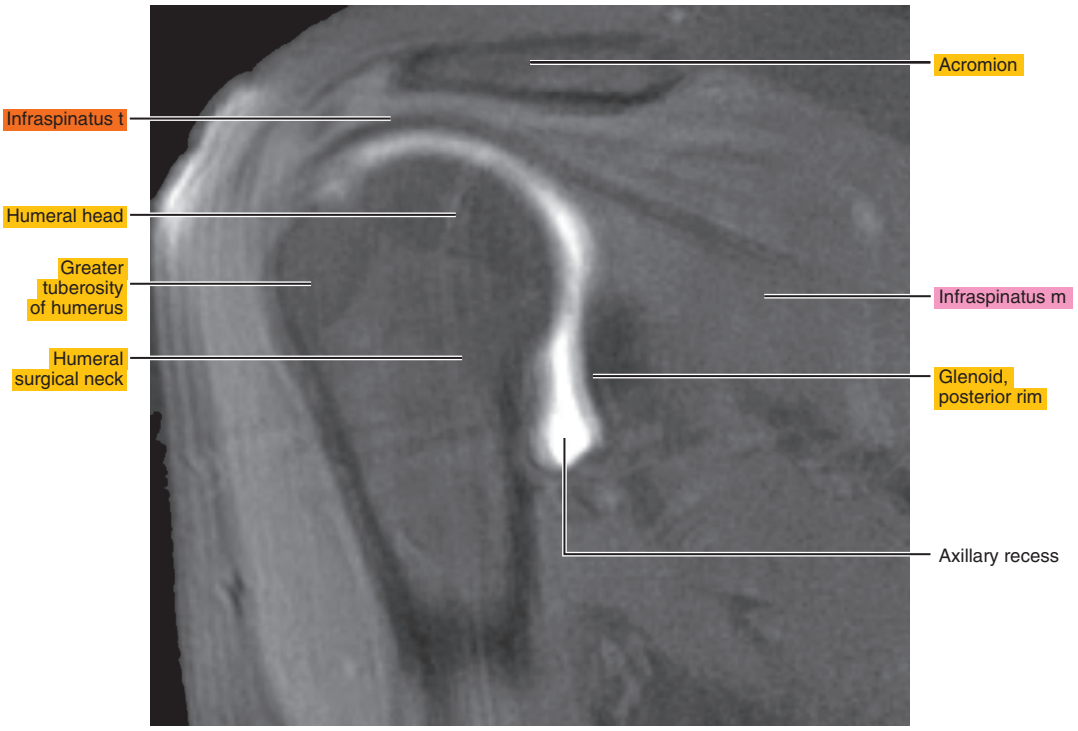

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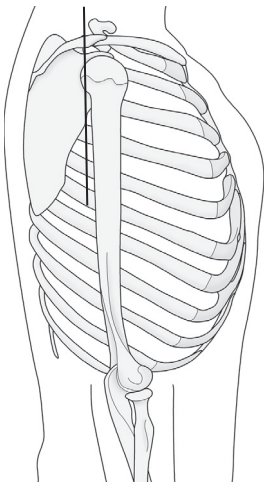

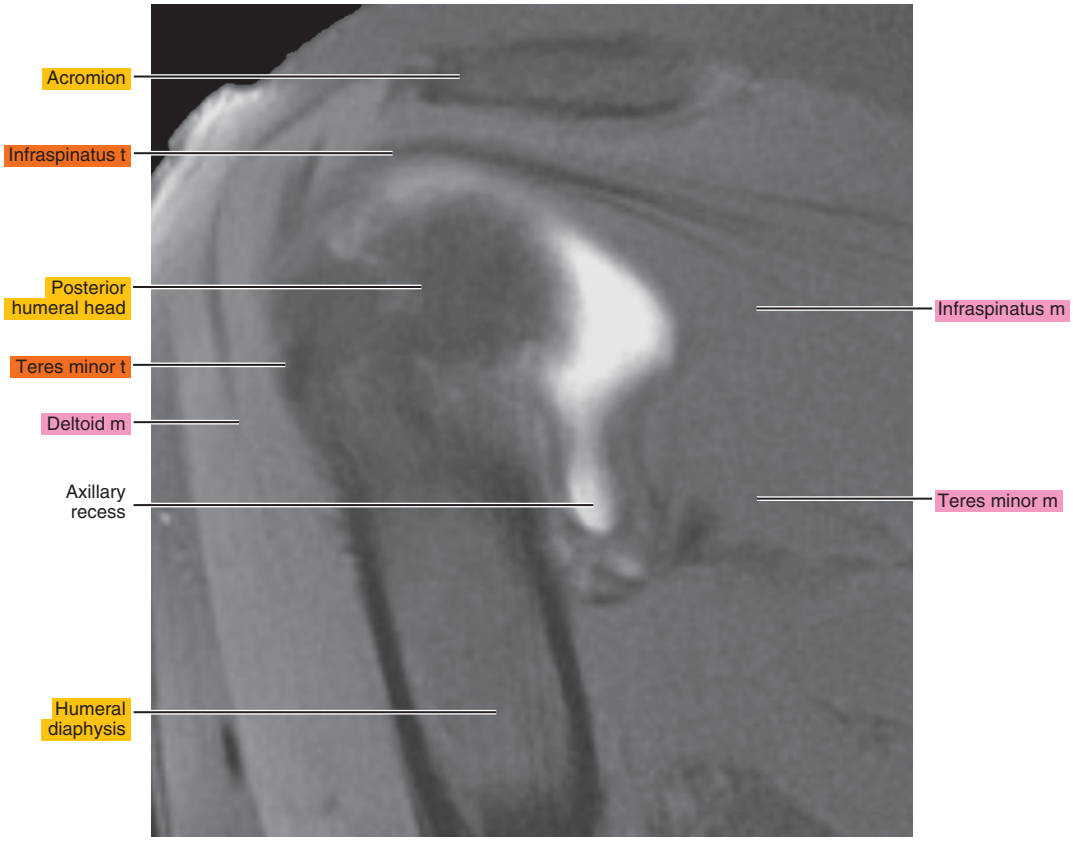

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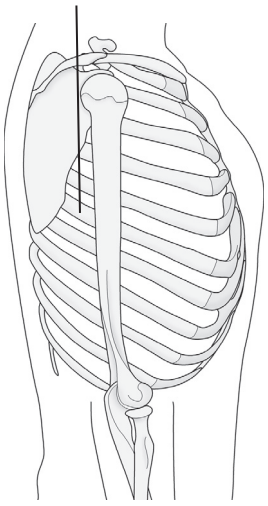
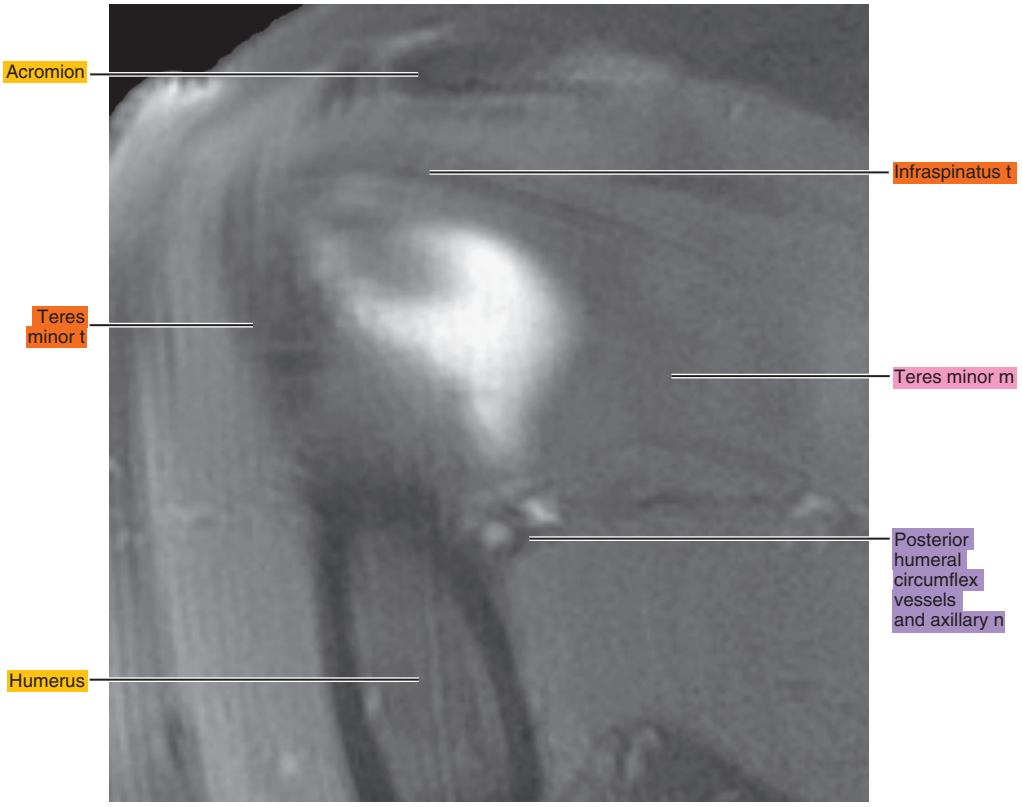
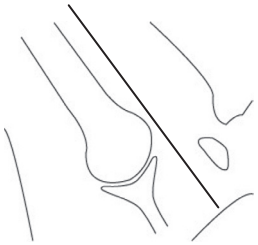
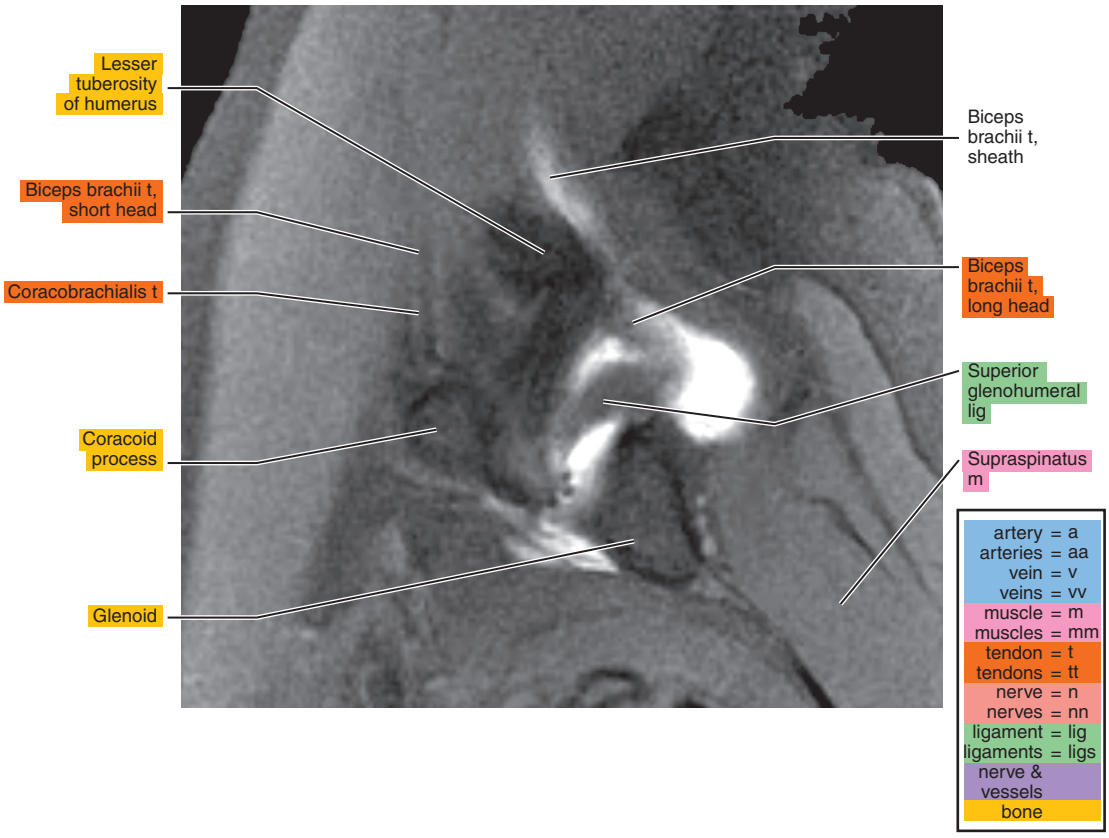




ABER (ABDUCTION AND EXTERNAL ROTATION)

Figure 3.4.1





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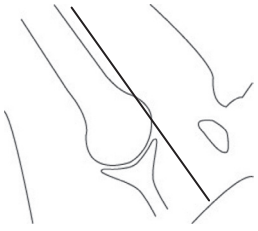

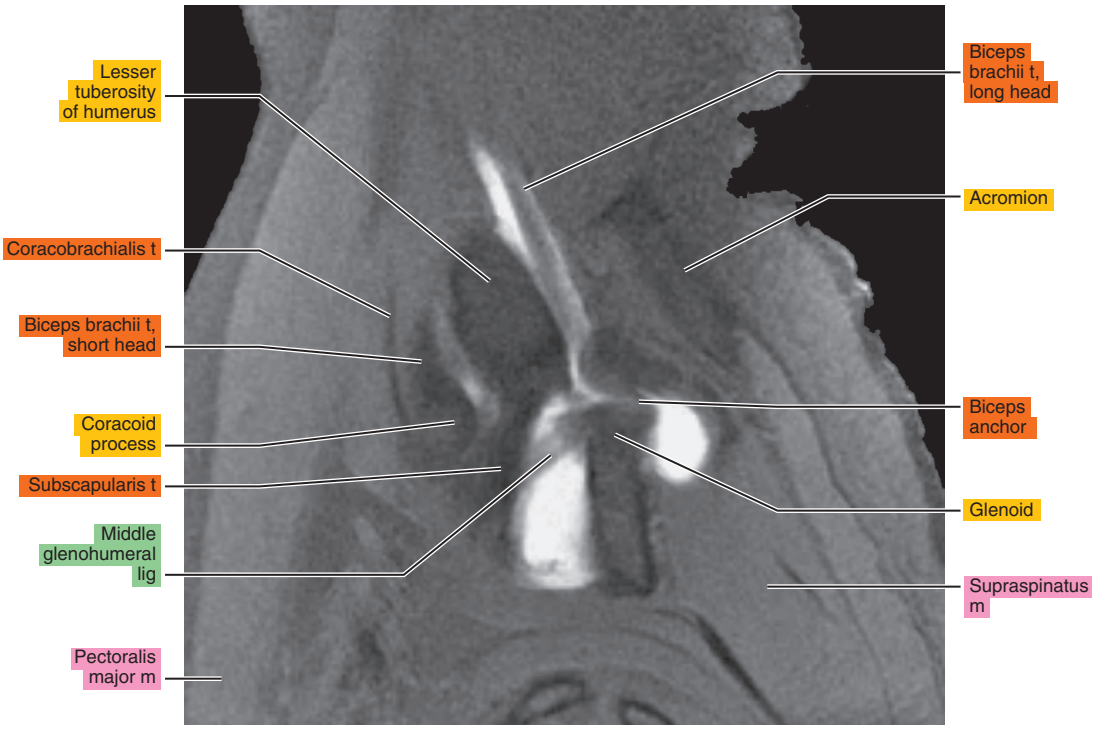

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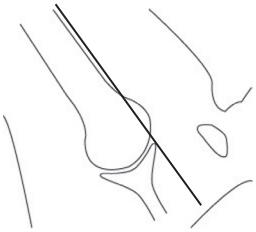

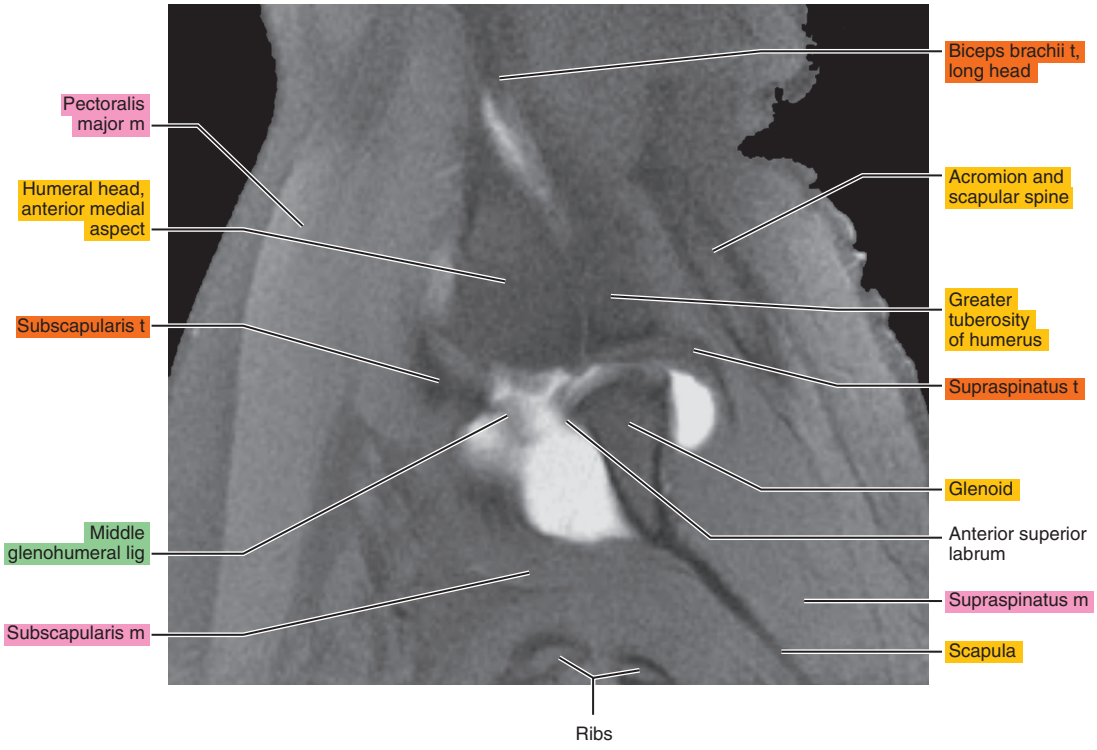

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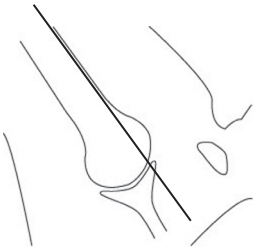

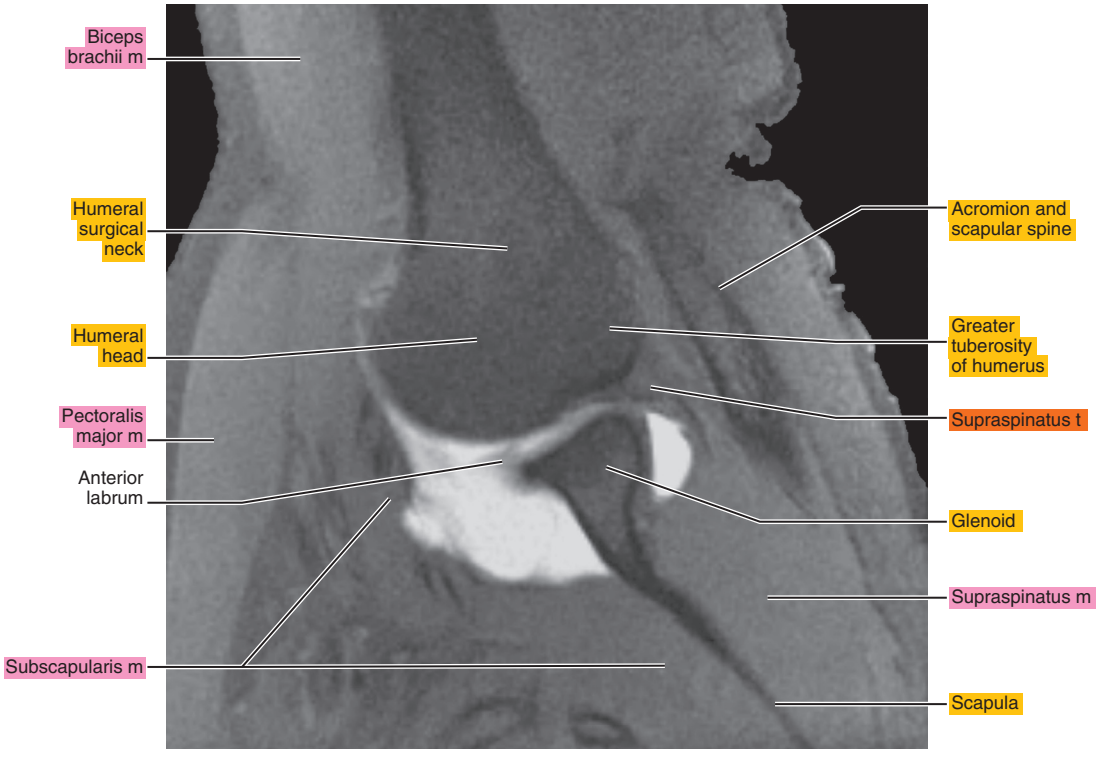

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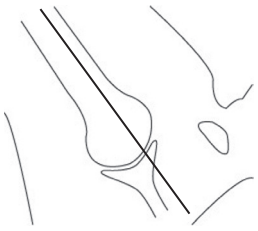

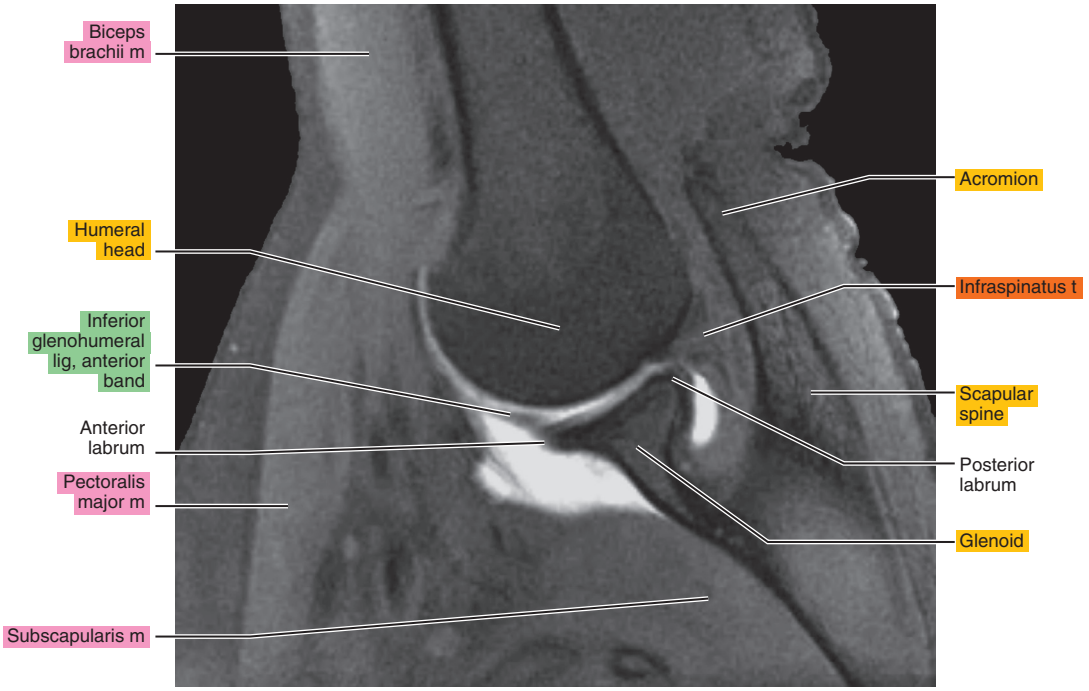

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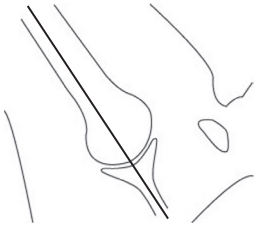


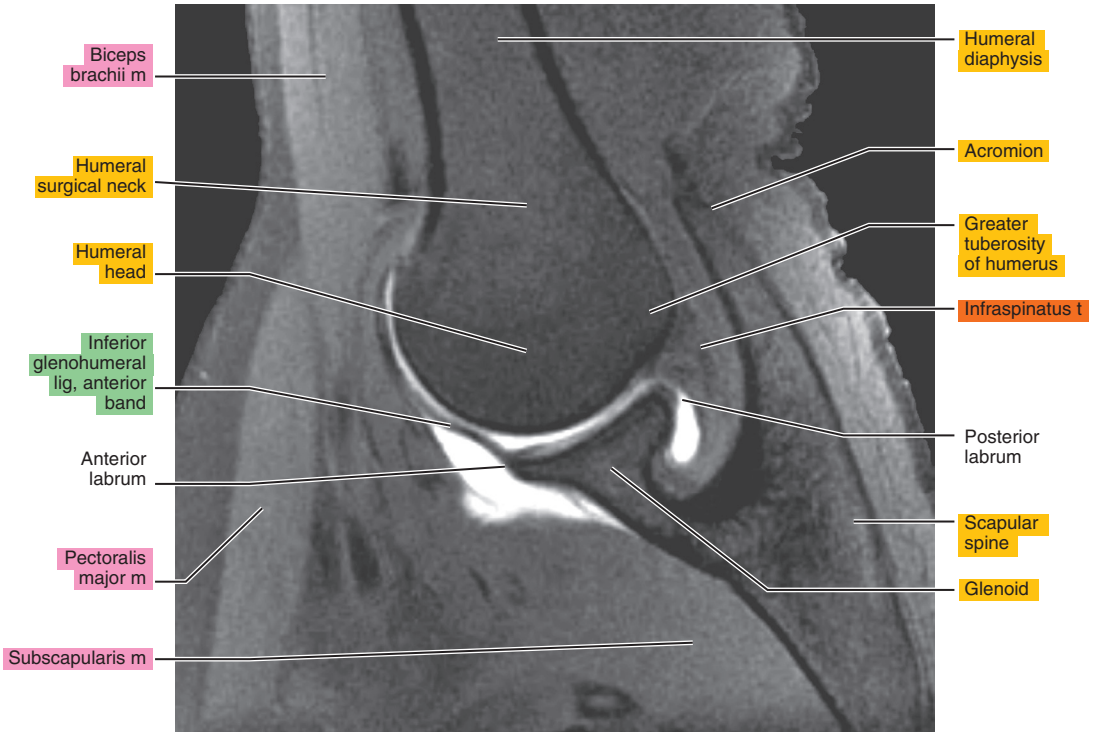
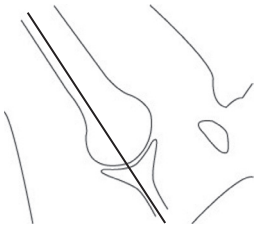


Figure 3.4.7



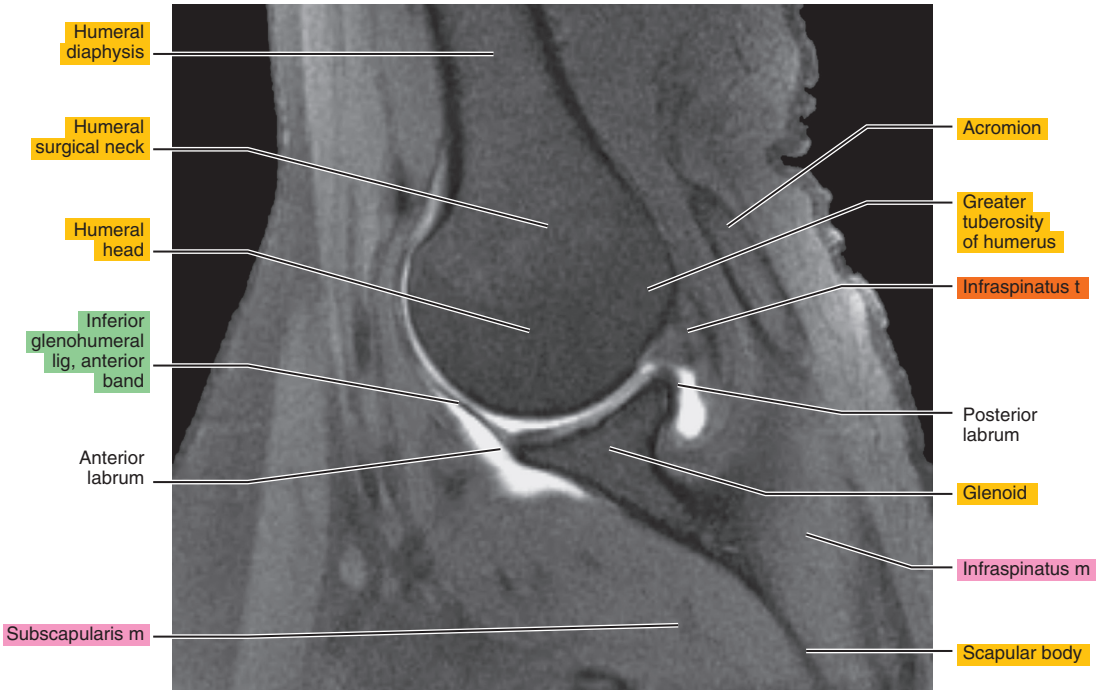
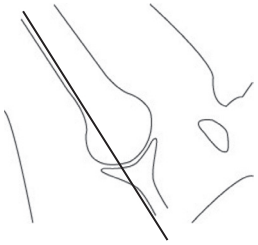


Figure 3.4.8



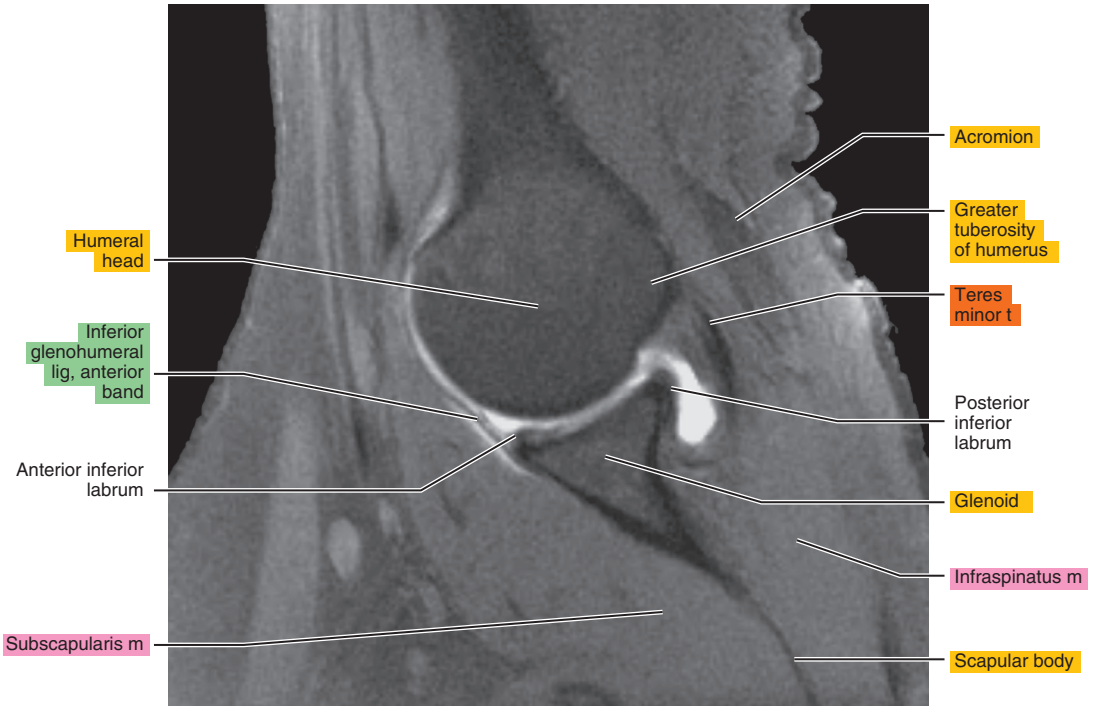
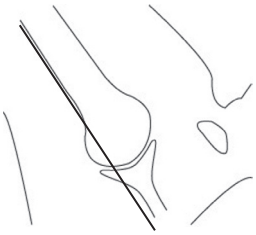
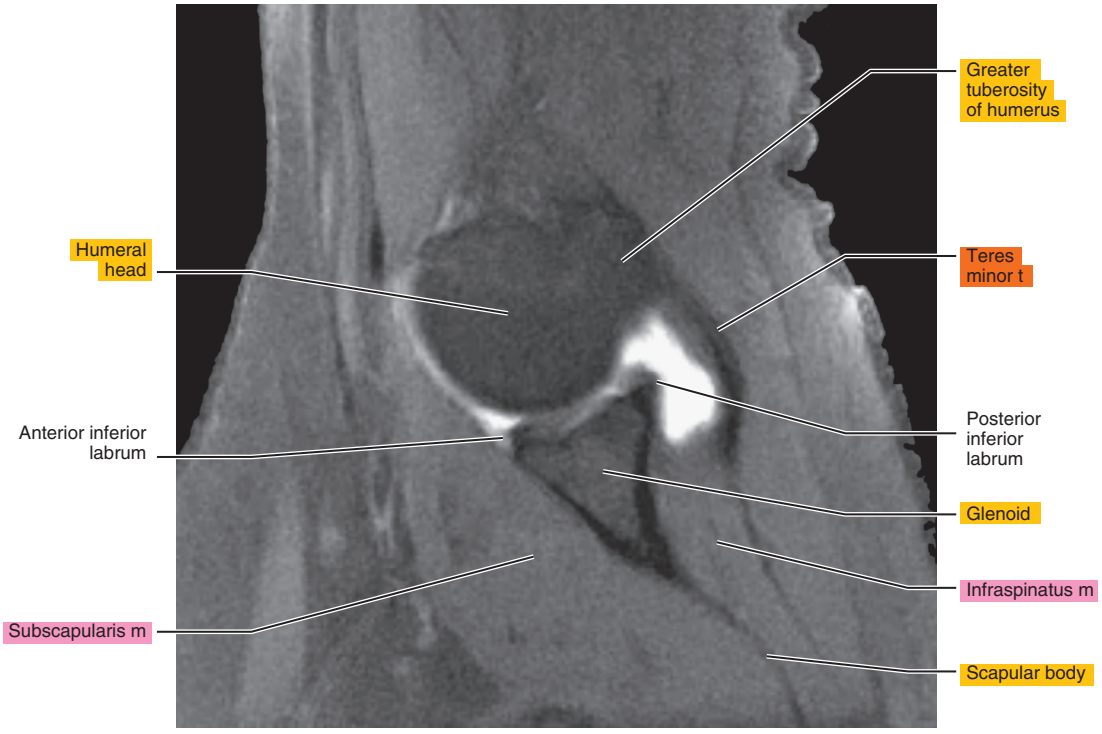


Figure 3.4.9





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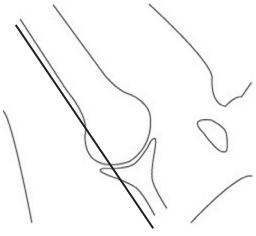

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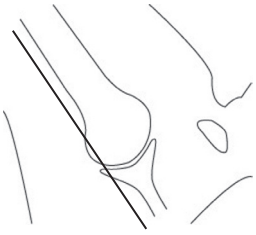
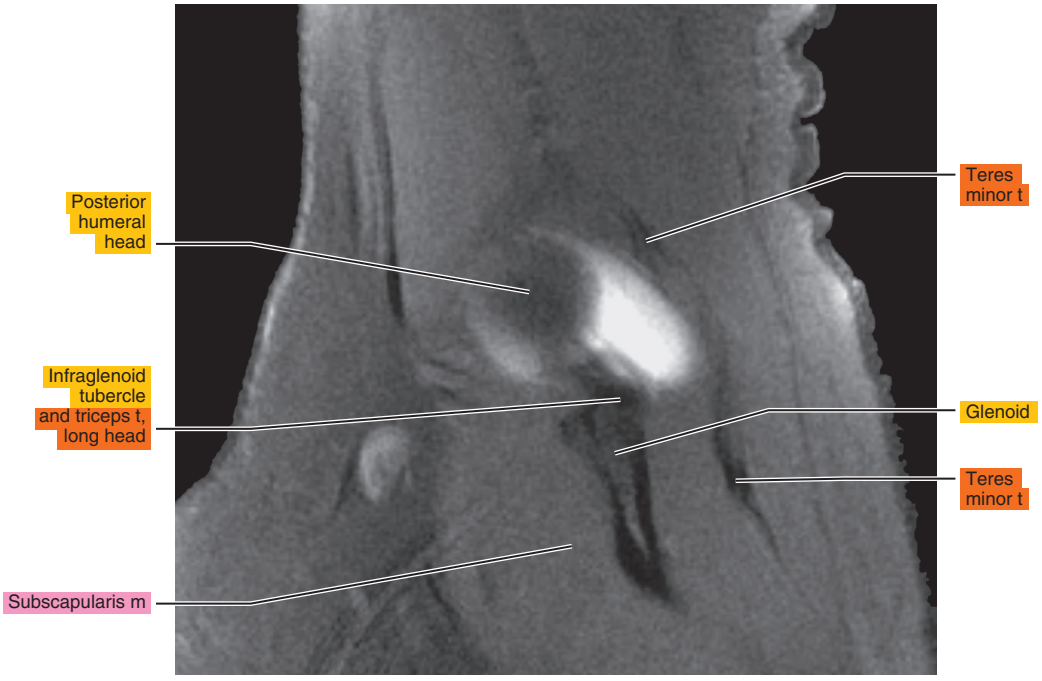



Posterior humeral head
Infraglenoid tubercle and triceps t, long head
Subscapularis m
Teres minor t
Glenoid
Teres minor t

Chapter 4

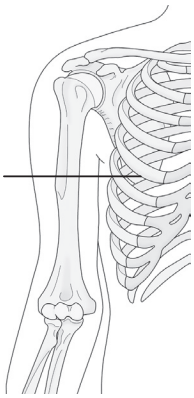
MRI of the Arm

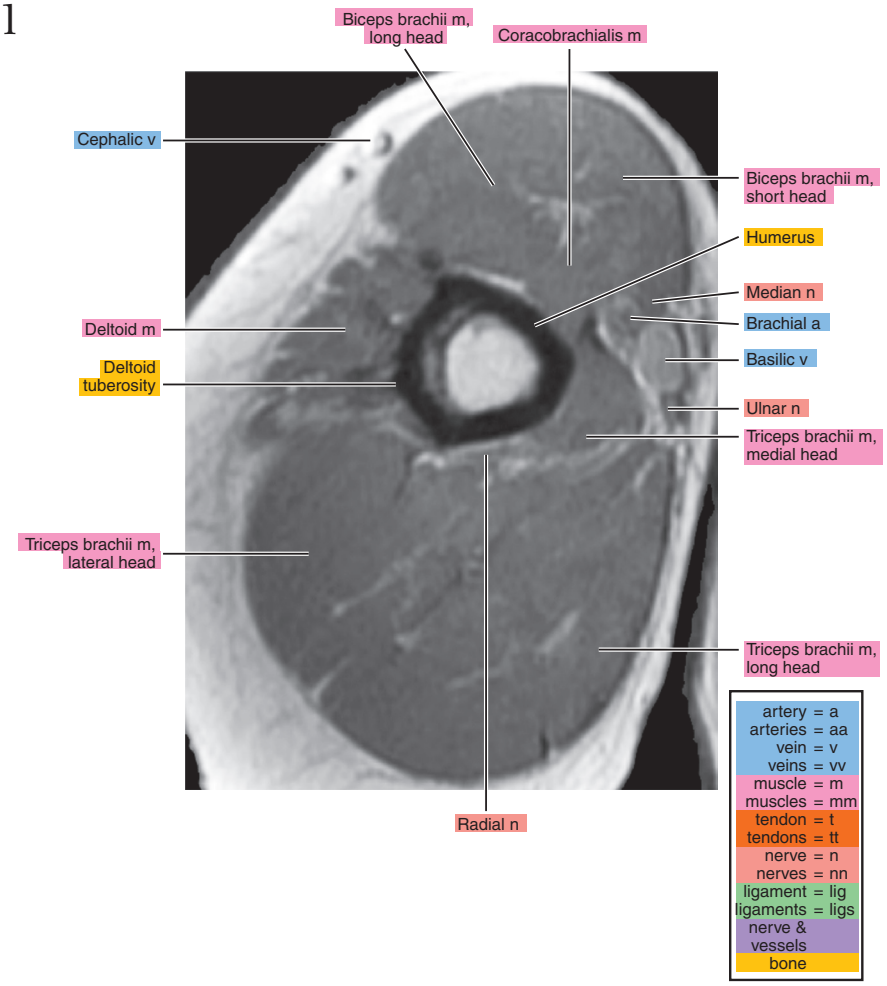
Table 4-1. Muscles of the Upper Arm

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Coracobrachialis	Coracoid process	Shaft of the humerus above the middle of the bone	Musculocutaneous (C5, C6, C7)
Biceps brachii	Short head, coracoid process; long head, supraglenoid tubercle; superior part of glenoid labrum	Tuberosity of the radius and by aponeurotic expansion to the fascia on the ulnar side of the forearm	Musculocutaneous (C5, C6)
Brachialis	Distal half of anterior surface of humerus	Coronoid process and tuberosity of the ulna	Musculocutaneous (C5, C6)
Triceps	Long head, infraglenoid tuberosity of the scapula; lateral head, from the posterior surface of the humerus; medial head, from the posterior surface of the humerus below the radial groove and dorsal surfaces of the medial and lateral intermuscular septa	Primary tendon inserts onto the olecranon process of the ulna and laterally, by expansion over the anconeus, into the dorsal fascia of the forearm	Radial (C6, C7, C8)

AXIAL

Figure 4.1.1





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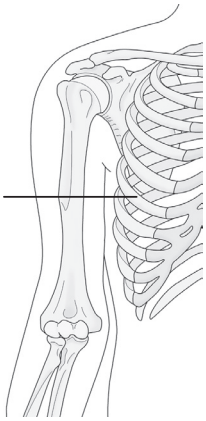

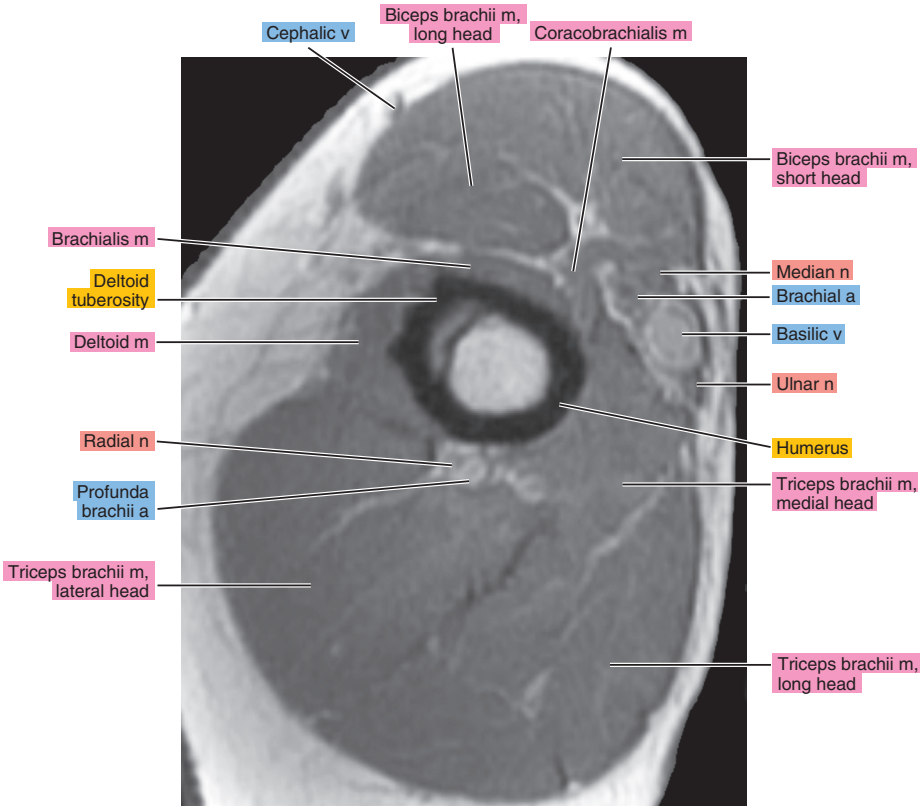

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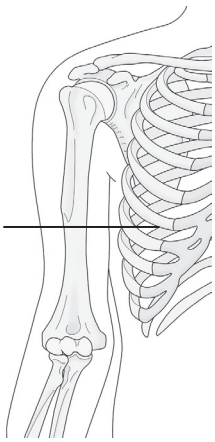

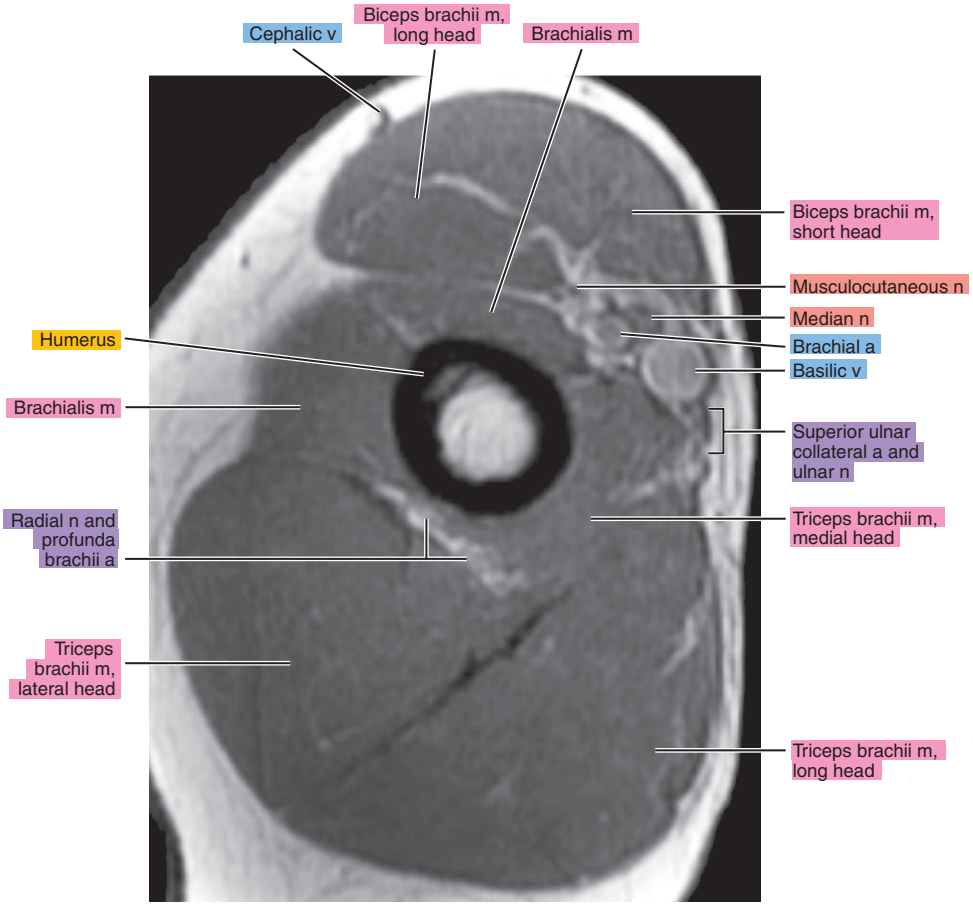

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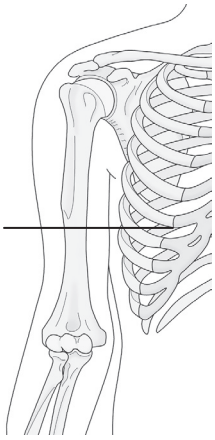

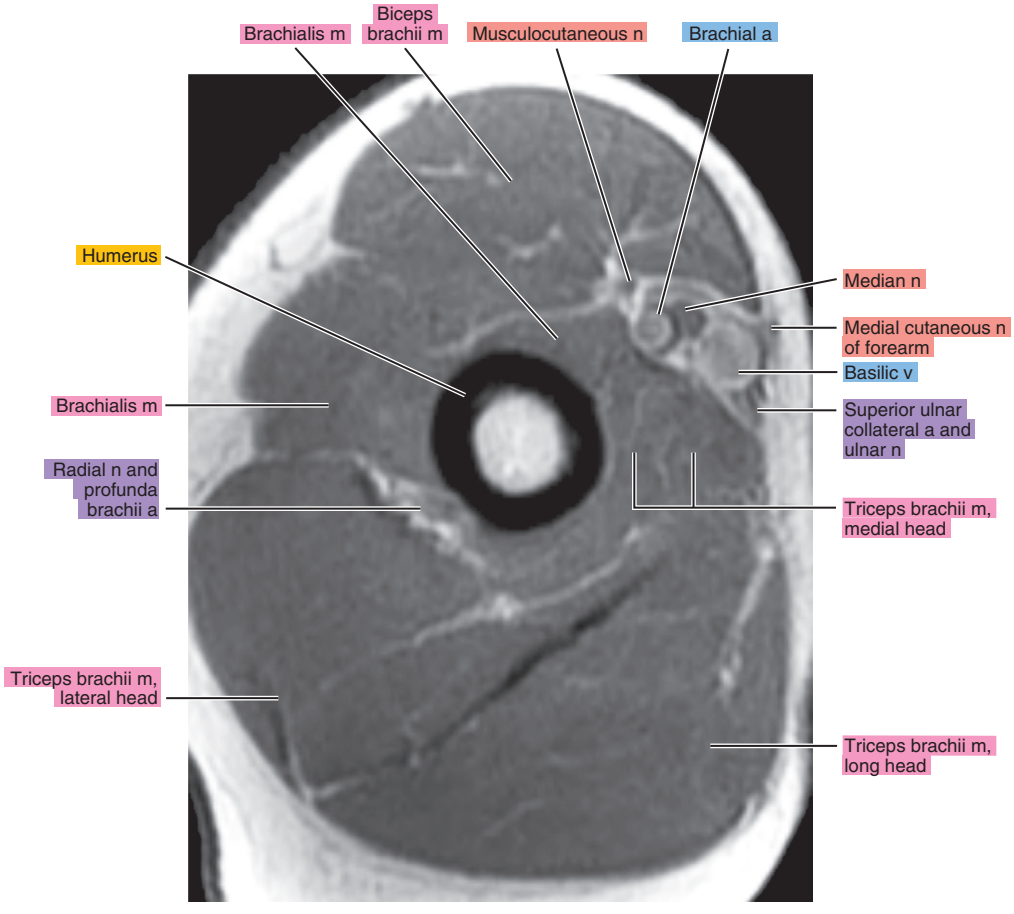

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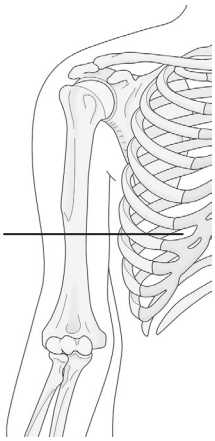

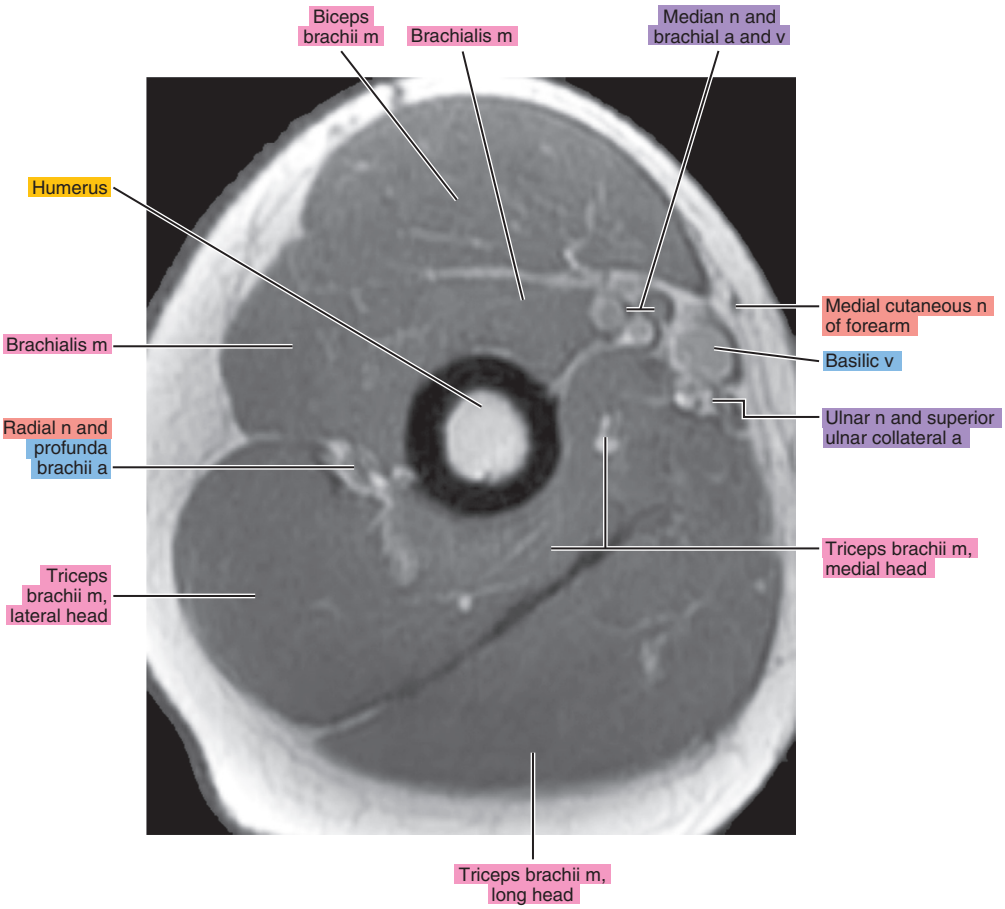

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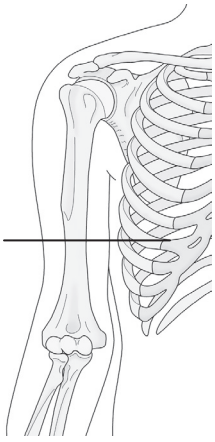

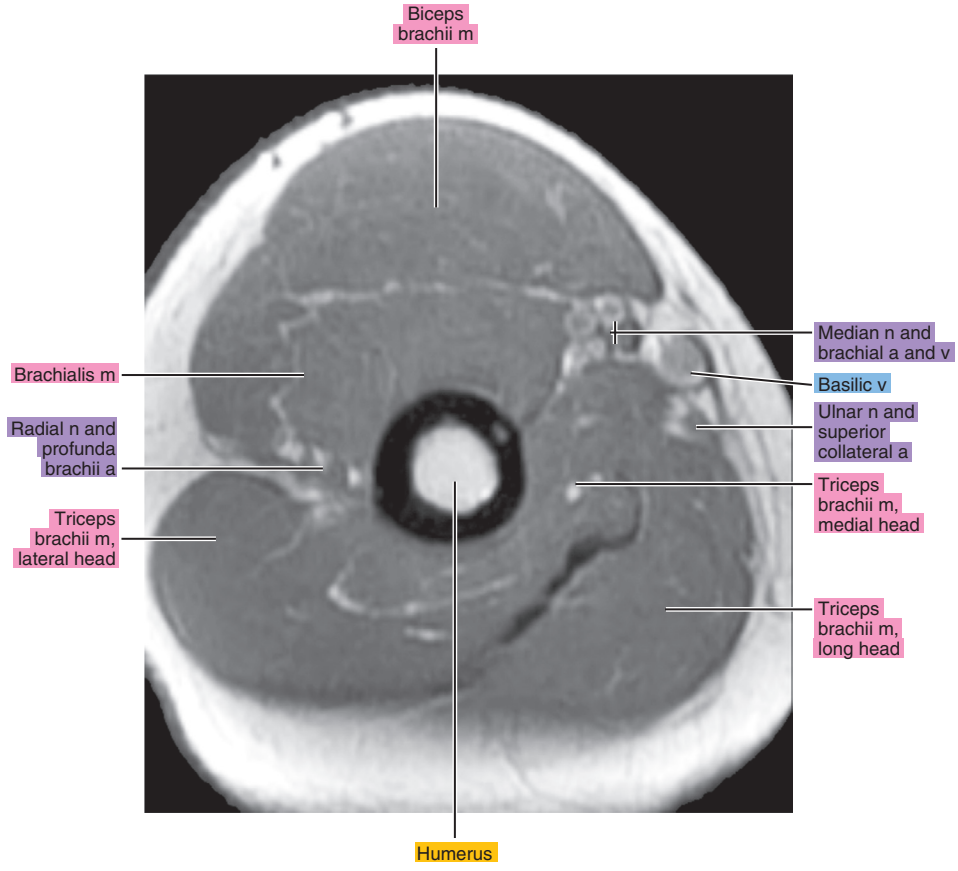

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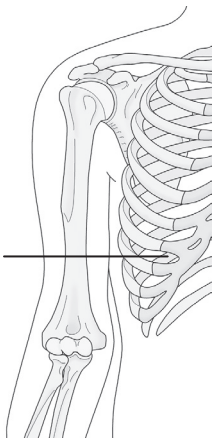

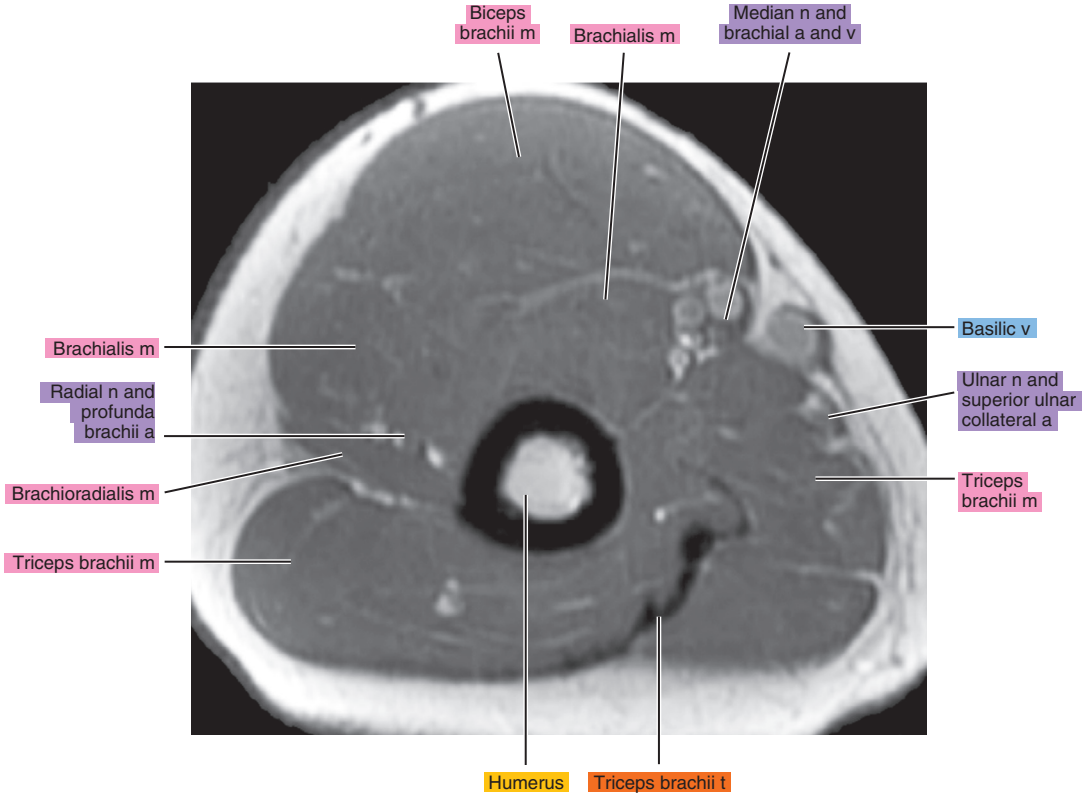

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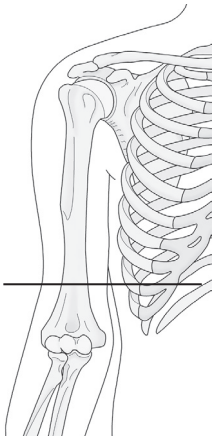

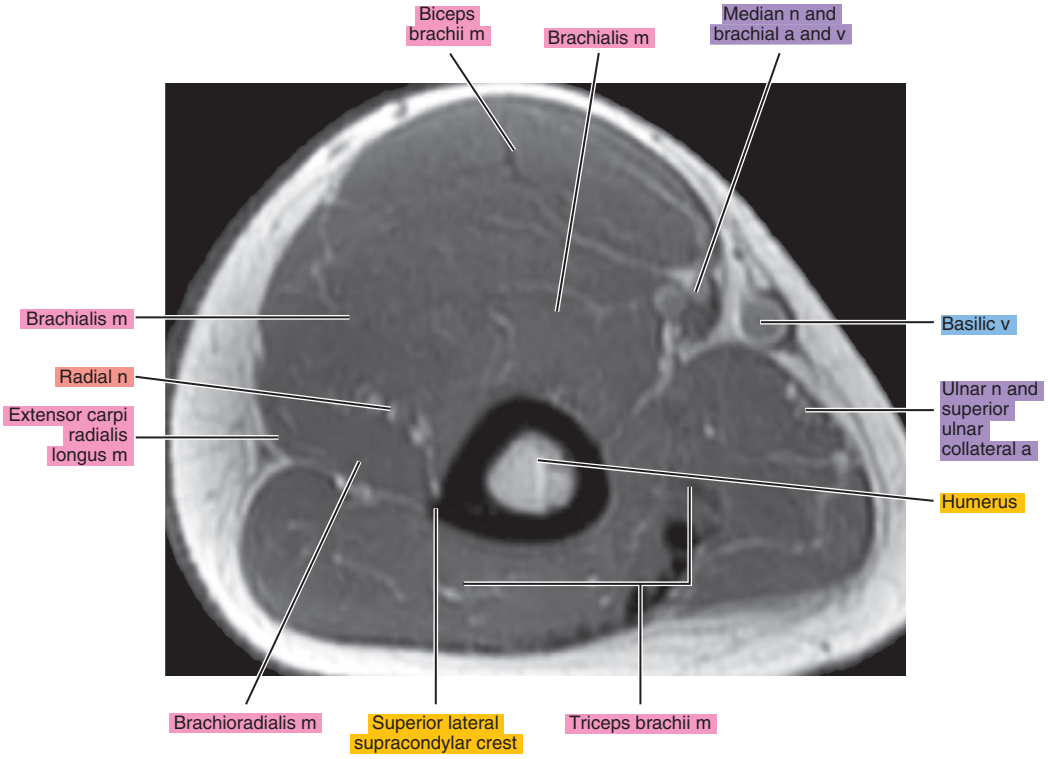

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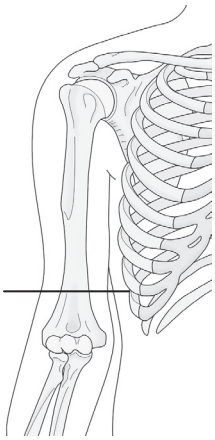

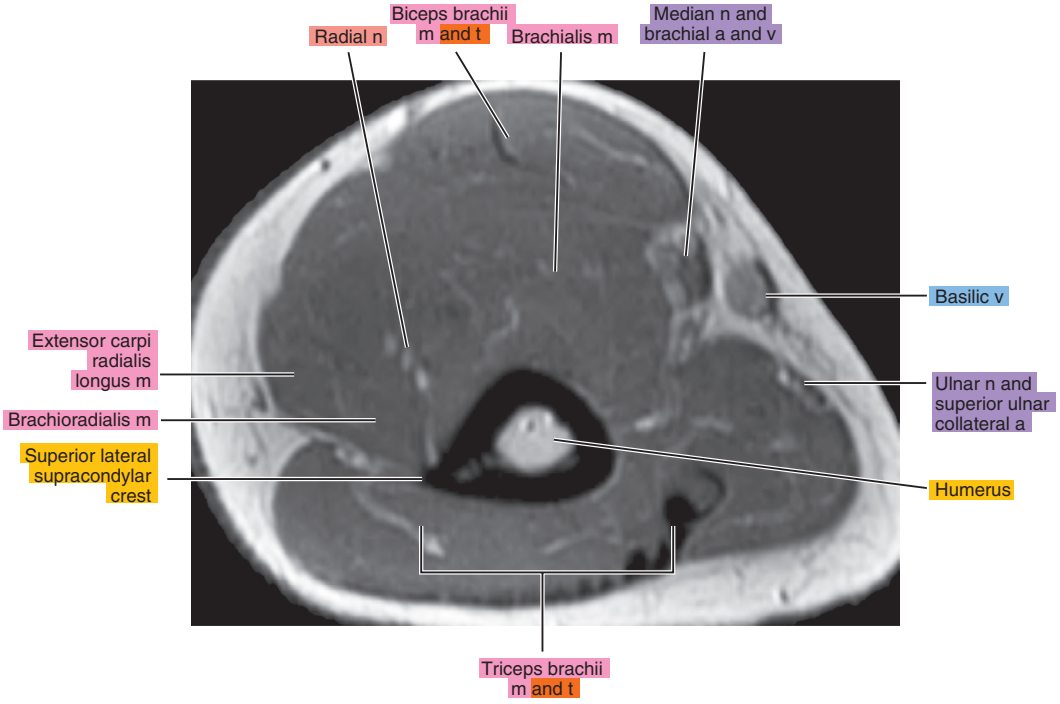

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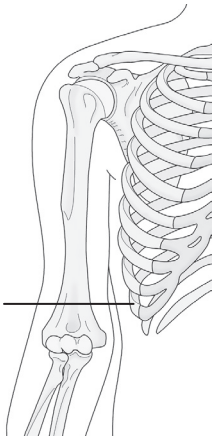

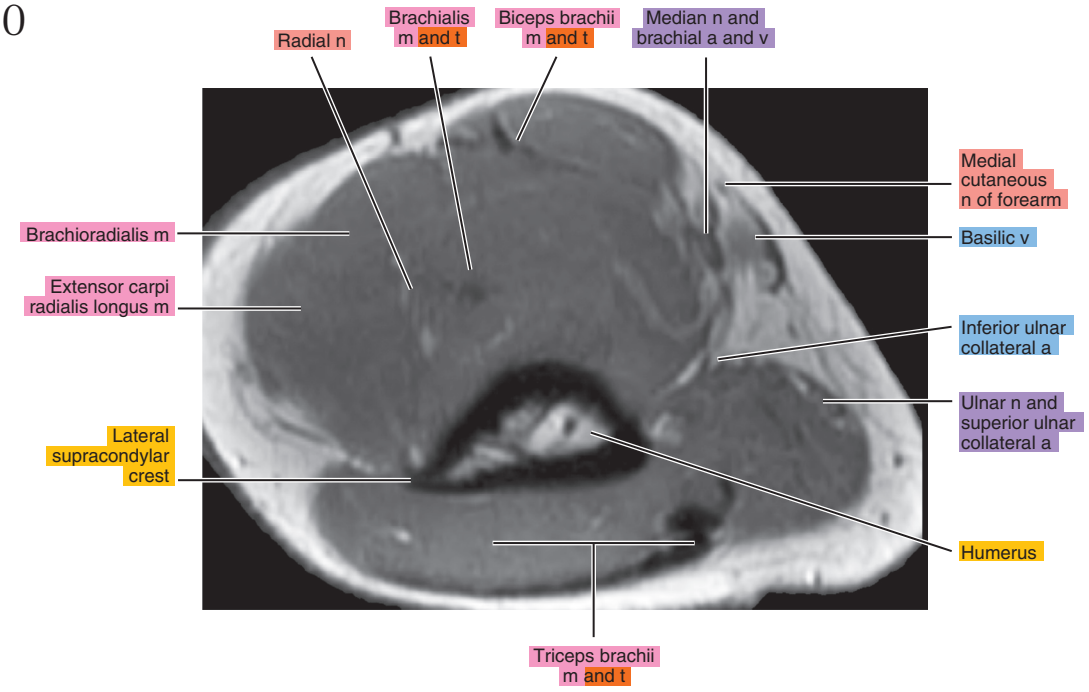

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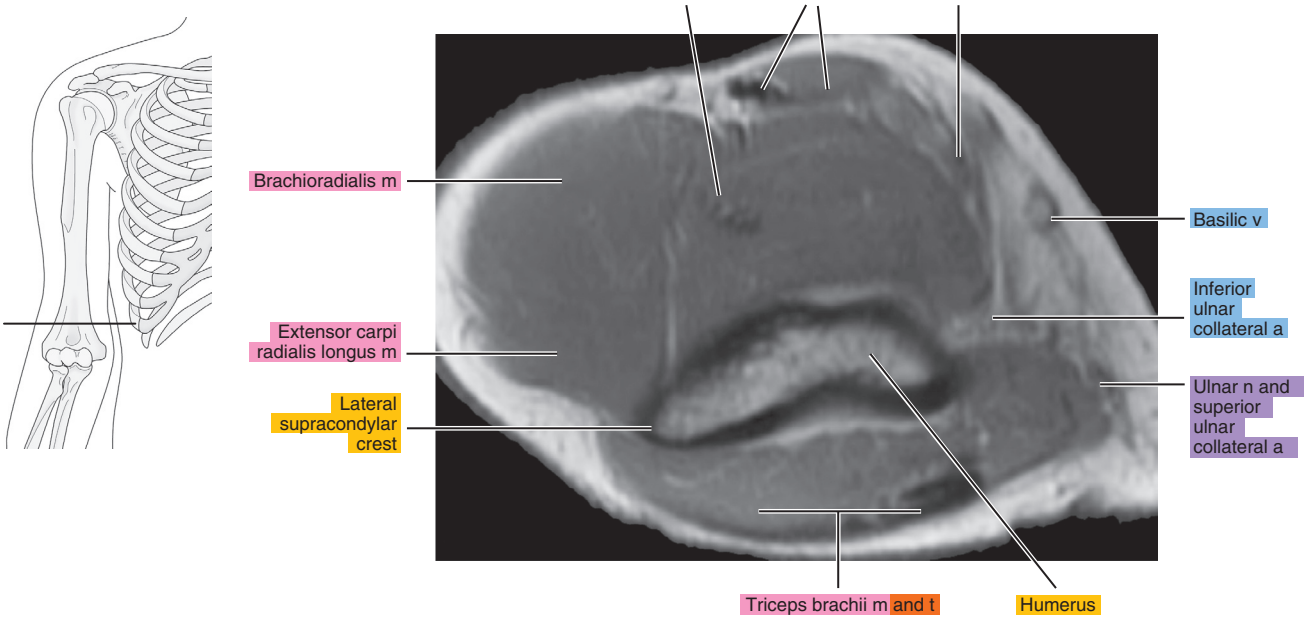
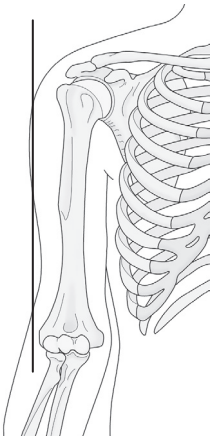

Brachialis m and t
Biceps brachii m and t
Median n and brachial a and v
Brachioradialis m
Basilic v
Inferior ulnar collateral a
Extensor carpi radialis longus m
Ulnar n and superior ulnar collateral a
Lateral supracondylar crest
Triceps brachii m and t
Humerus

SAGITTAL

Figure 4.2.1



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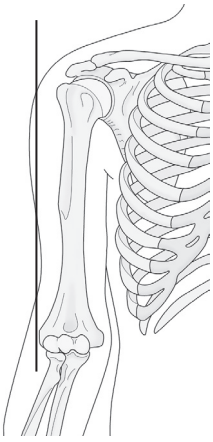
arteries	= aa
vein	= v
veins	= vv
muscle	= m
muscles	= mm
tendon	= t
tendons	= tt
nerve	= n
nerves	= nn
ligament	= lig
ligaments	= ligs
nerve & vessels	
bone	

Figure 4.2.2



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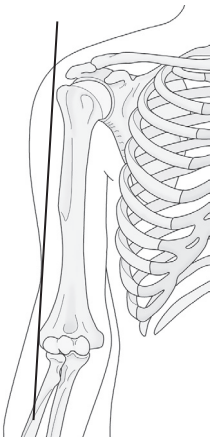

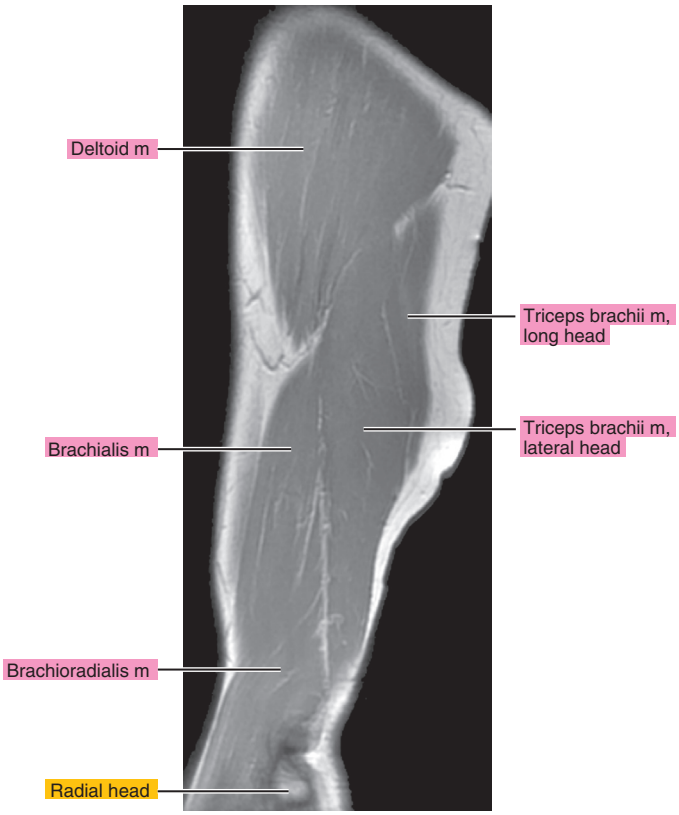

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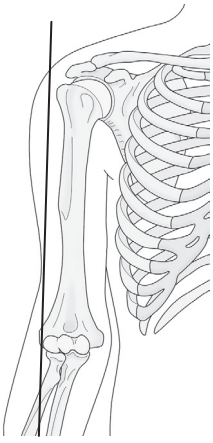

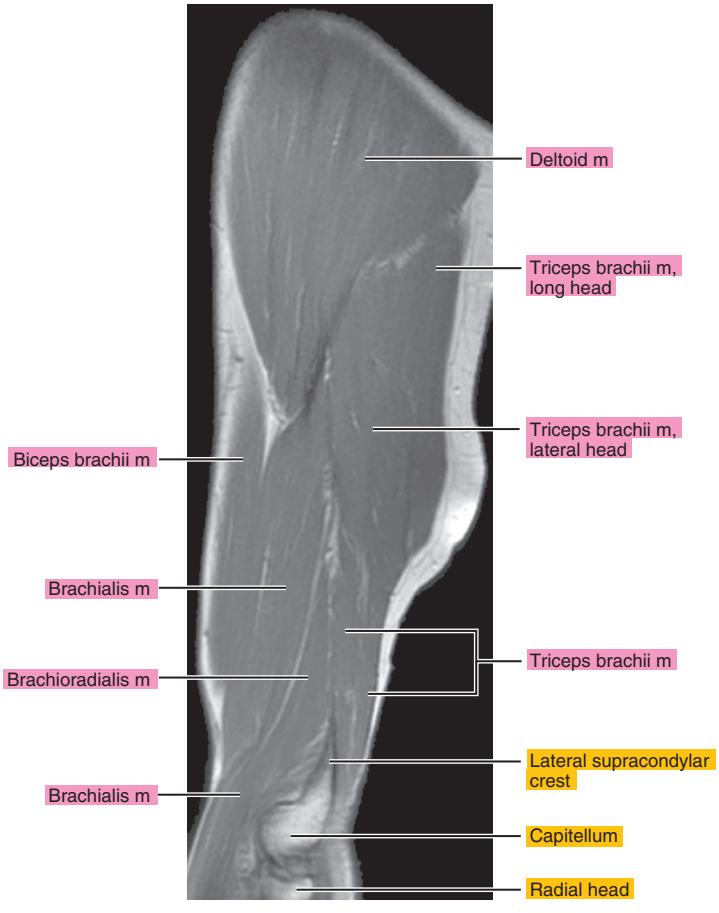

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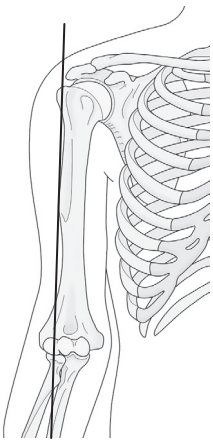

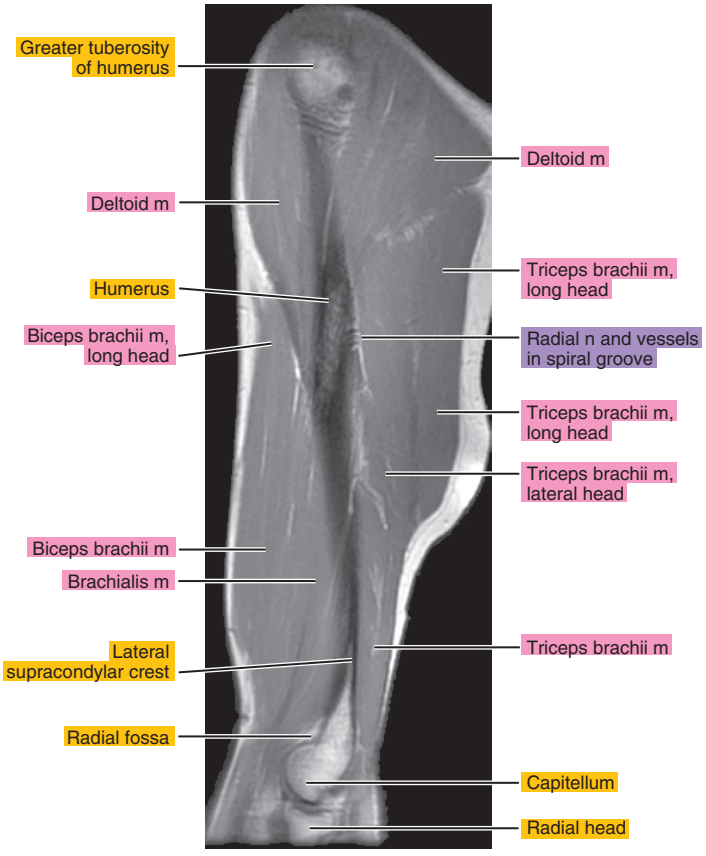

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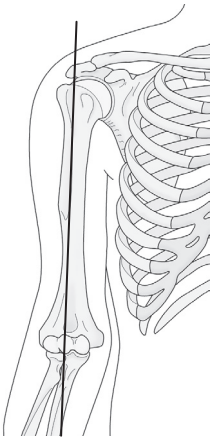

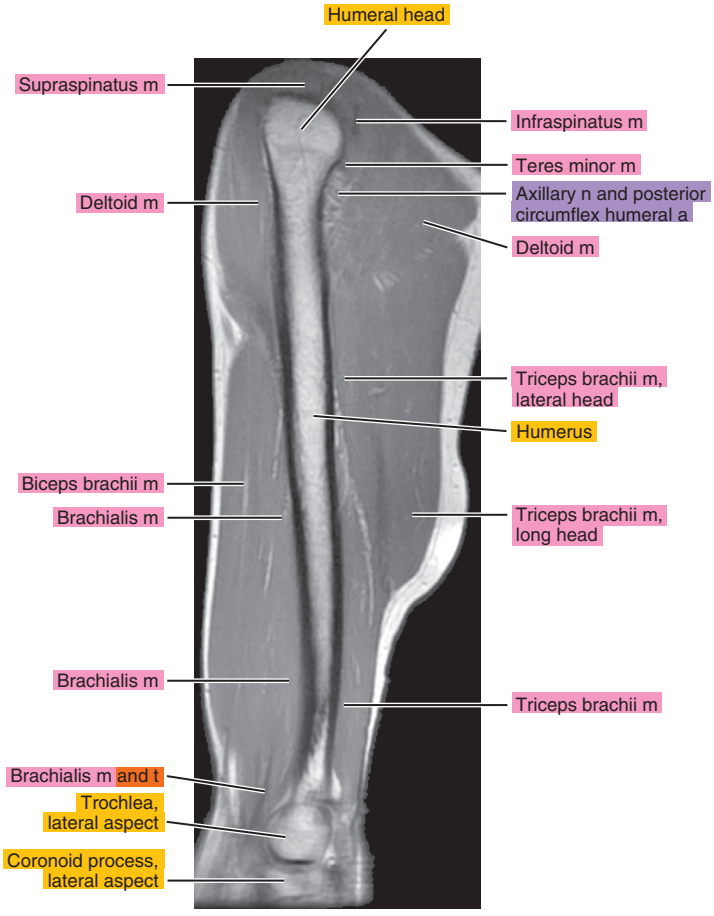

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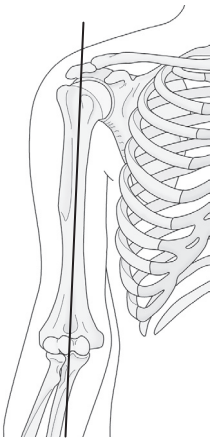

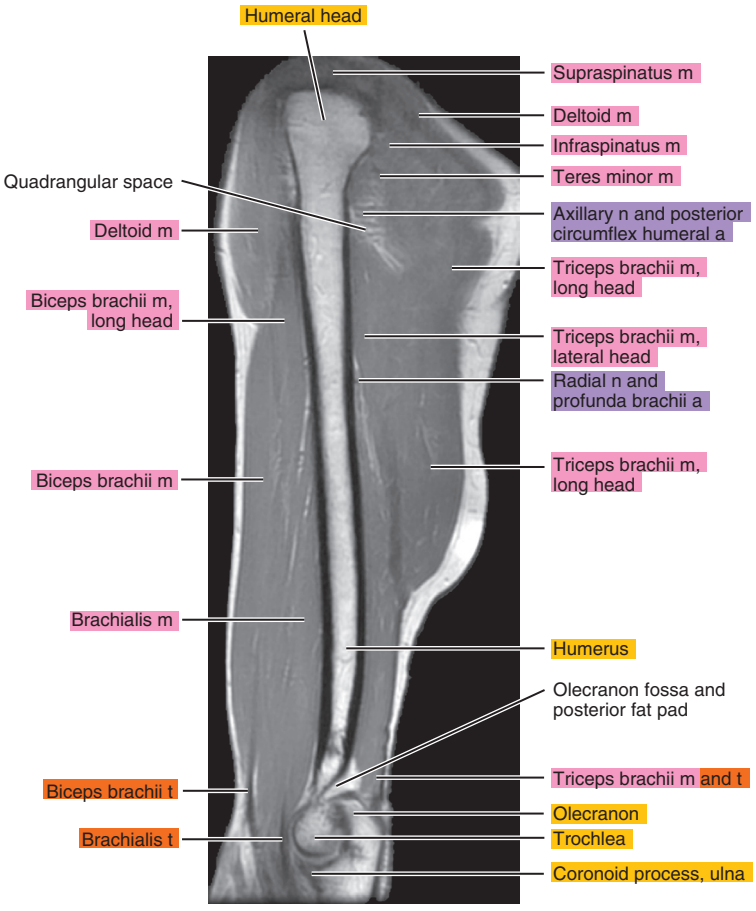

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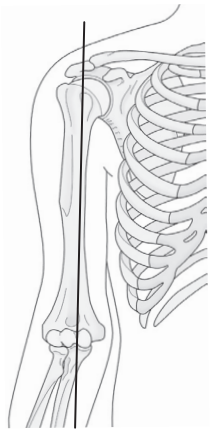

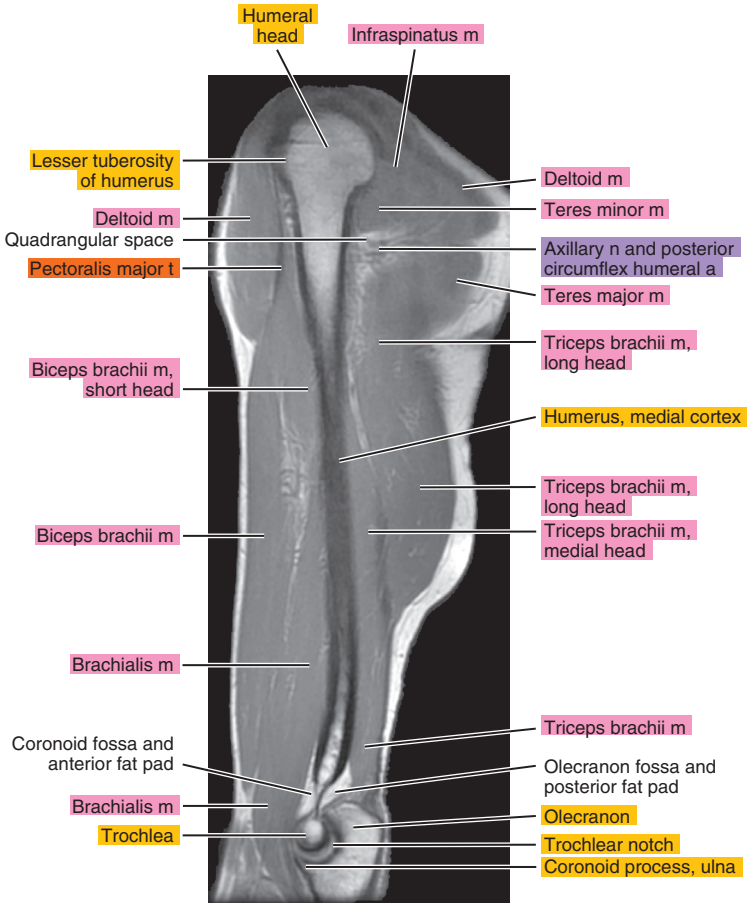

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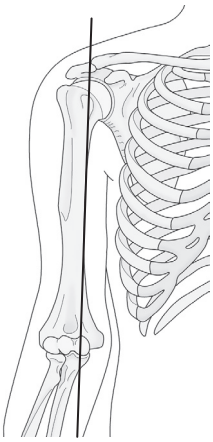

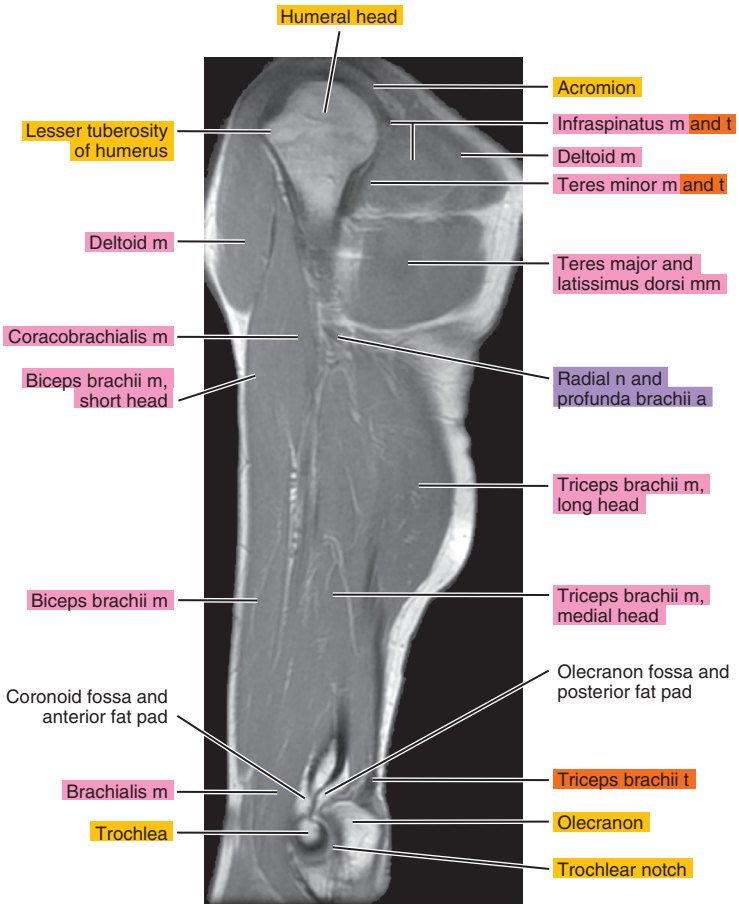

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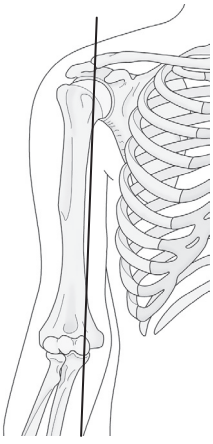

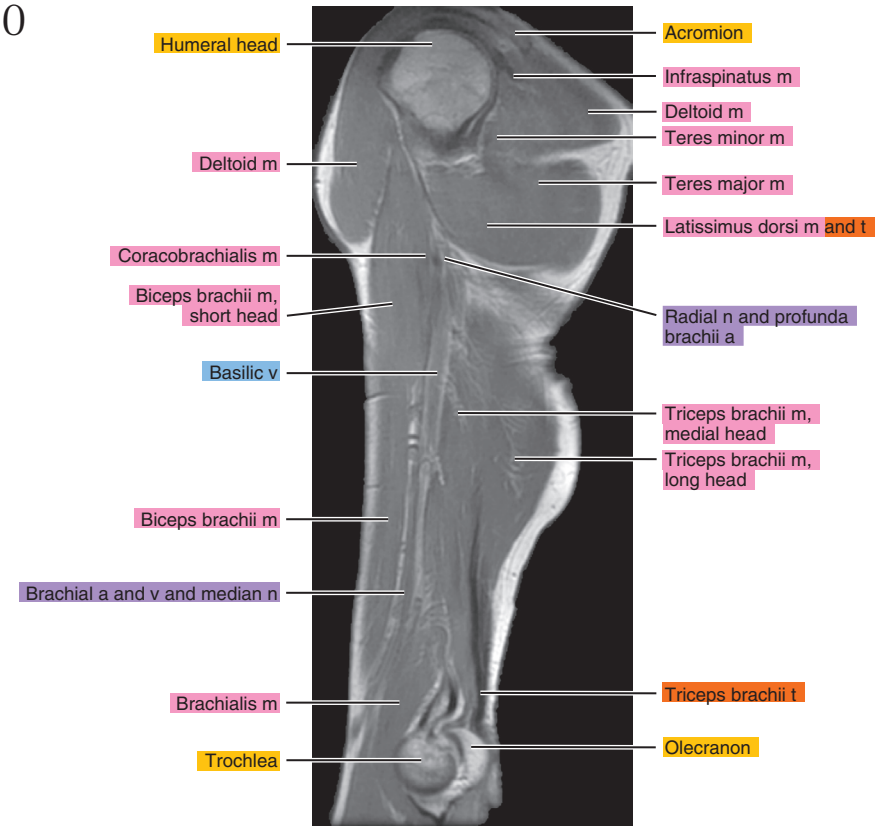

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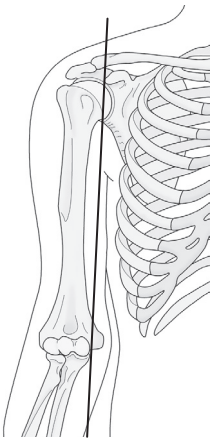


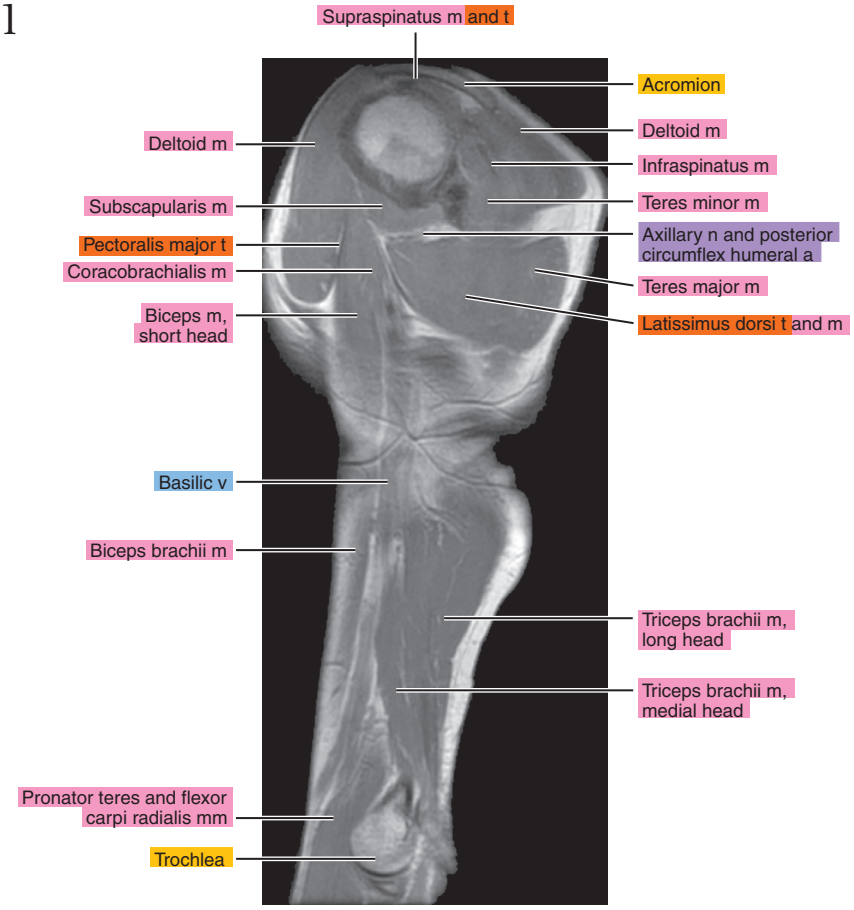
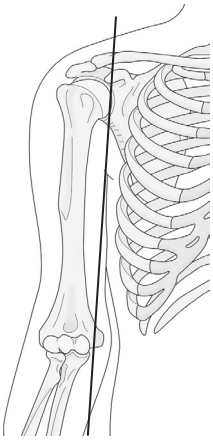
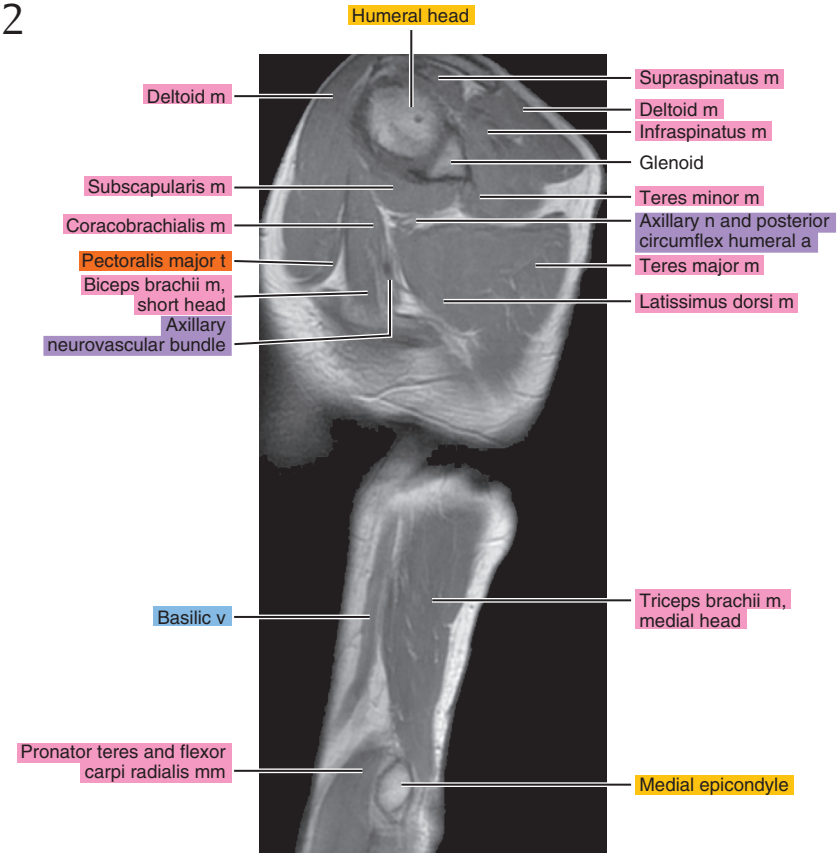


Figure 4.2.12





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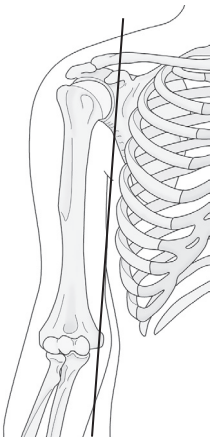
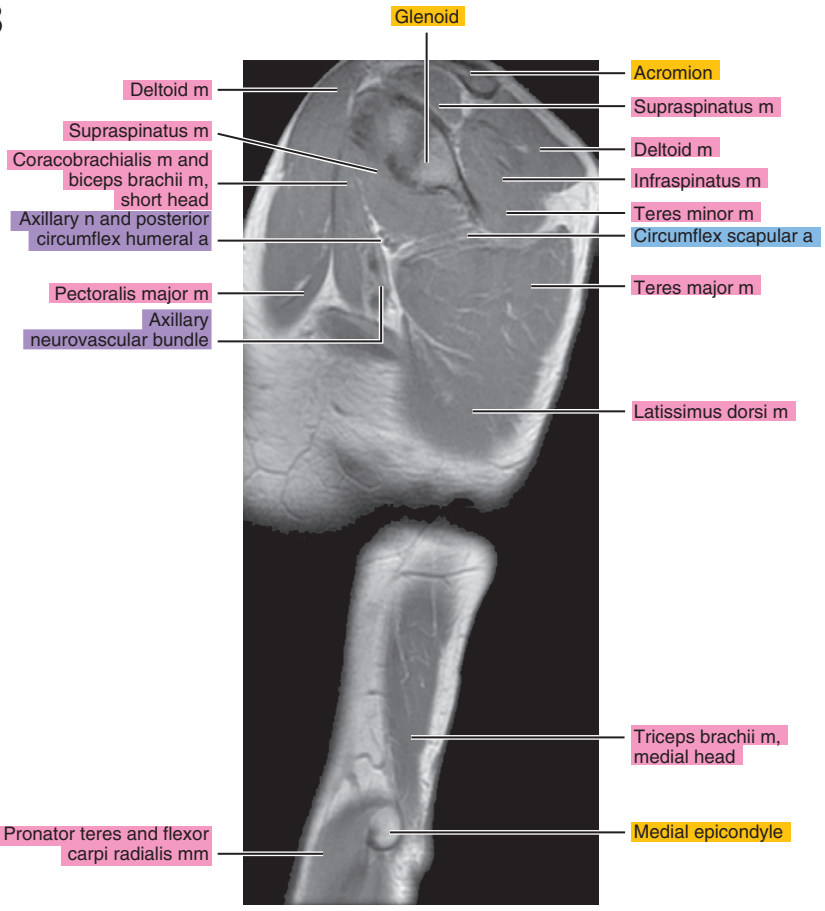
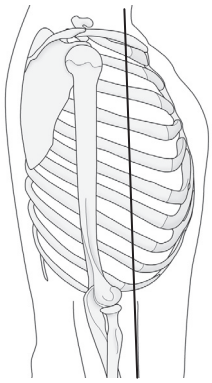
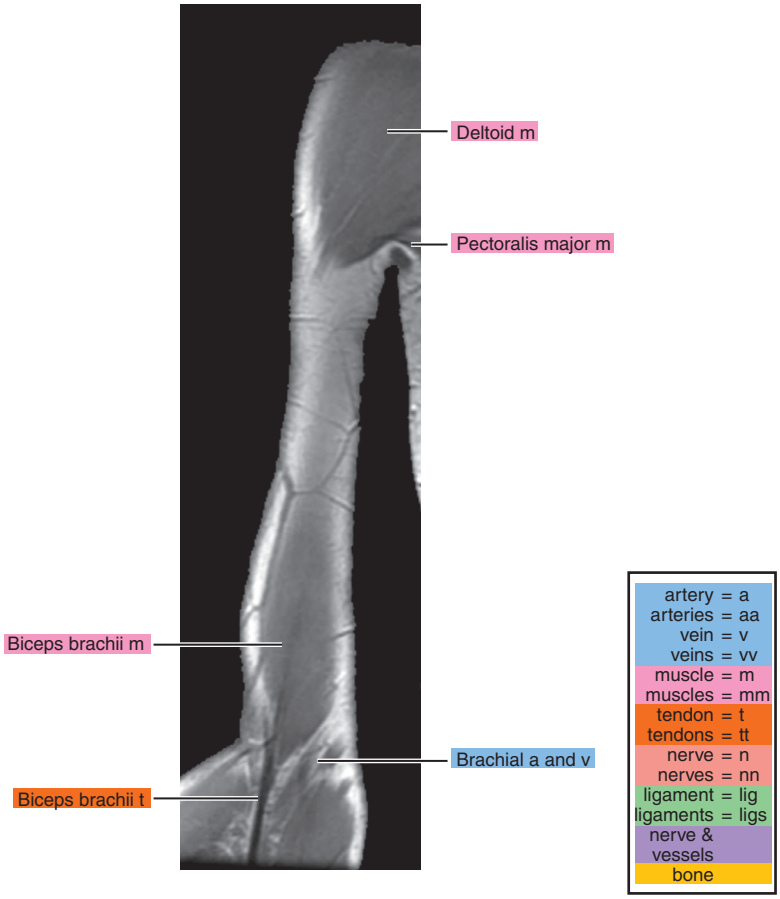



Glenoid
Deltoid m
Supraspinatus m
Coracobrachialis m and biceps brachii m, short head
Axillary n and posterior circumflex humeral a
Pectoralis major m
Axillary neurovascular bundle
Pronator teres and flexor carpi radialis mm
Acromion
Supraspinatus m
Deltoid m
Infraspinatus m
Teres minor m
Circumflex scapular a
Teres major m
Latissimus dorsi m
Triceps brachii m, medial head
Medial epicondyle

CORONAL

Figure 4.3.1





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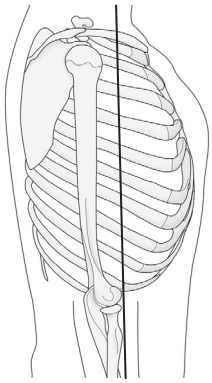

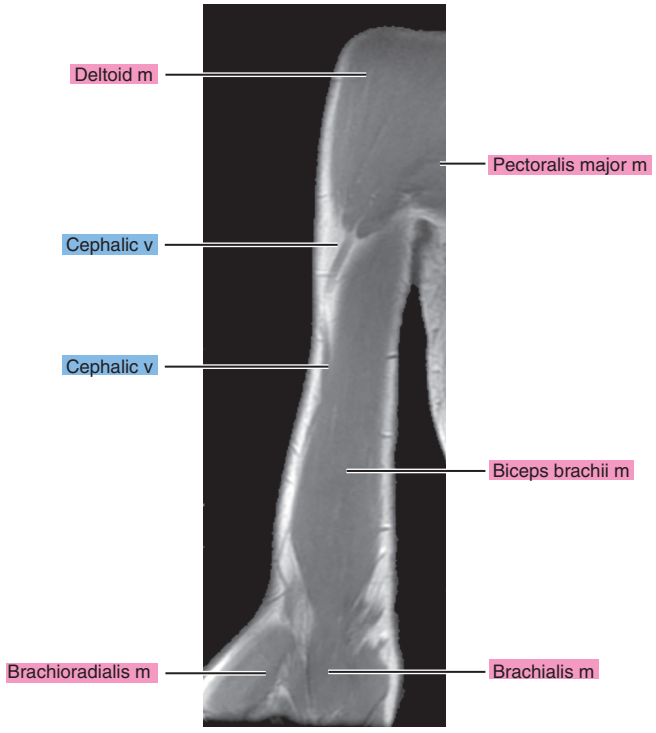

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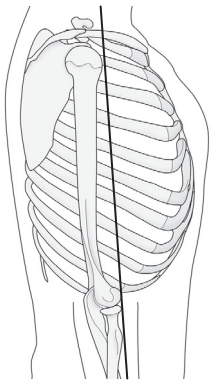

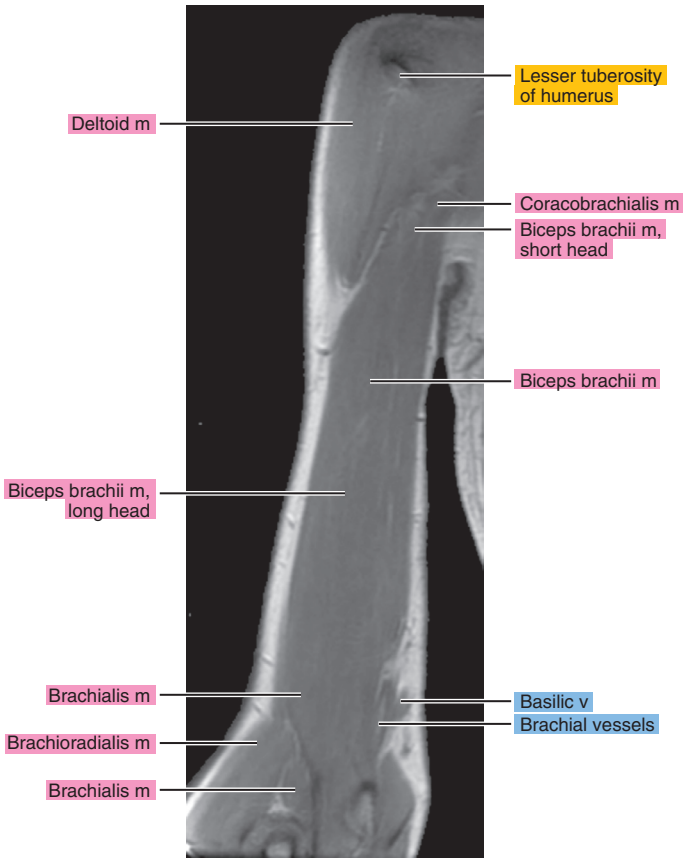

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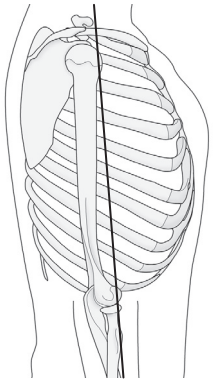

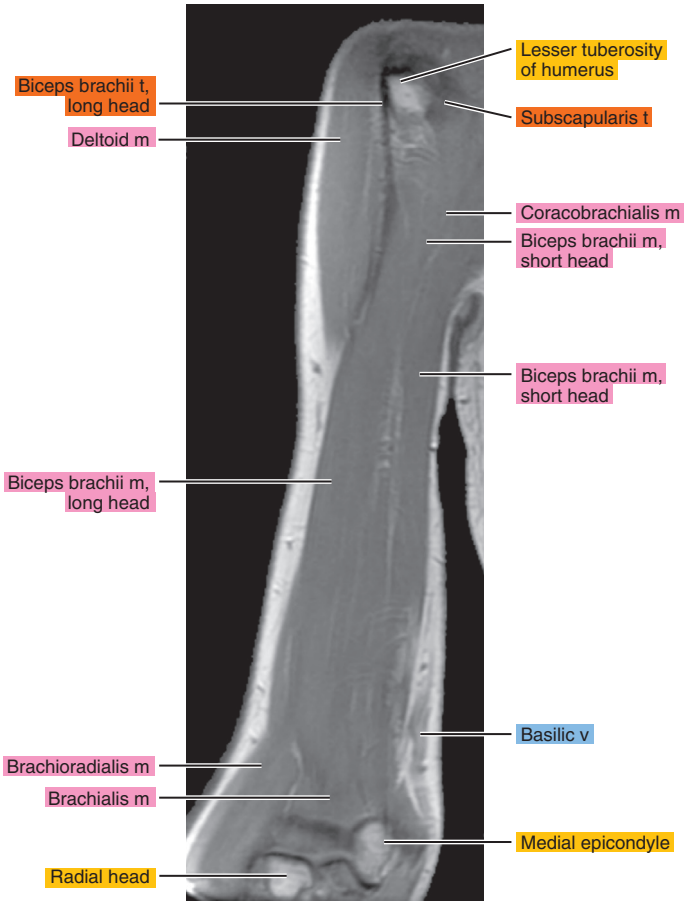

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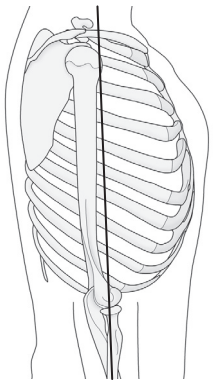

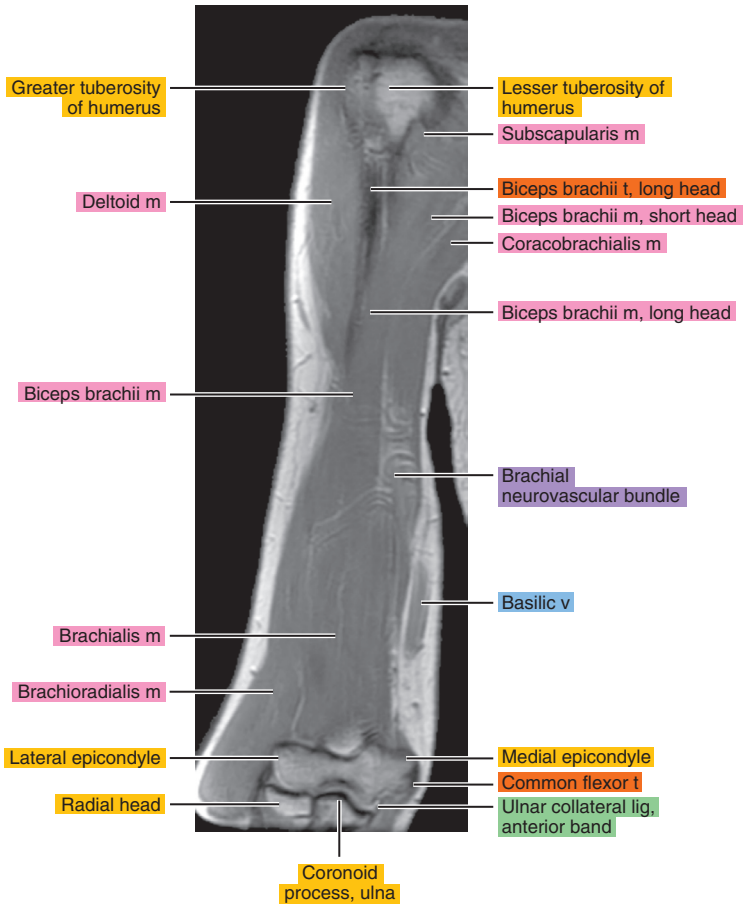

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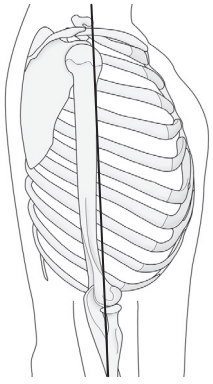

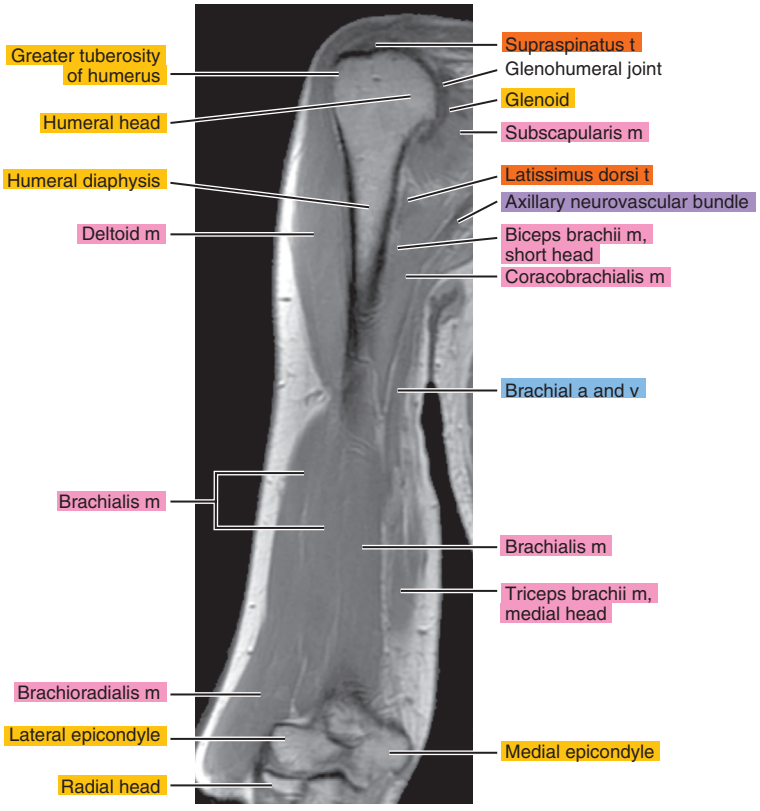

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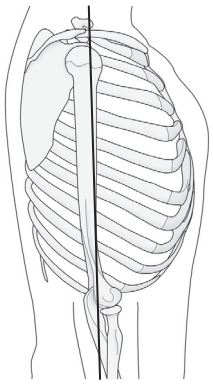

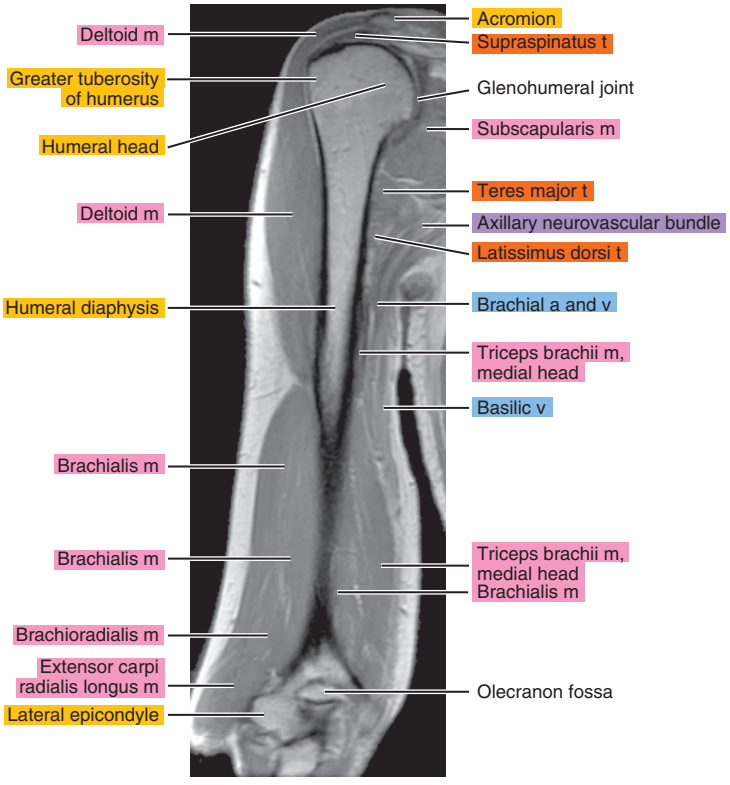

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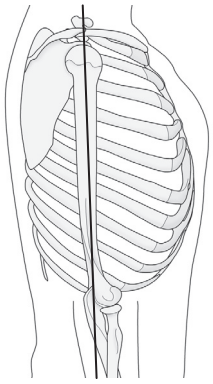

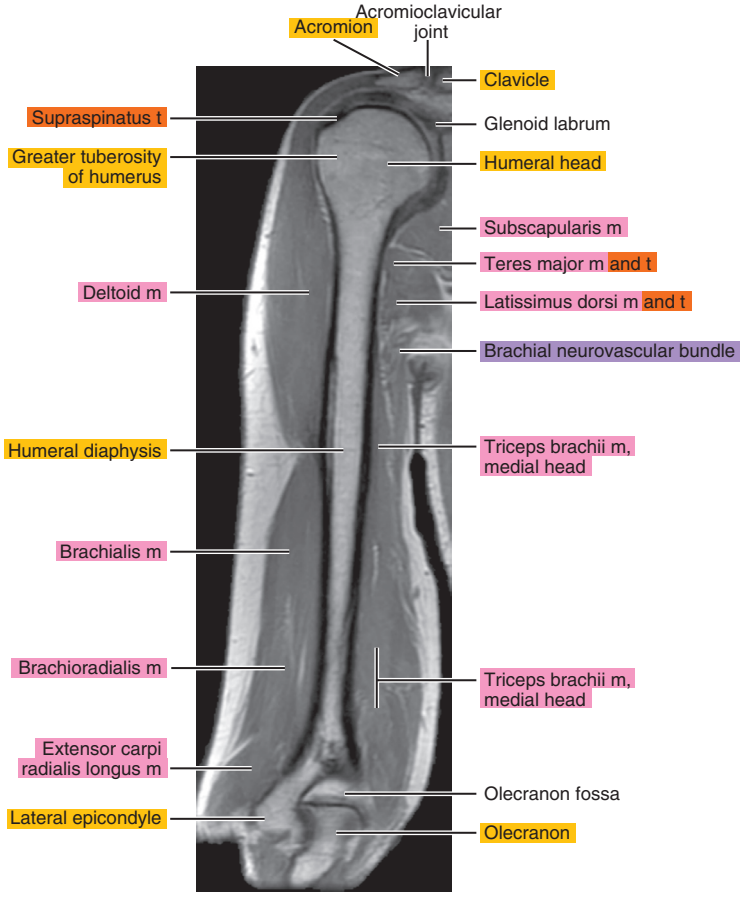

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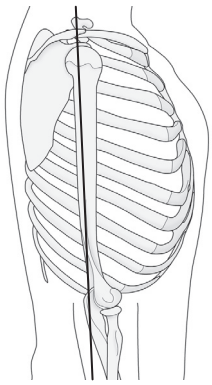

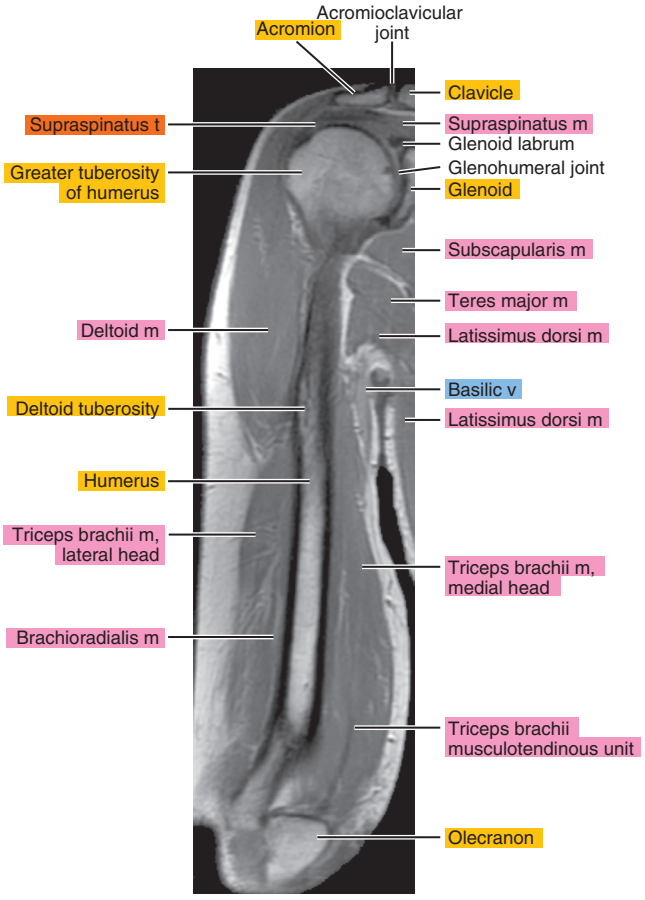

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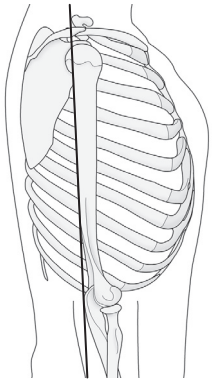

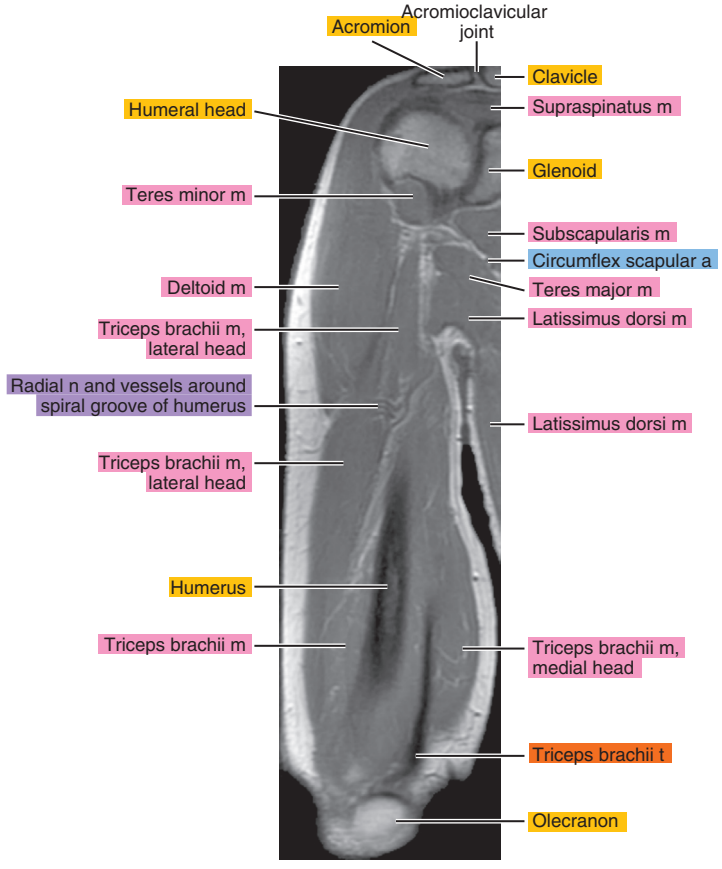

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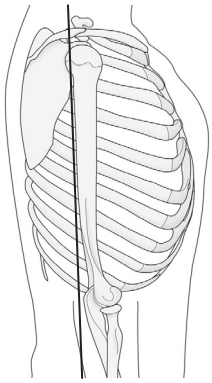

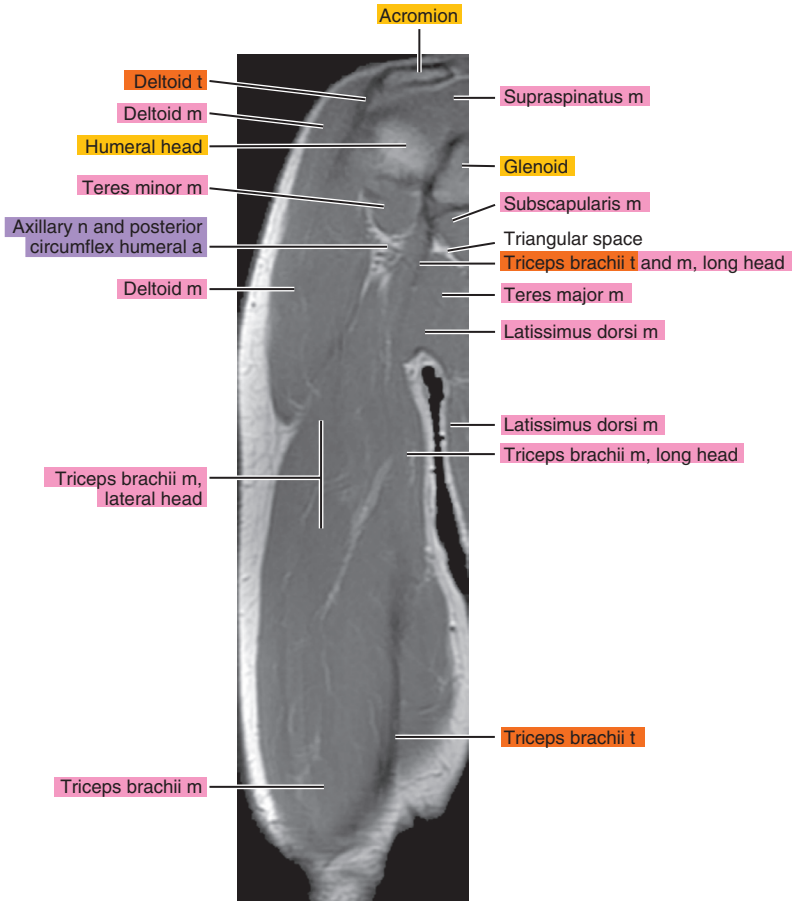

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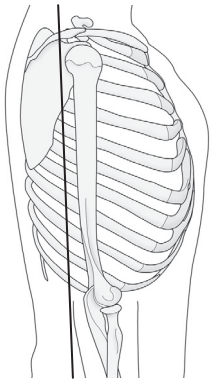

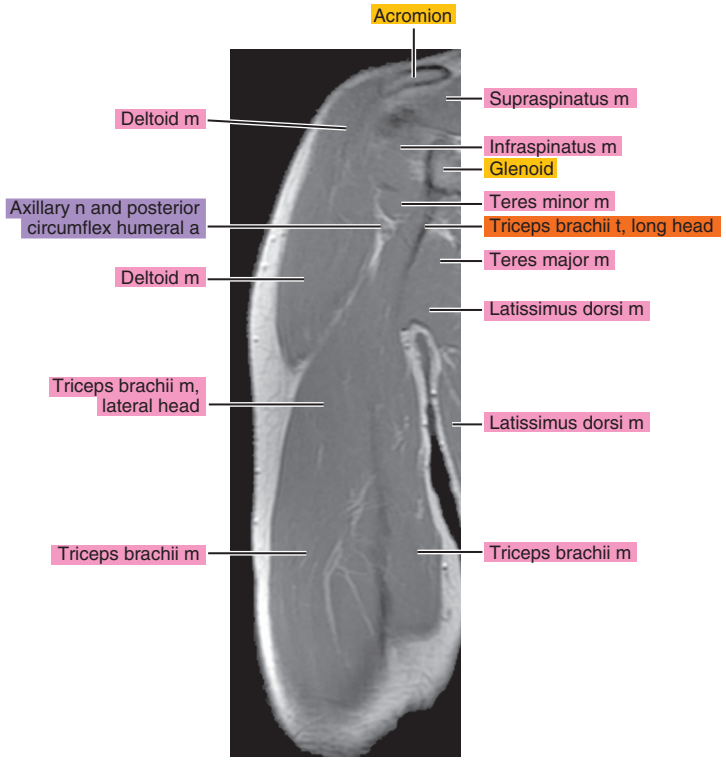

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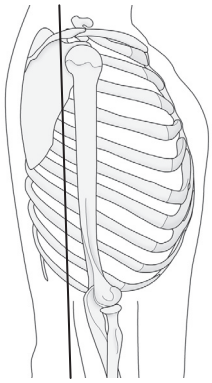

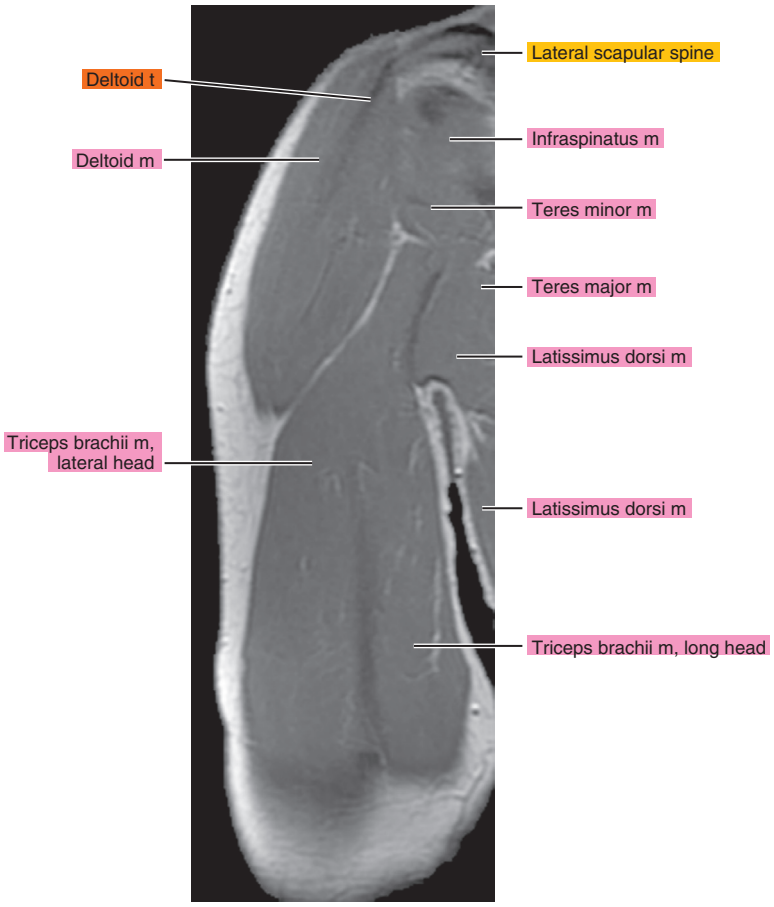

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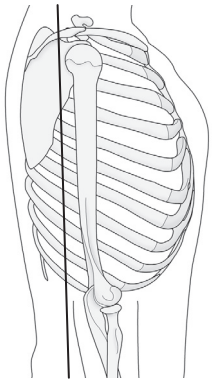

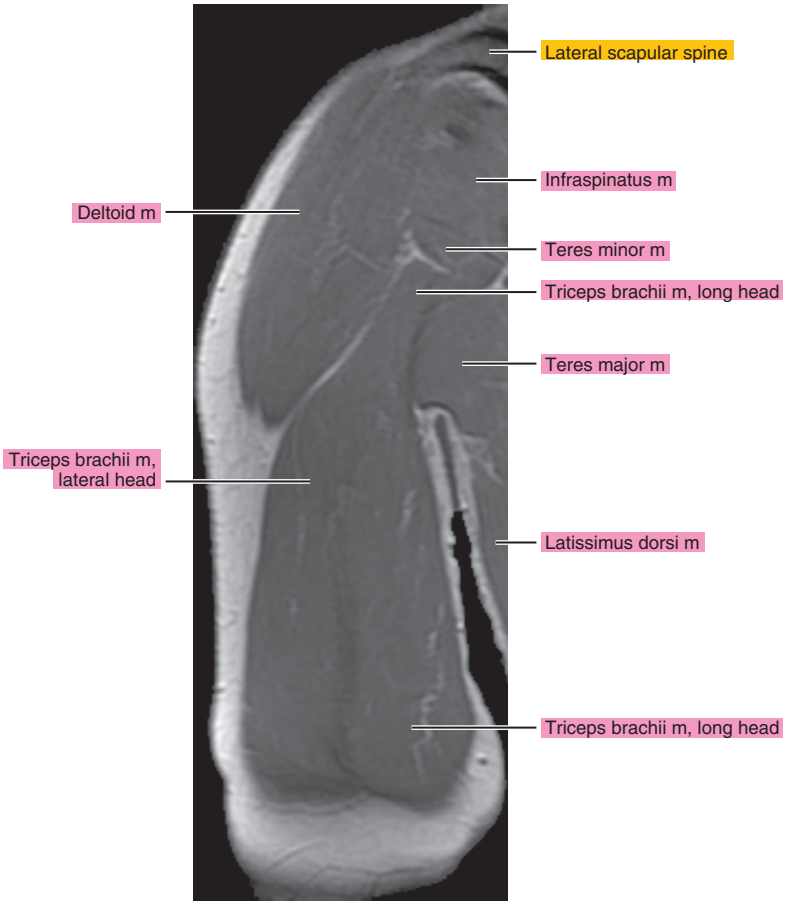

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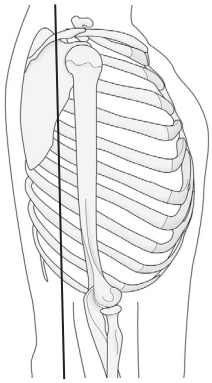

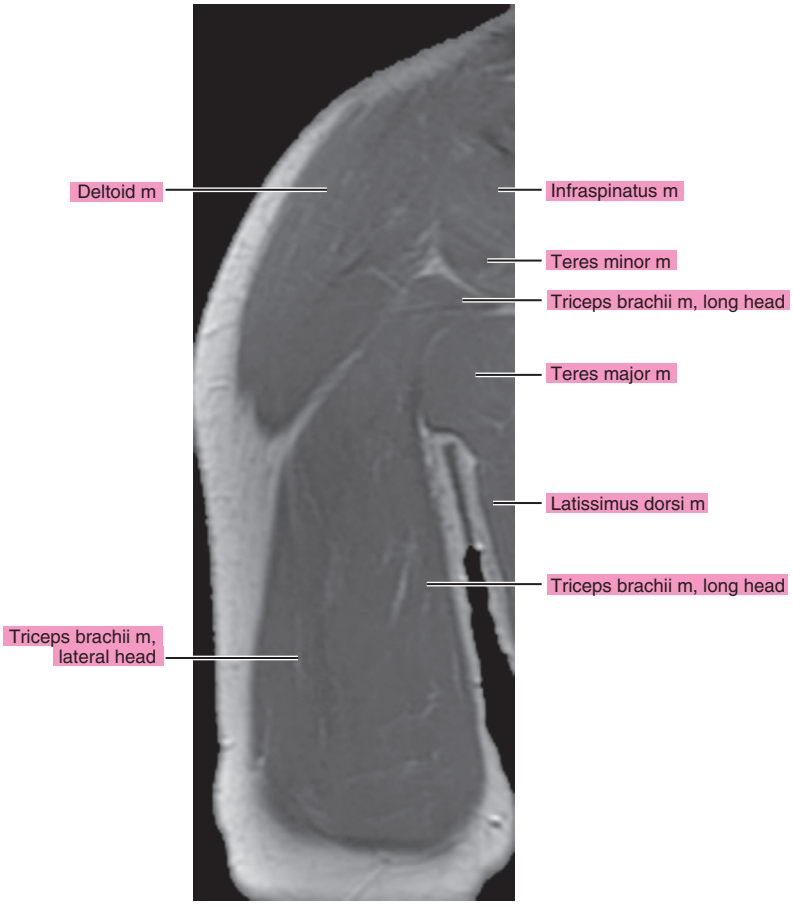

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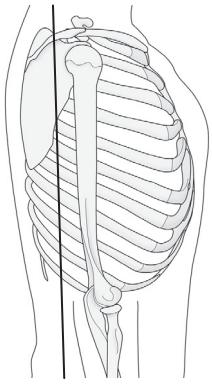

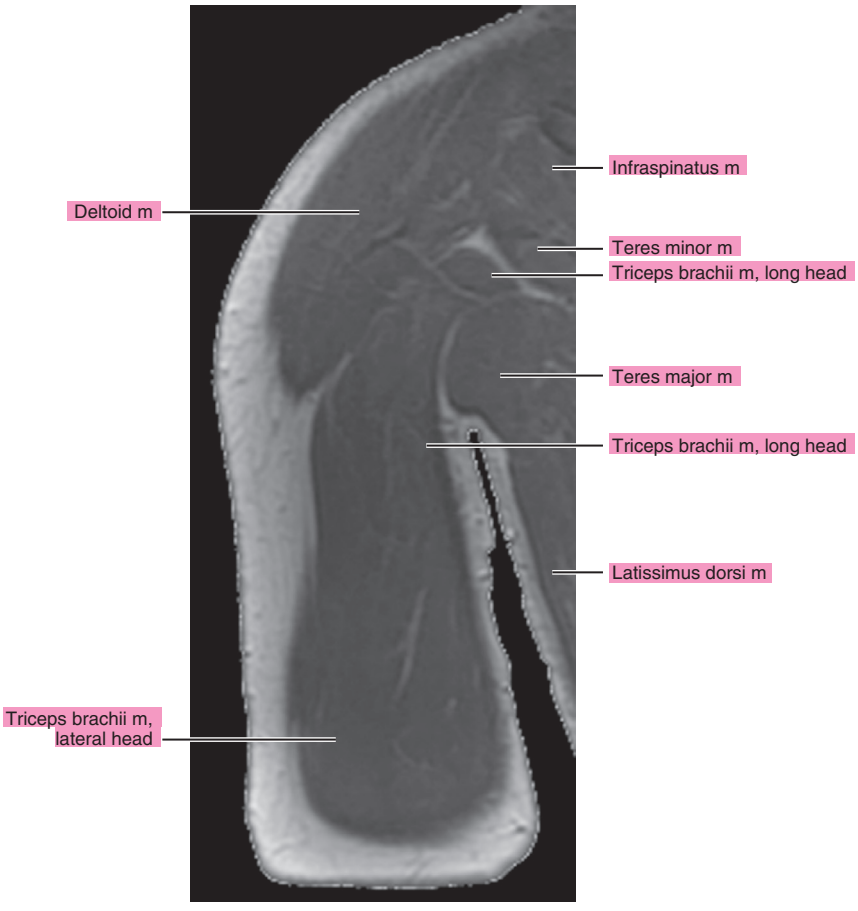

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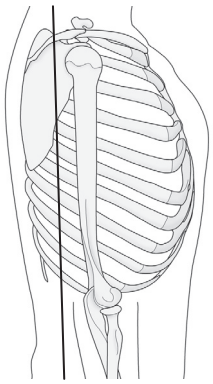

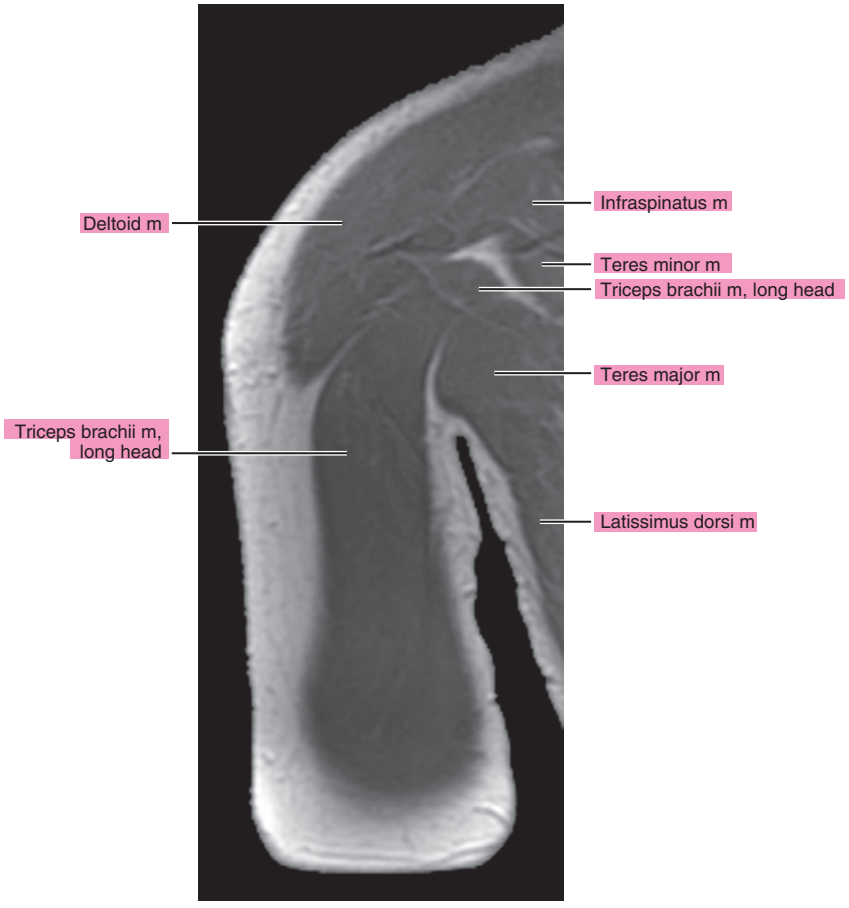

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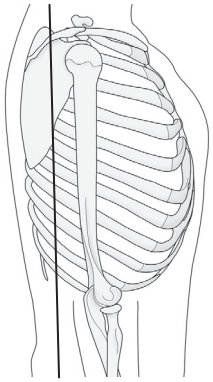

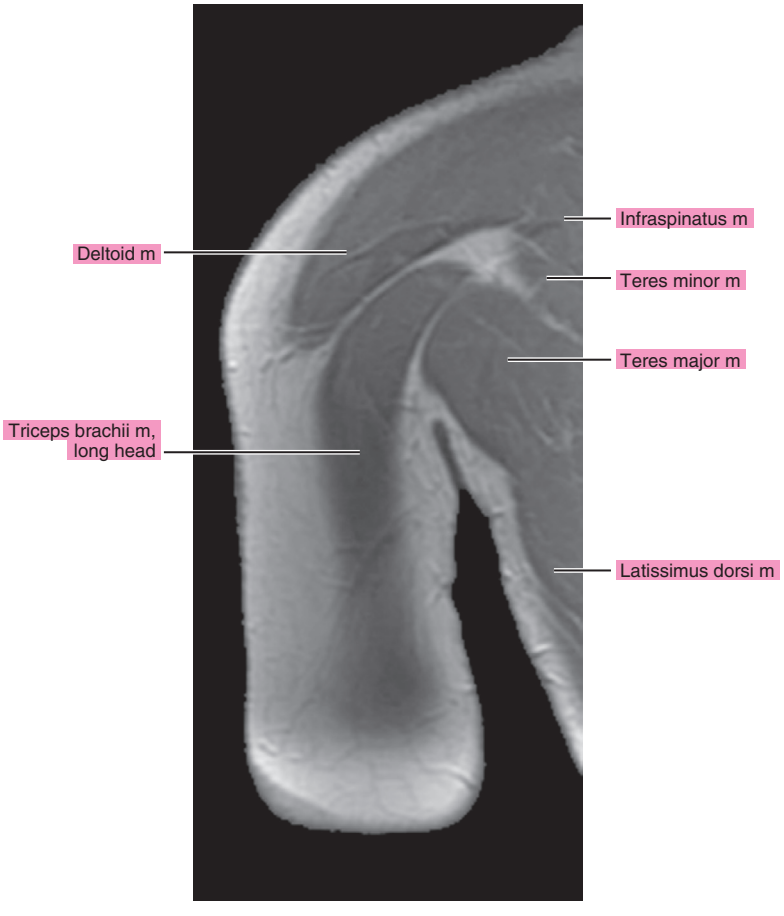

Chapter

5

MRI of the Elbow

AXIAL

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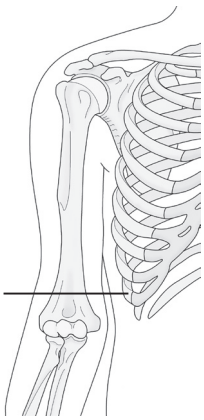

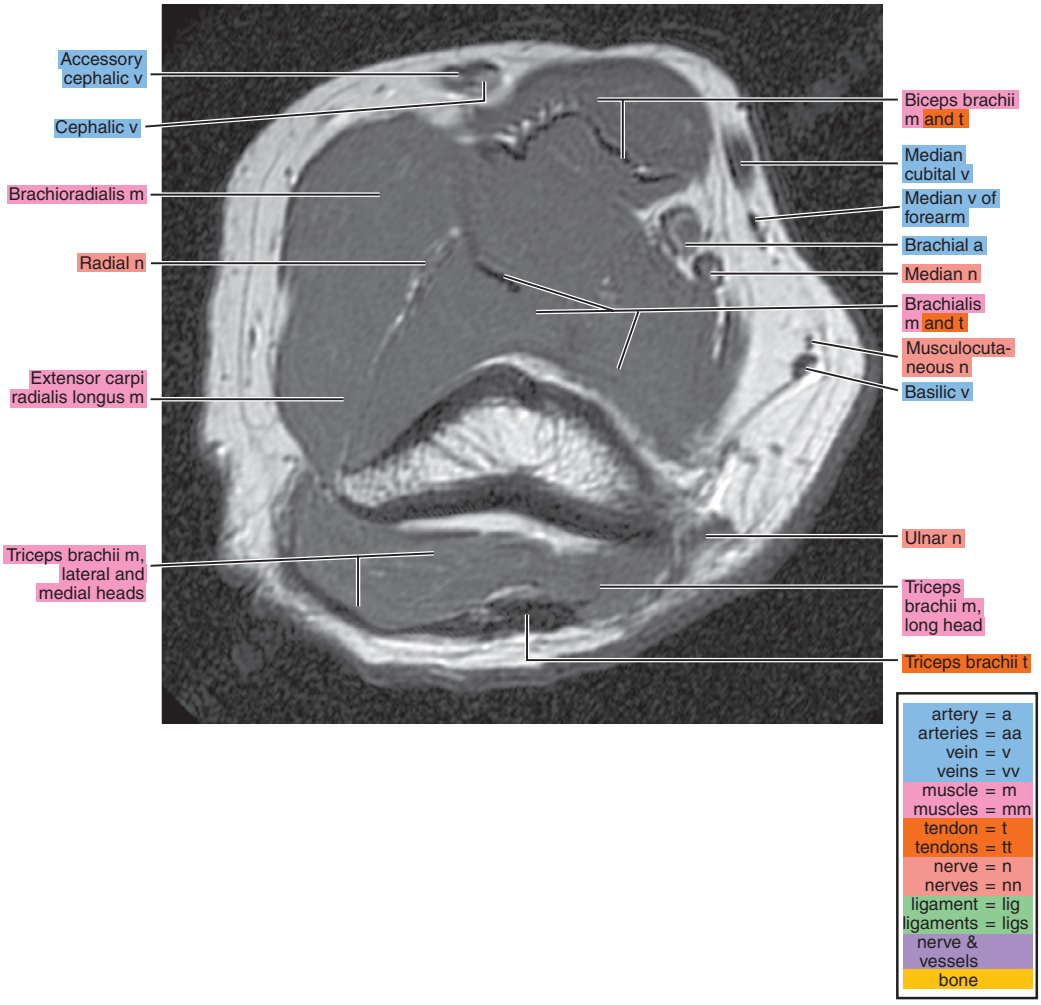

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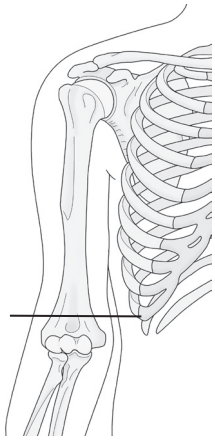

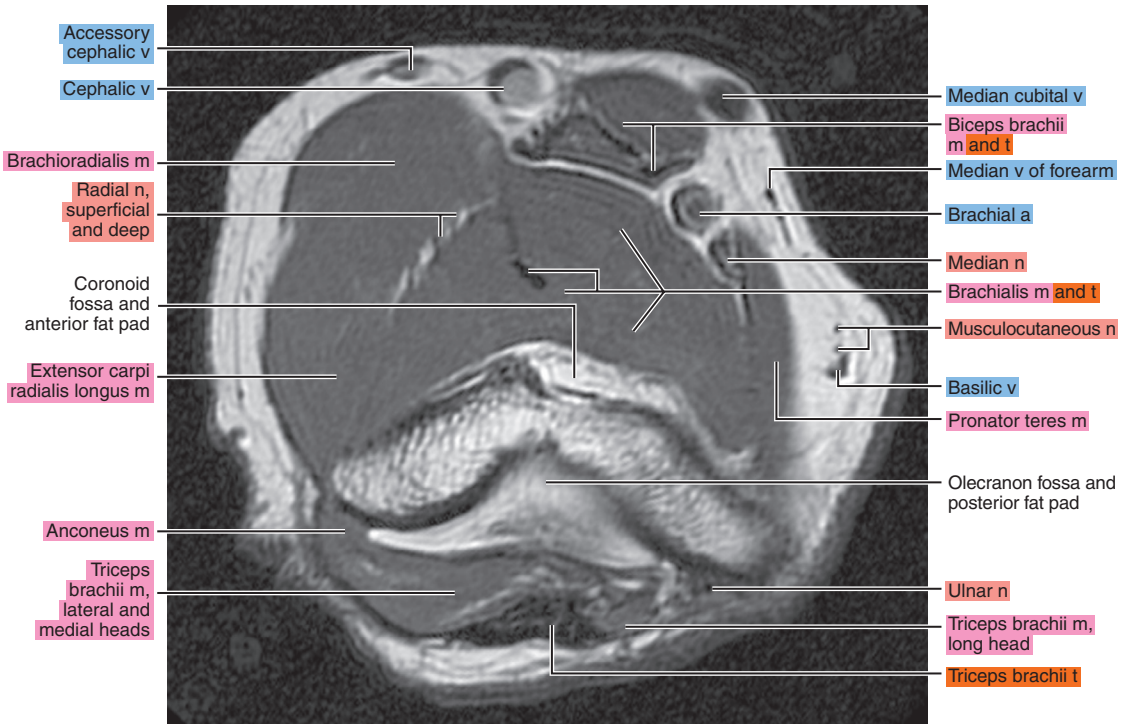

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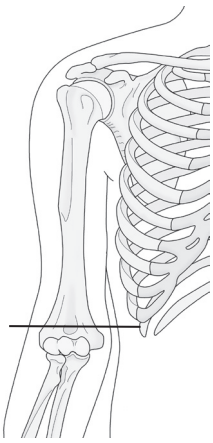

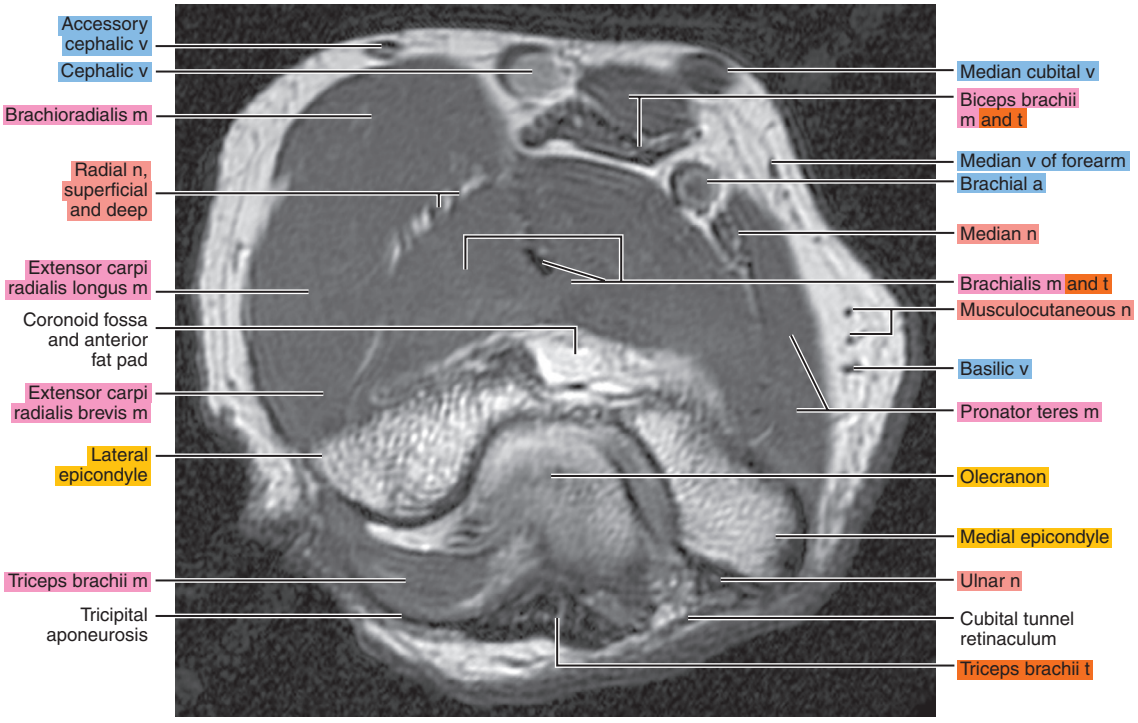

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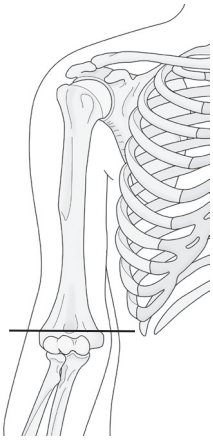

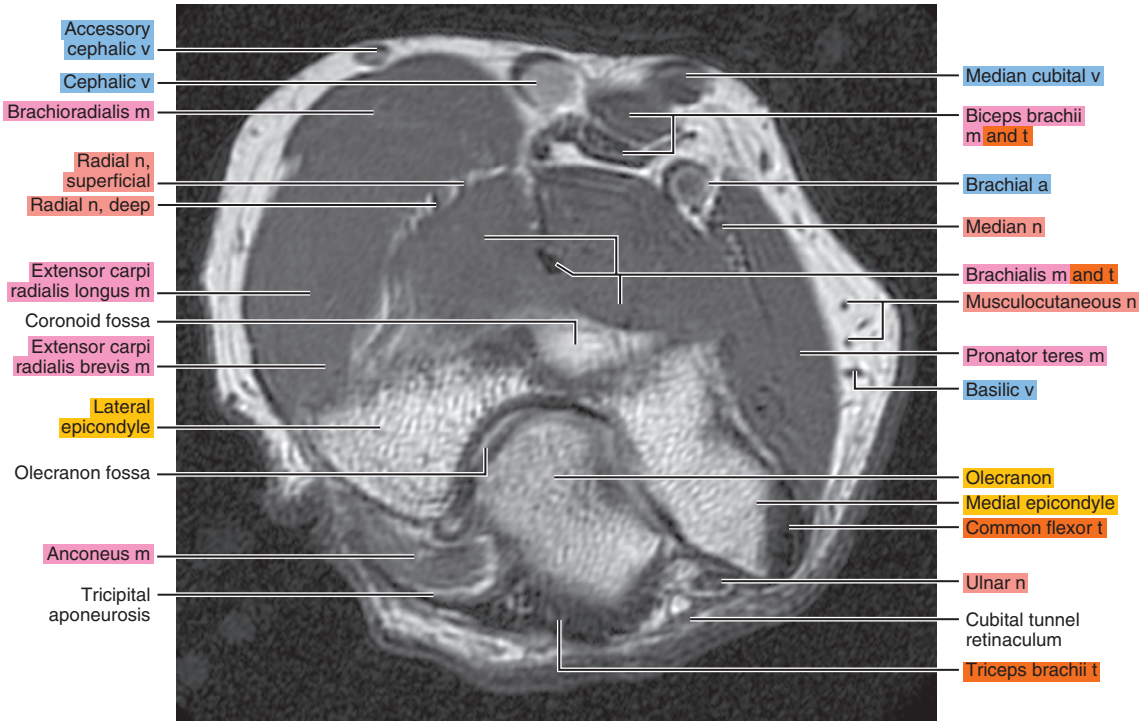

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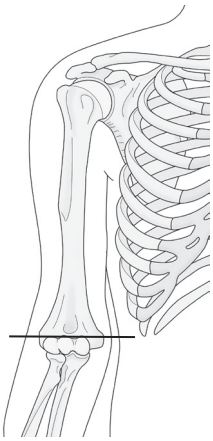

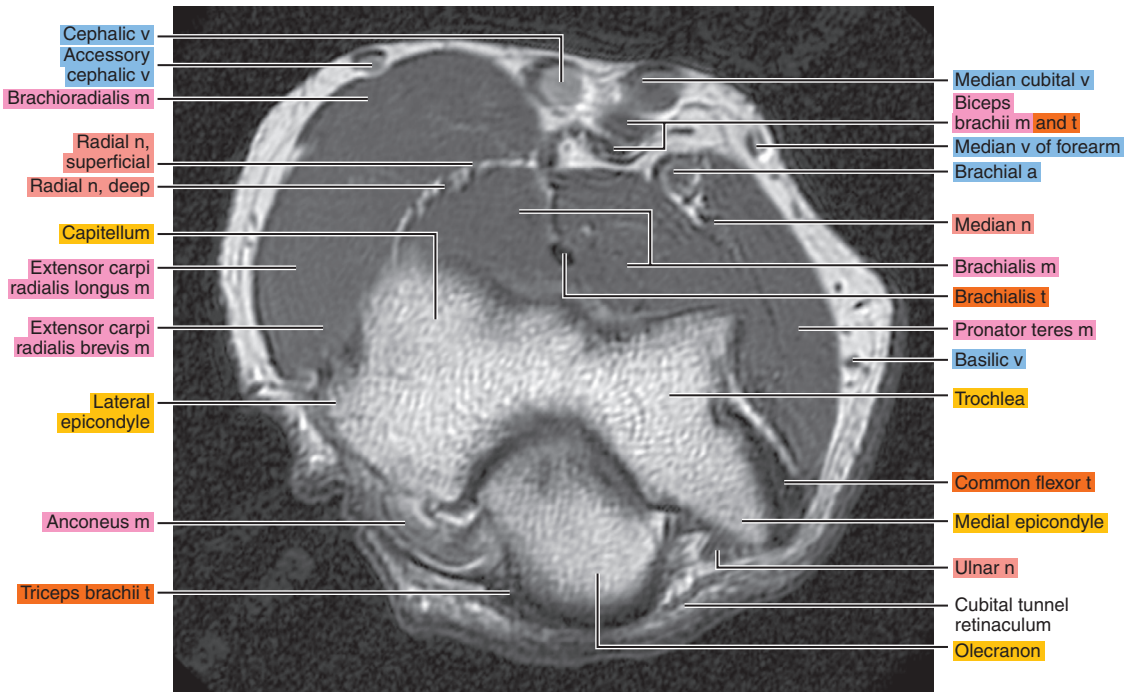

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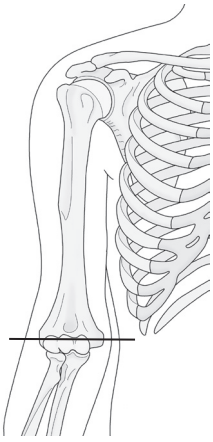
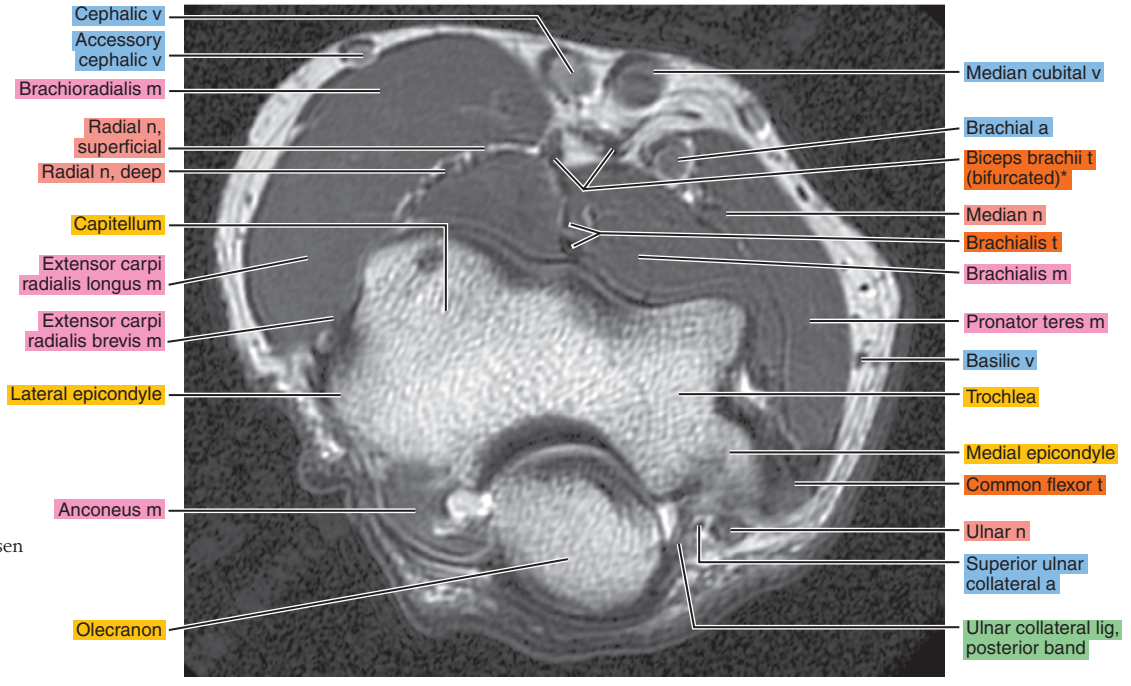
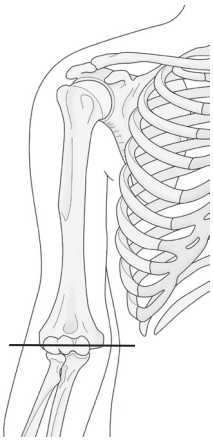
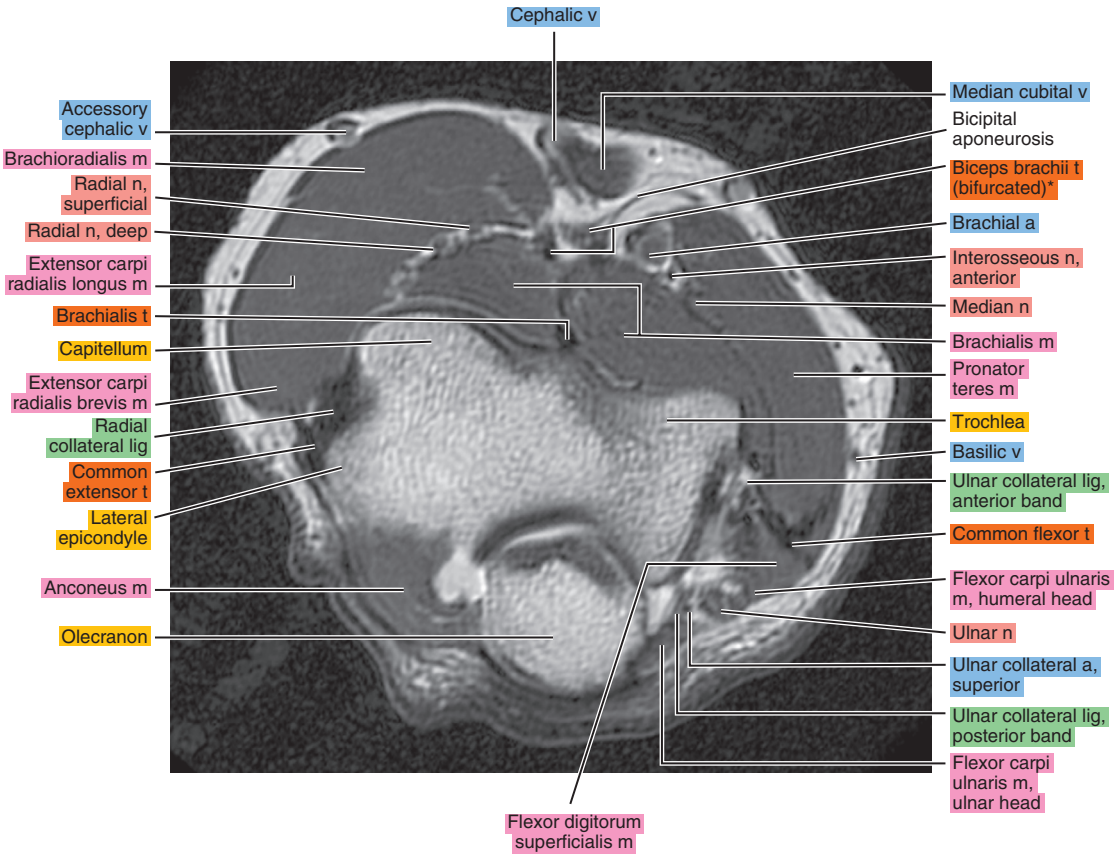




*Data from Sassmannshausen G, Mair SD, Blazar PE. Rupture of a bifurcated distal biceps tendon. A case report. *J Bone Joint Surg Am* 2004;86: 2737-2740.

Figure 5.1.7





*Data from Sassmannshausen G, Mair SD, Blazar PE. Rupture of a bifurcated distal biceps tendon. A case report. *J Bone Joint Surg Am* 2004;86:2737-2740.

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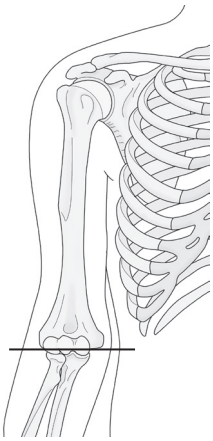

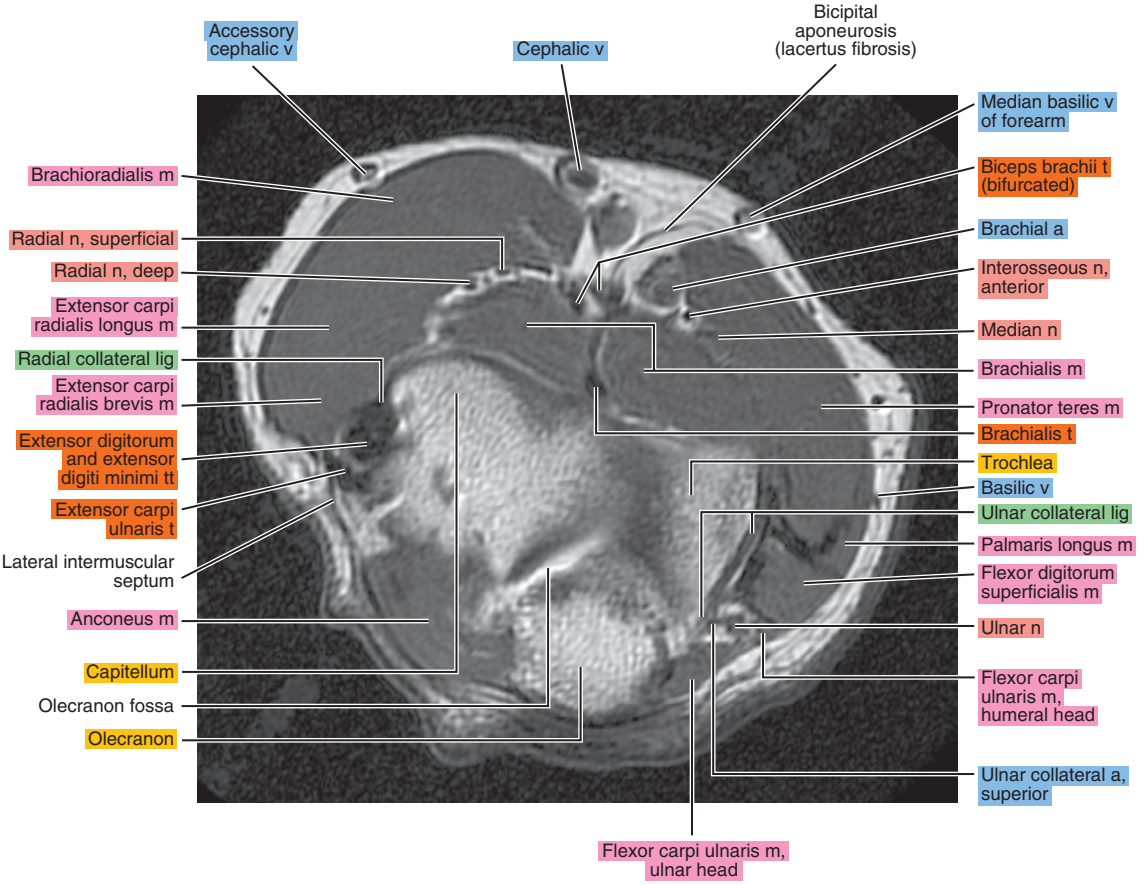

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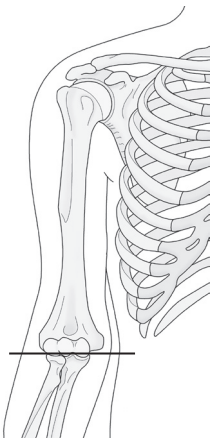

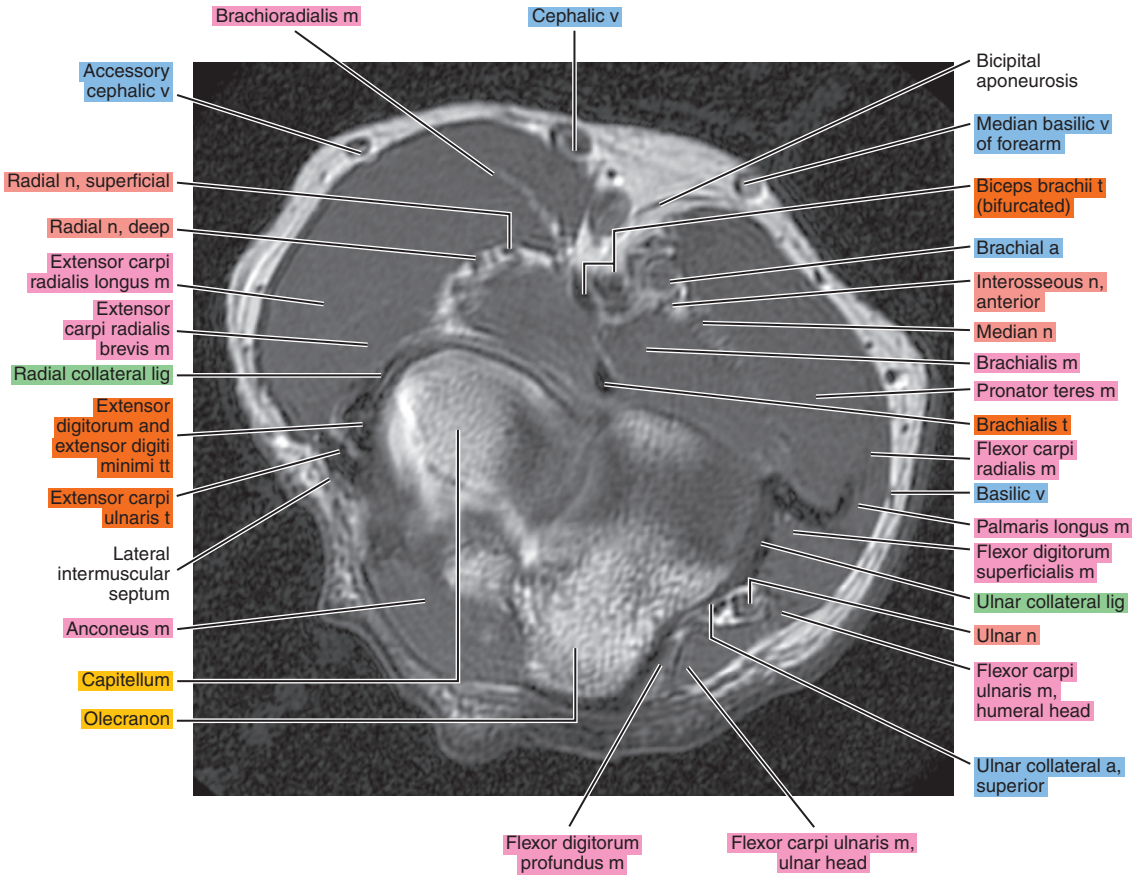

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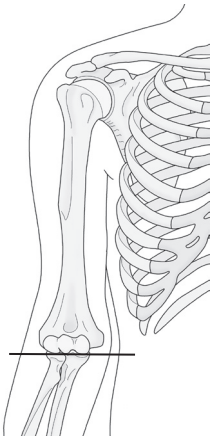

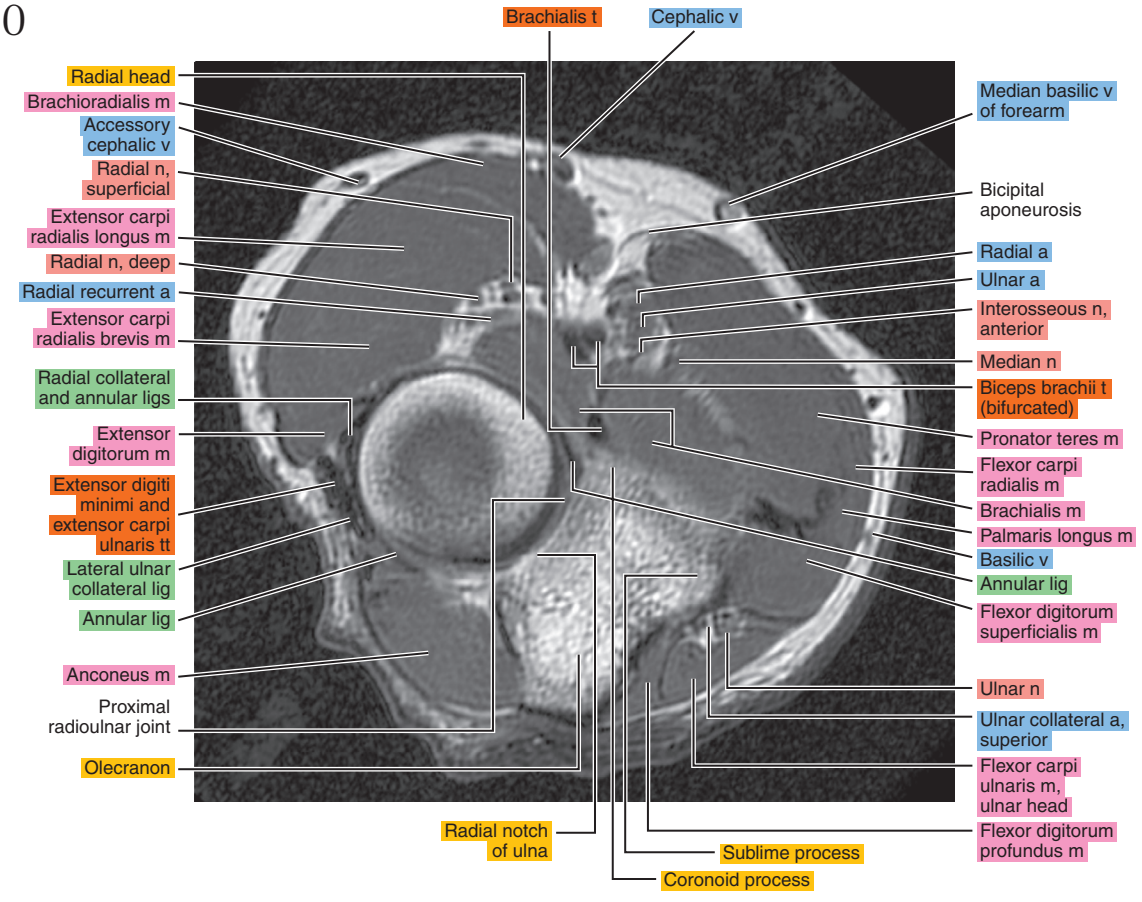

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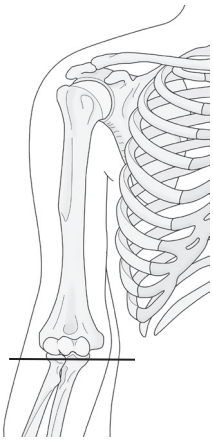

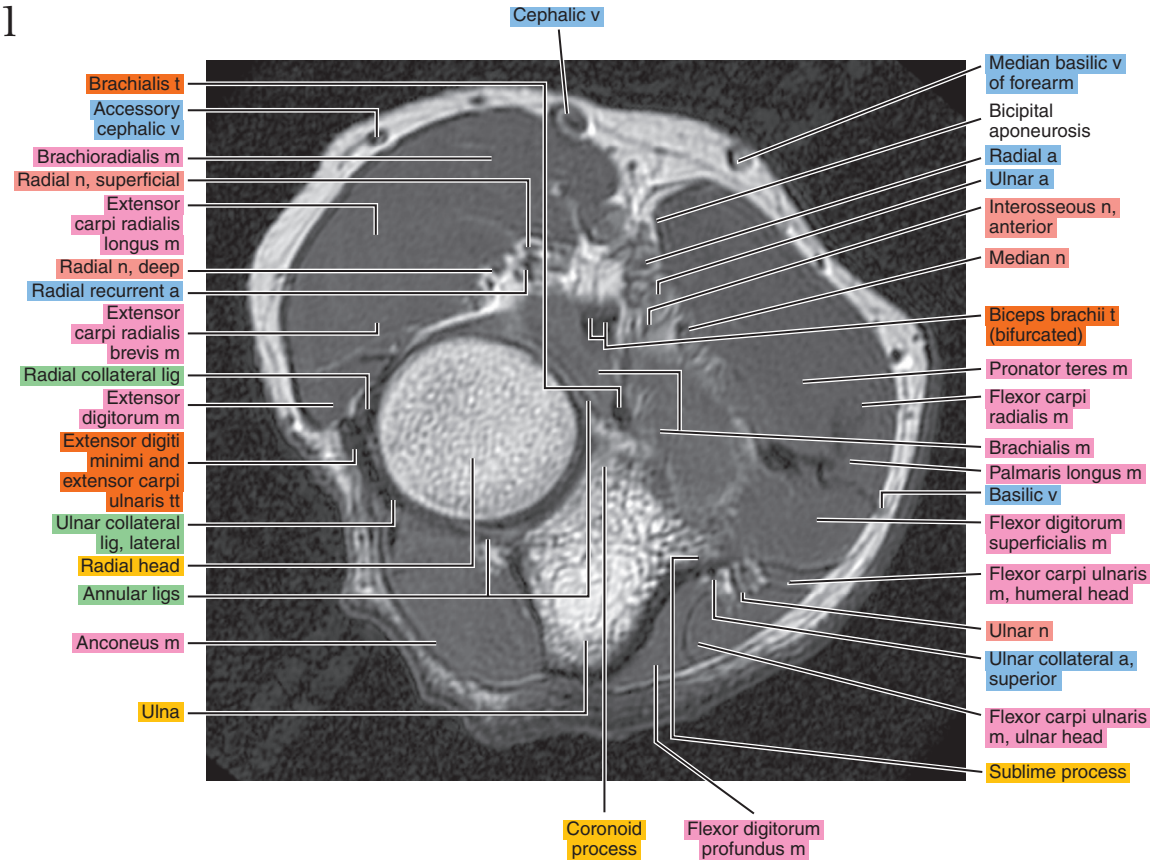

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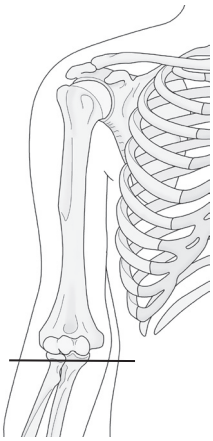

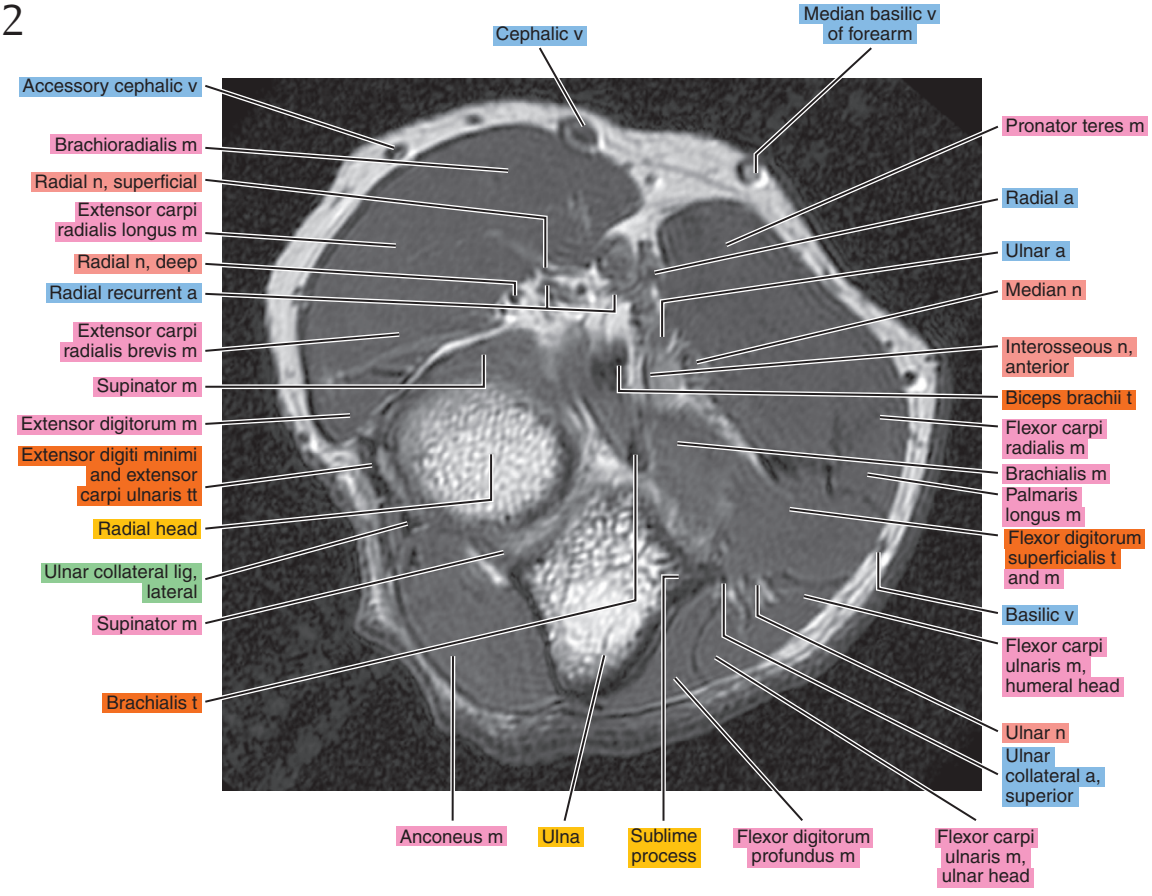

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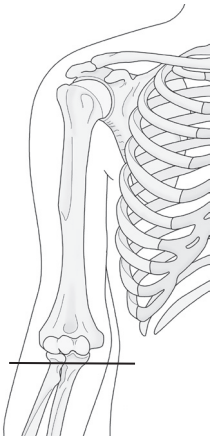

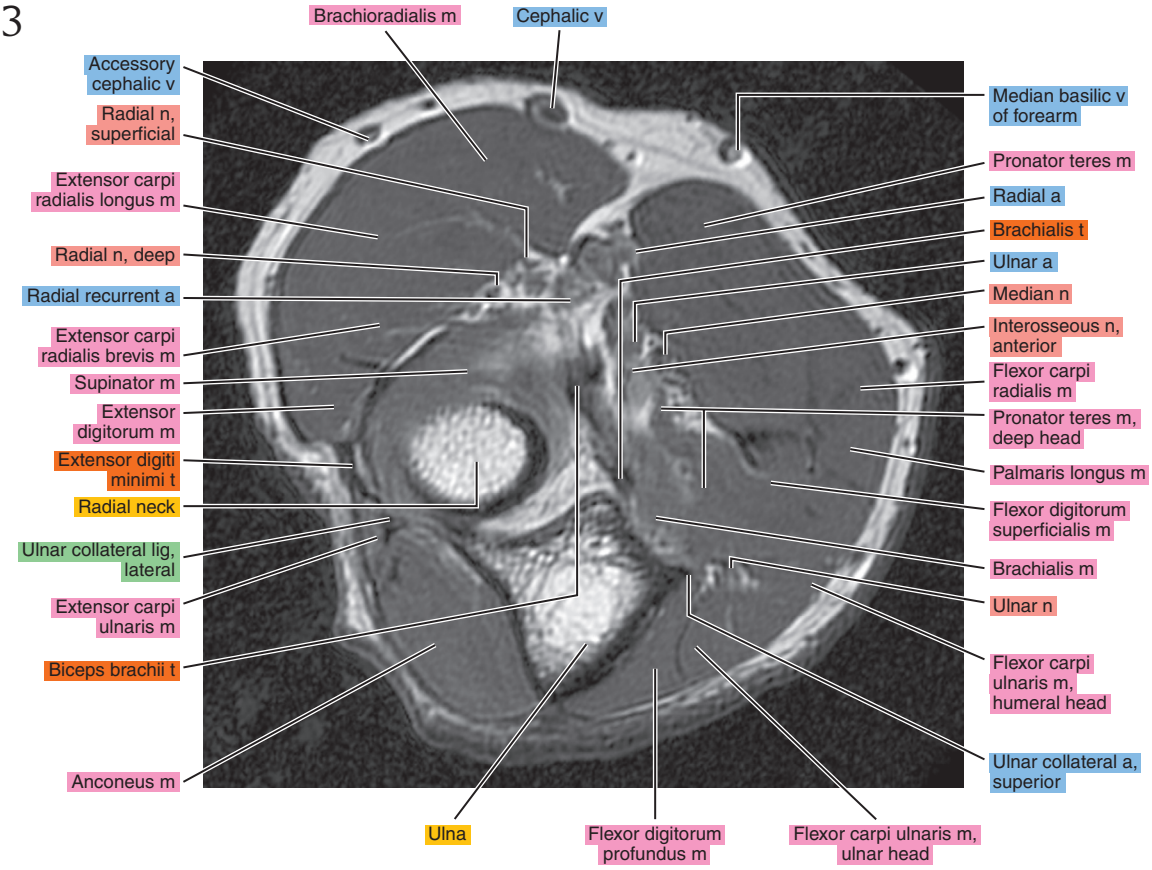

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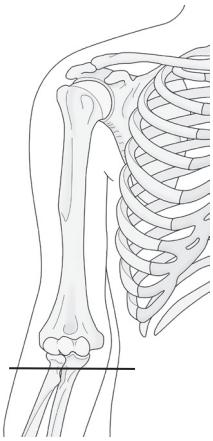

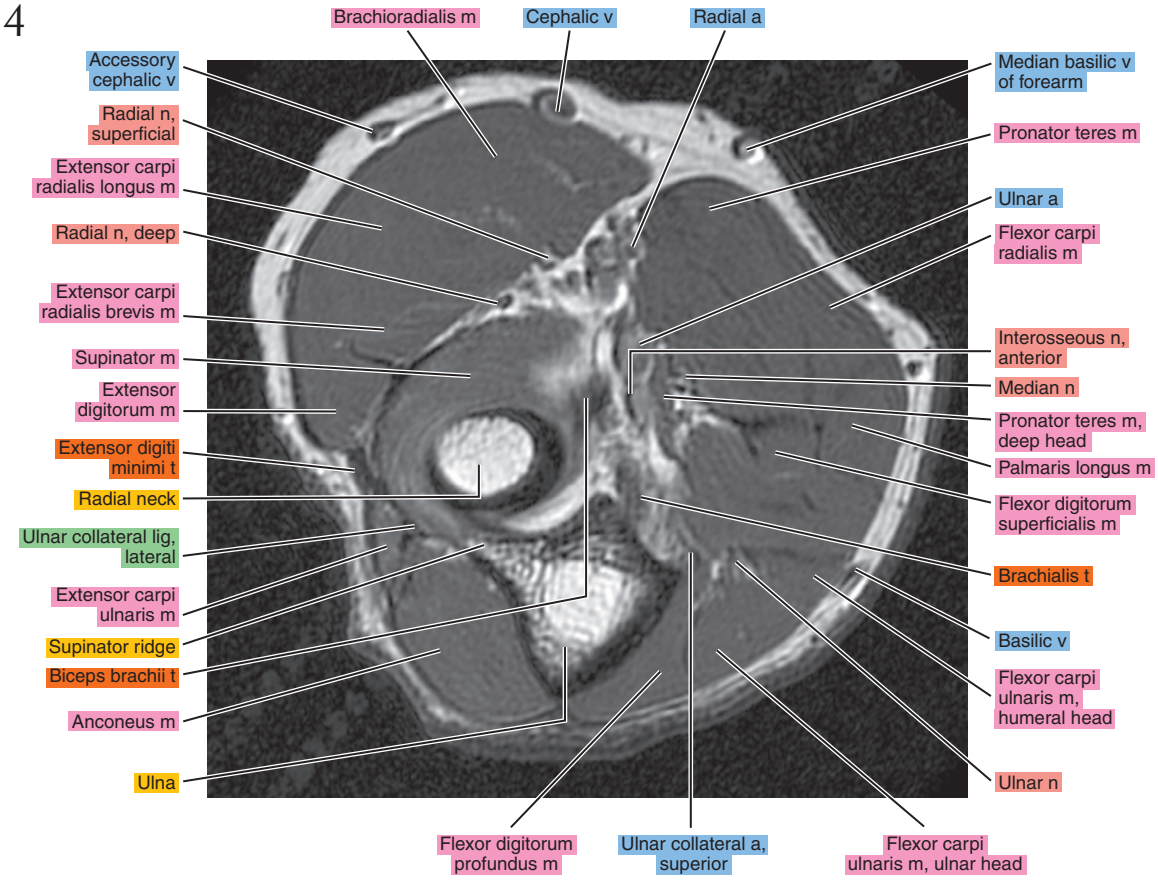

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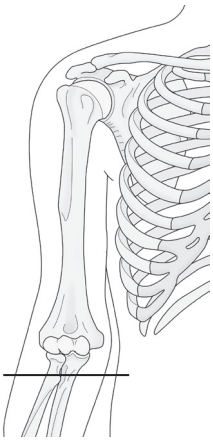

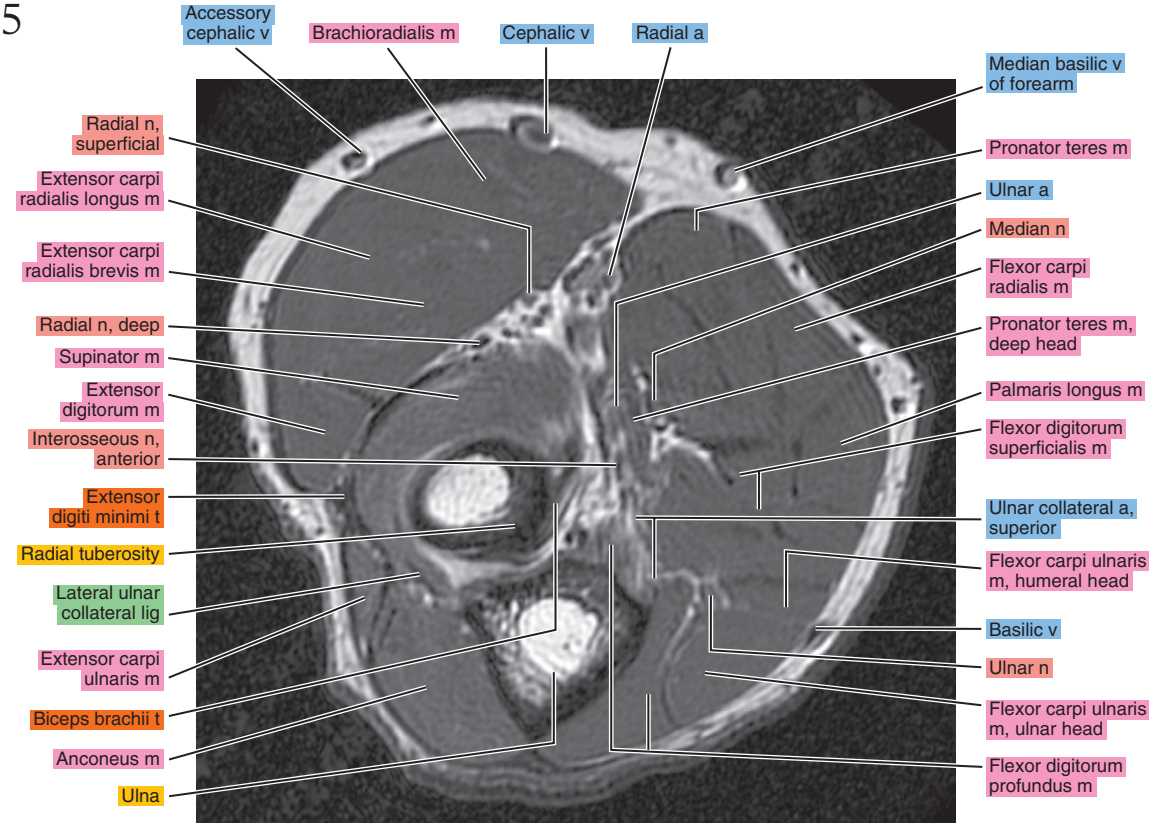

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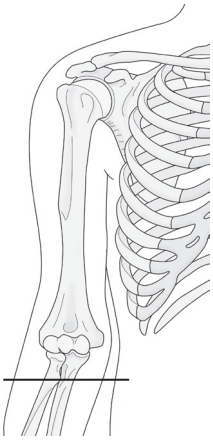

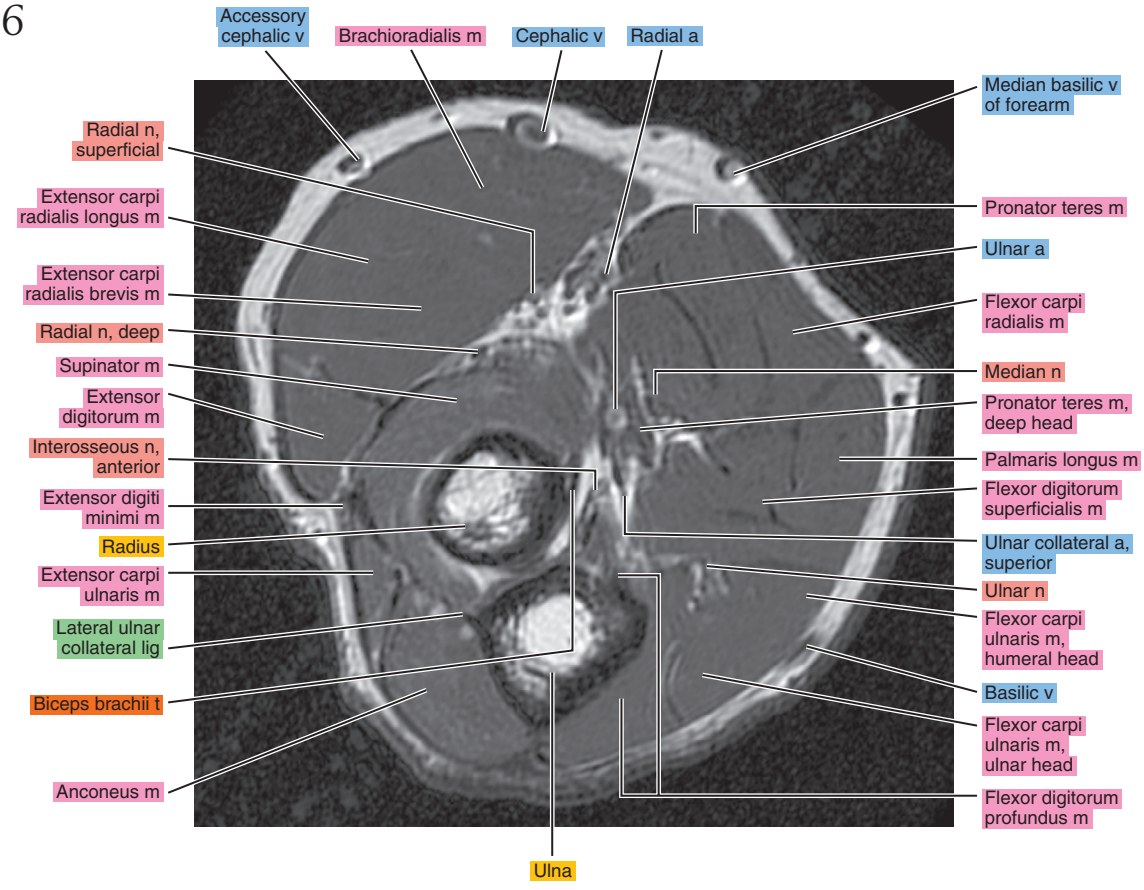

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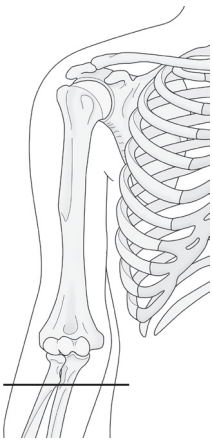

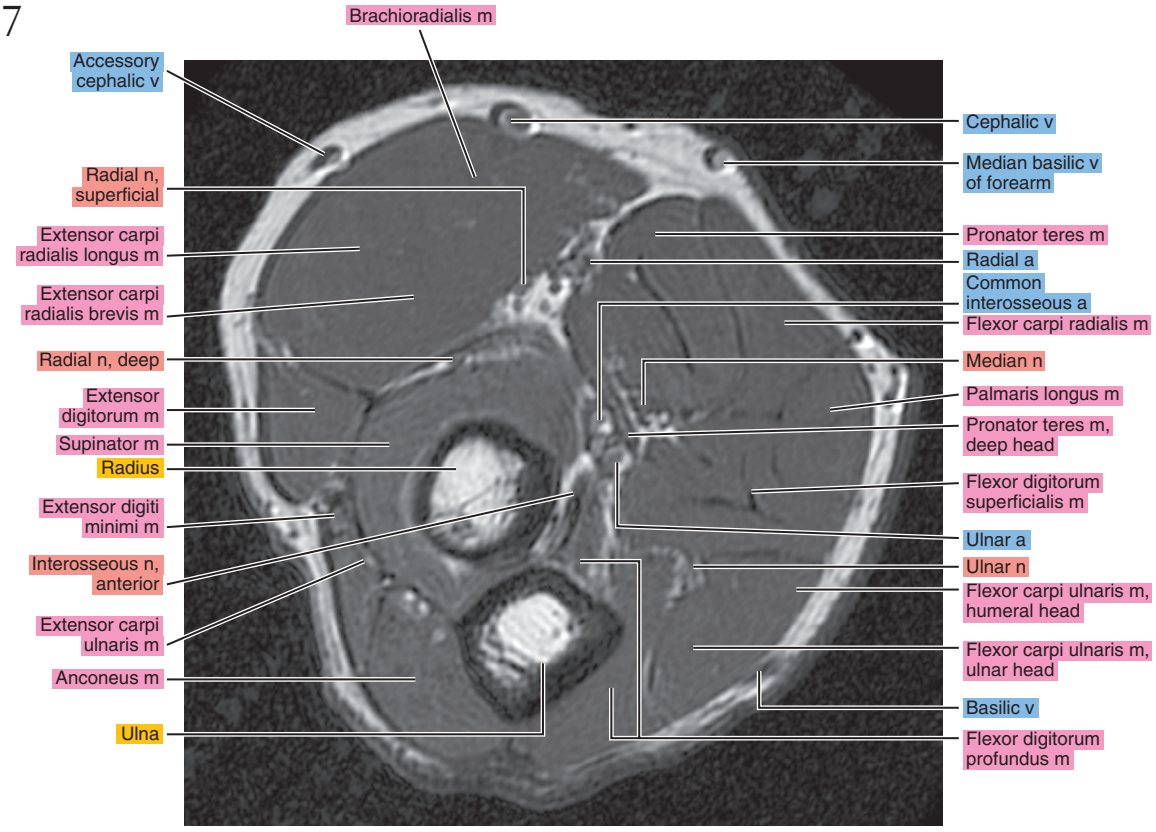

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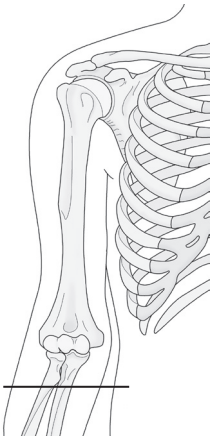

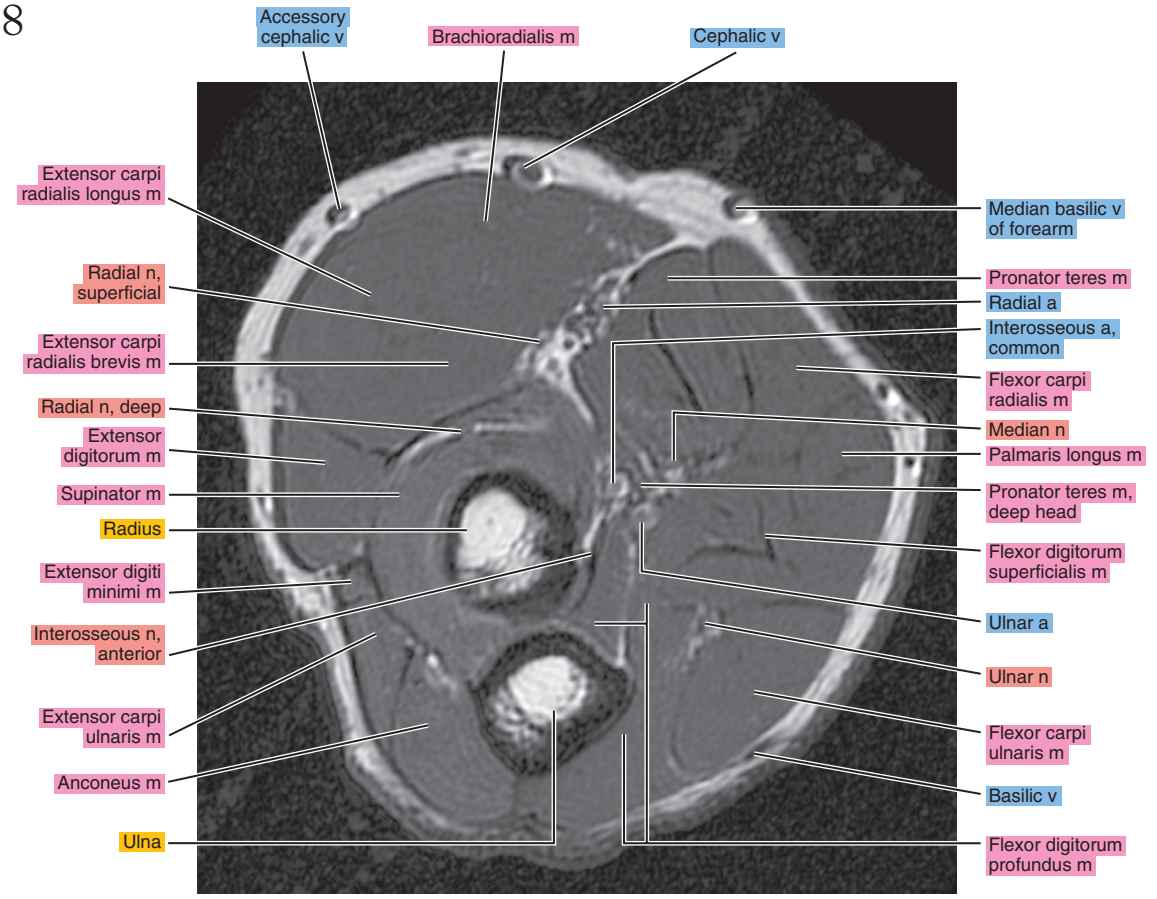

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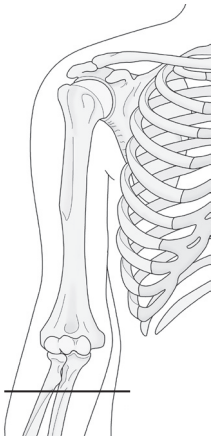

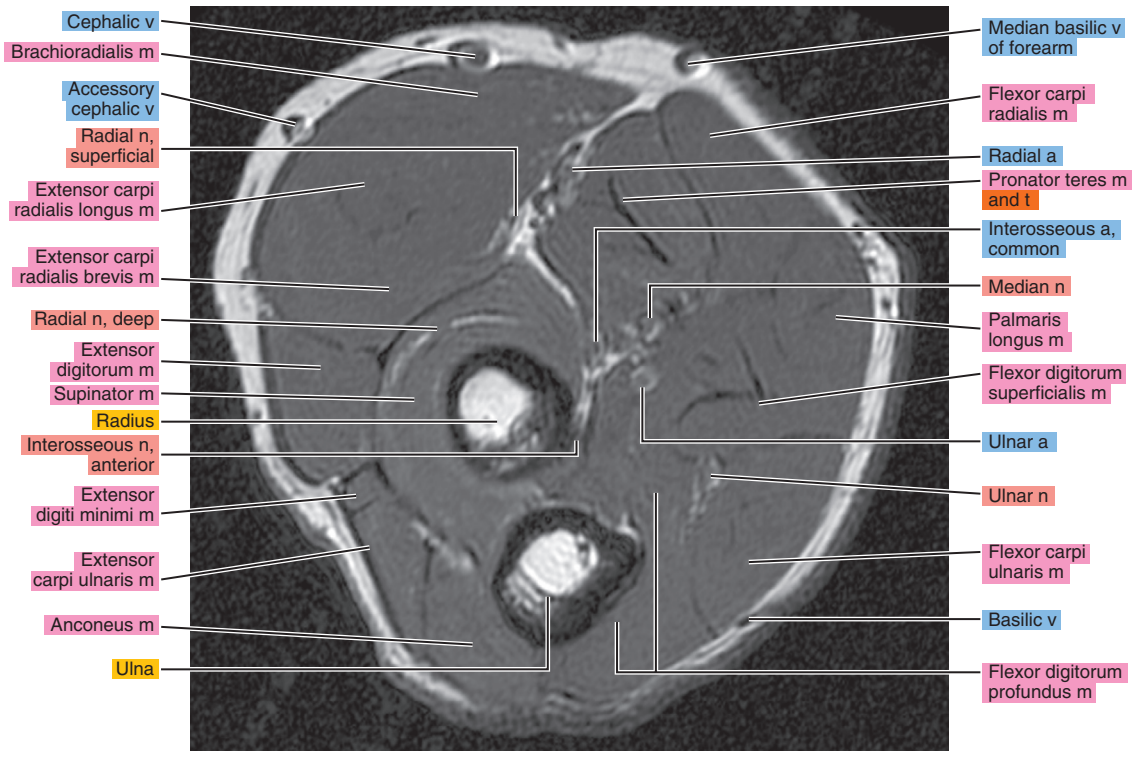

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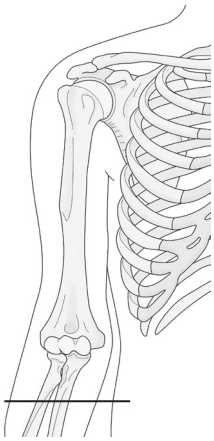

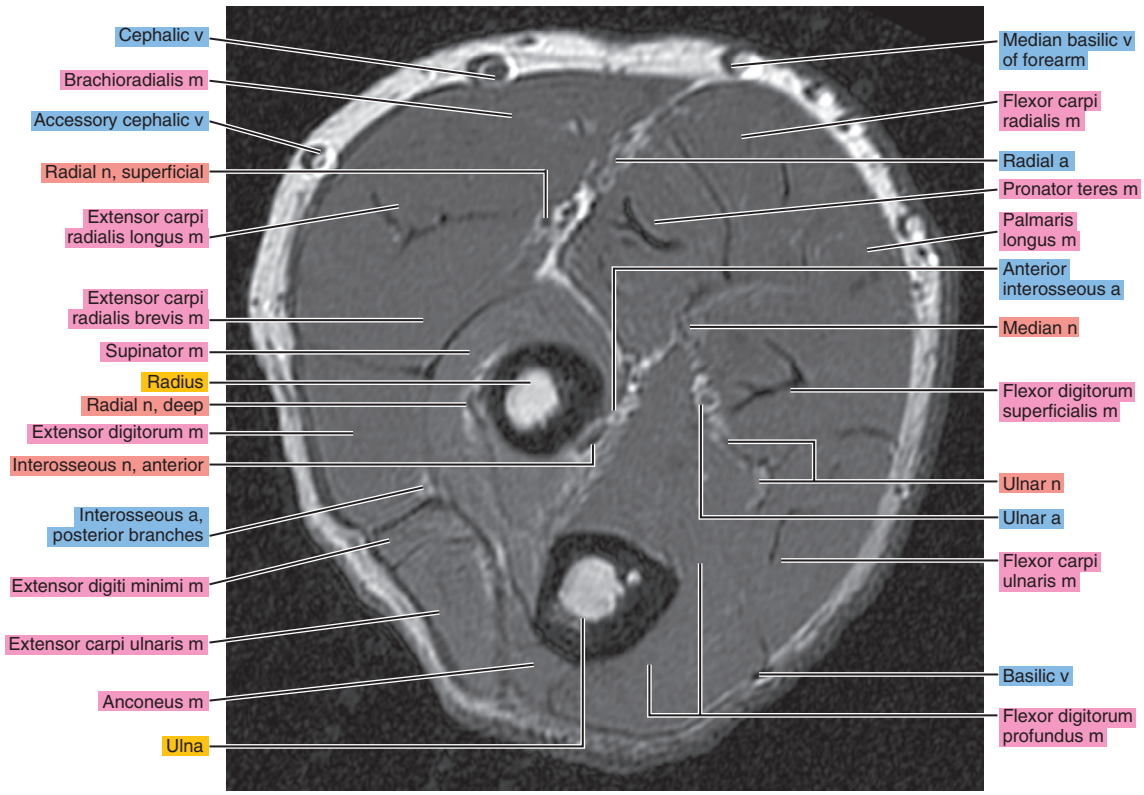

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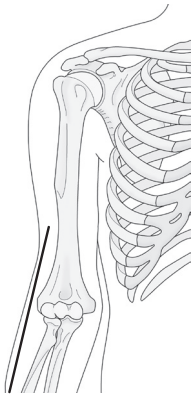
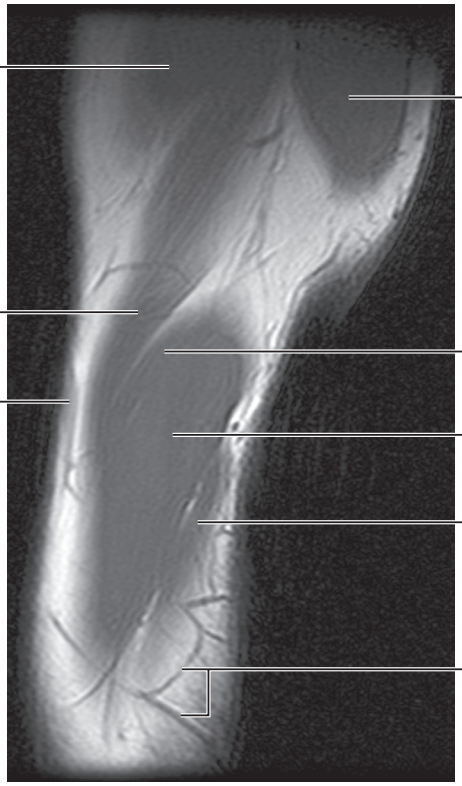
Figure 5.2.1





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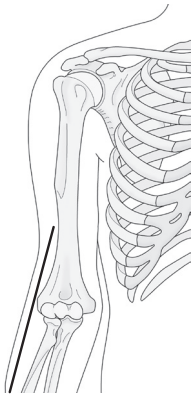

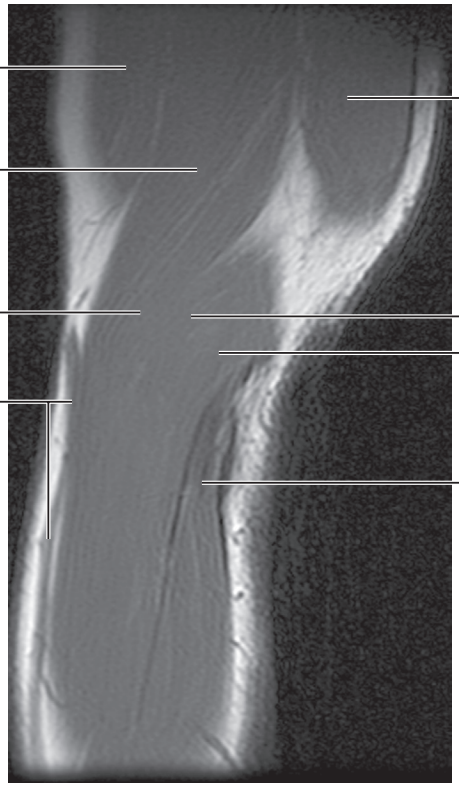

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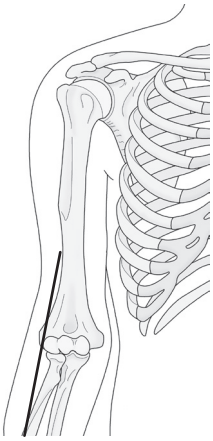

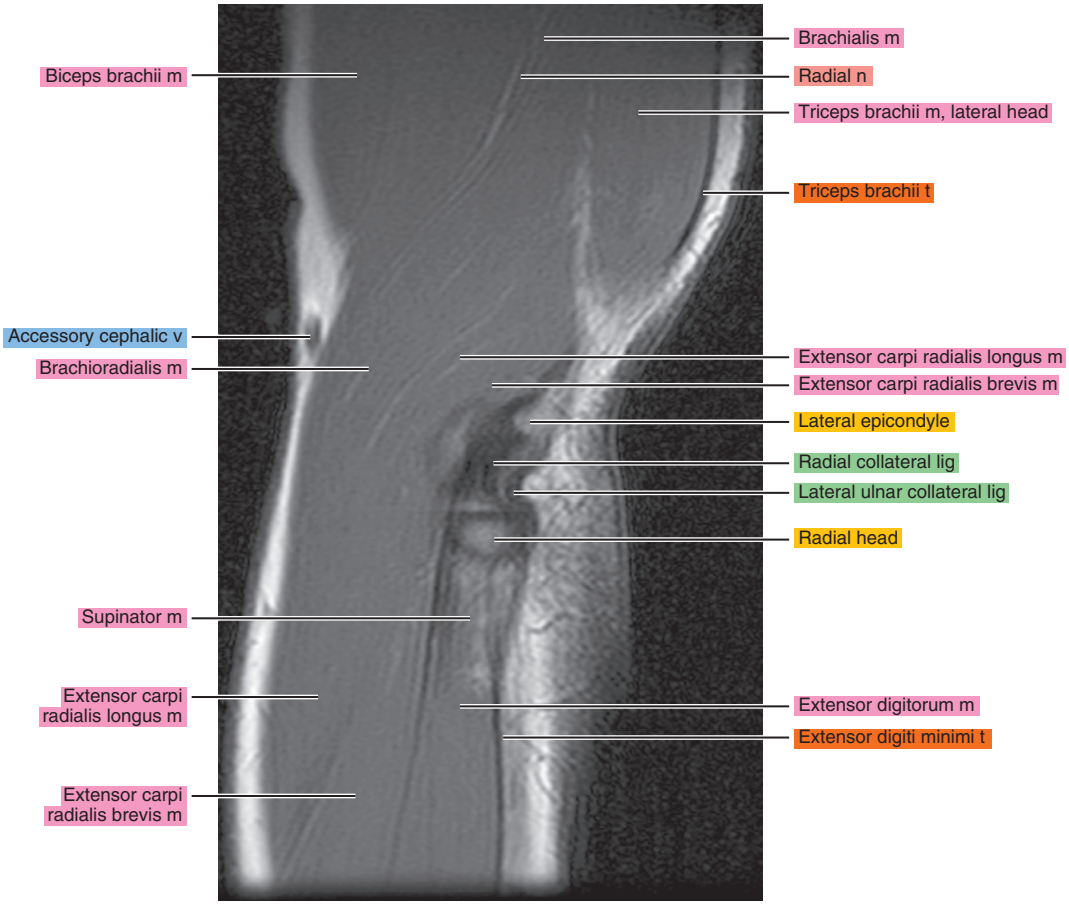

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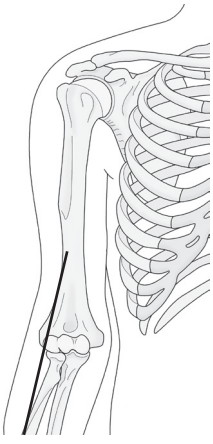

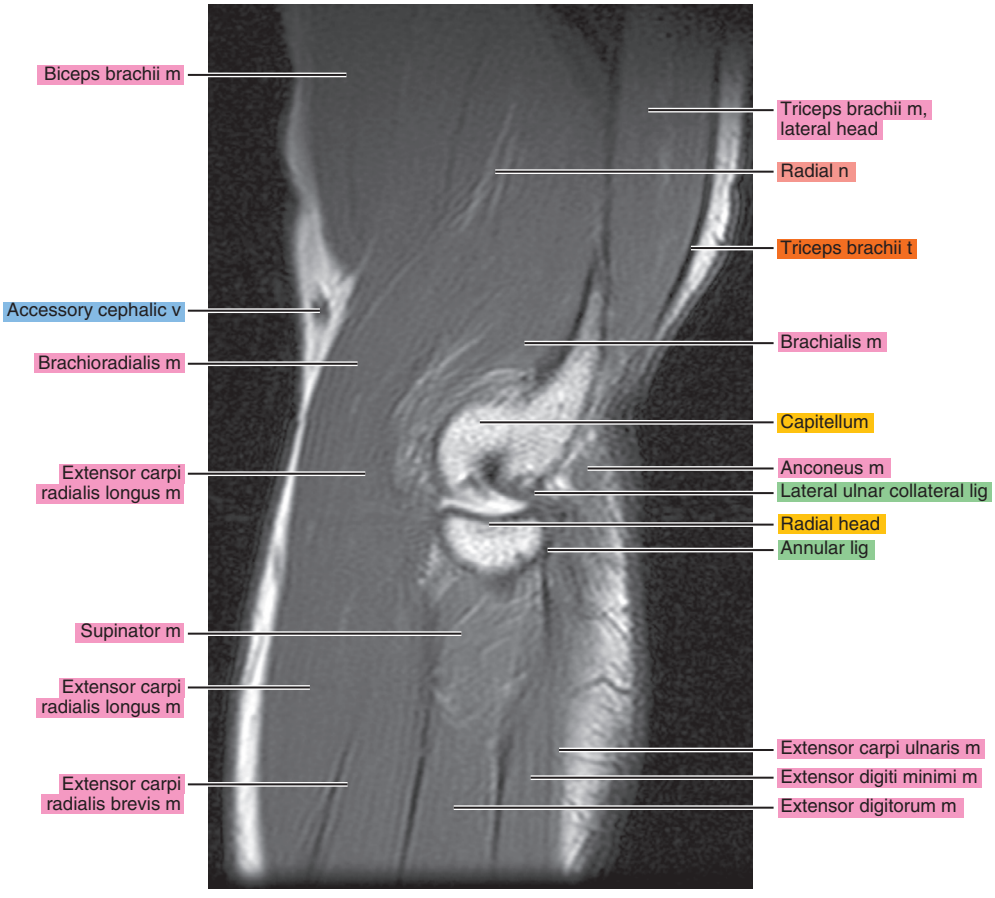

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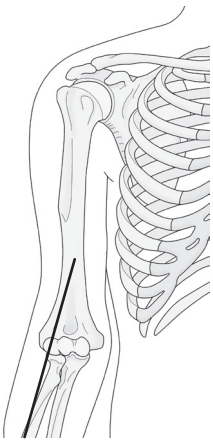

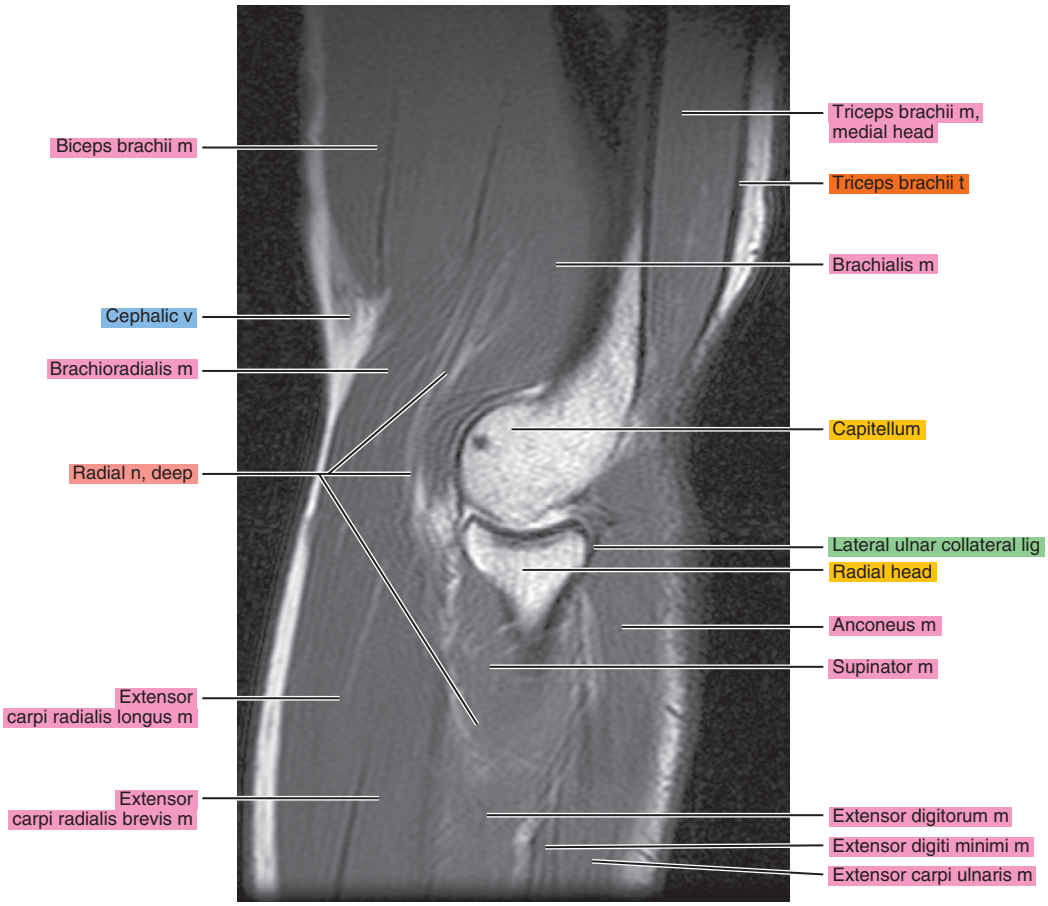

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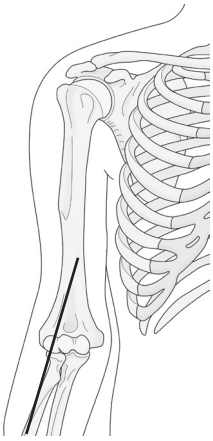

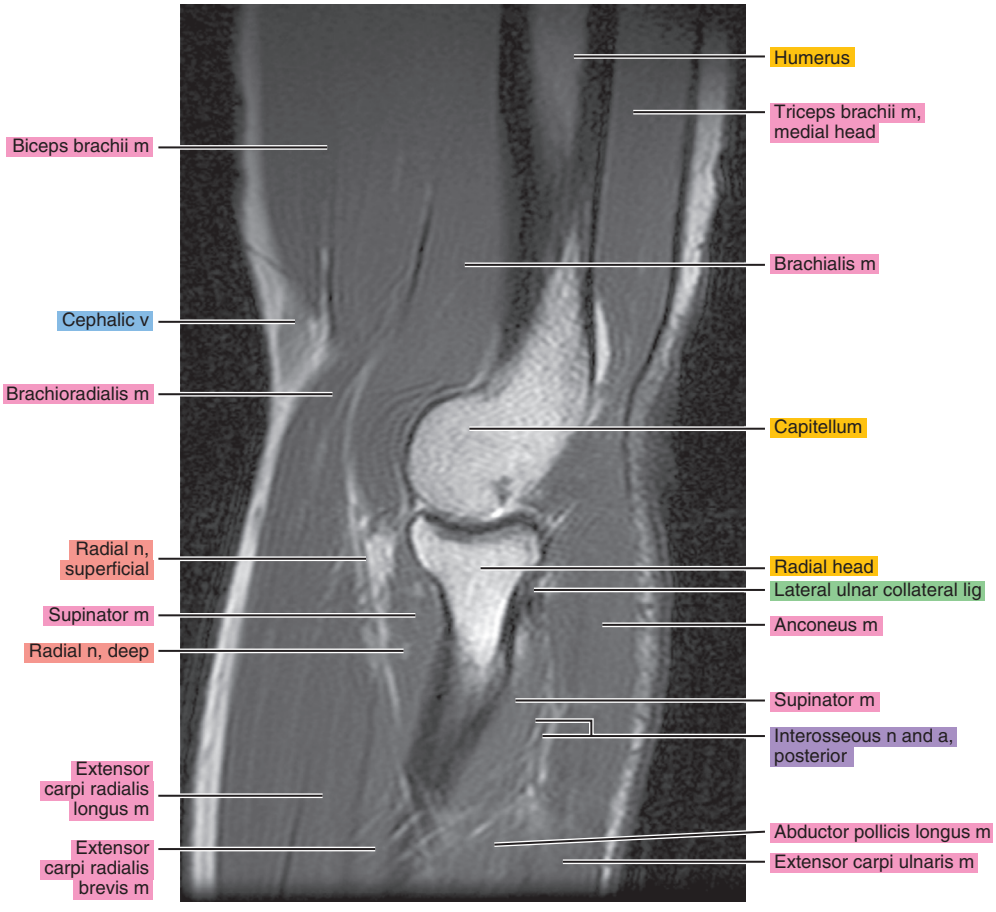

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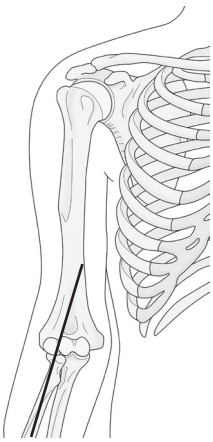

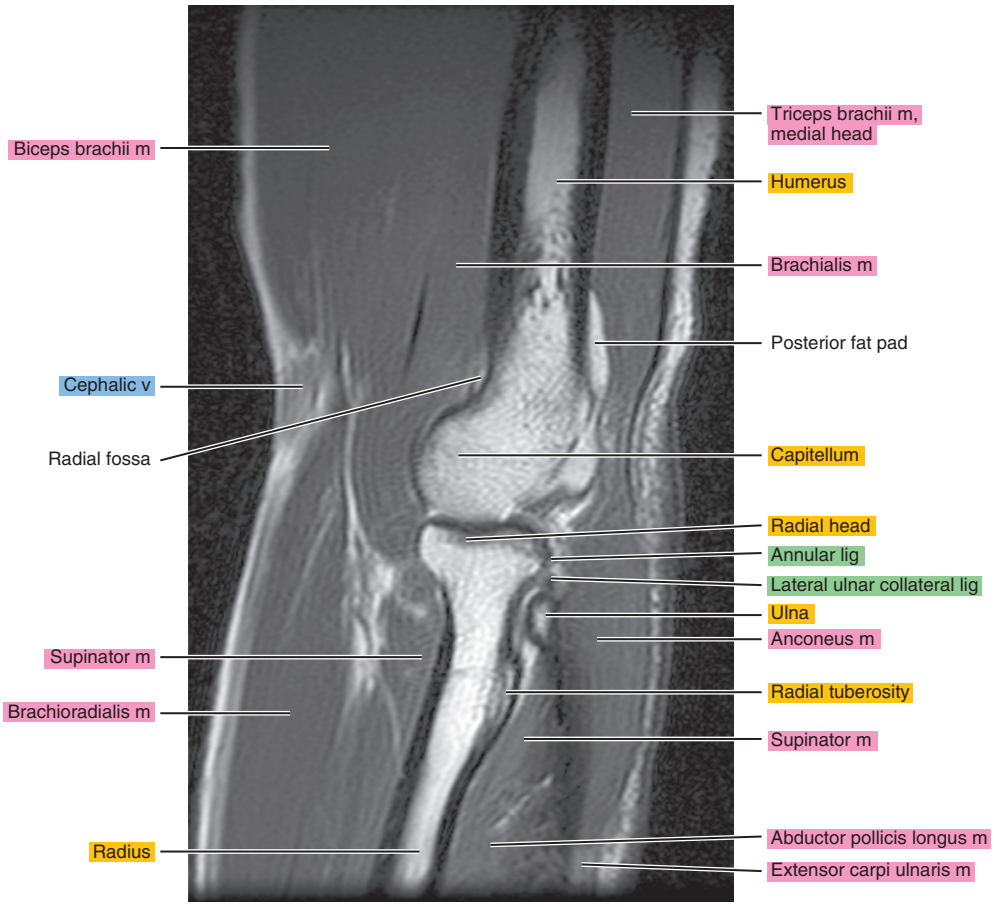

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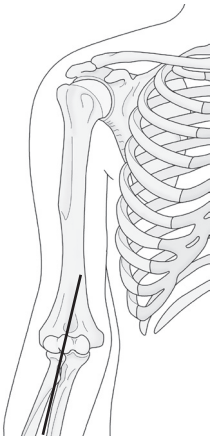

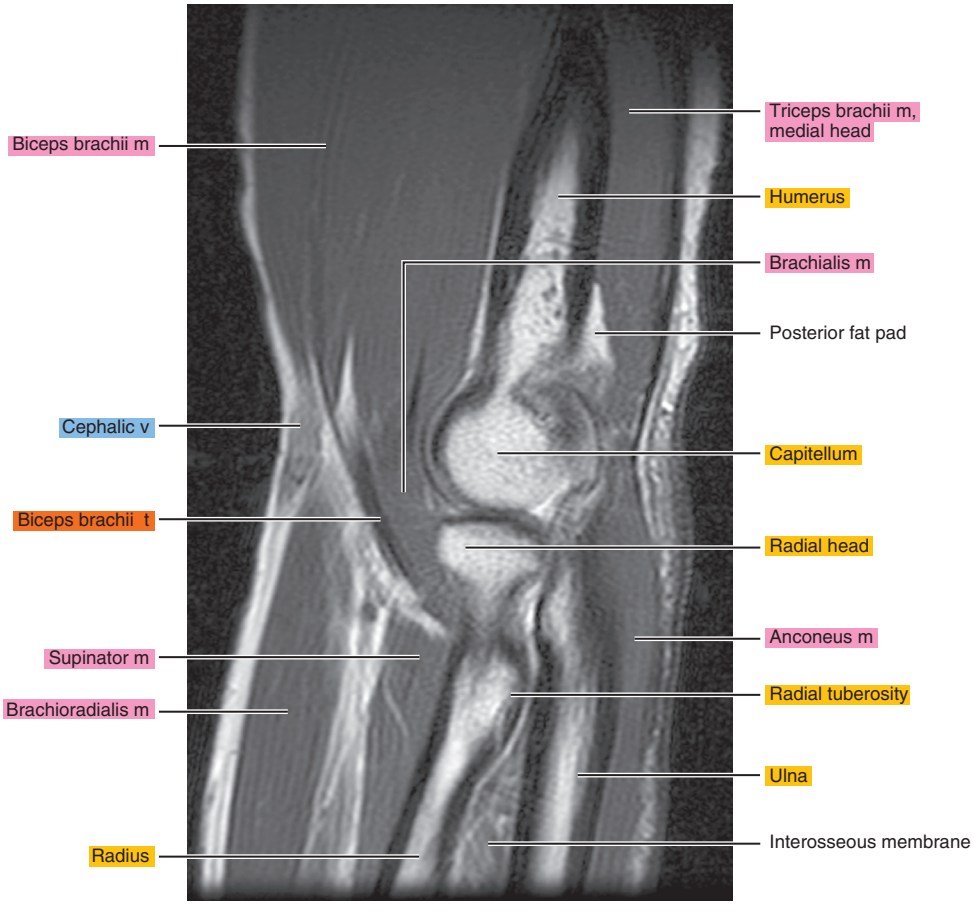

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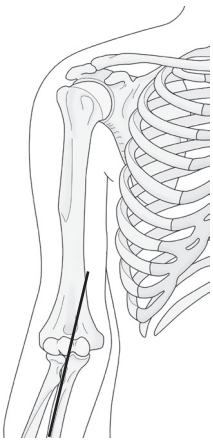

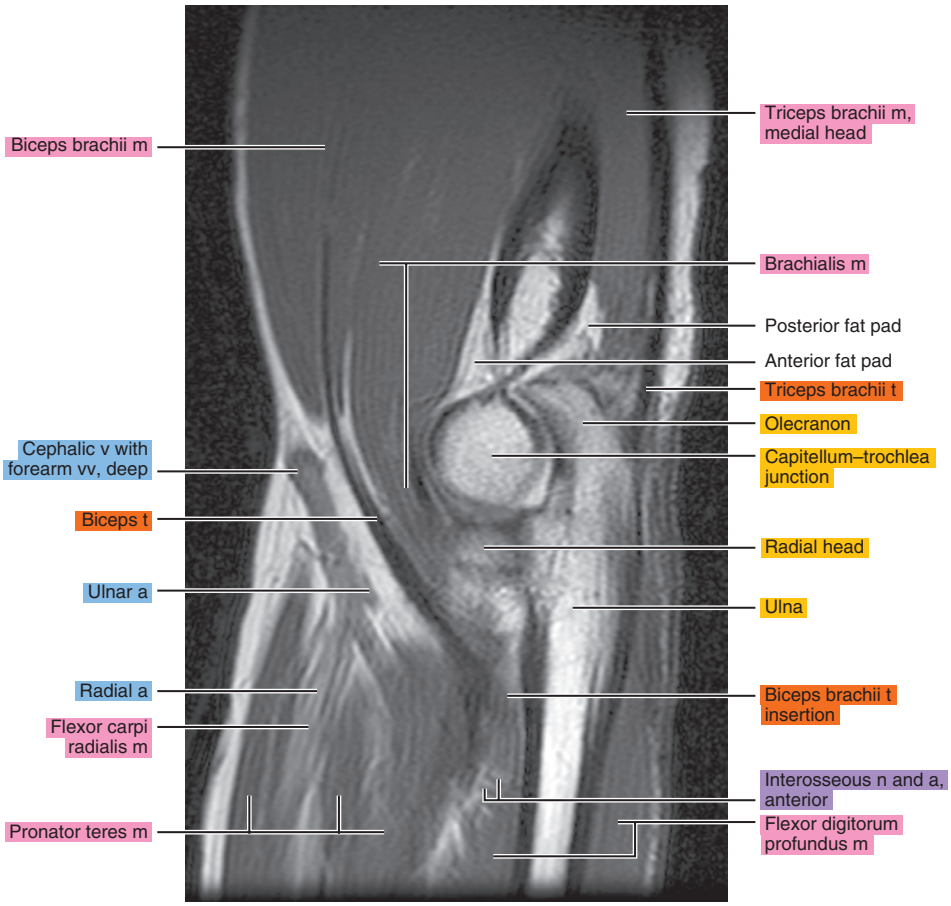

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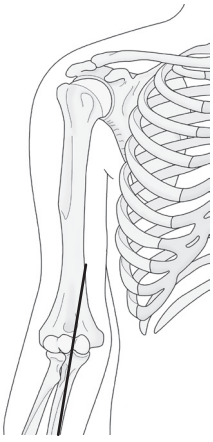

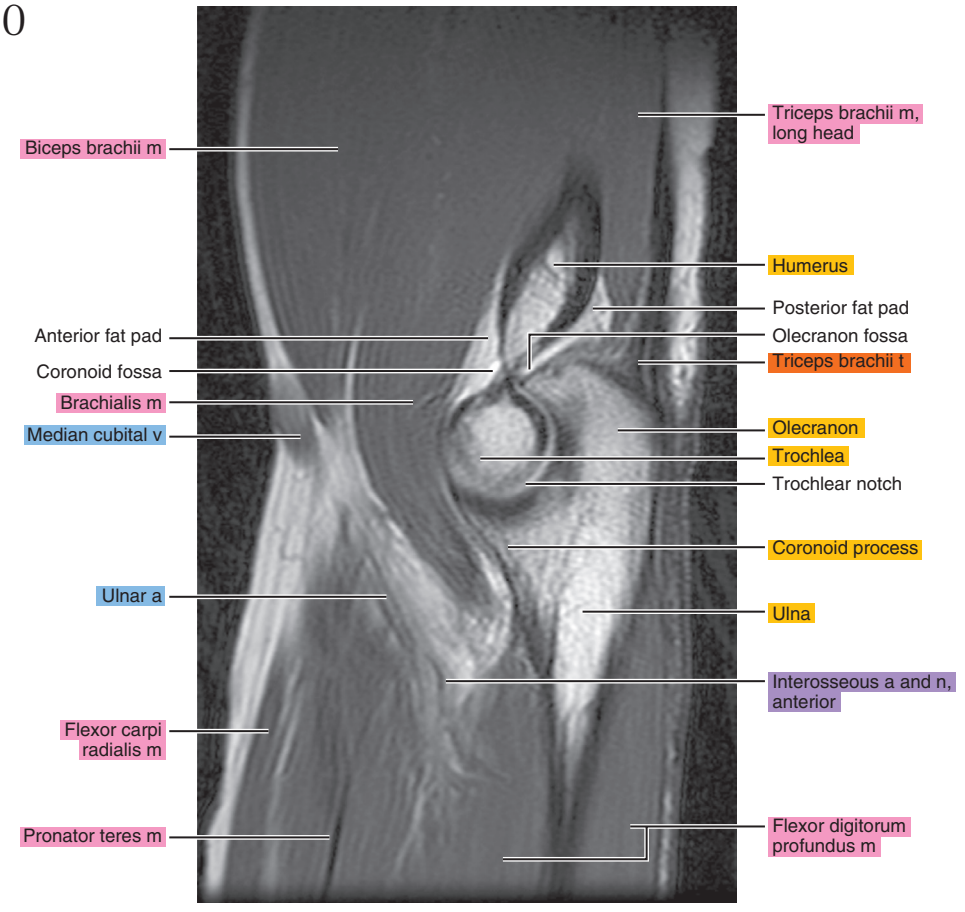

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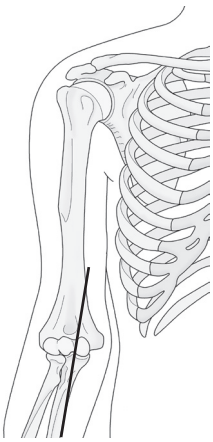

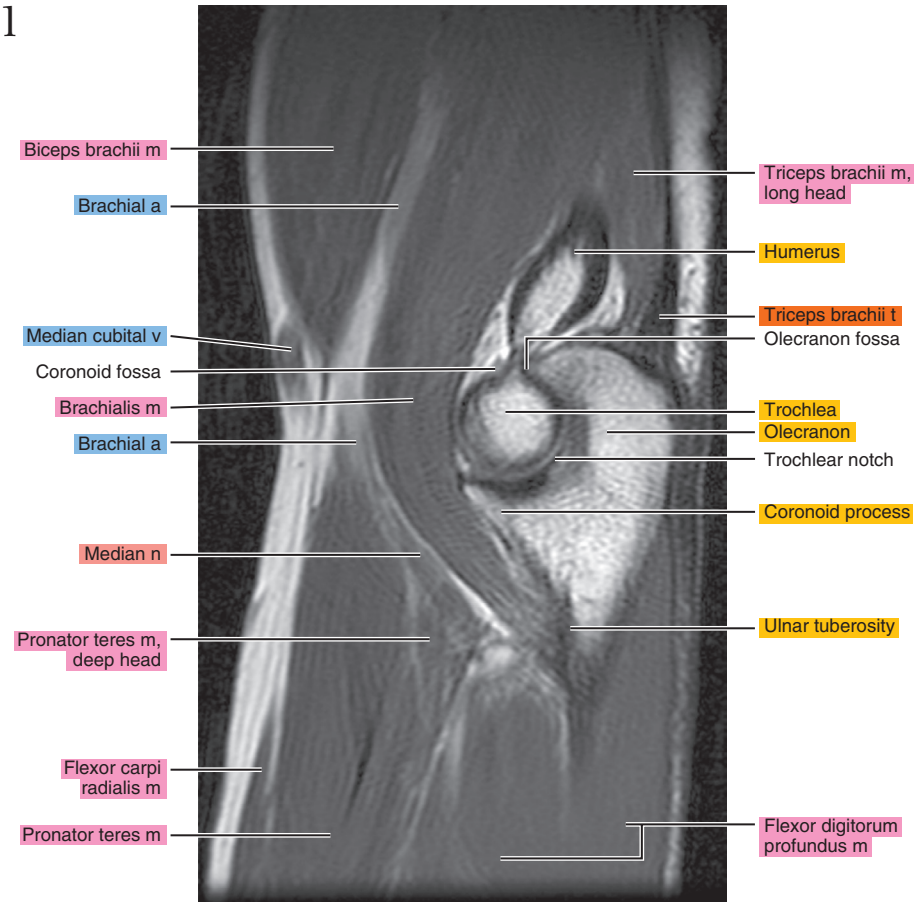

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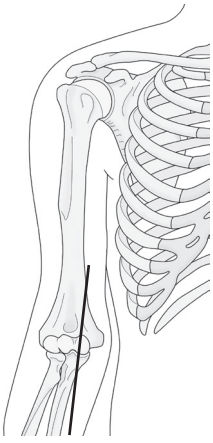

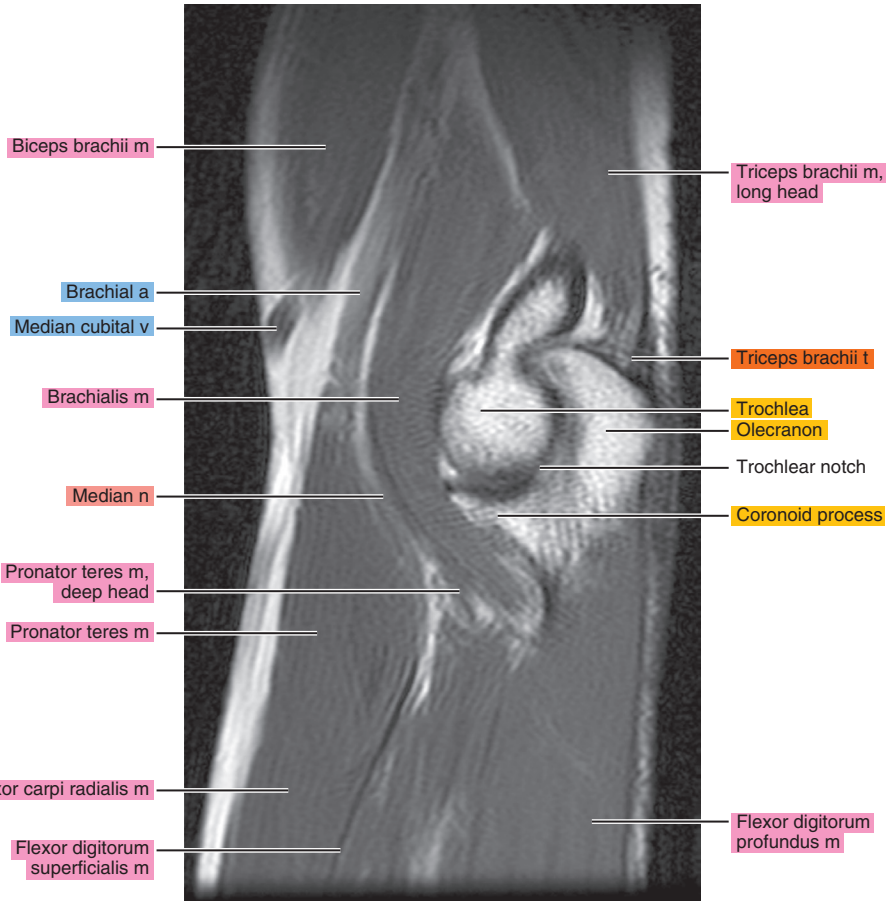

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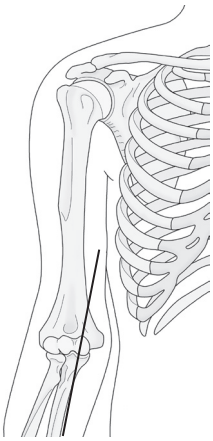

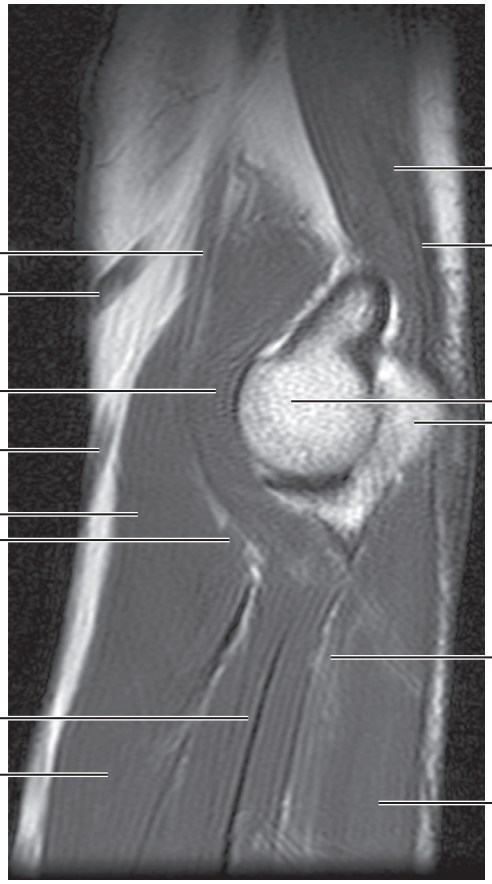

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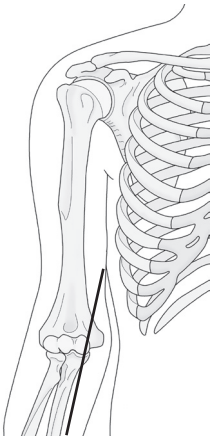

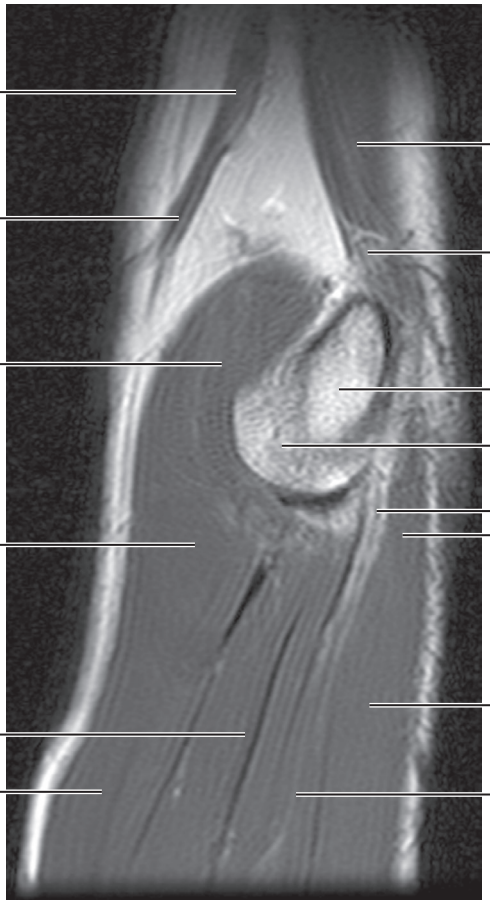

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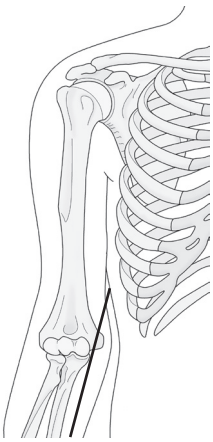

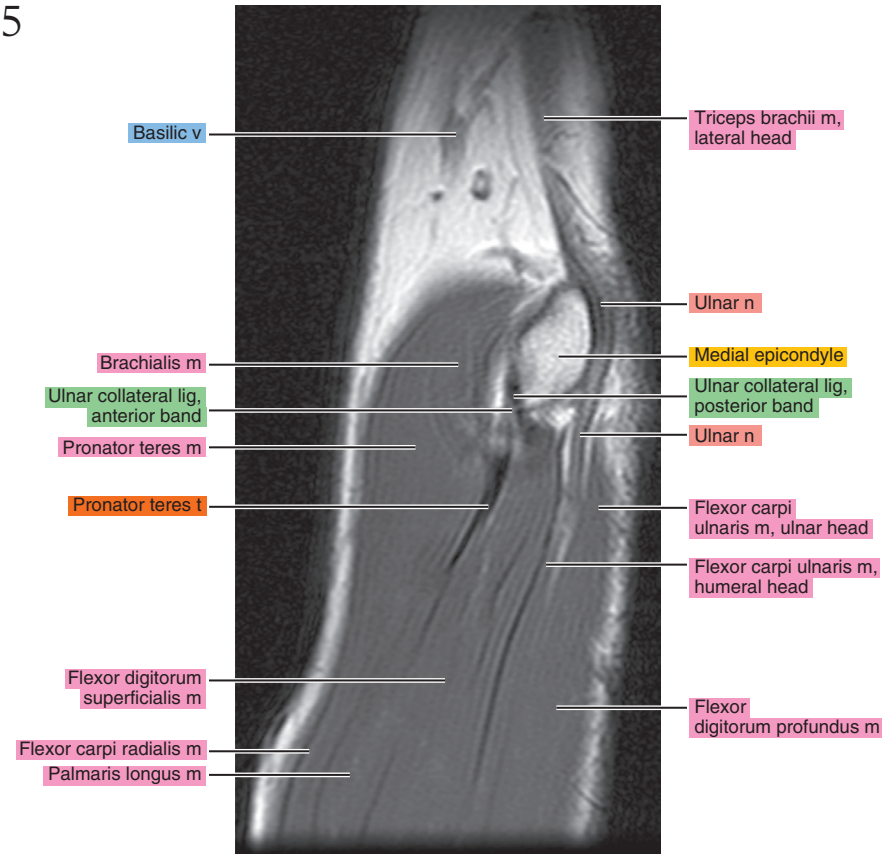

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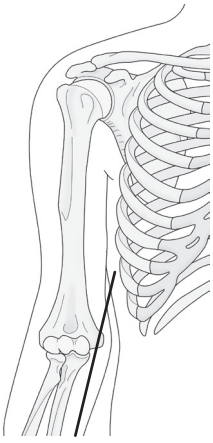

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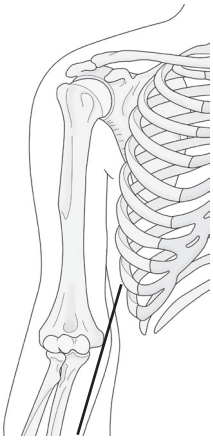
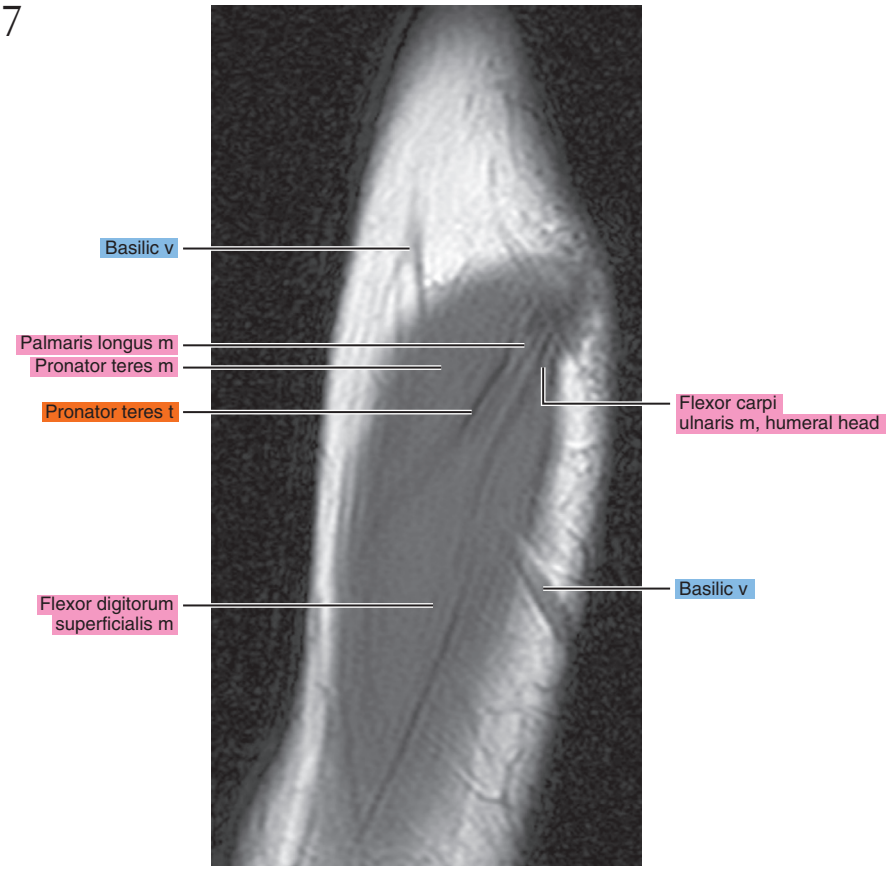
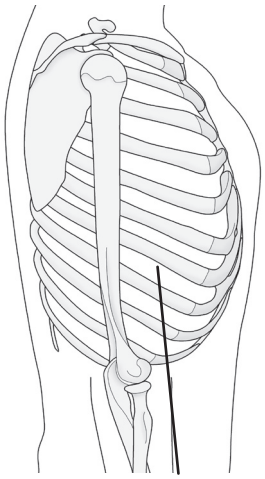
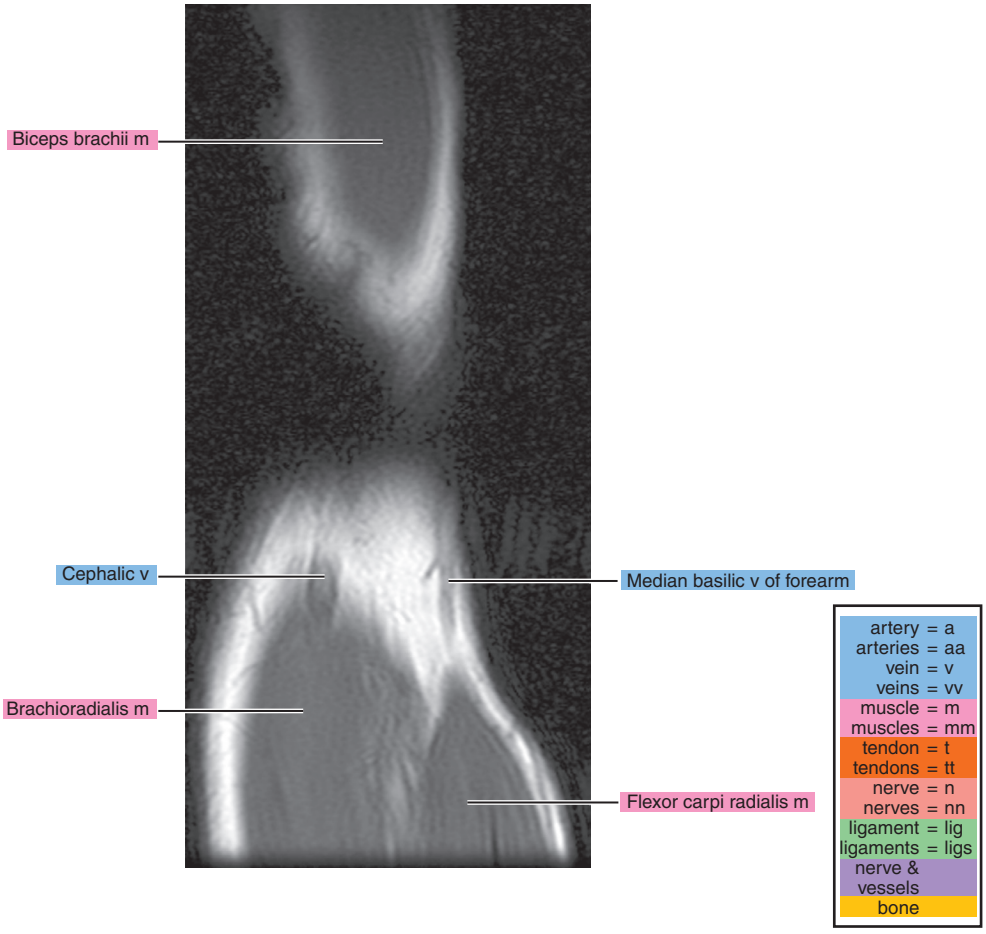



Basilic v
Palmaris longus m
Pronator teres m
Pronator teres t
Flexor digitorum superficialis m
Flexor carpi ulnaris m, humeral head
Basilic v

OBLIQUE CORONAL

Figure 5.3.1





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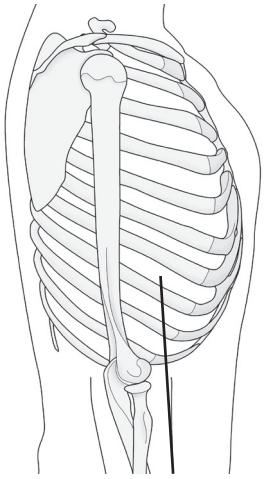

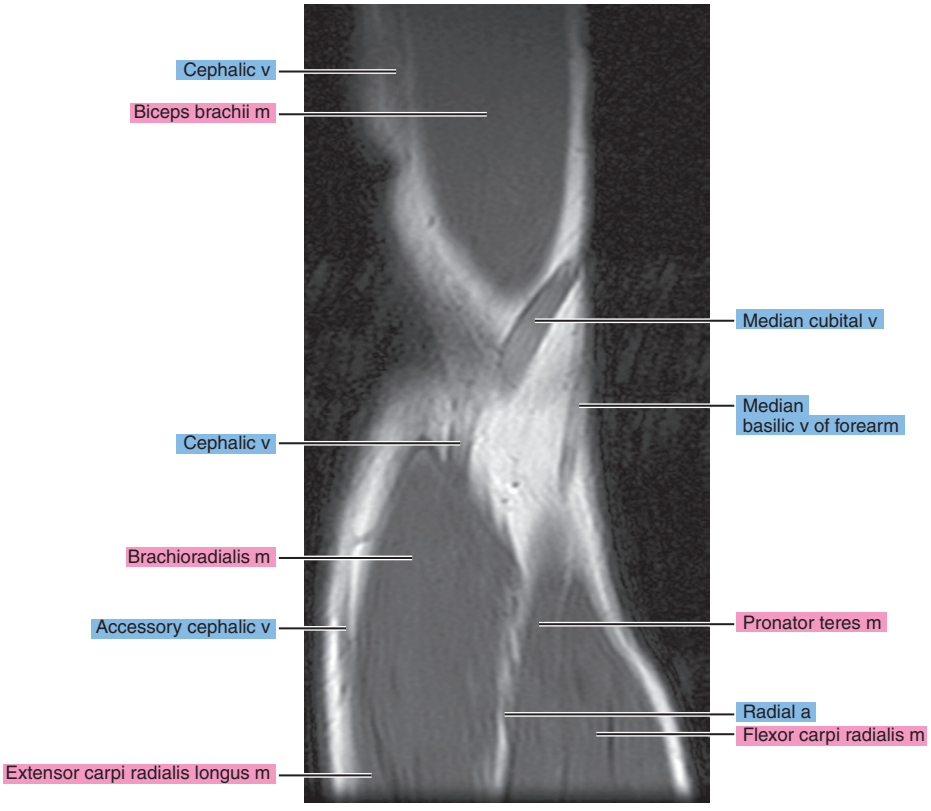

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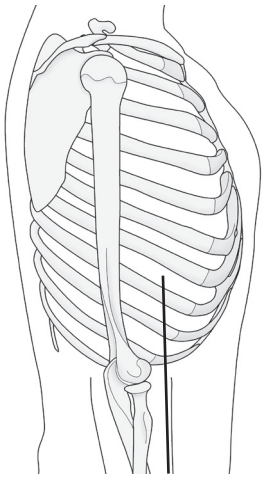

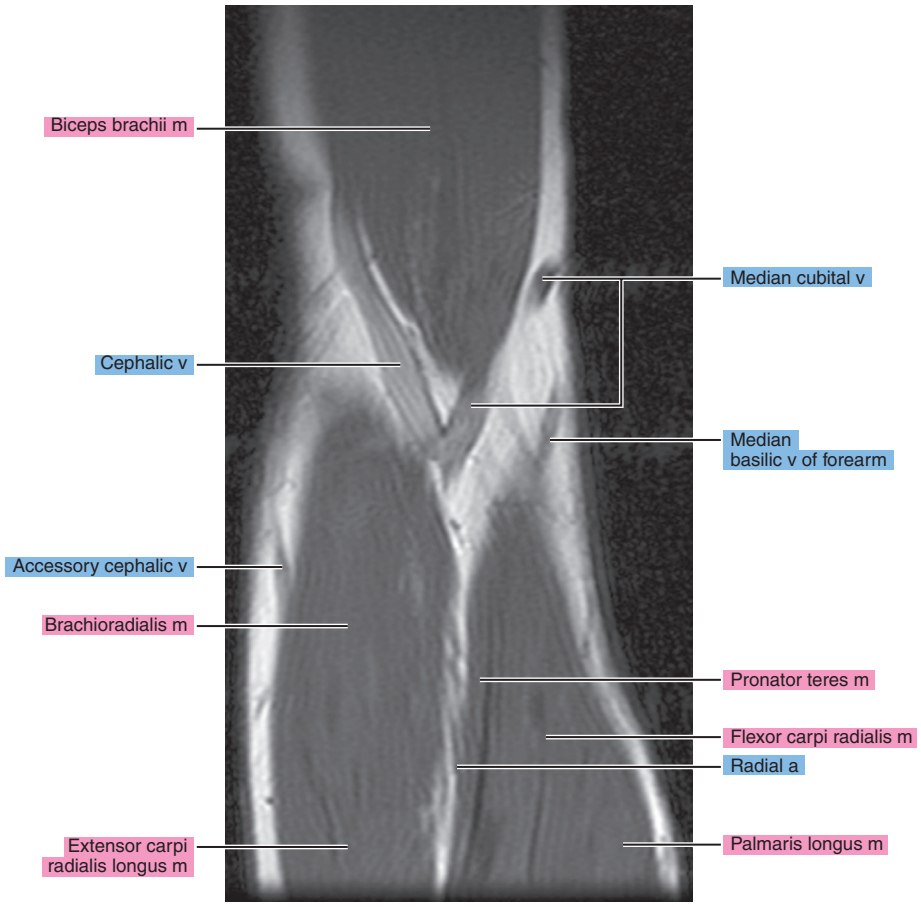

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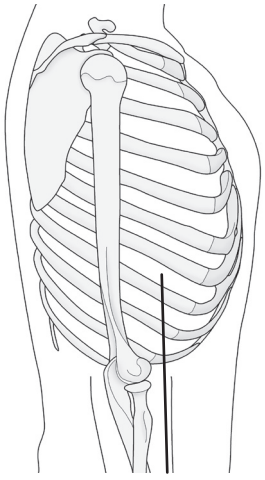

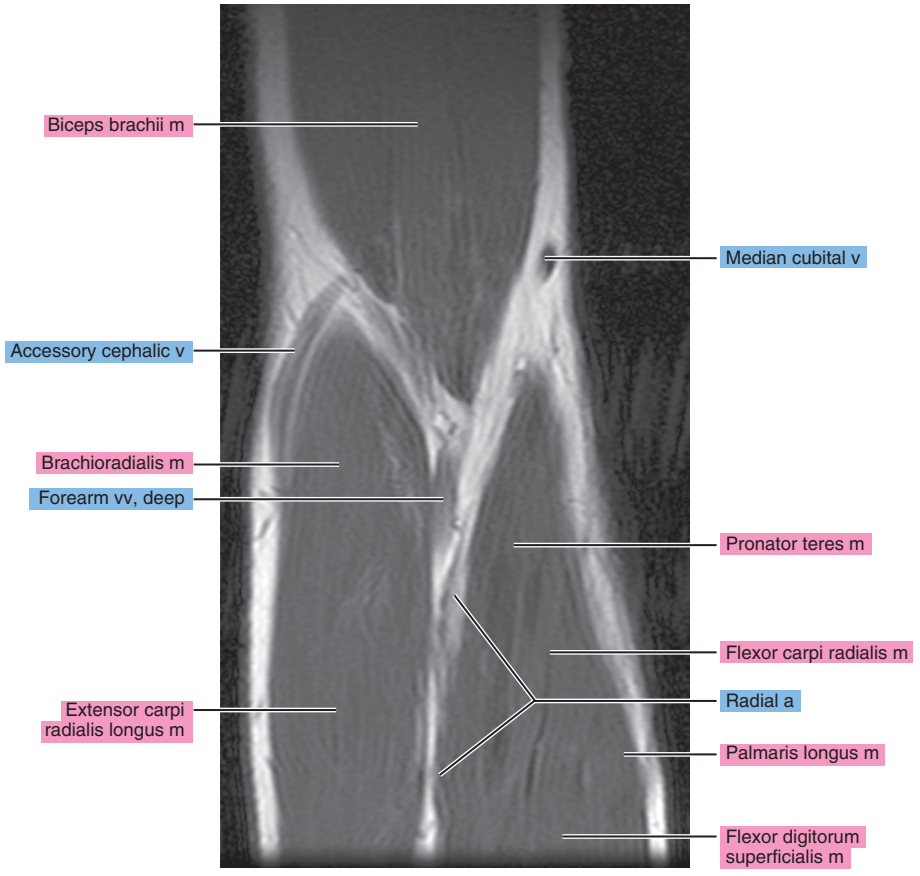

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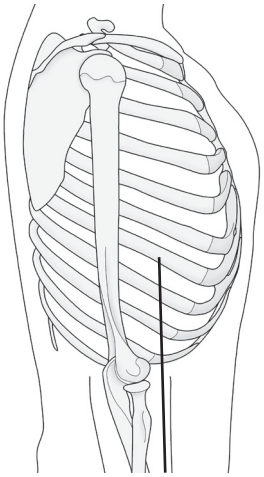

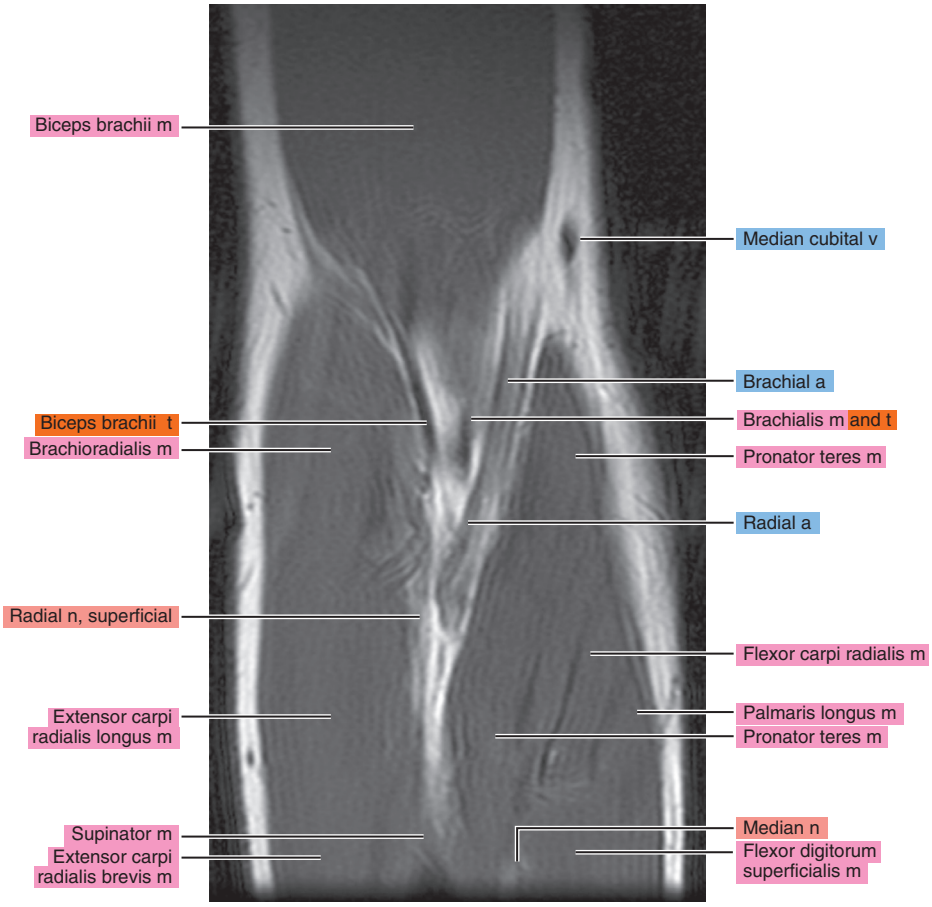

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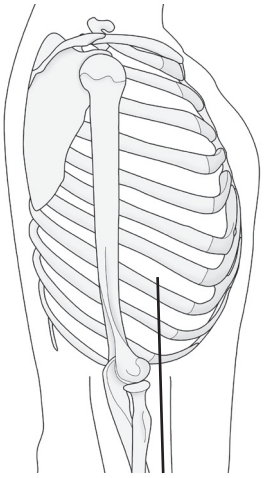

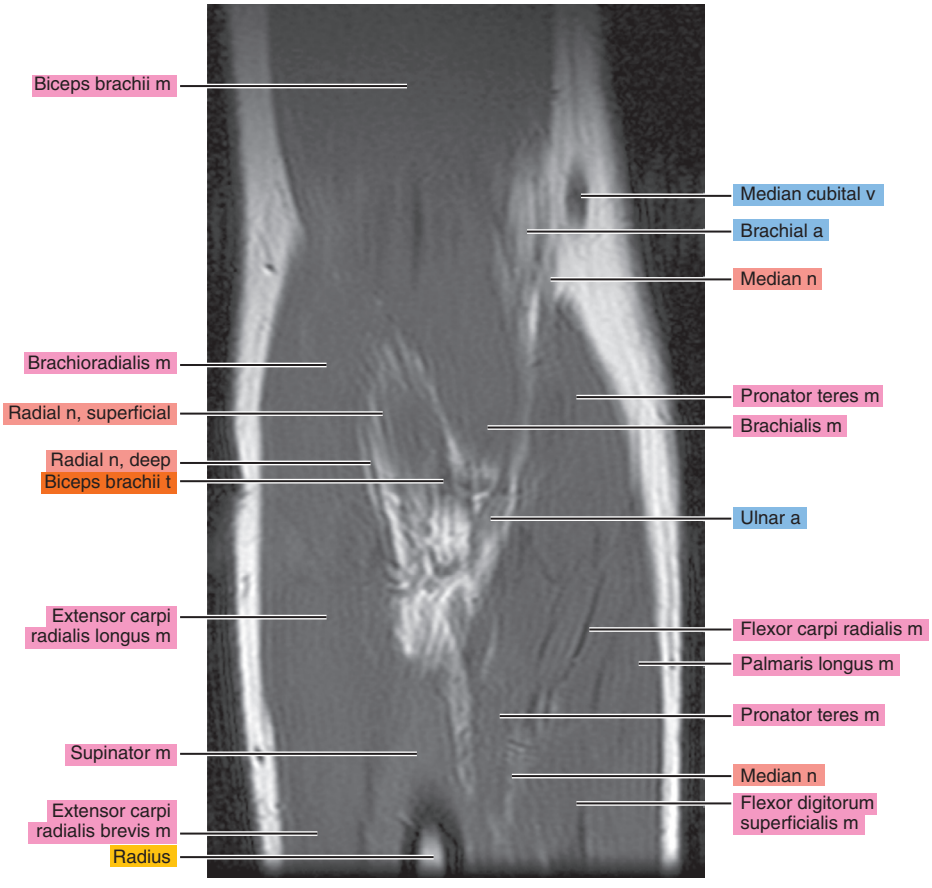

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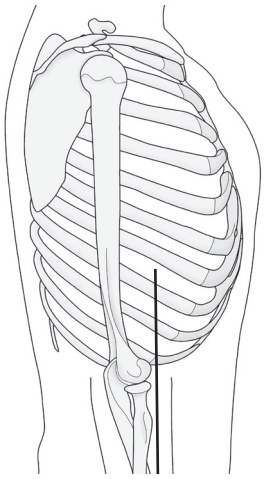

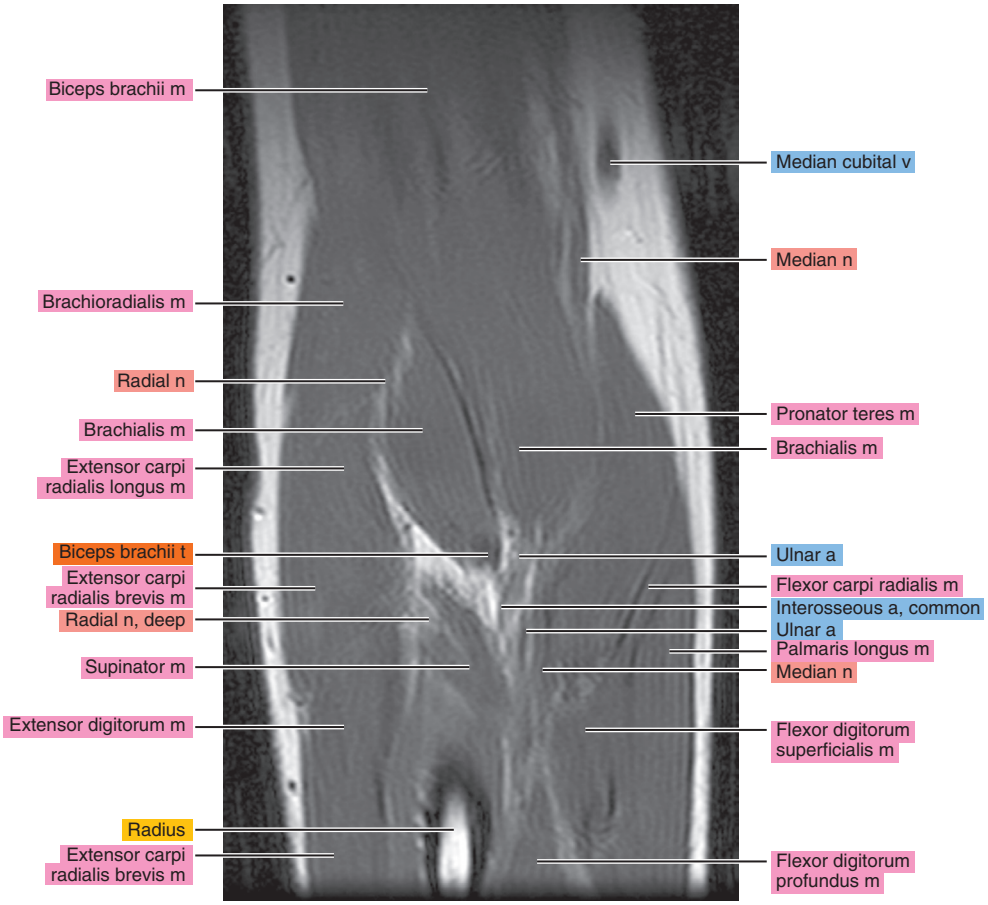

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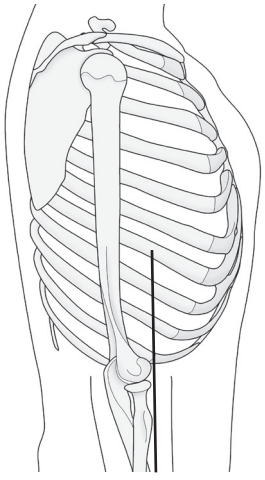

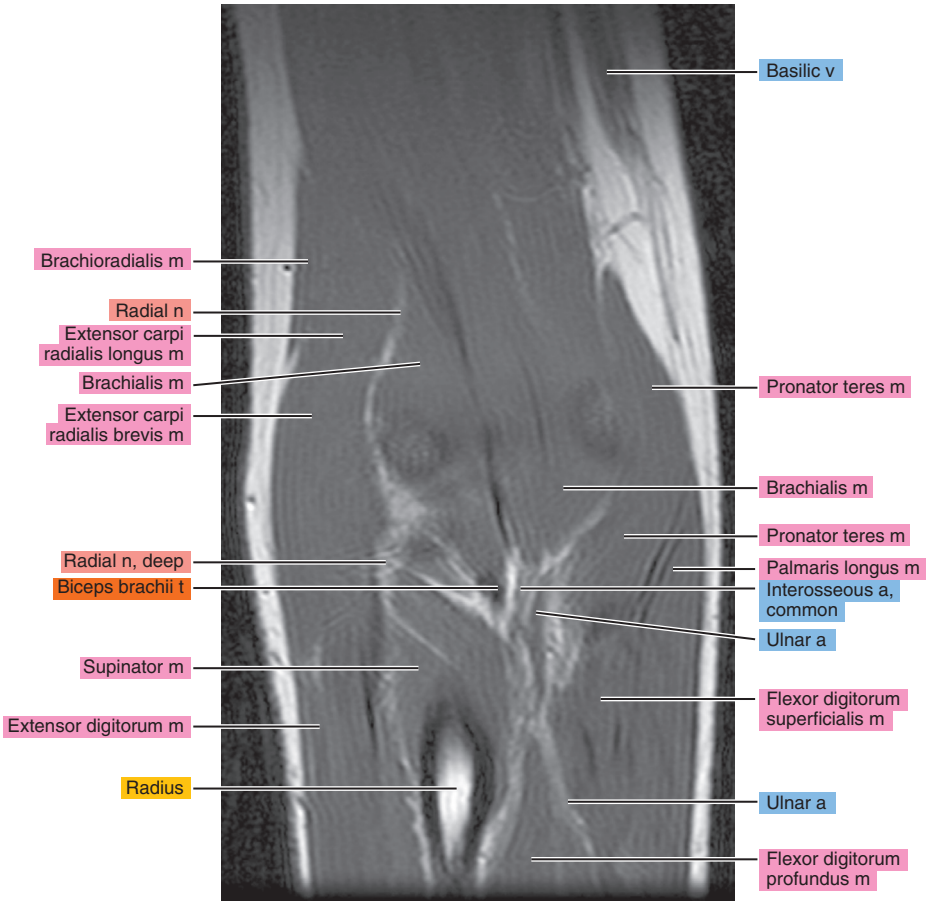

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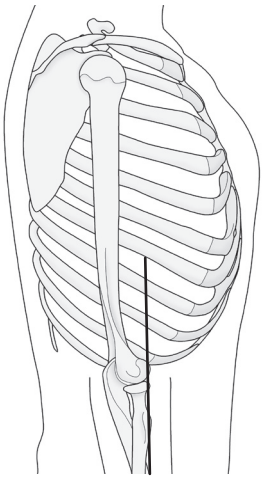

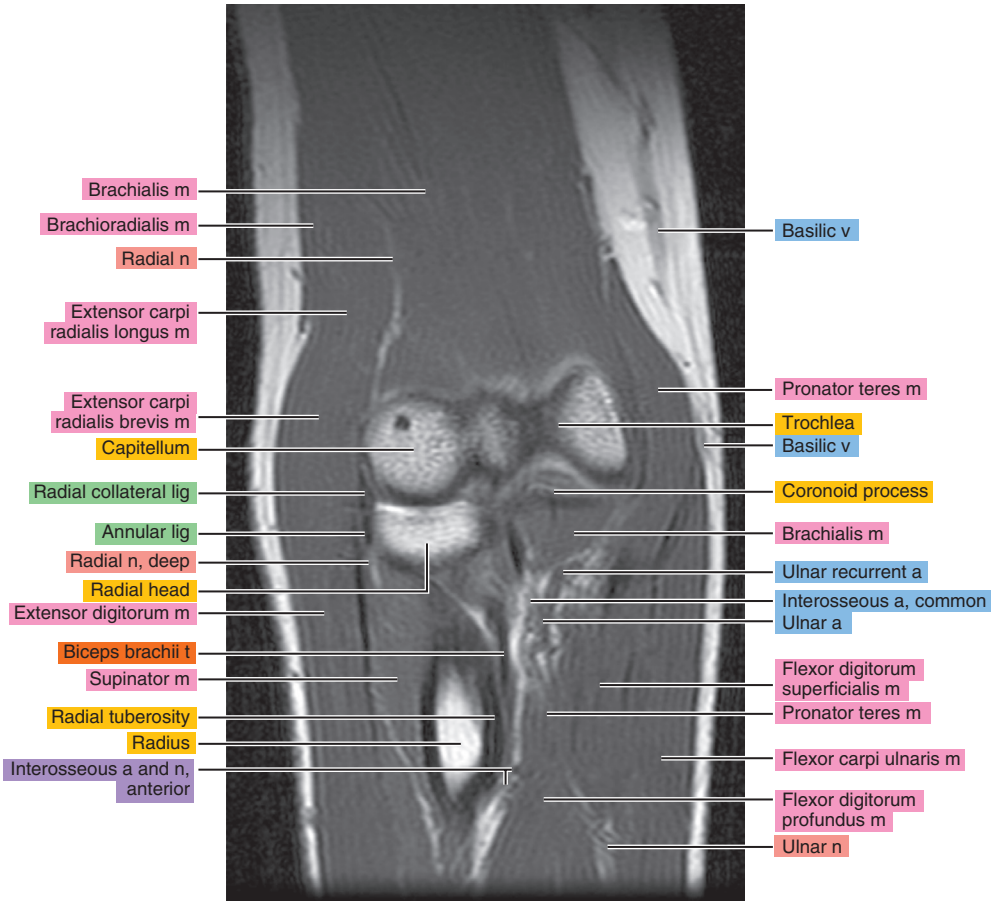

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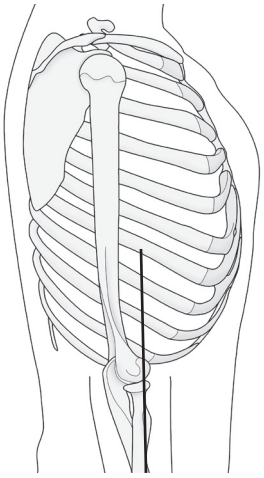

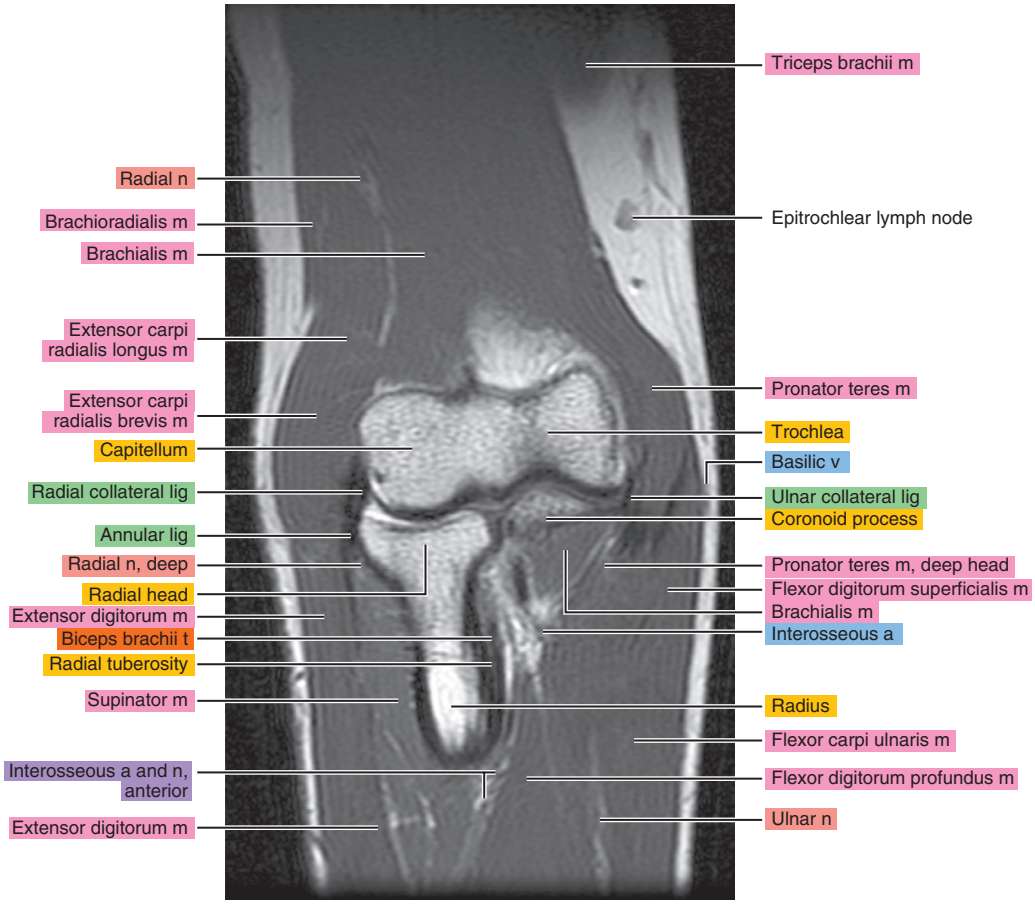

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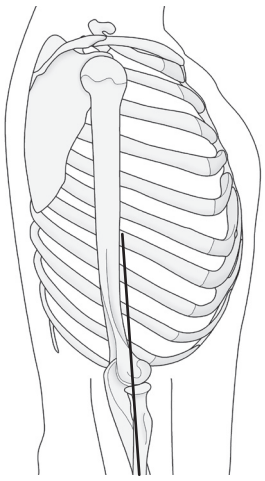

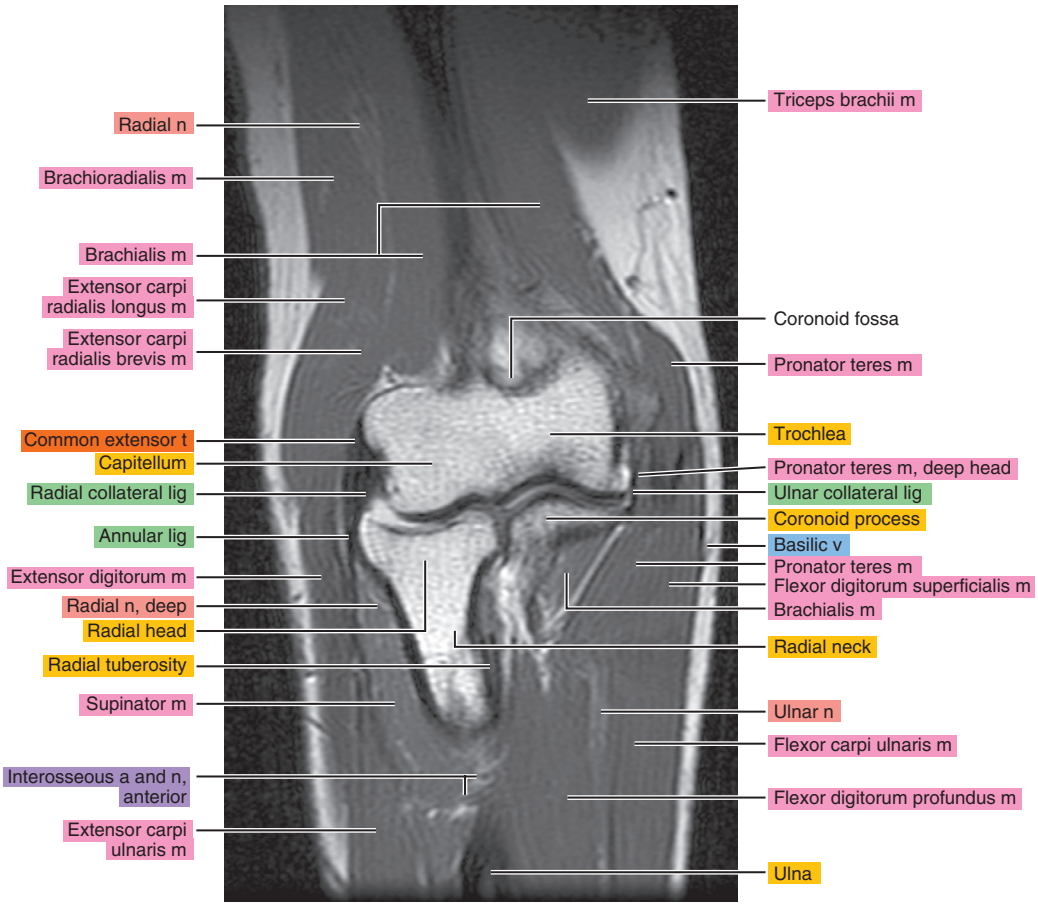

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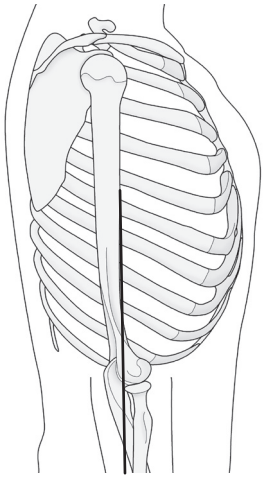

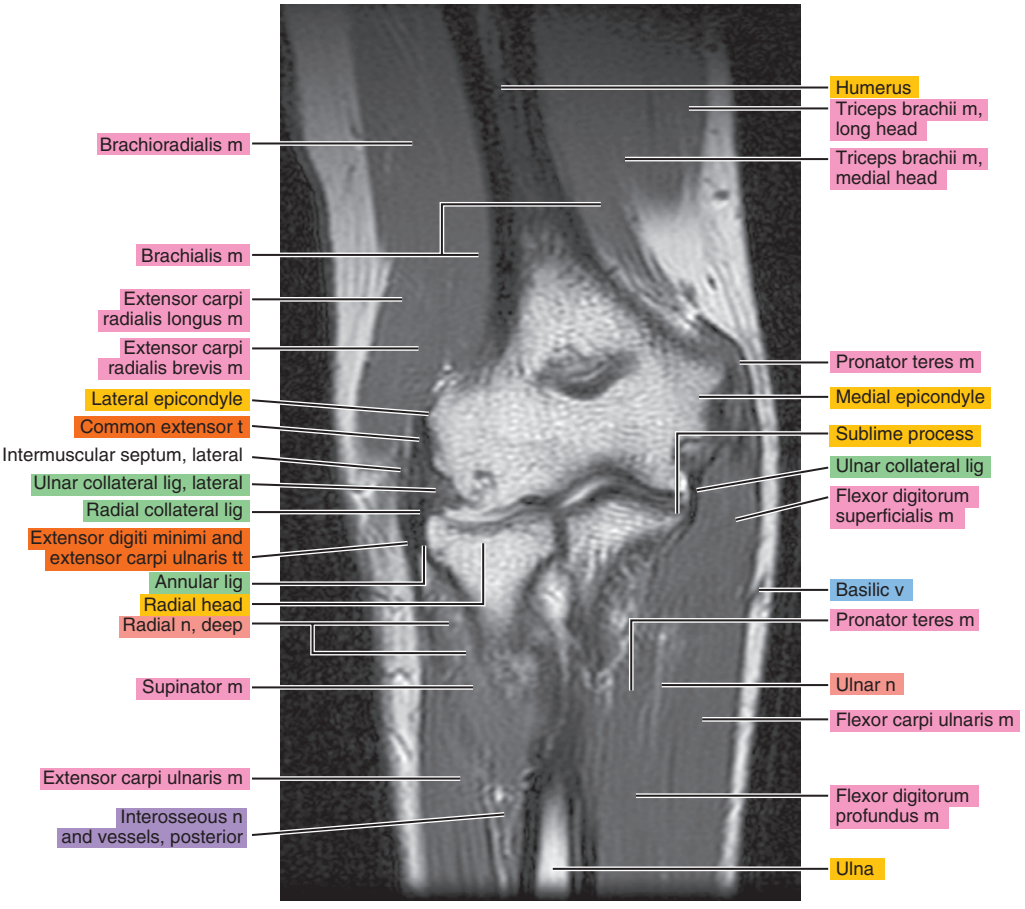

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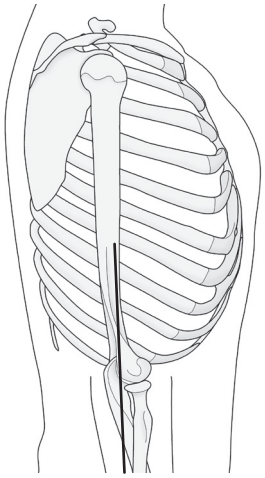

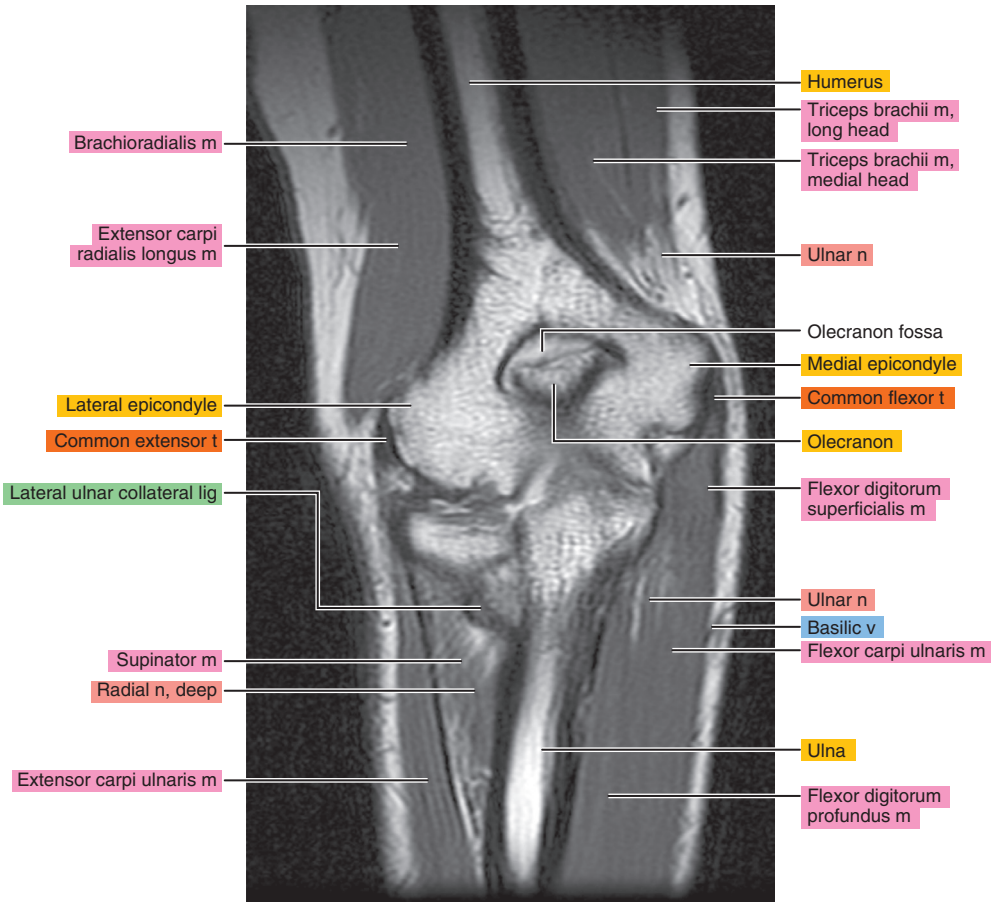

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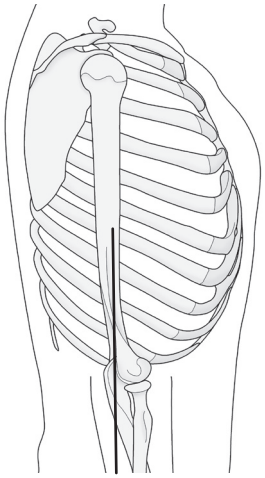

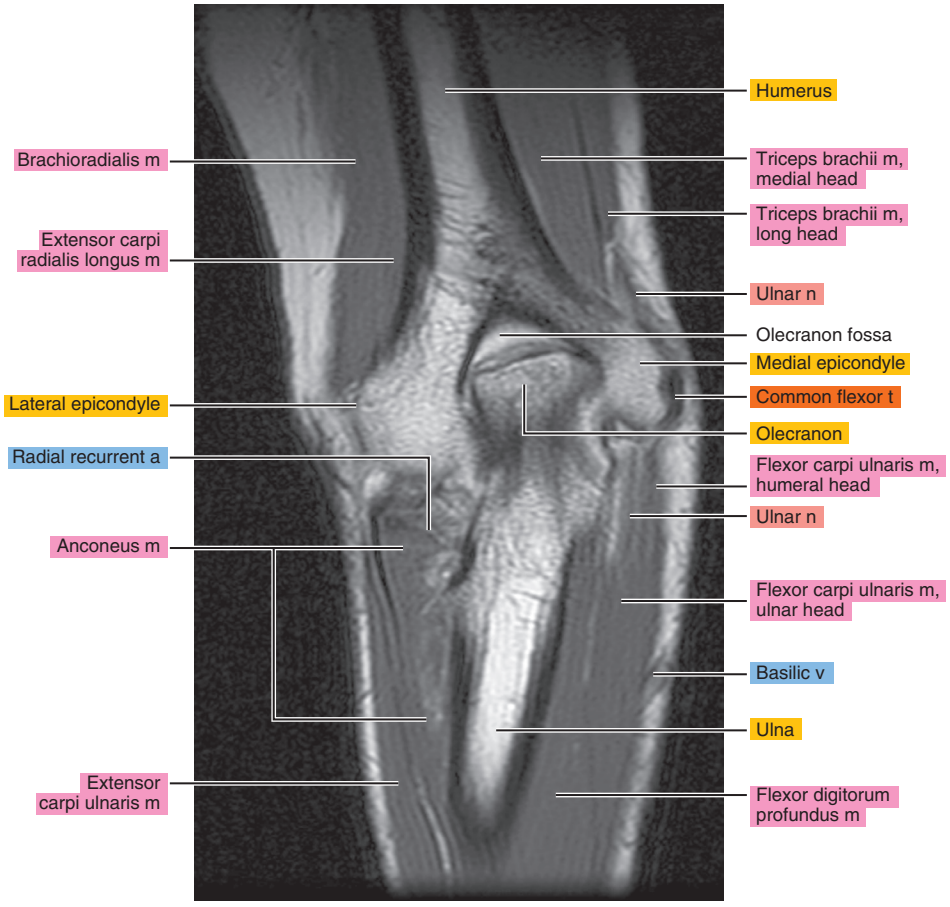

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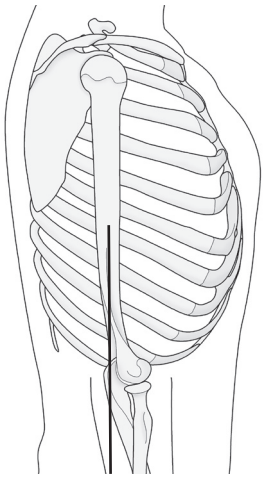

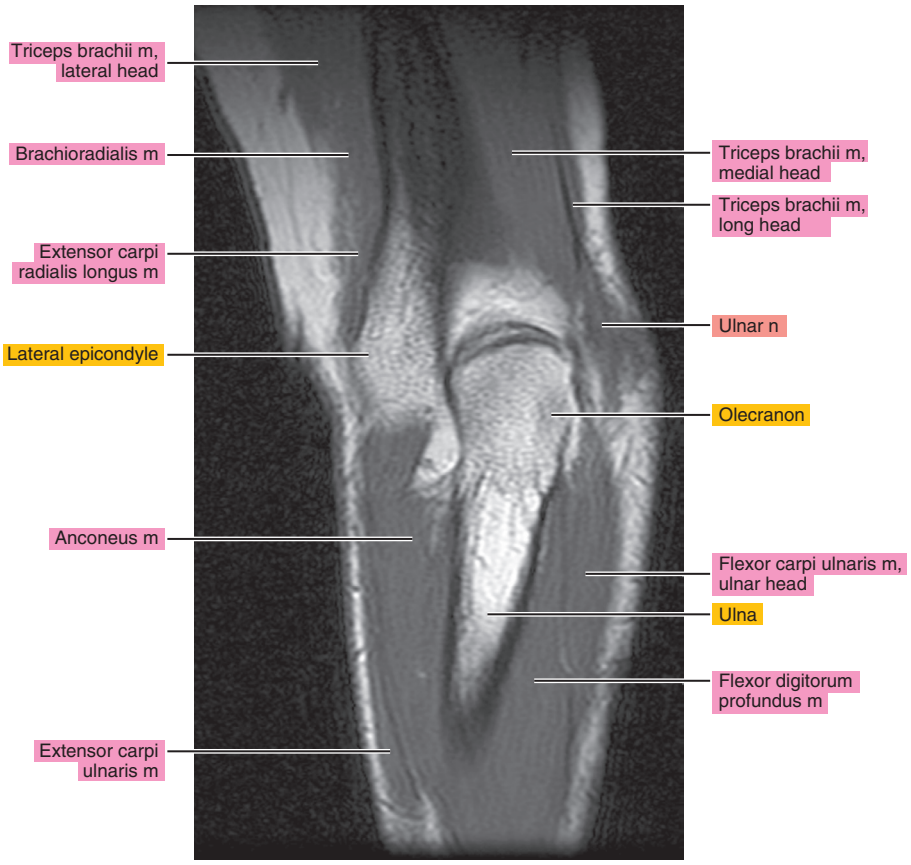

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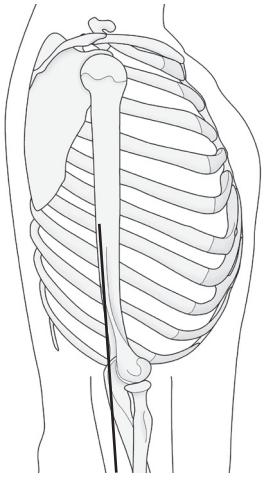

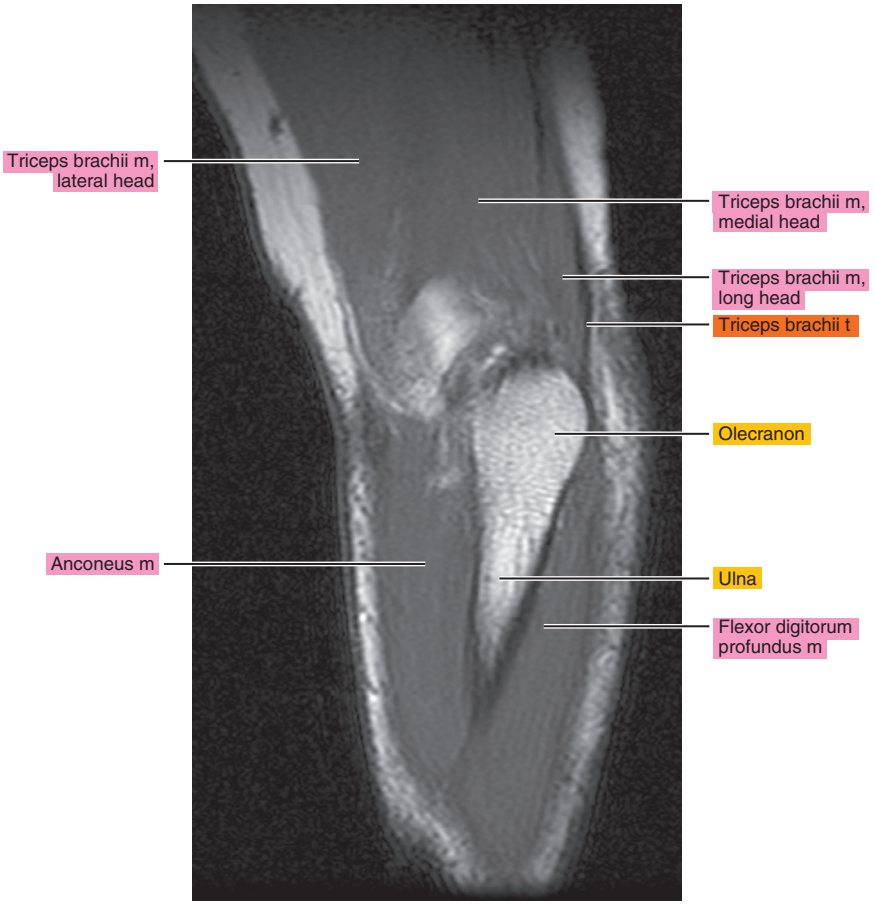

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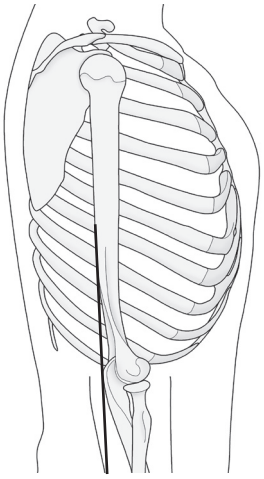
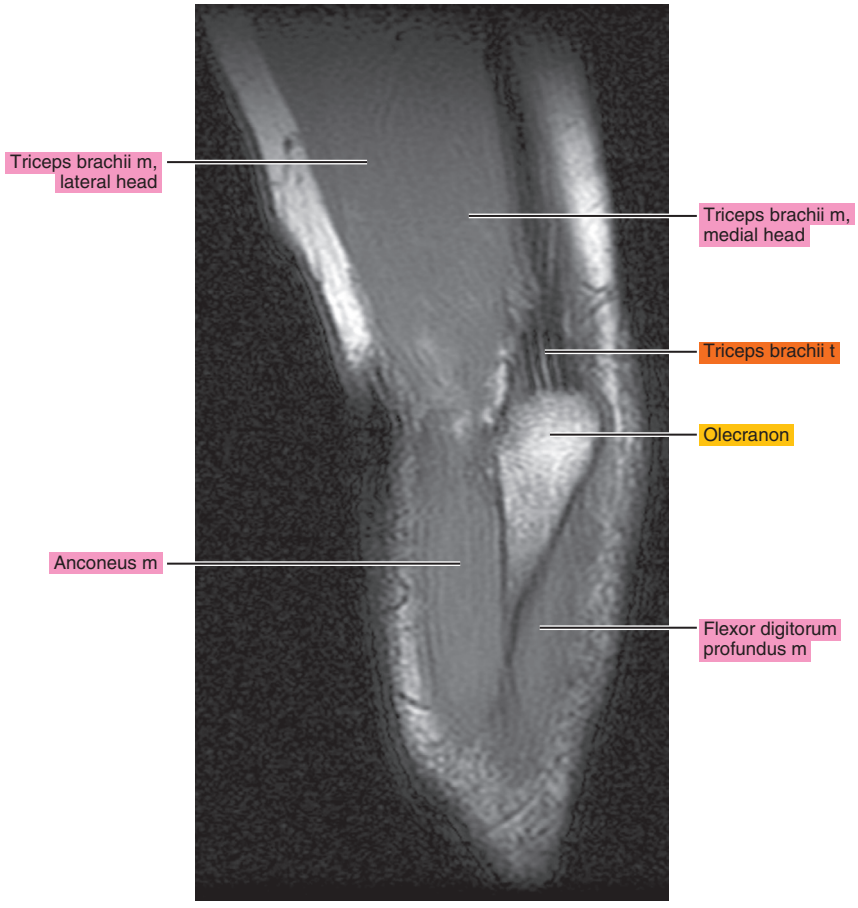



Triceps brachii m, lateral head
Triceps brachii m, medial head
Triceps brachii t
Olecranon
Anconeus m
Flexor digitorum profundus m

Chapter

6

MRI of the Forearm

Table 6-1. Muscles of the Forearm

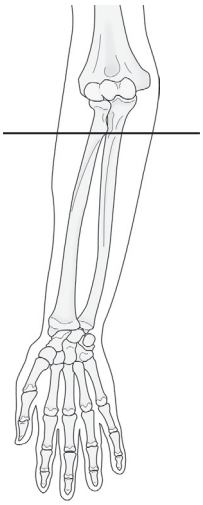
MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Anconeus	Posterior surface of the lateral epicondyle, and adjacent capsular ligament of the elbow	Onto the radial side of the olecranon and adjacent shaft of the ulna	Nerve to anconeus (C7, C8, T1)
Brachioradialis	Upper two thirds of the lateral epicondylar ridge of the humerus and the anterior surface of the lateral intermuscular septum	Lateral side of the base of the styloid process of the radius	Radial (C5, C6, C7)
Extensor carpi radialis longus	Lower third of the lateral epicondylar ridge, lateral intermuscular septum, and extensor tendons from the lateral epicondyle	Lateral aspect of the base of the second metacarpal	Radial (C5, C6, C7)
Extensor carpi radialis brevis	Common extensor tendon from the lateral epicondyle, intermuscular septa, and radial collateral ligament of the elbow joint	Dorsal aspect of the base of the third metacarpal	Radial or deep radial (posterior interosseus) (C7, C8)
Extensor digitorum	Common extensor tendon	Dorsal digital fibrous expansion covering the dorsum of the proximal phalanx and sides of its base, base of the middle, and distal phalanges	Deep radial (posterior interosseus) (C7, C8)
Extensor digiti minimi	Intermuscular septa, overlying fascia, and common extensor tendon	Base of the proximal phalanx of the little finger	Deep radial (posterior interosseus) (C7, C8)
Extensor carpi ulnaris	Two heads: (1) distal dorsal aspect of the lateral epicondyle, and (2) proximal three fourths of the dorsal border of the ulna	Onto a tubercle at the base of the fifth metacarpal	Deep radial (posterior interosseus) (C7, C8)
Supinator	Dorsal aspect of the lateral epicondyle, ulnar depression distal to the radial notch, and supinator crest	Lateral surface of the radius between the anterior and posterior oblique lines	Deep radial (posterior interosseous) (C5, C6)
Abductor pollicis longus	Lateral edge of the proximal part of the middle third of the ulna, adjacent interosseous membrane, dorsal surface of the radius, and, occasionally, the intermuscular septa	Radial side of the ventral aspect of the base of the first metacarpal	Deep radial (posterior interosseus) (C7, C8)
Extensor pollicis brevis	Distal end of the middle third of the radius in its dorsal surface, interosseous membrane, and, occasionally, the ulna	Base of the proximal phalanx of the thumb or into the capsule the metacarpophalangeal joint	Deep radial (posterior of interosseus) (C7, C8)
Extensor pollicis longus	Middle third of the dorsal surface of the ulna adjacent to the interosseous membrane	Base of the distal phalanx of the thumb	Deep radial (posterior interosseus) (C7, C8)
Extensor indicis	Proximal part of the distal third of the posterior surface of the ulna interosseous membrane	Dorsal aponeurosis on the ulnar side of the index finger, adjacent to the base of the proximal phalanx	Deep radial (posterior interosseus) (C7, C8)
Pronator teres	Two heads: (1) humeral head (superior half of the ventral surface of the medial epicondyle), and (2) ulnar head (medial border of the coronoid process)	Onto the middle third of lateral surface of the radius	Median (C6, C7)
Flexor carpi radialis	Medial epicondyle of the humerus	Base of the second metacarpal and usually, base of the third metacarpal	Median (C6, C7)

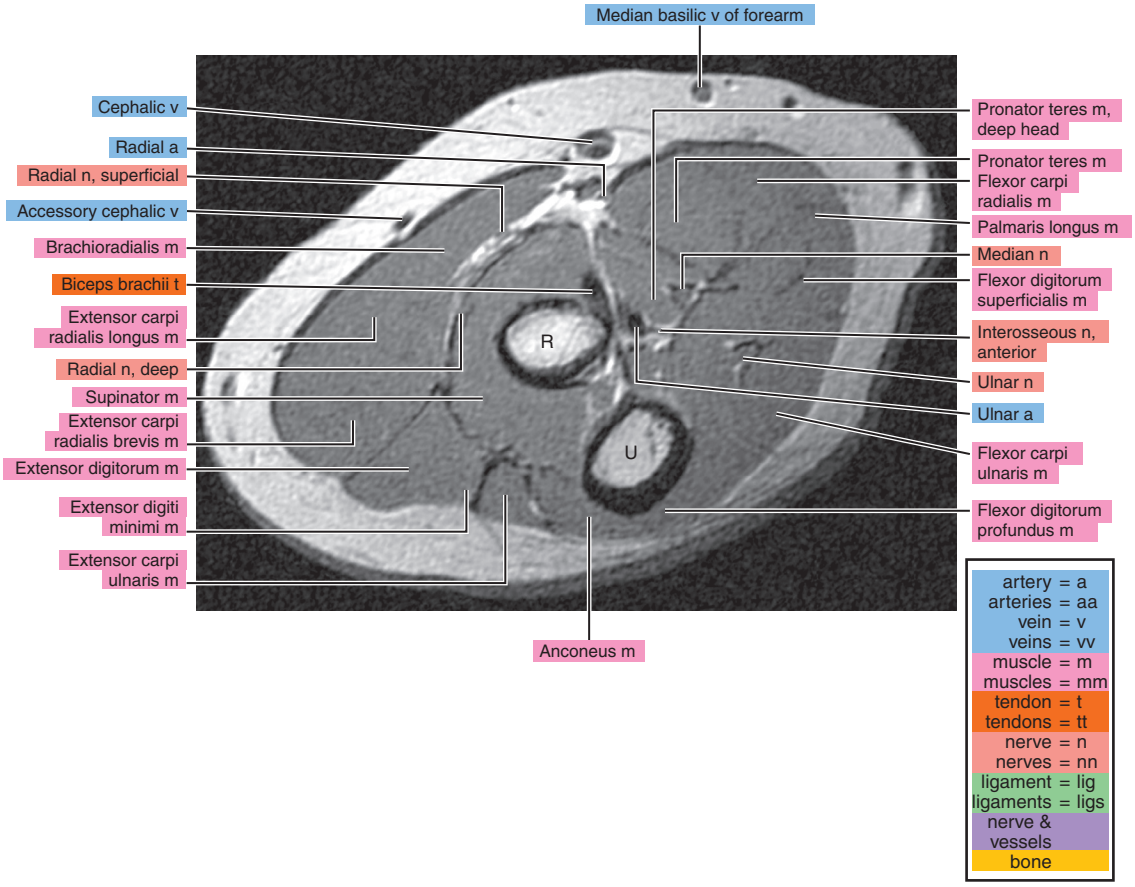
Table 6-1. Muscles of the Forearm—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Palmaris longus	Medial epicondyle	Flexor retinaculum and palmar aponeurosis	Median (C7, C8)
Flexor carpi ulnaris	Two heads: (1) medial epicondyle, and (2) medial side of the olecranon, upper two thirds of the dorsal border of the ulna	Primarily onto the pisiform	Ulnar (C7, C8)
Flexor digitorum superficialis	Two heads: (1) ulnar (ventral surface of the medial epicondyle, ulnar collateral ligament, ulnar tuberosity, medial border of coronoid process), and (2) radial (anterior oblique line and ventral border below the radial oblique line)	Ventral surface of the shaft of the middle phalanx of each finger	Median (C7, C8, T1)
Flexor digitorum profundus	Proximal three fourths of the medial and anterior surface of the ulna and interosseous membrane	Bases of the distal phalanges of the second to fifth digits	Median, anterior interosseous branch (C8, T1)
Flexor pollicis longus	Ventral surface of the radius, oblique line, and adjacent interosseus membrane	Base of the distal phalanx of the thumb	Median, anterior interosseous branch (C8, T1)
Pronator quadratus	Medial side, ventral surface of the distal fourth of the ulna	Distal quarter of the ventral surface of the radius	Median, anterior interosseous branch (C8, T1)

AXIAL

Figure 6.1.1





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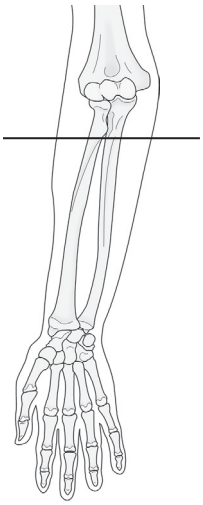

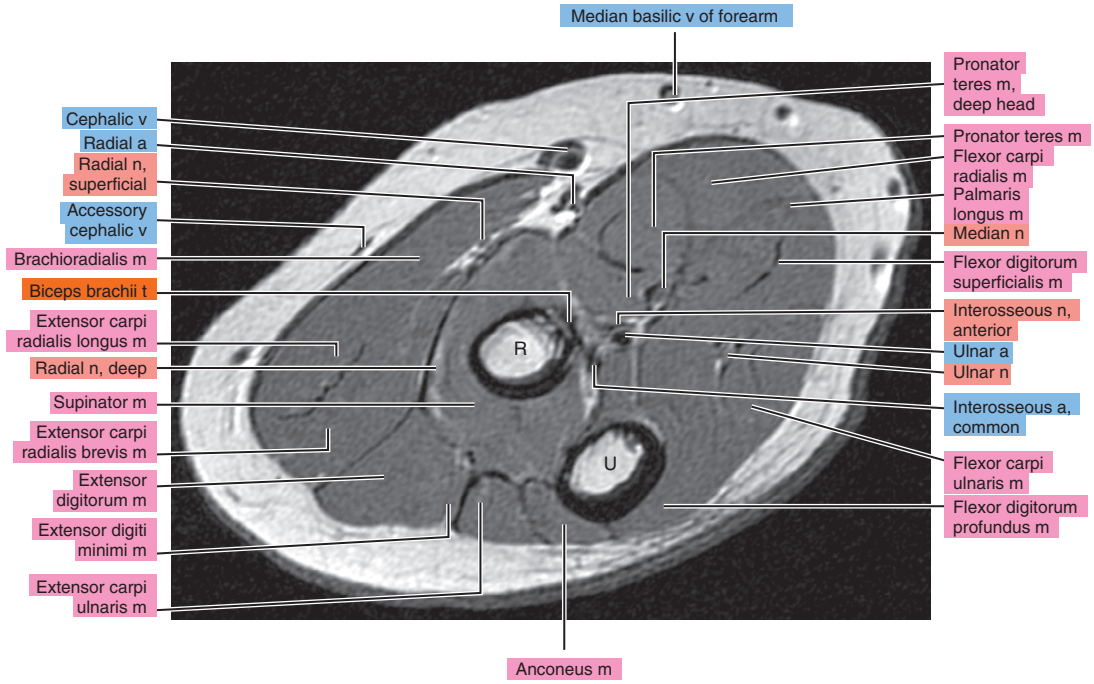

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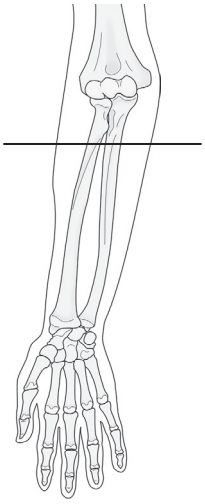

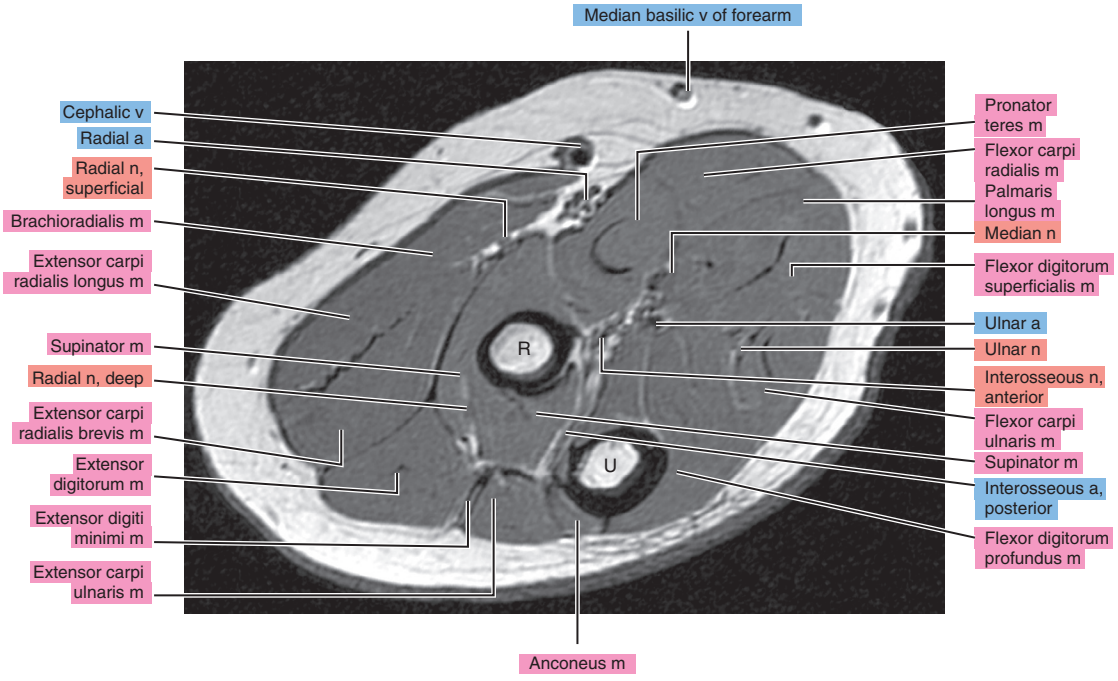

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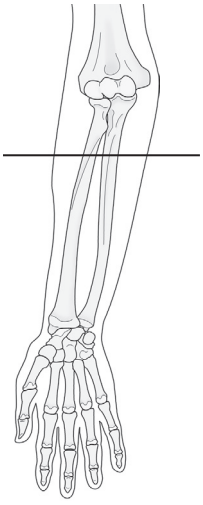

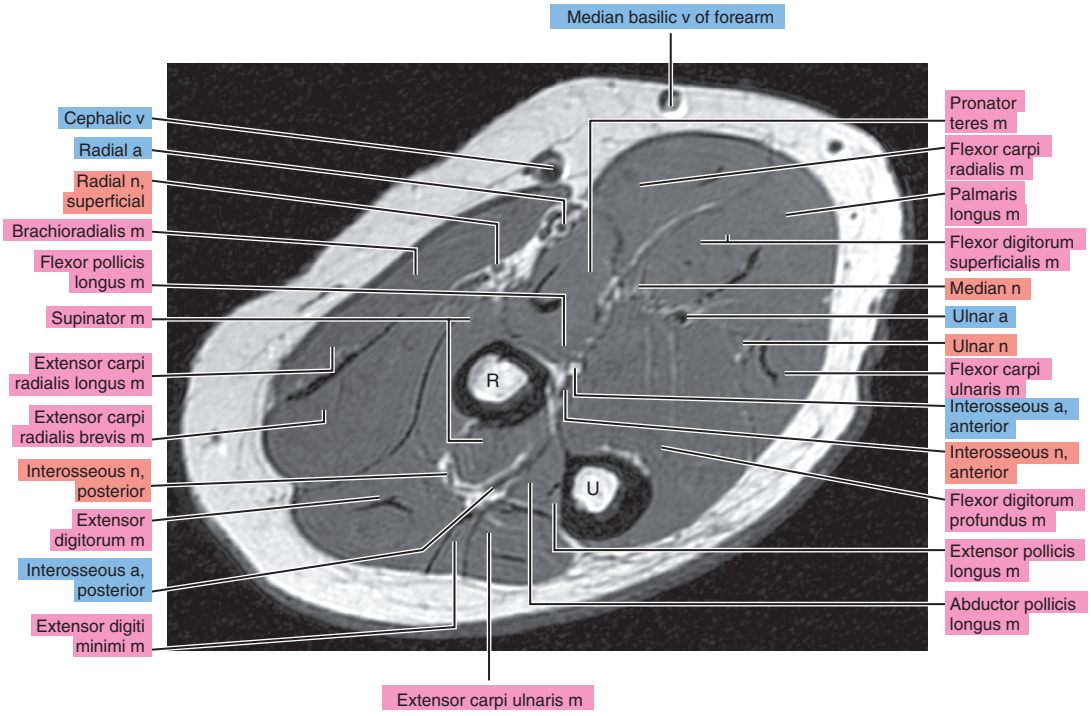

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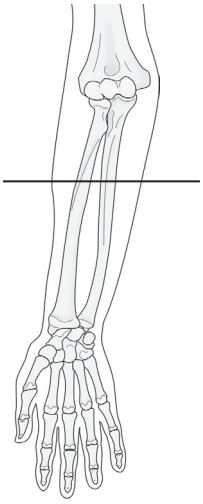

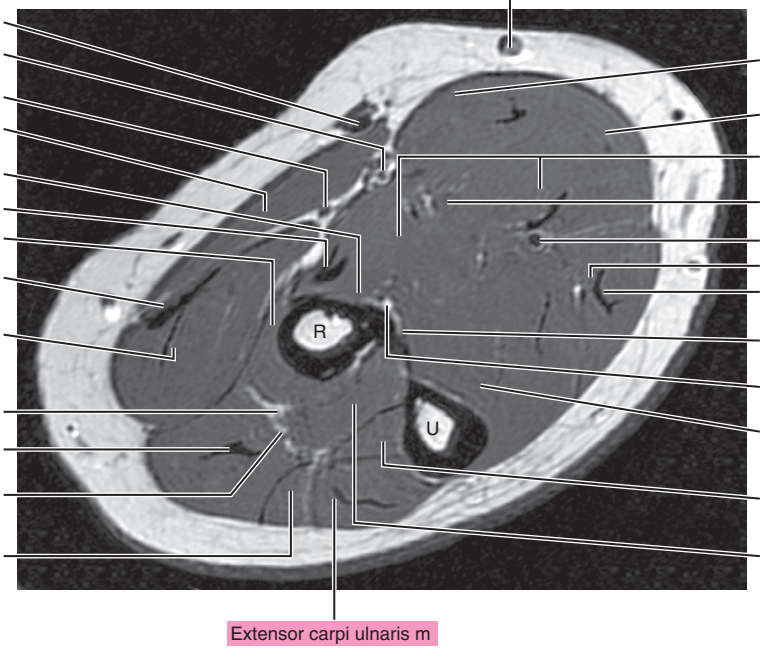

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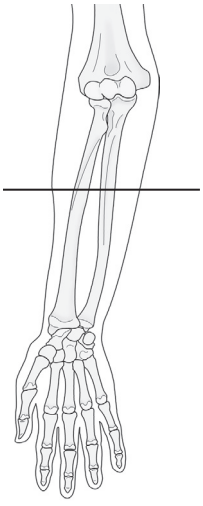

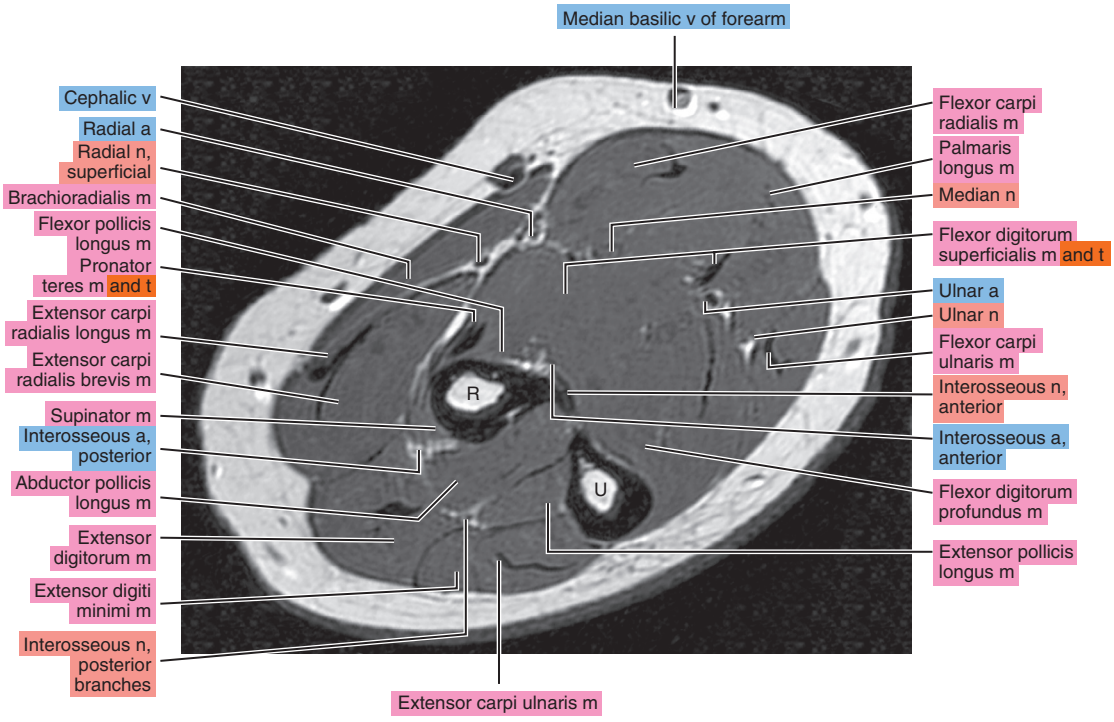

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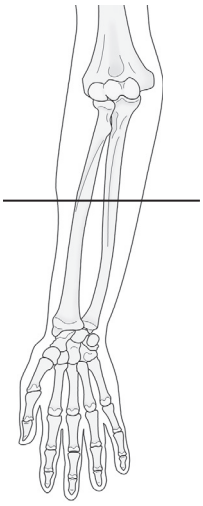

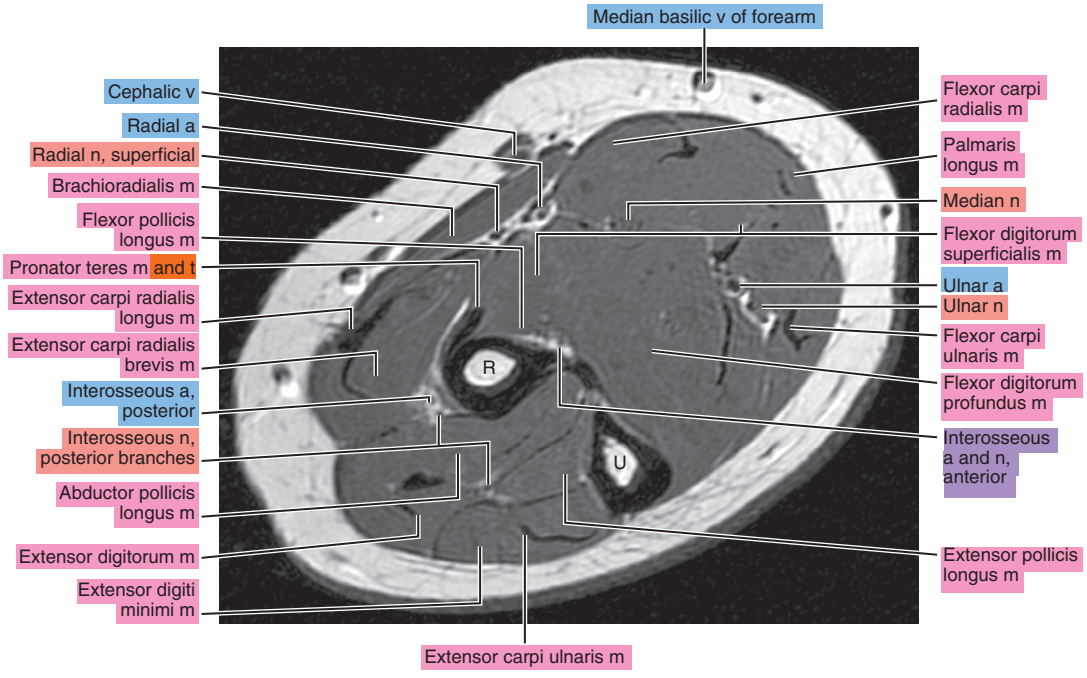

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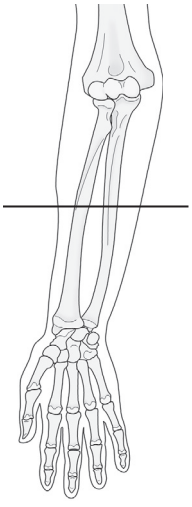

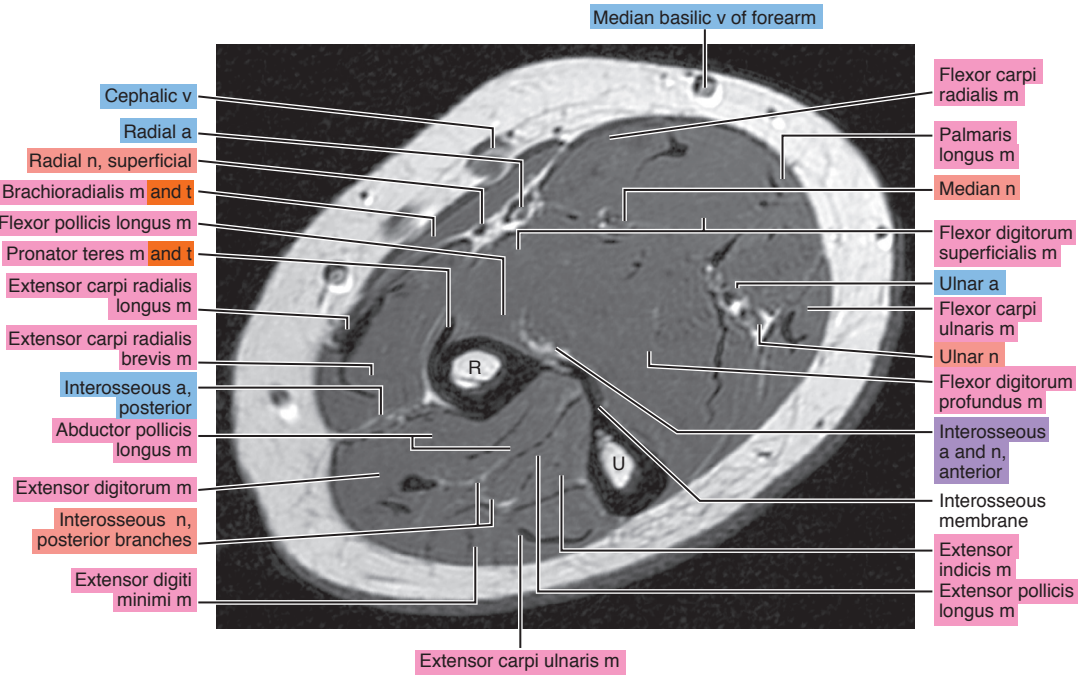

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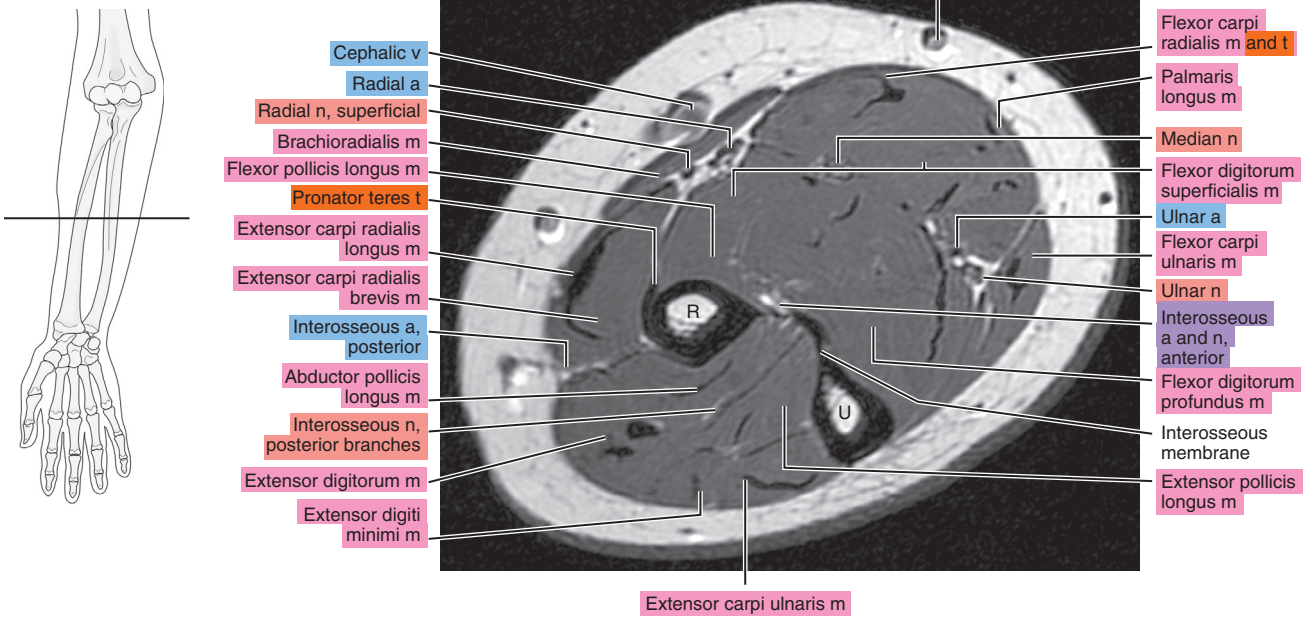

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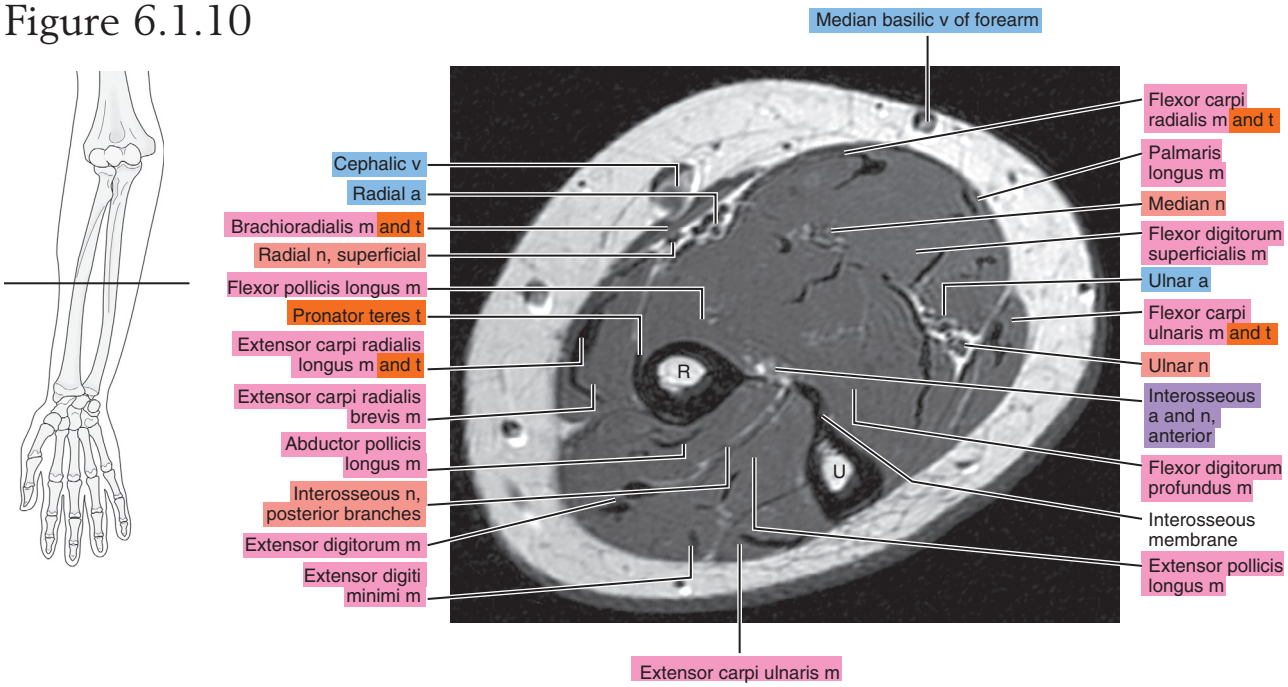

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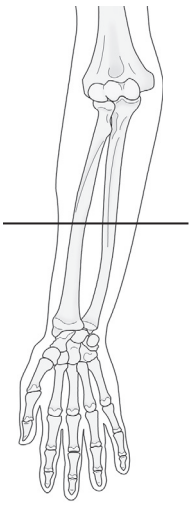

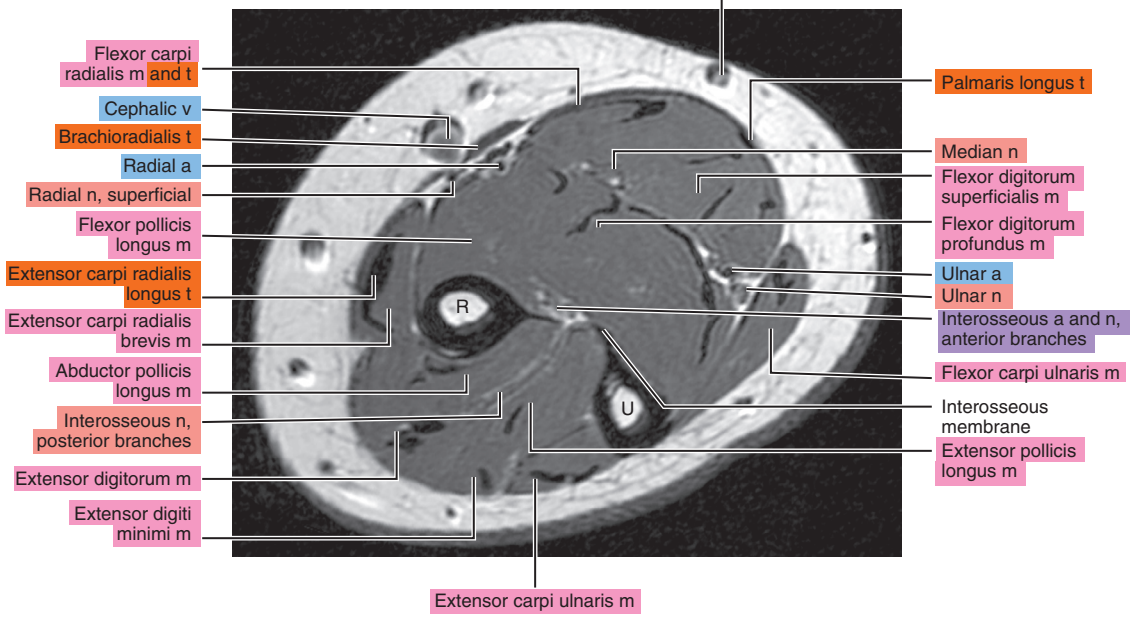

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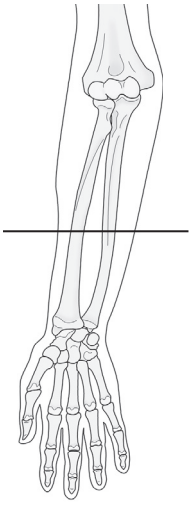

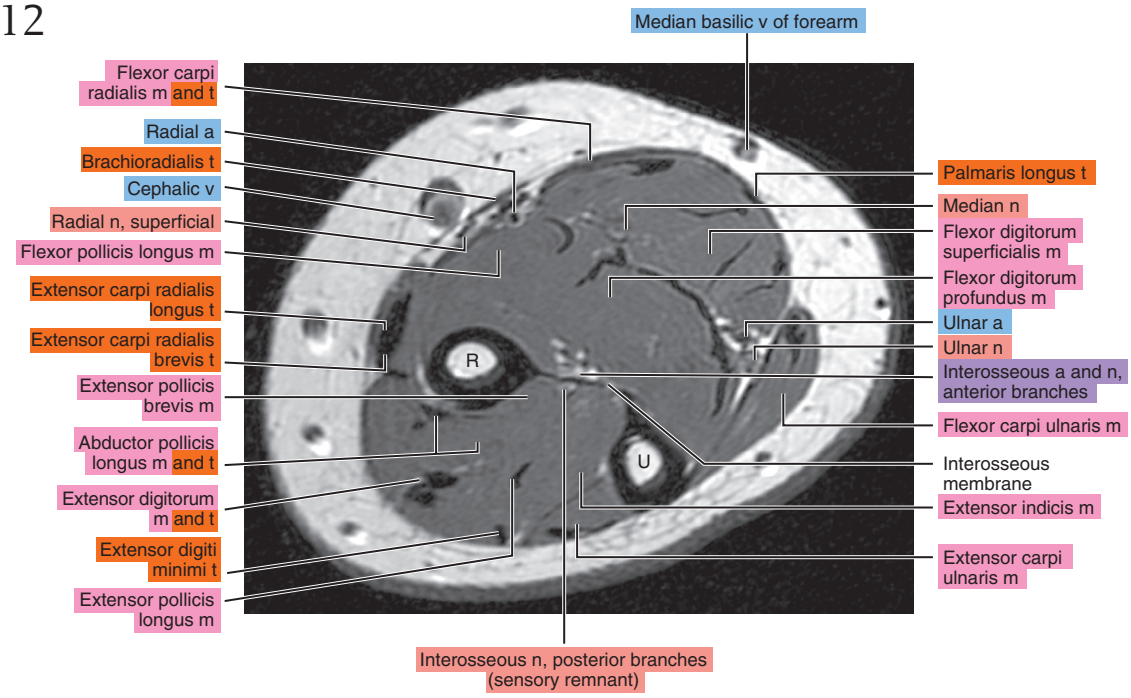

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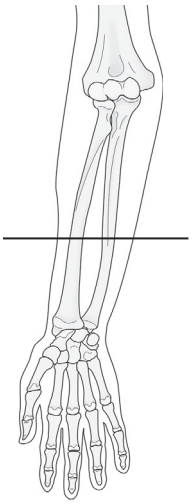

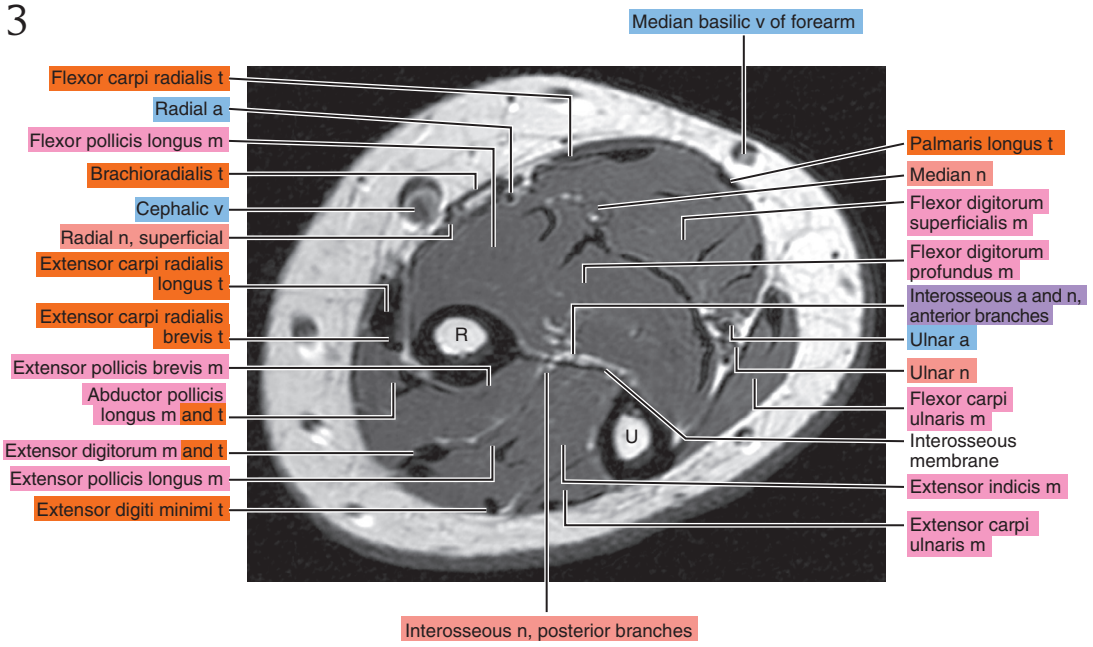

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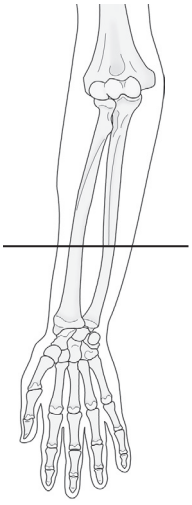

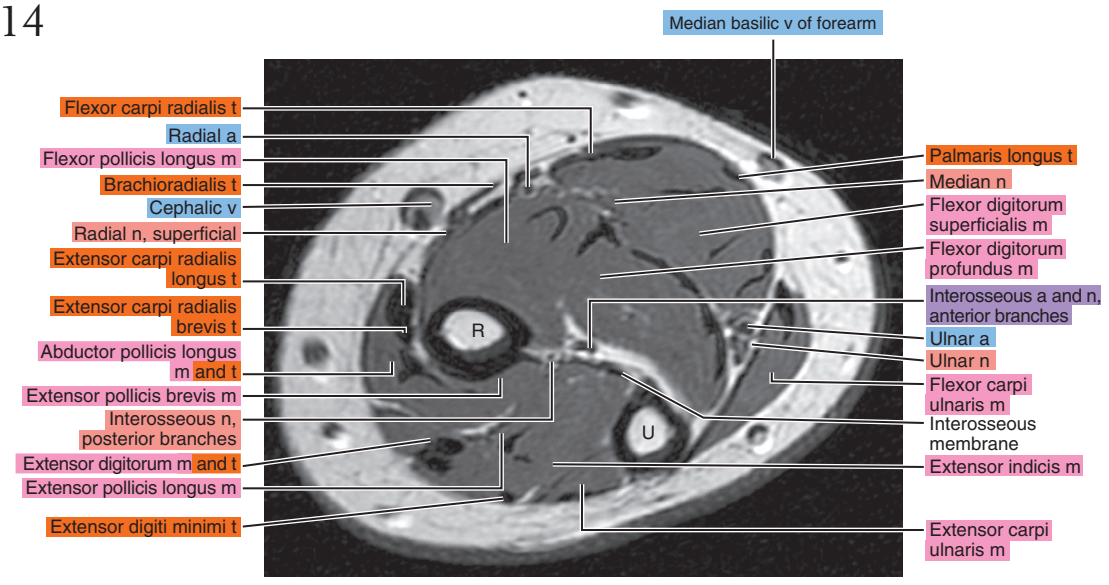

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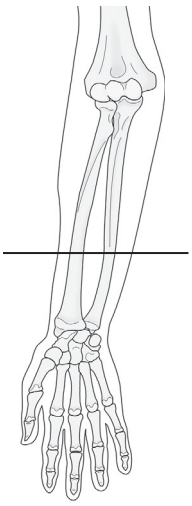

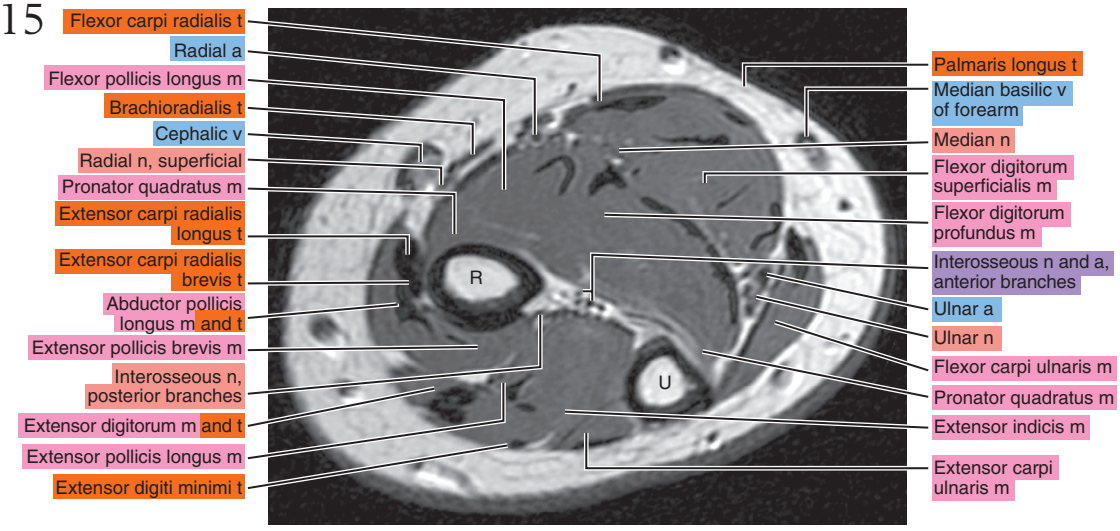

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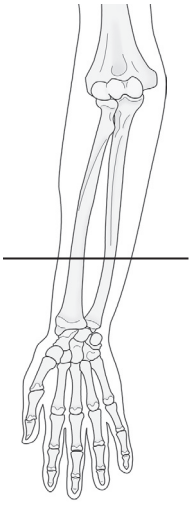

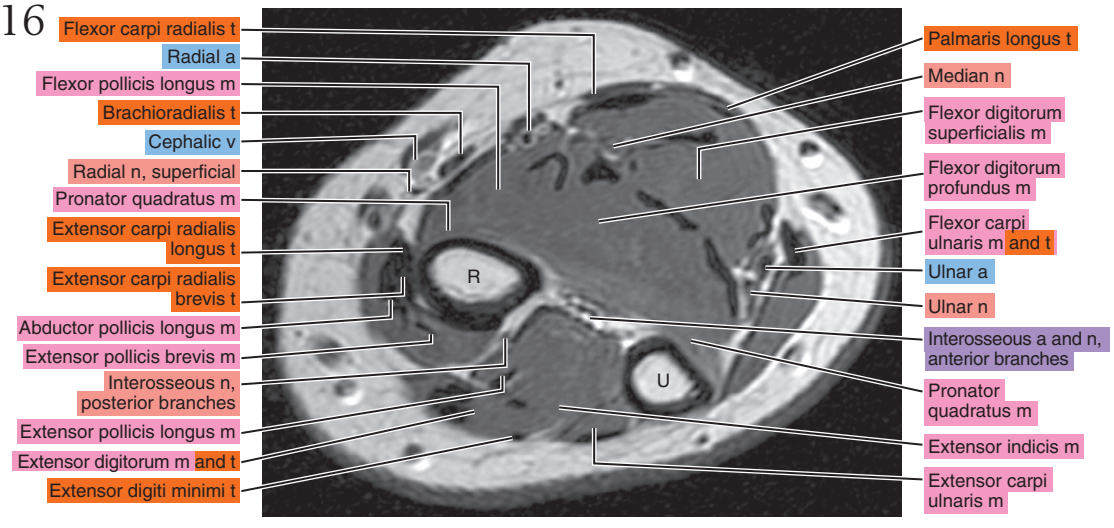

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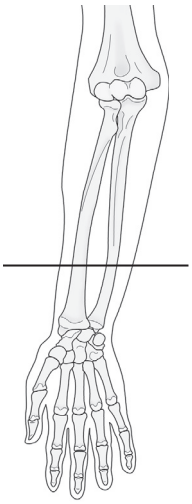

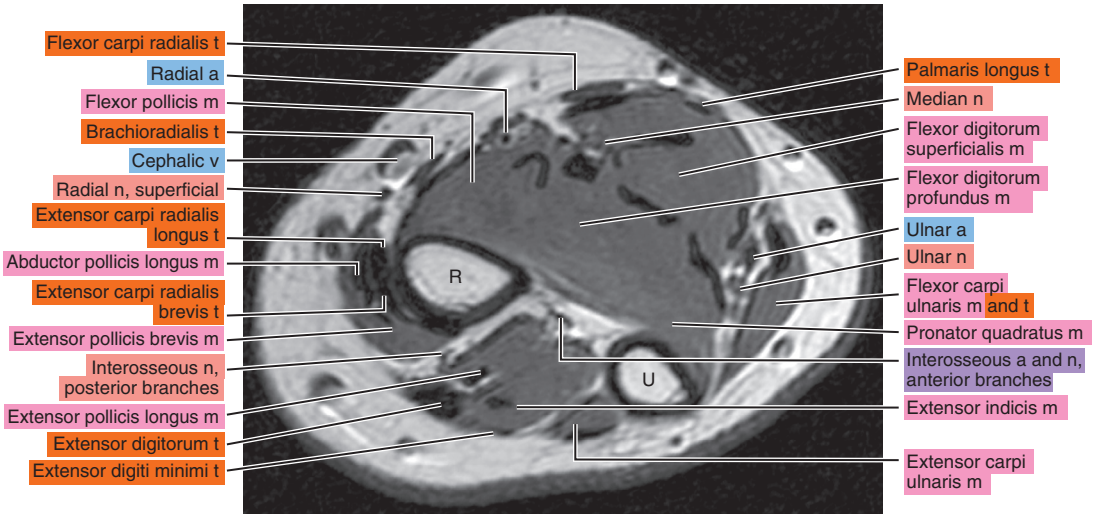

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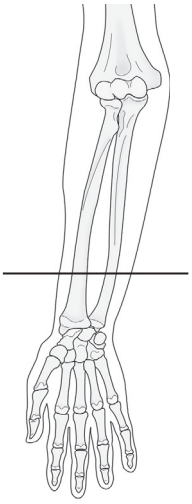

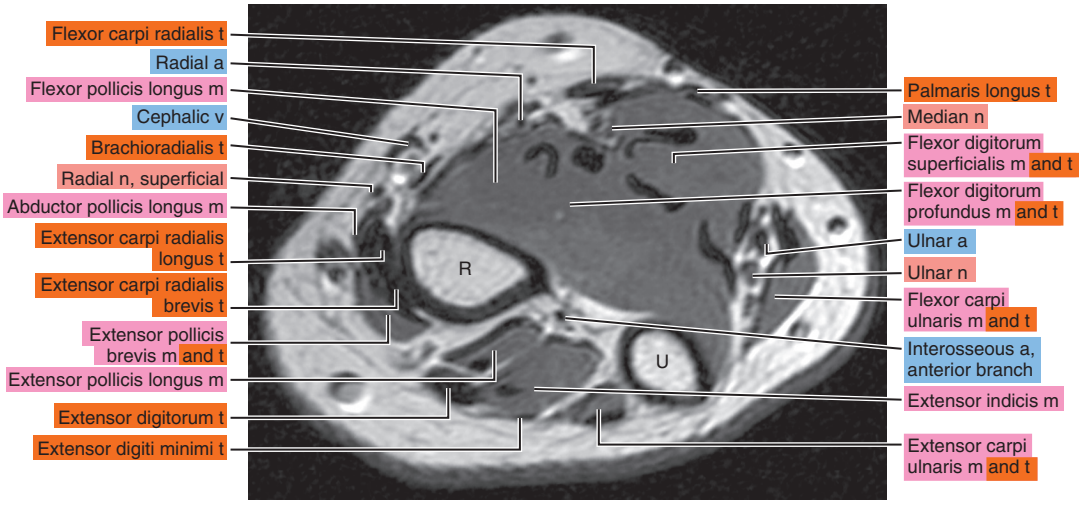

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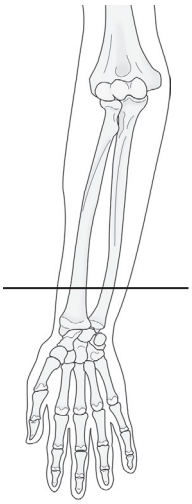

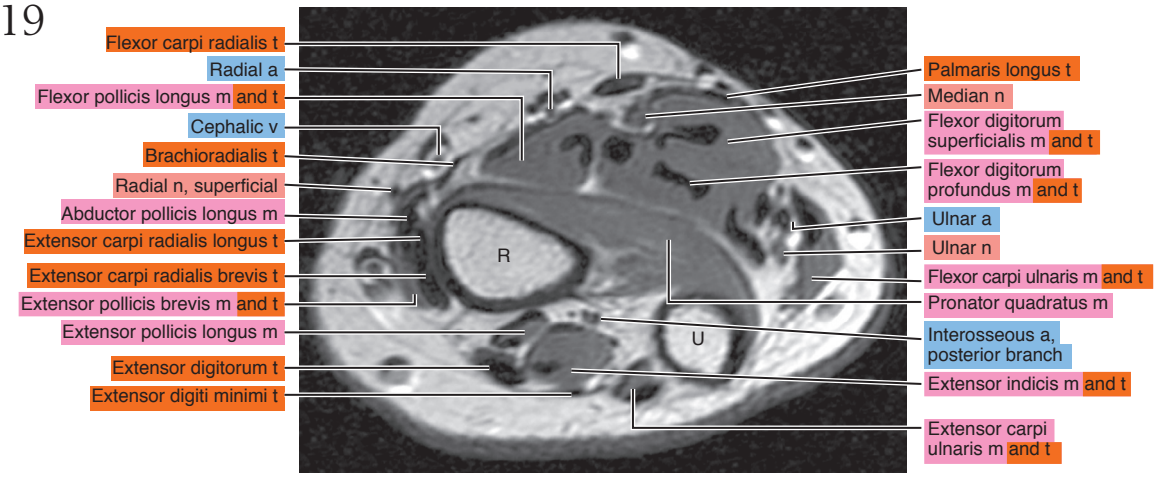

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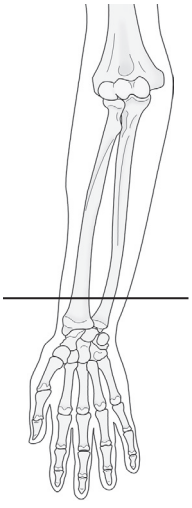

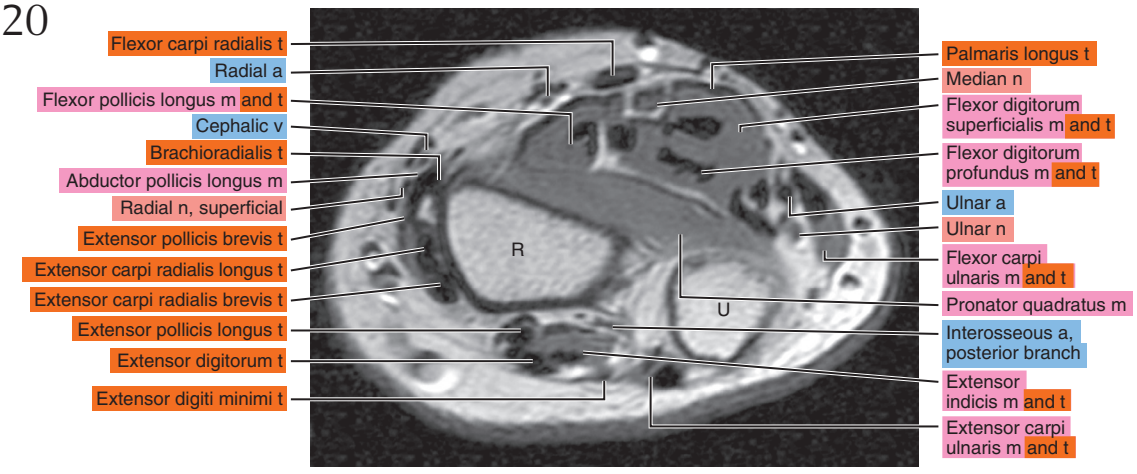

SAGITTAL

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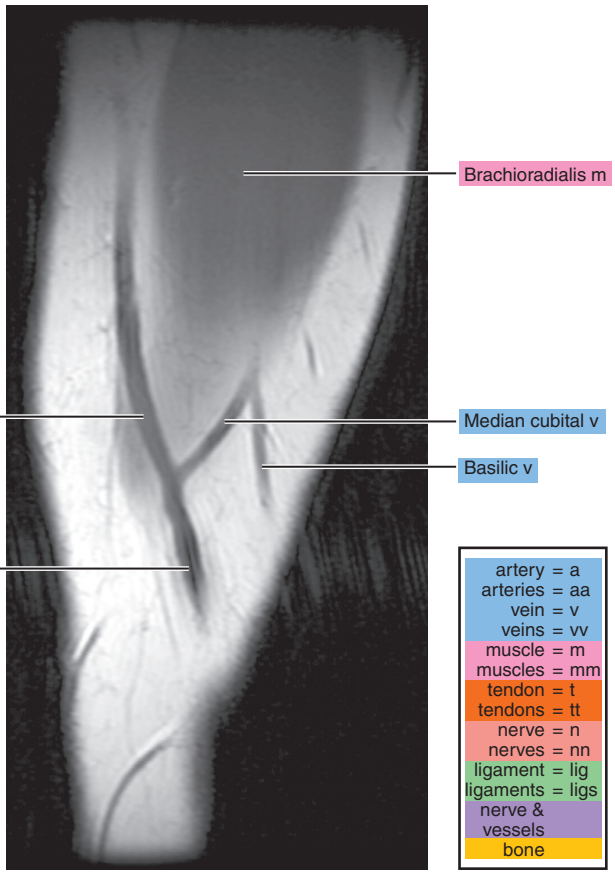

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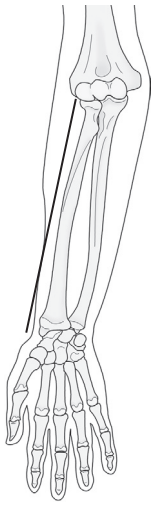

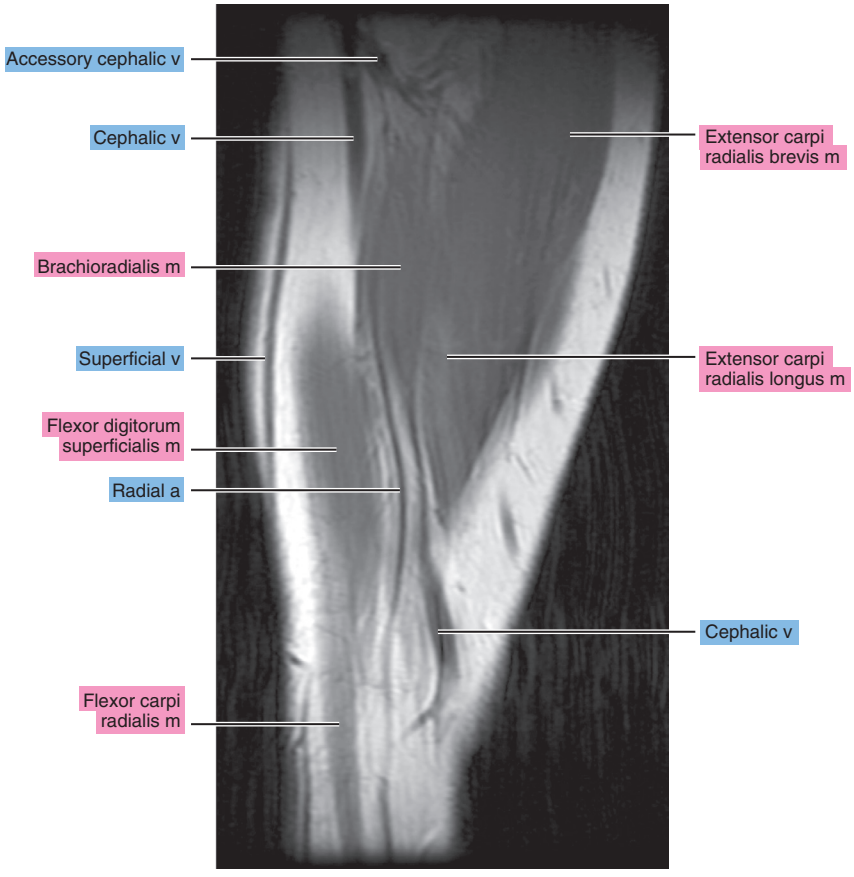

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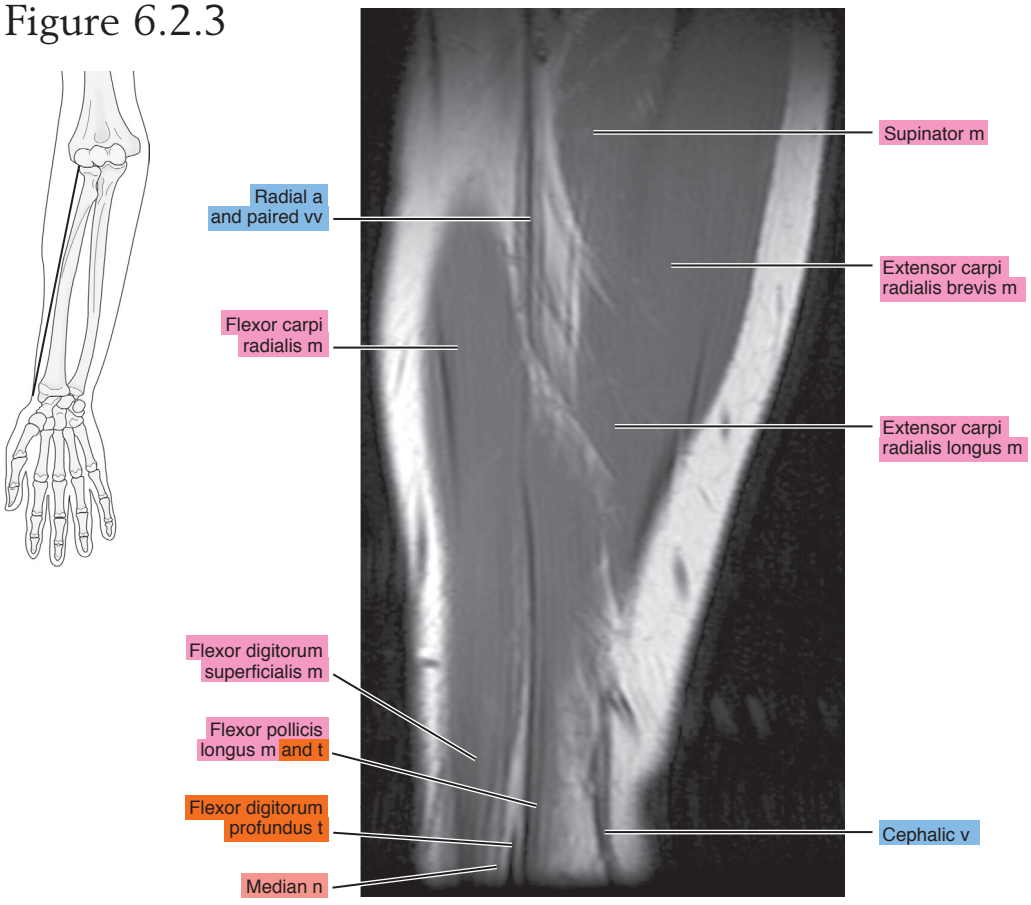

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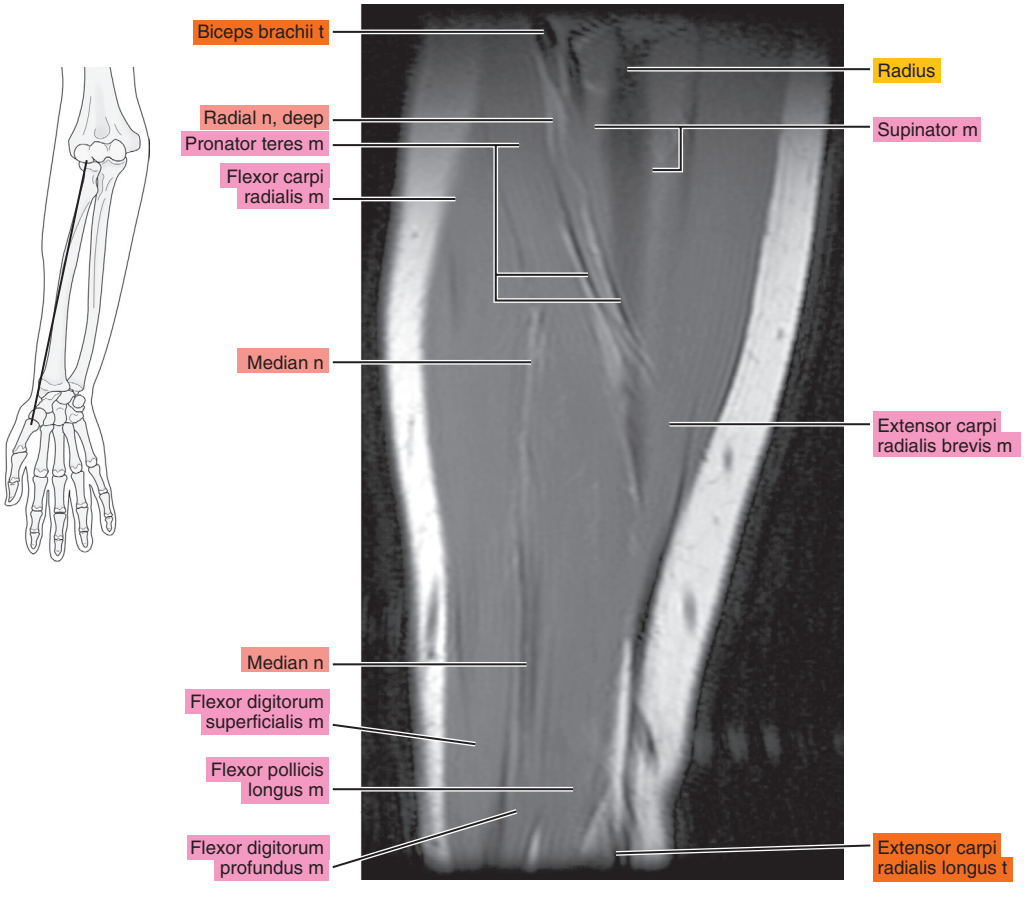

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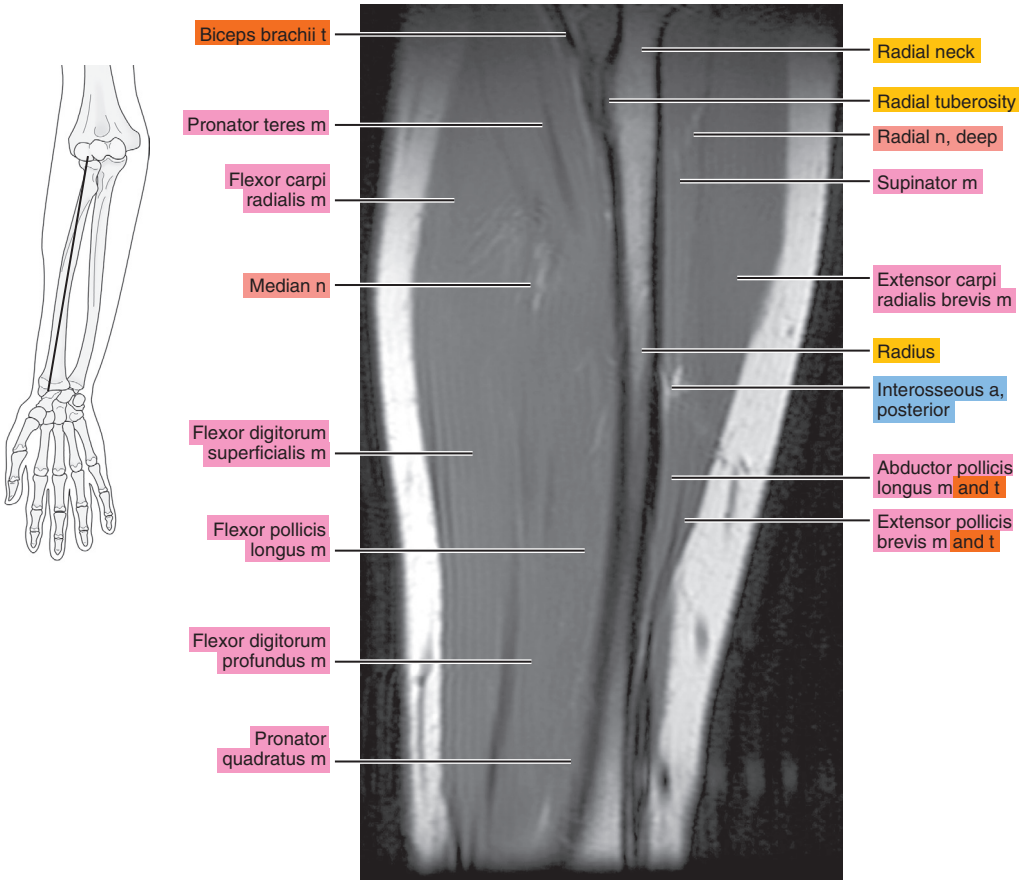

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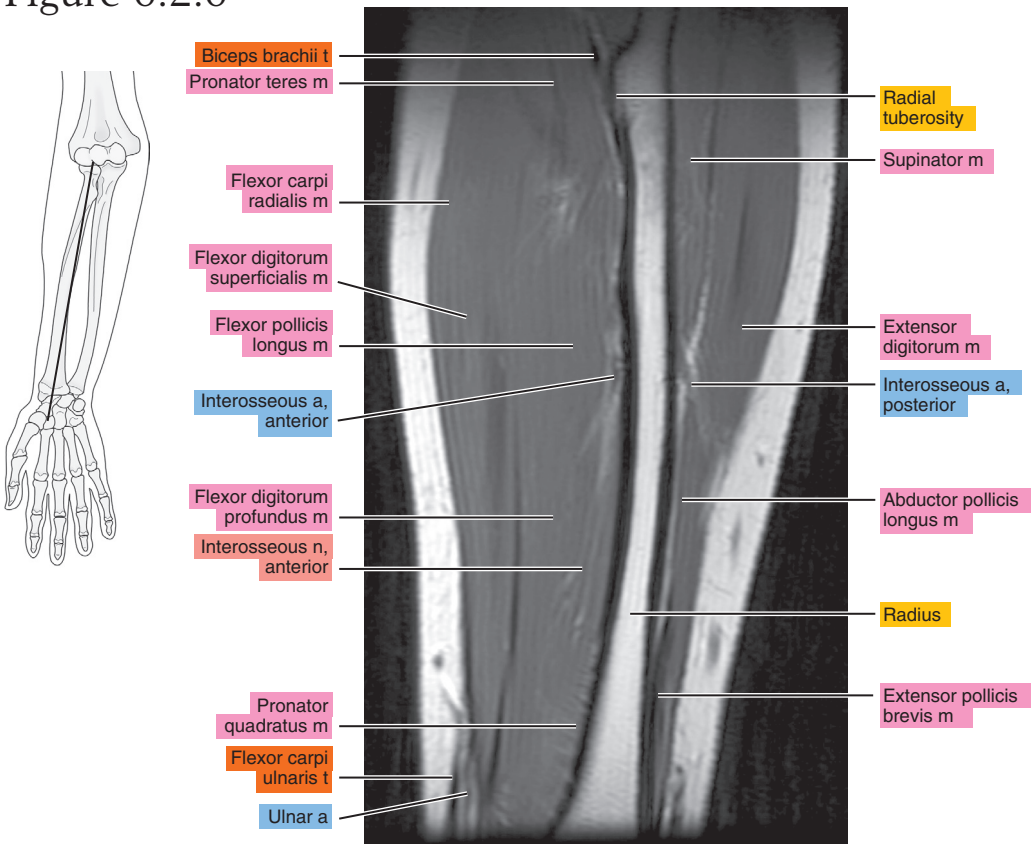

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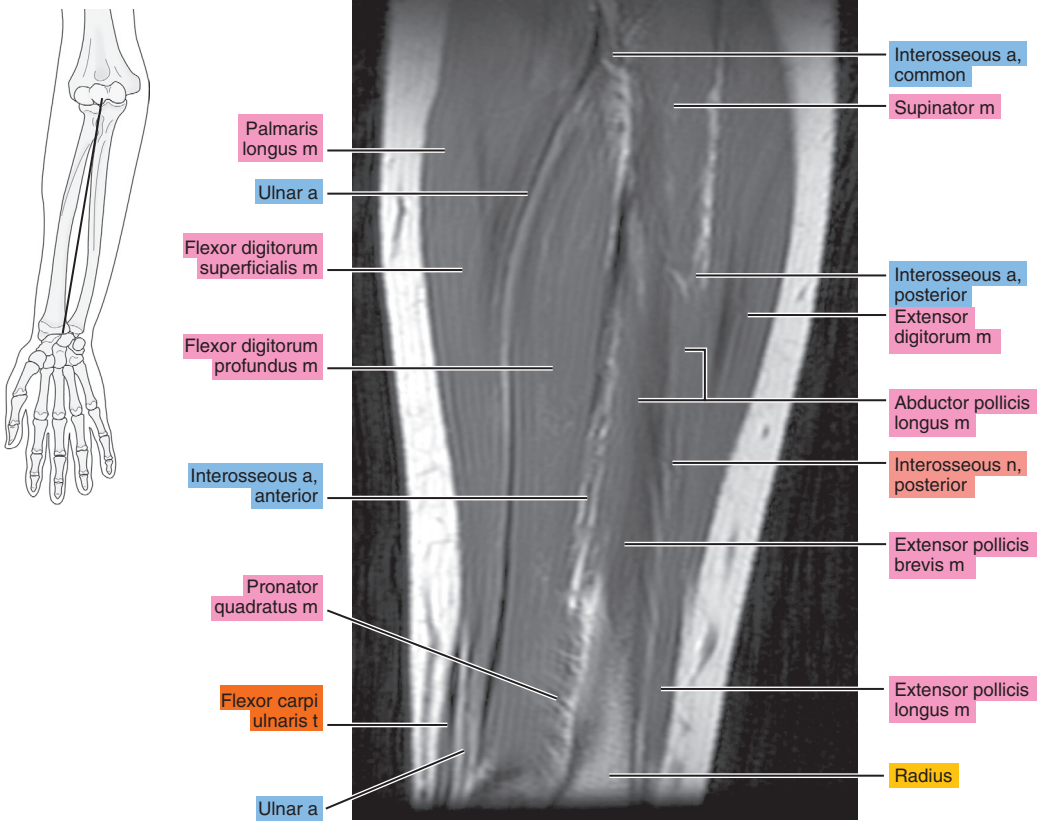

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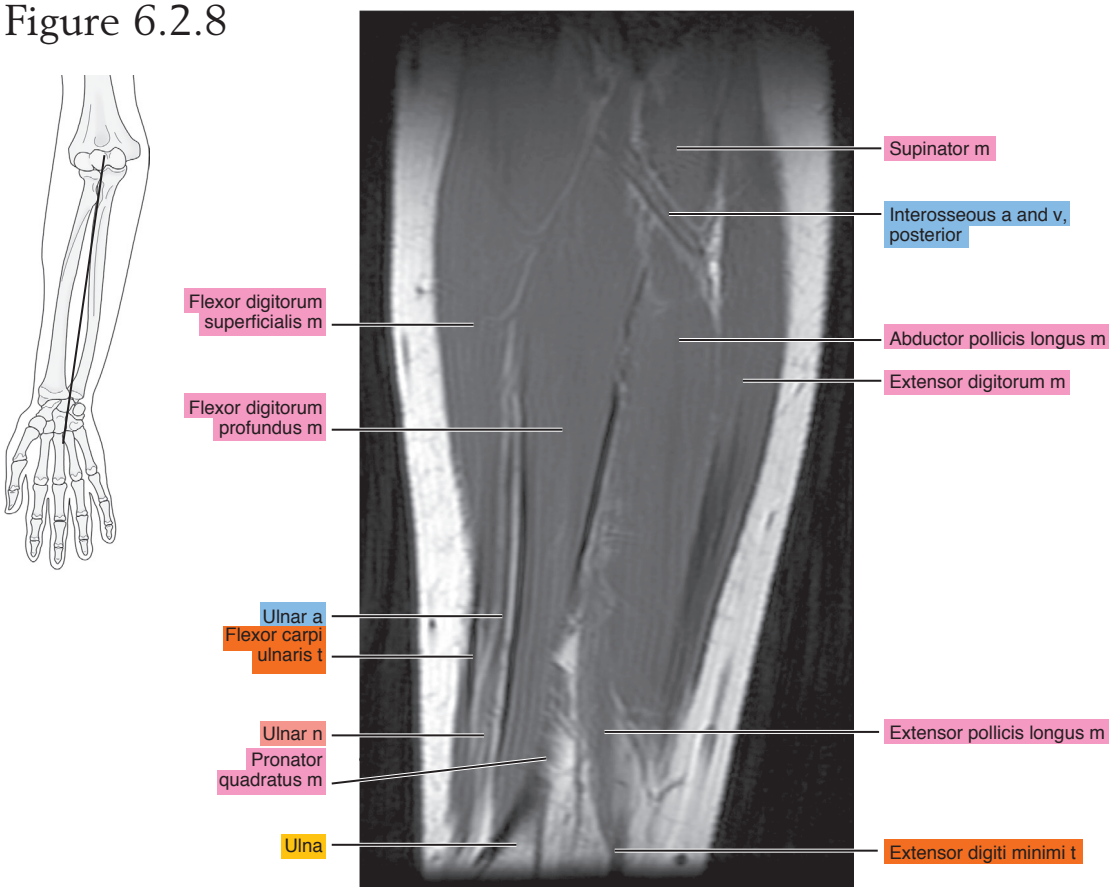

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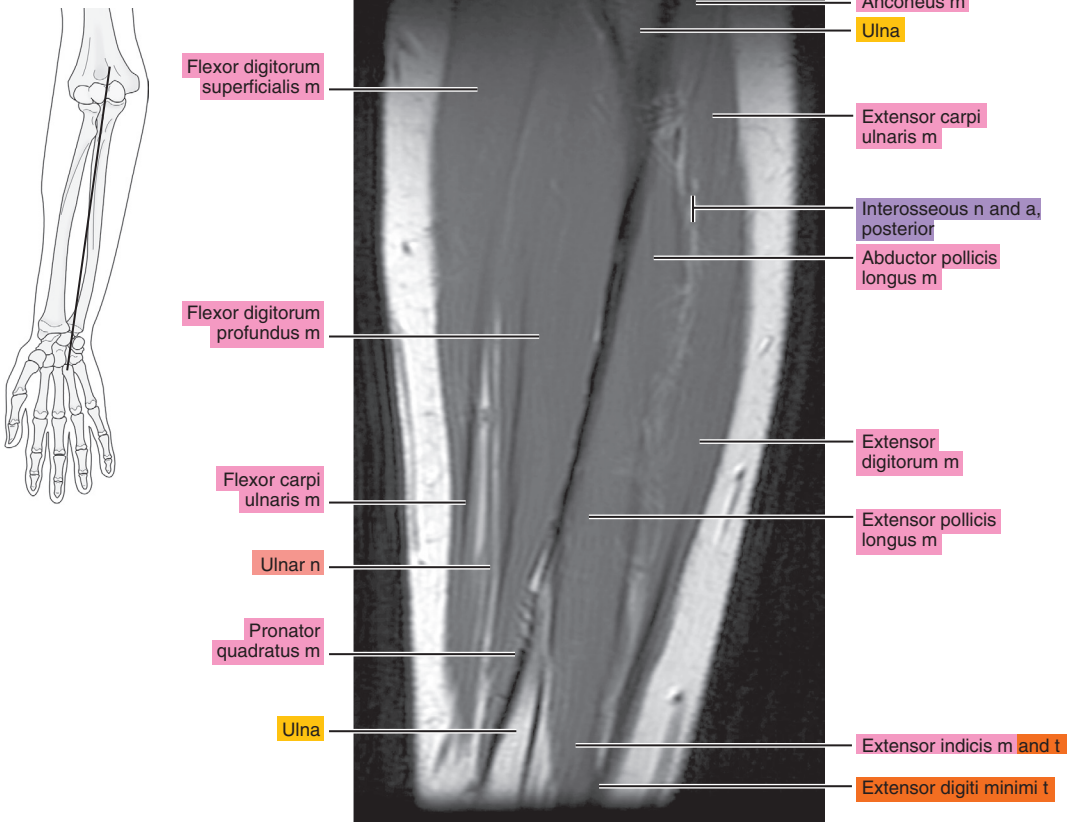

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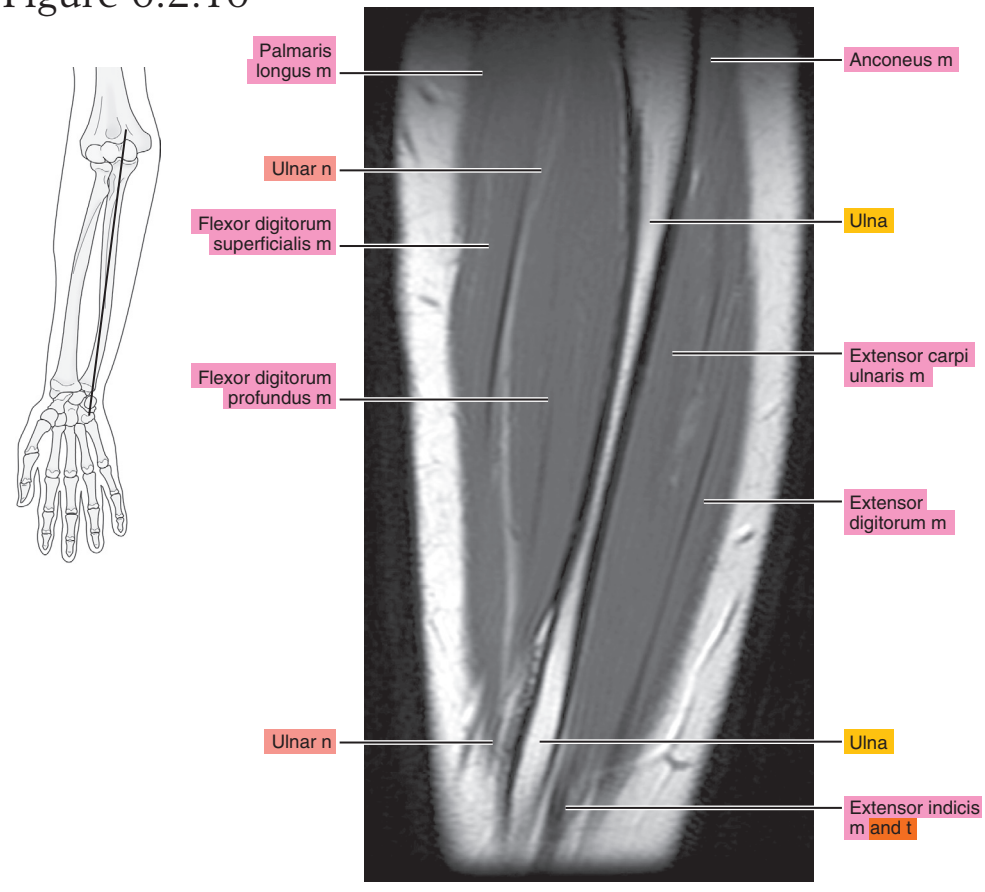

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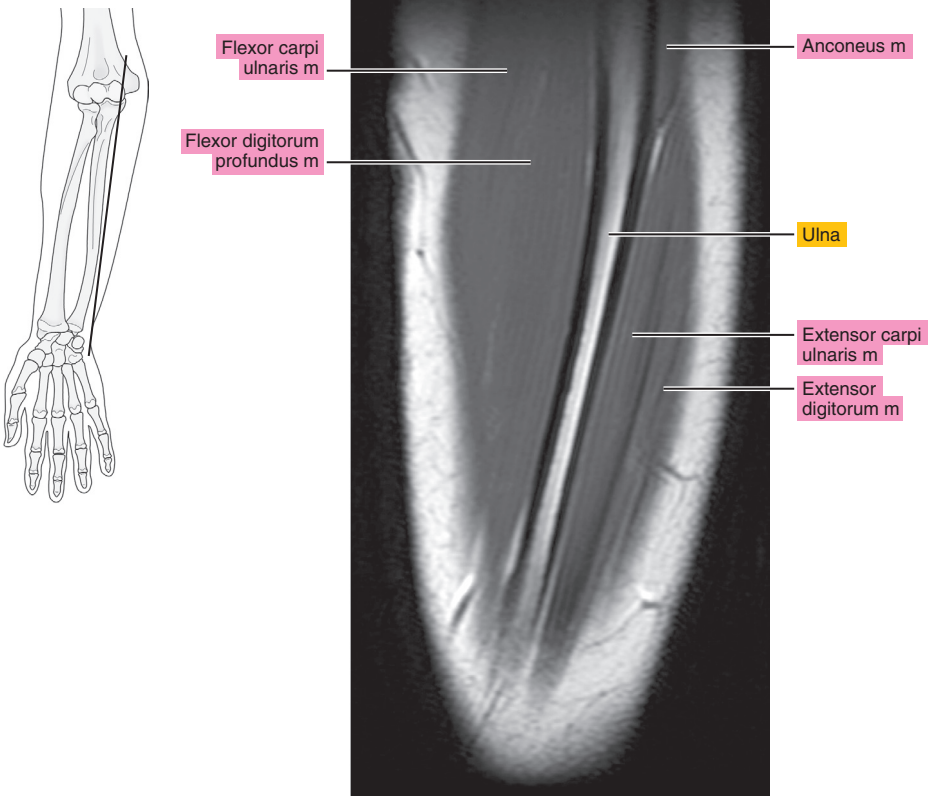

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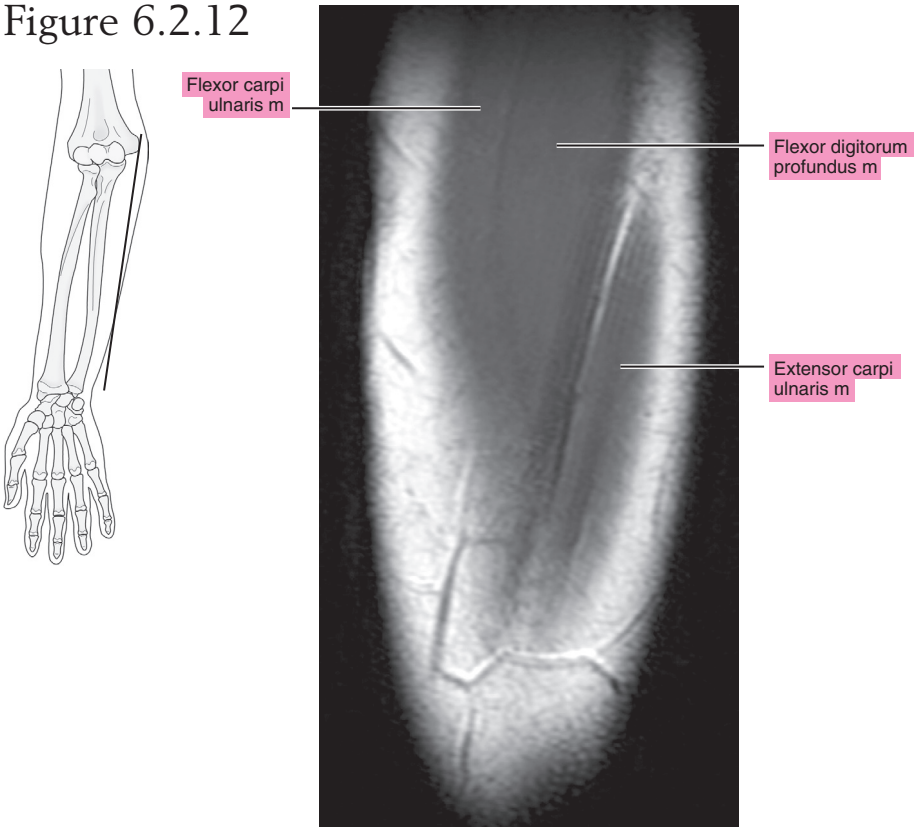

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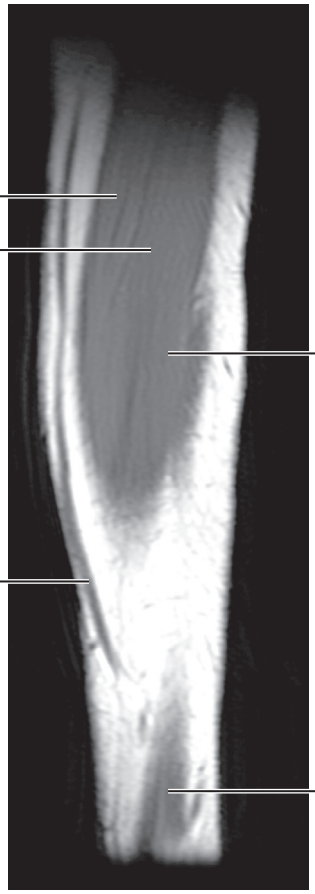

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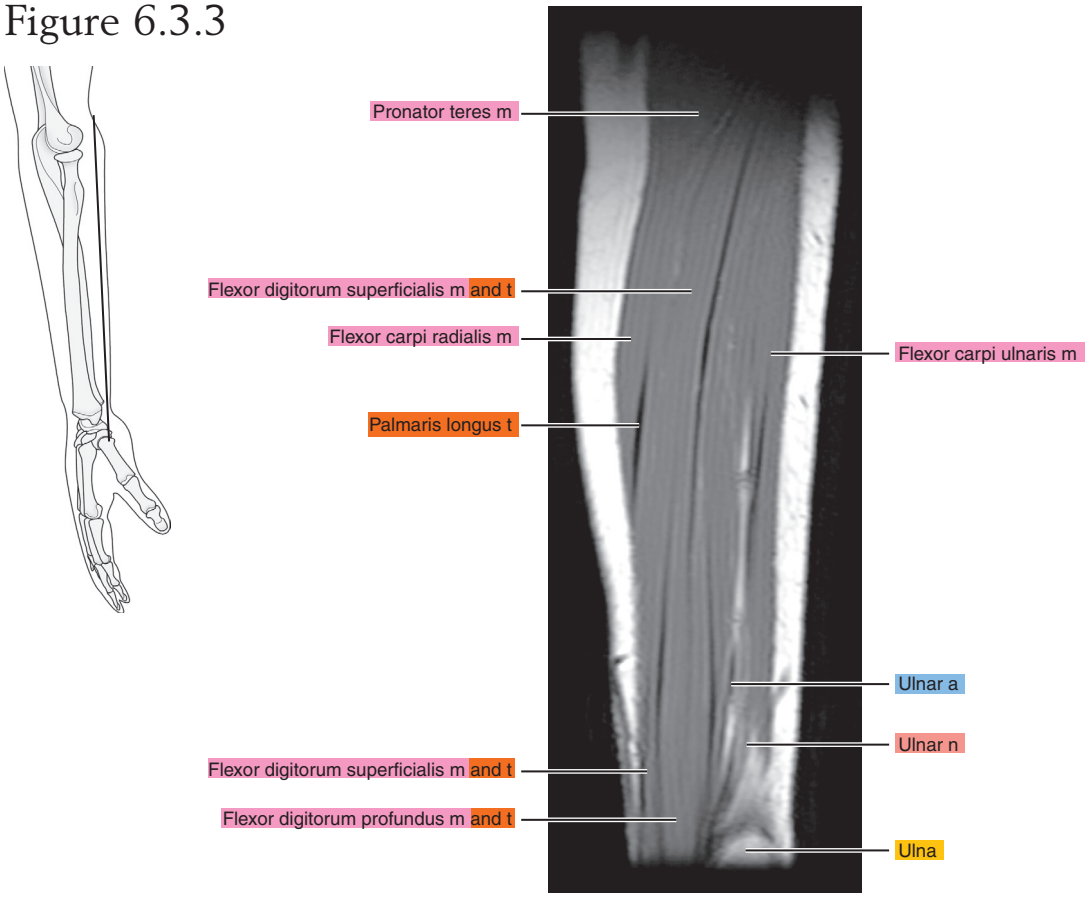
ligaments = ligs
nerve & vessels
bone

Figure 6.3.2

Figure 6.3.3



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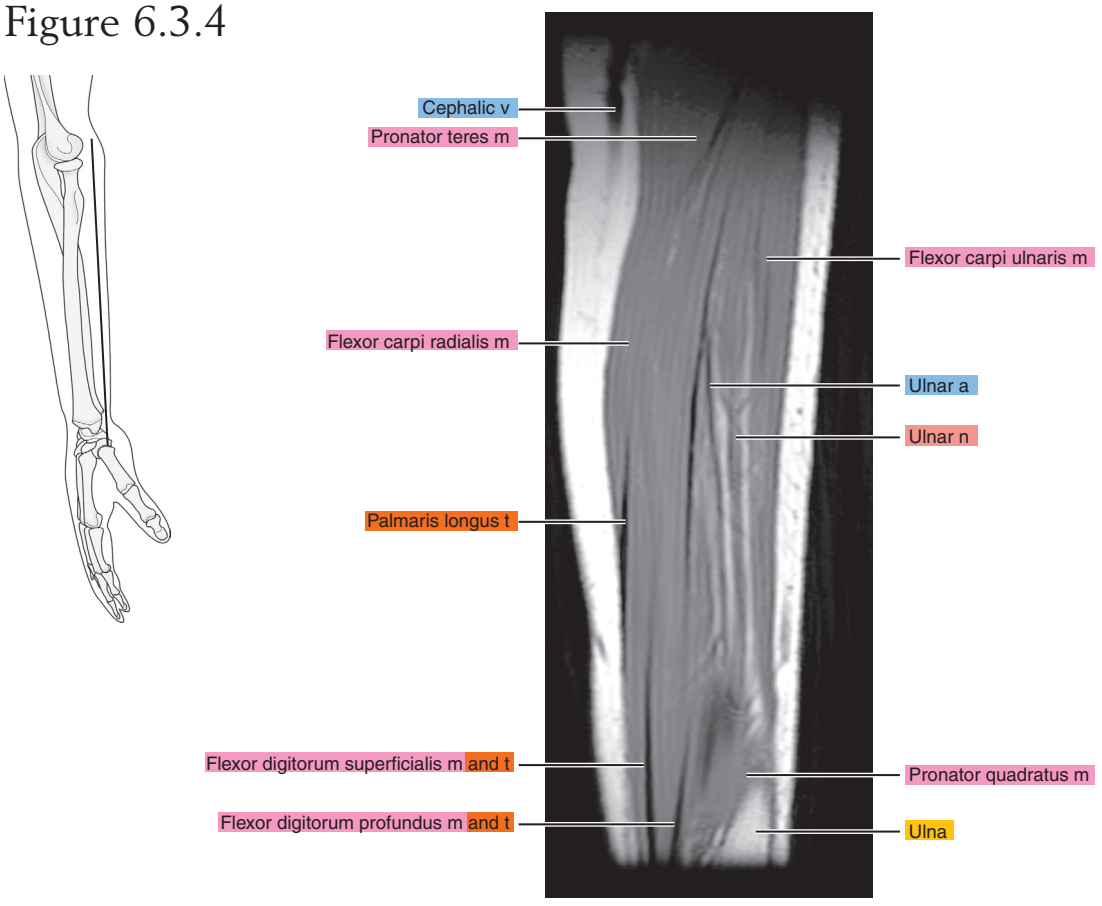

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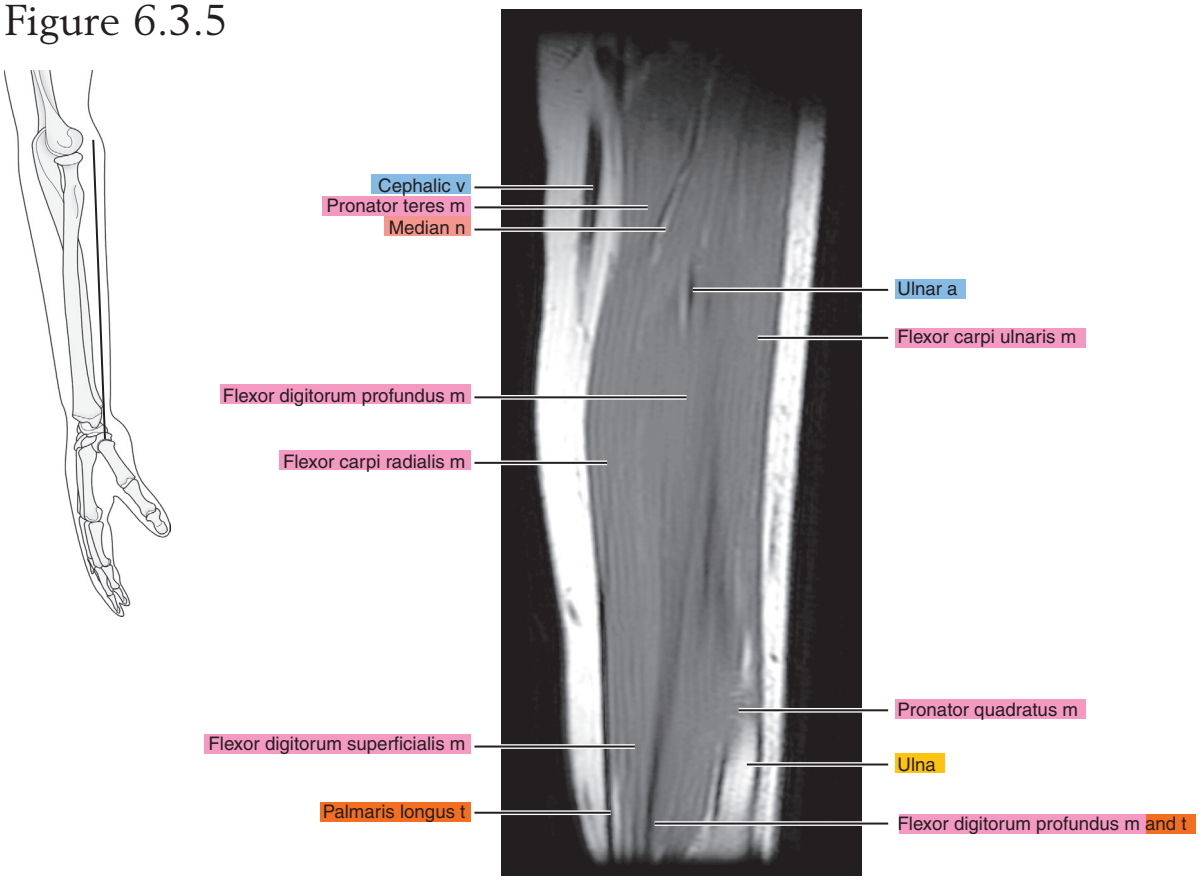

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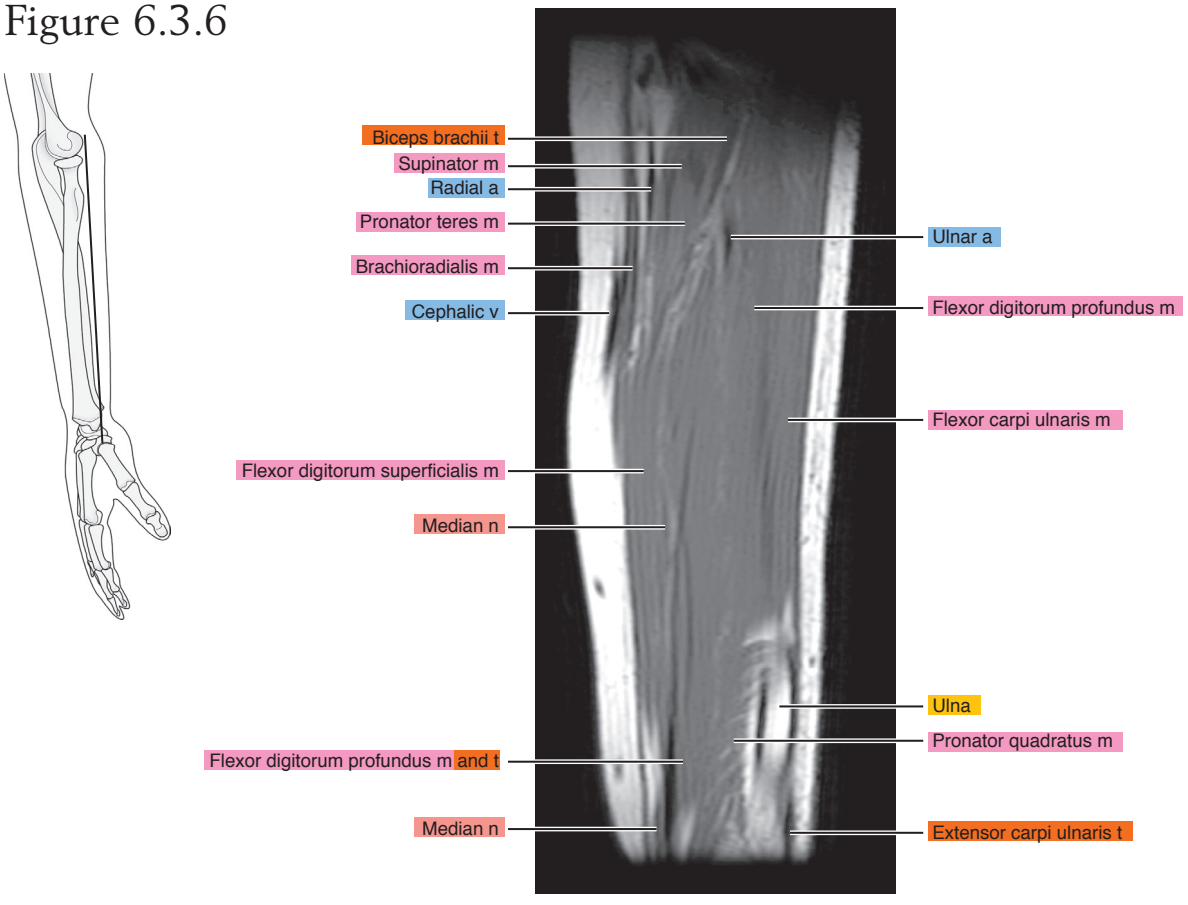

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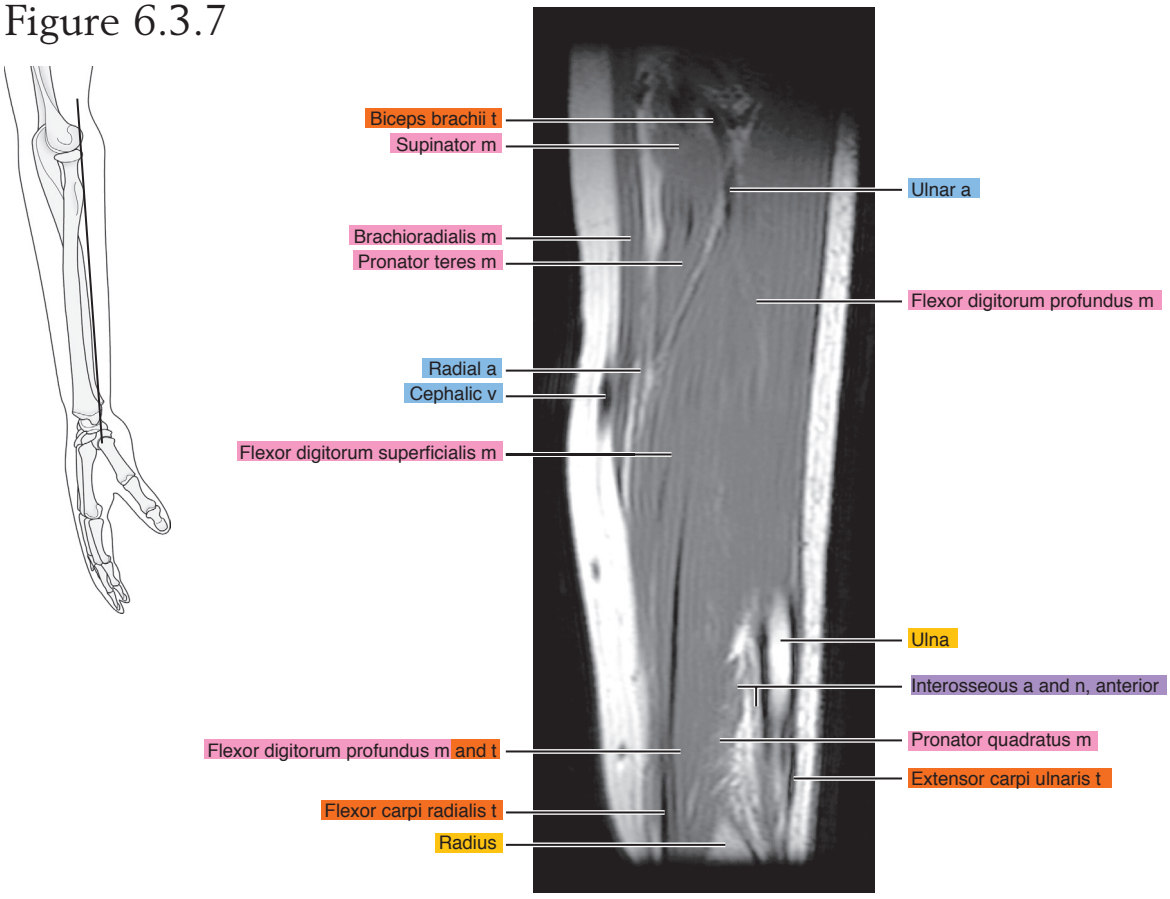

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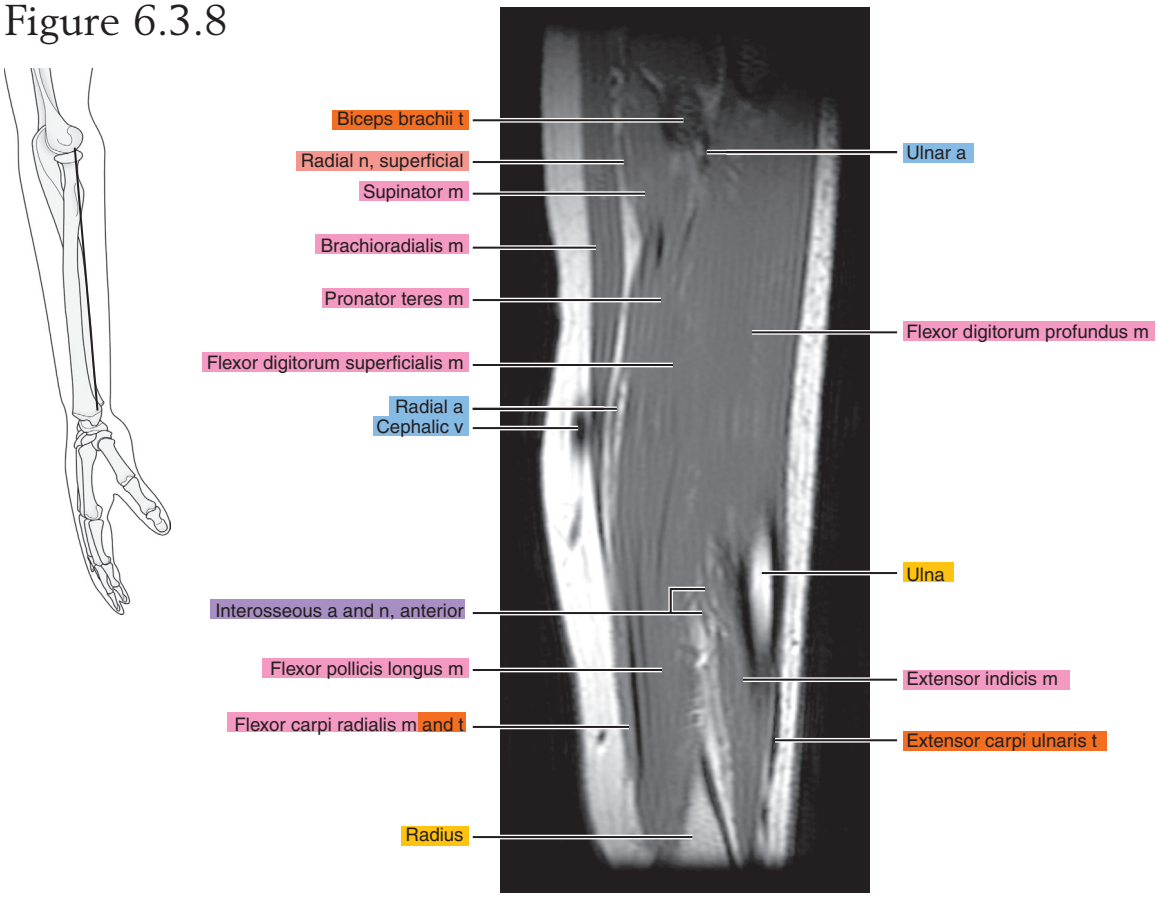

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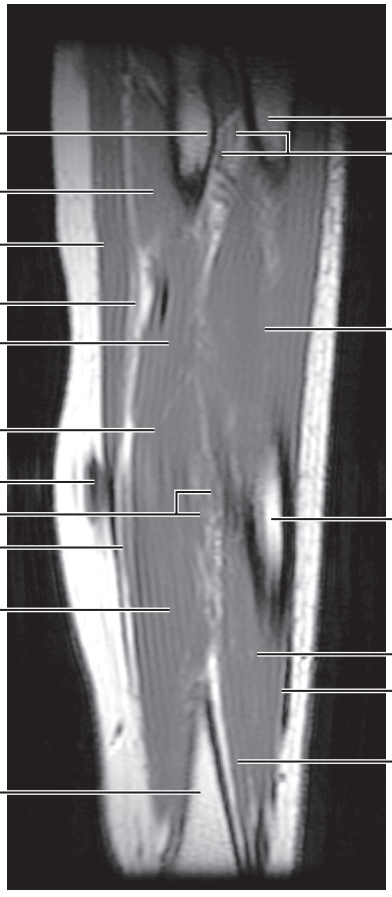

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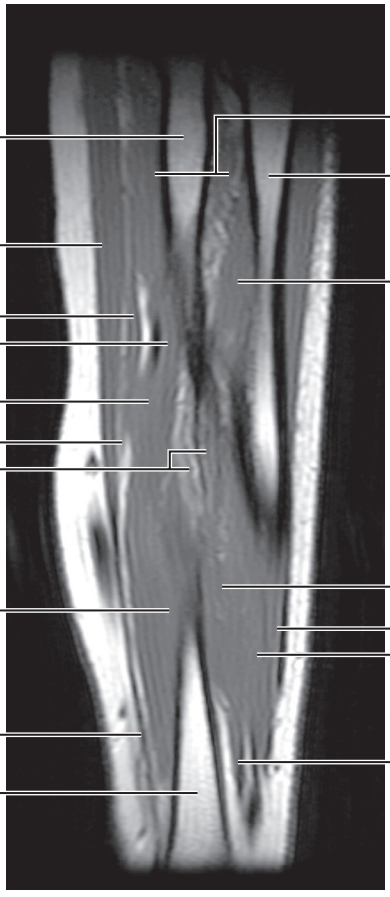
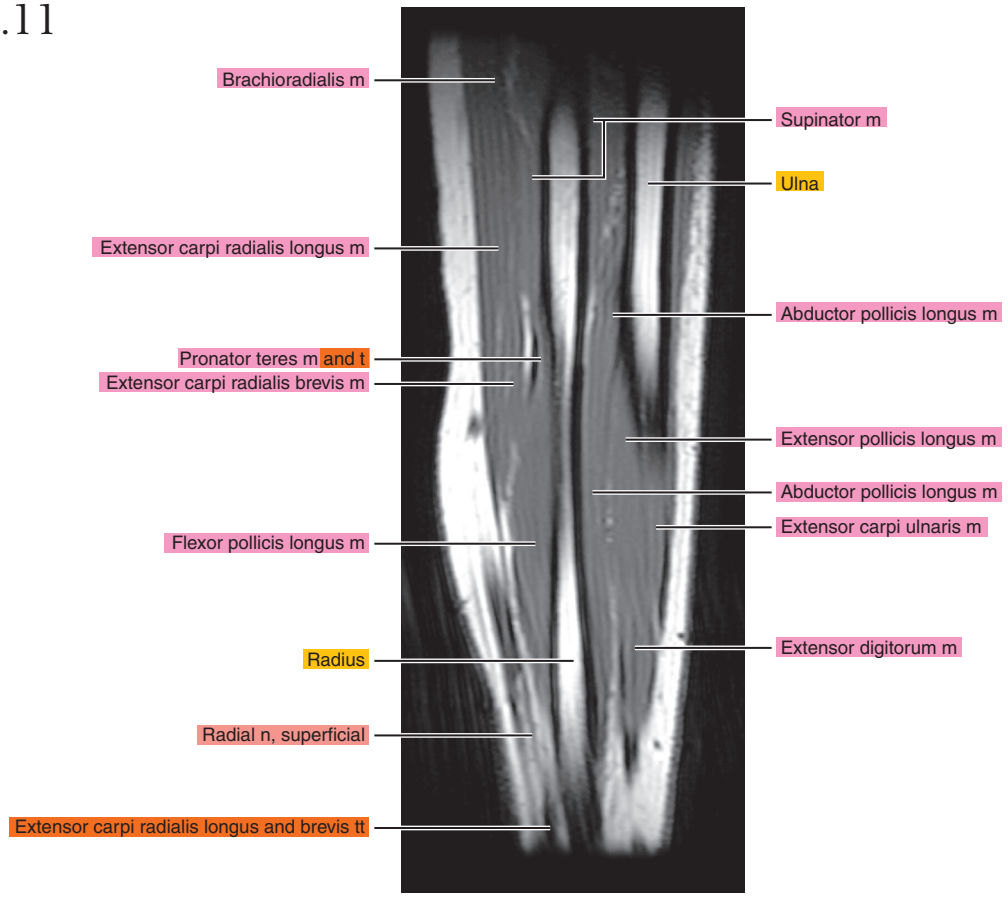


Figure 6.3.11



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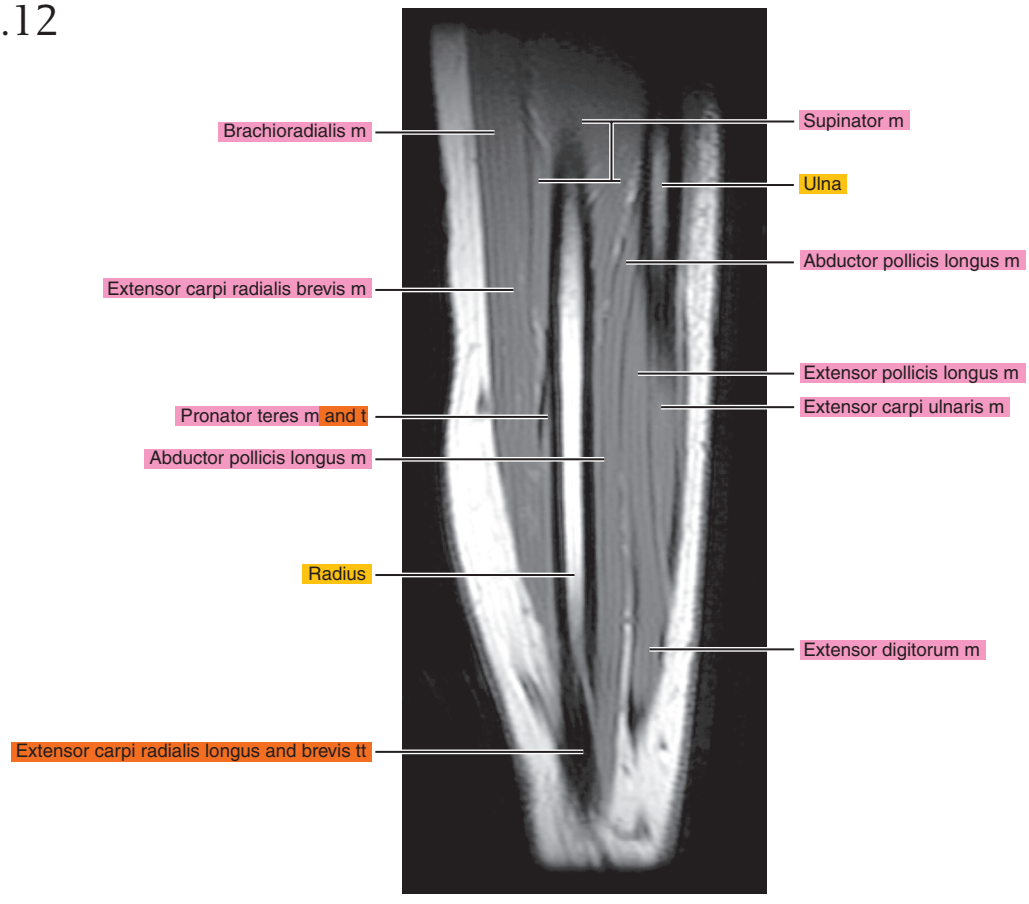

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Figure 6.3.14

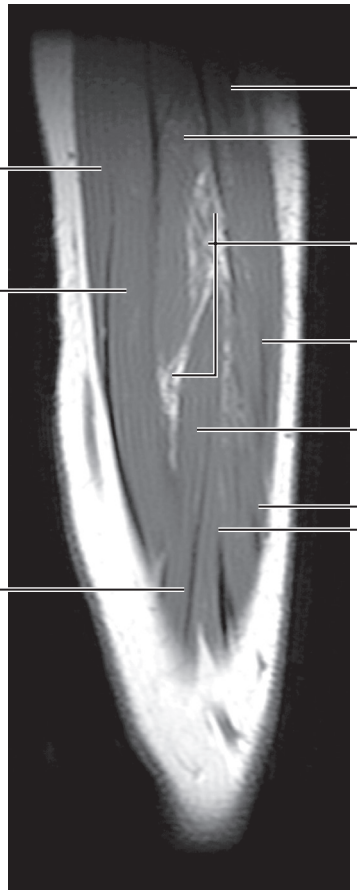


Figure 6.3.15

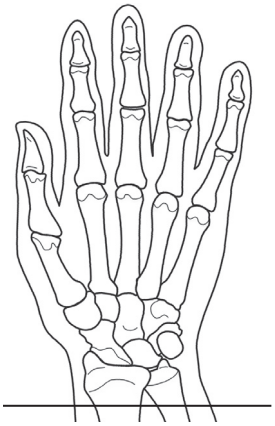
Figure 6.3.16

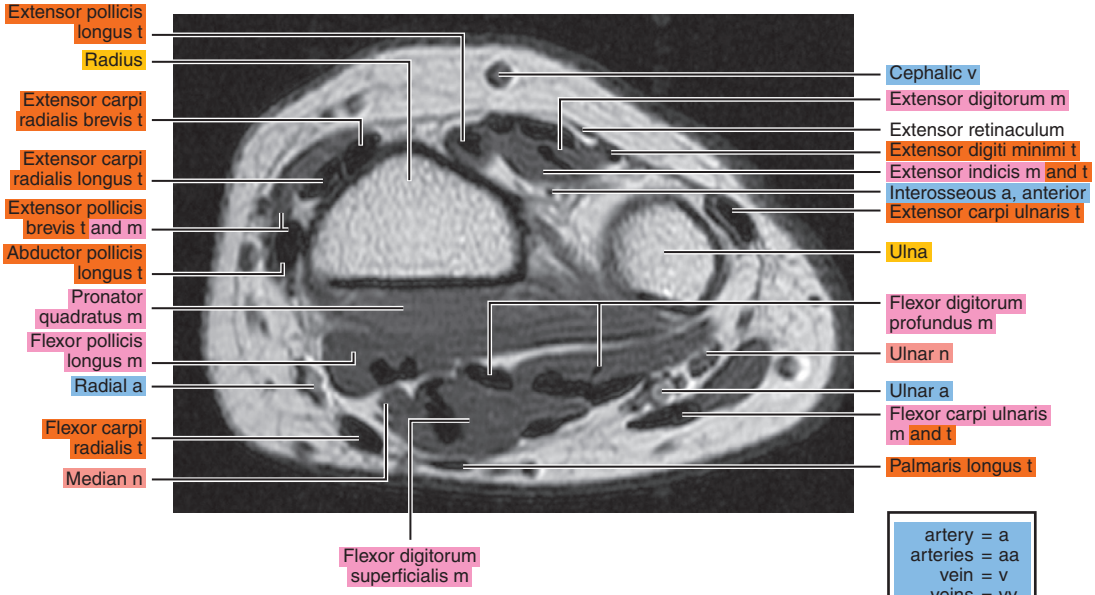
Chapter 7

MRI of the Wrist

AXIAL

Figure 7.1.1





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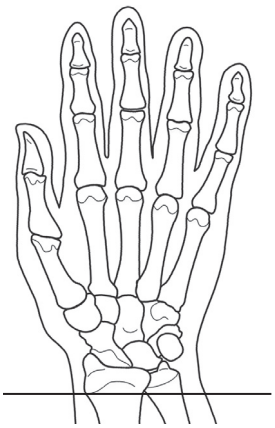

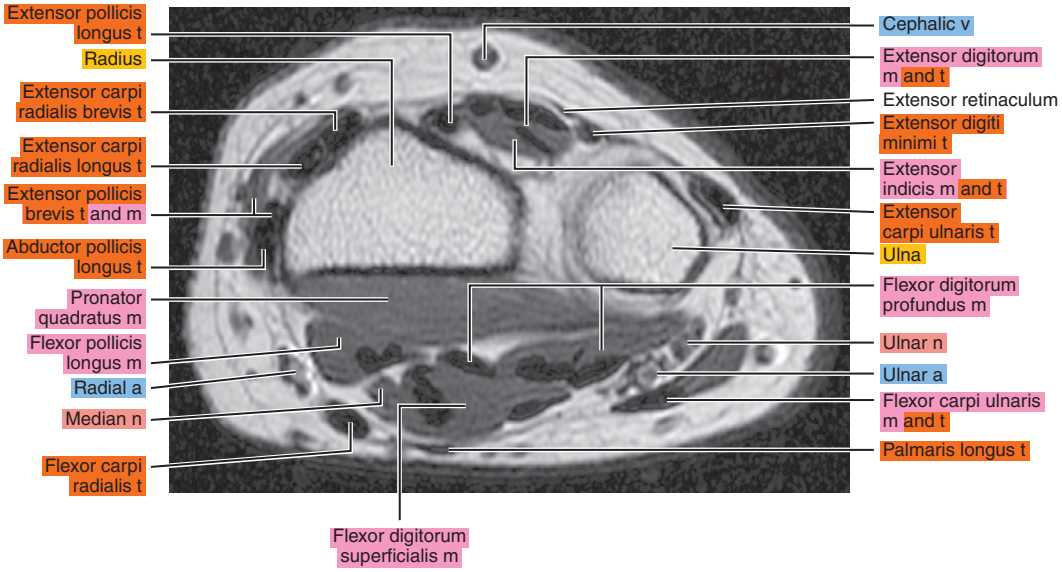

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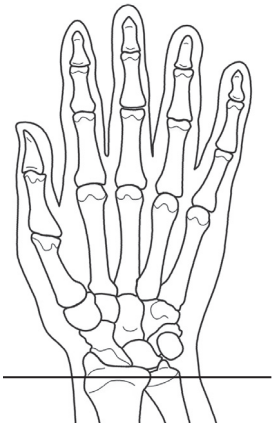

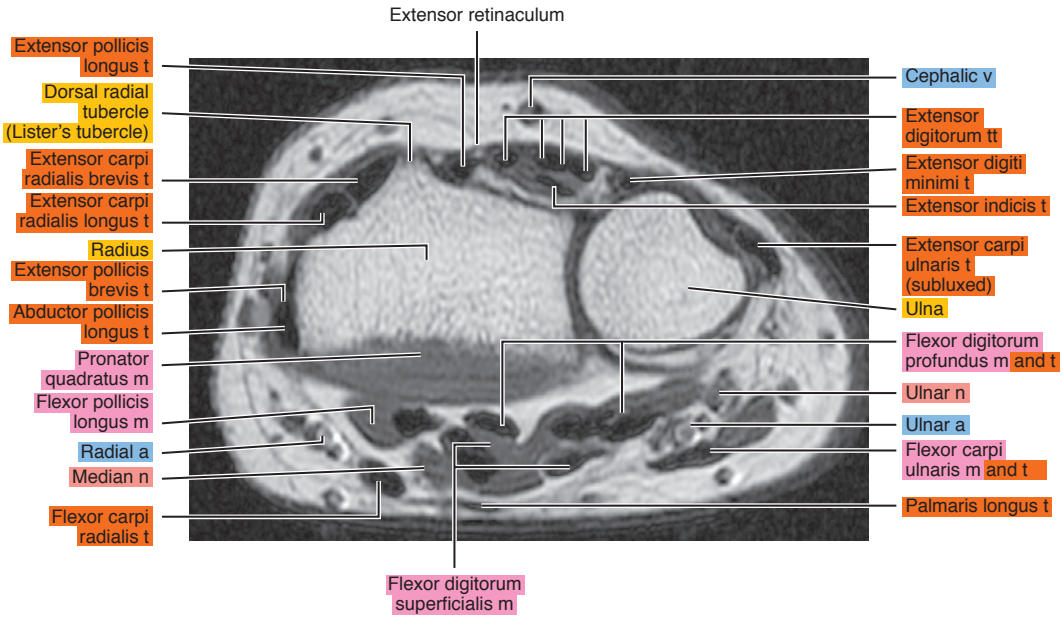

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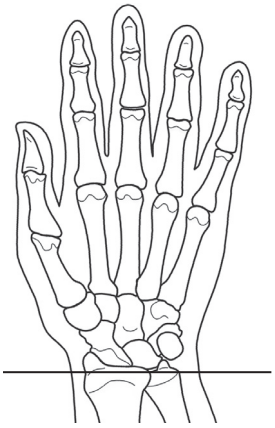

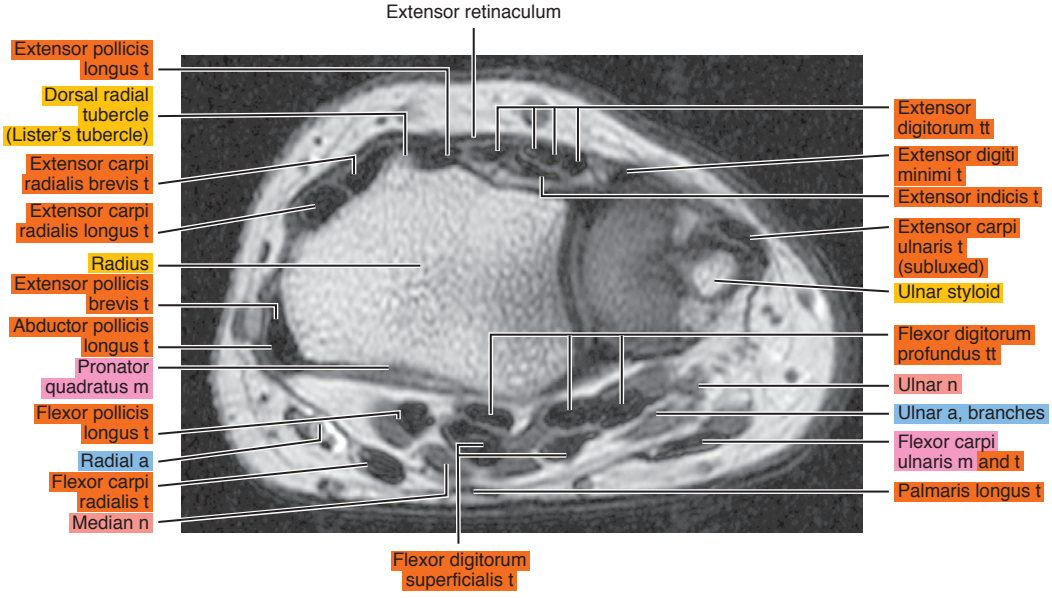

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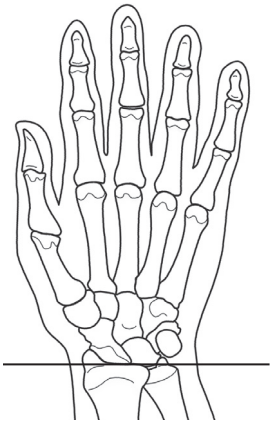

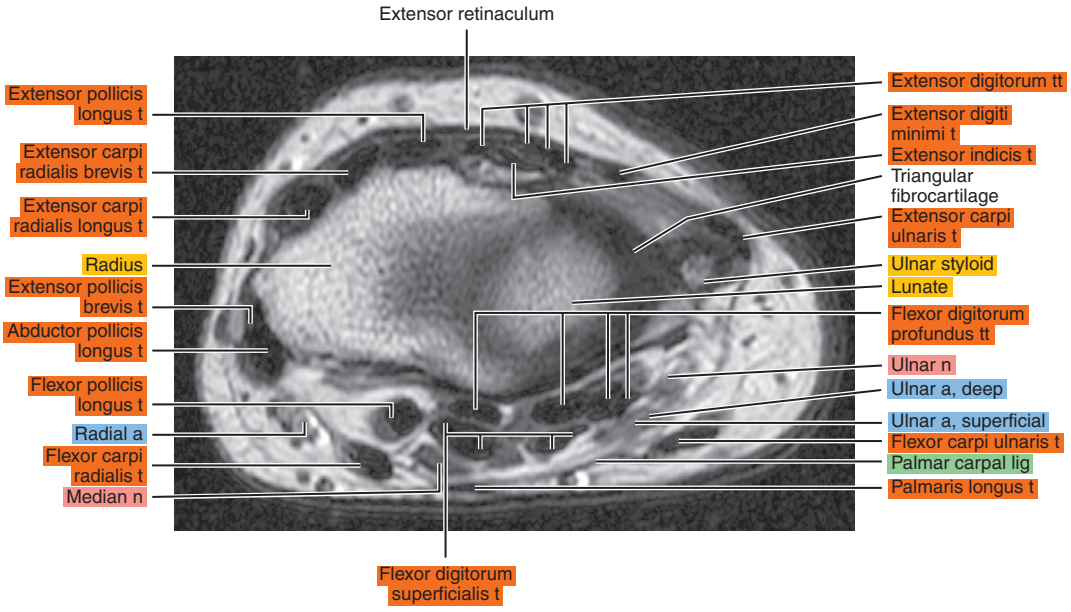

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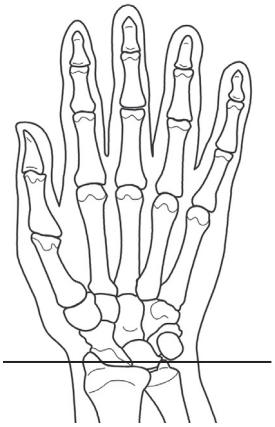

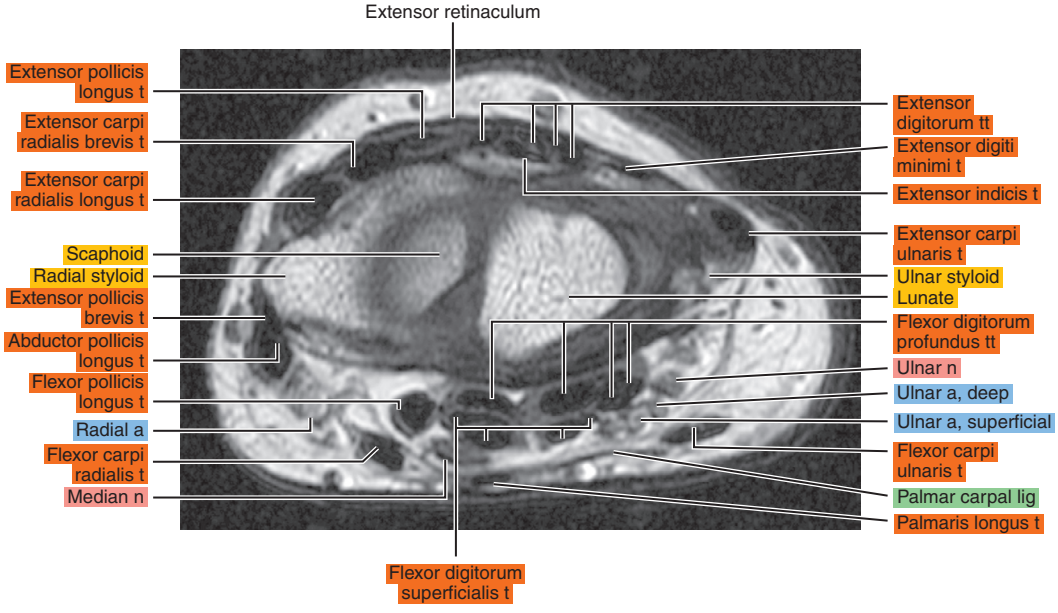

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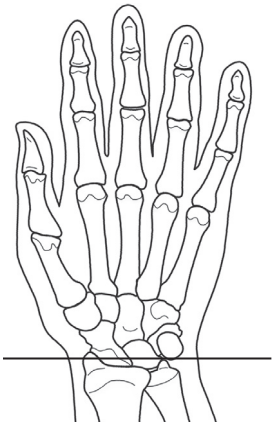

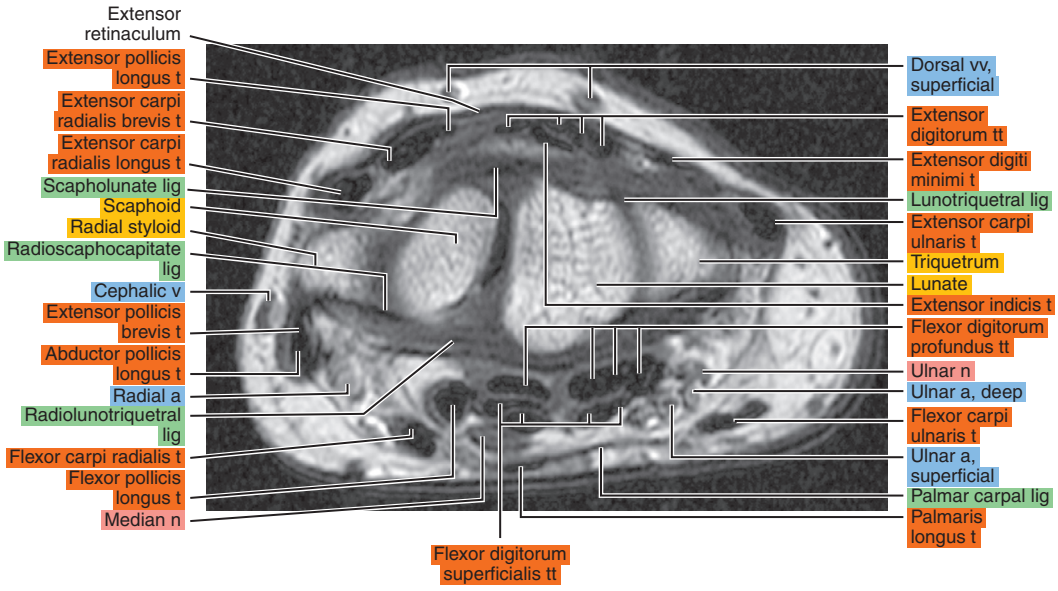

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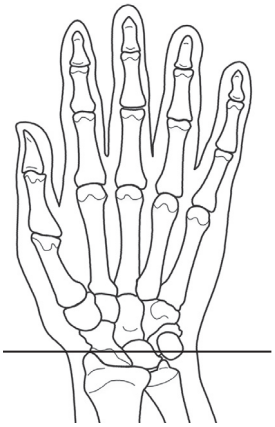

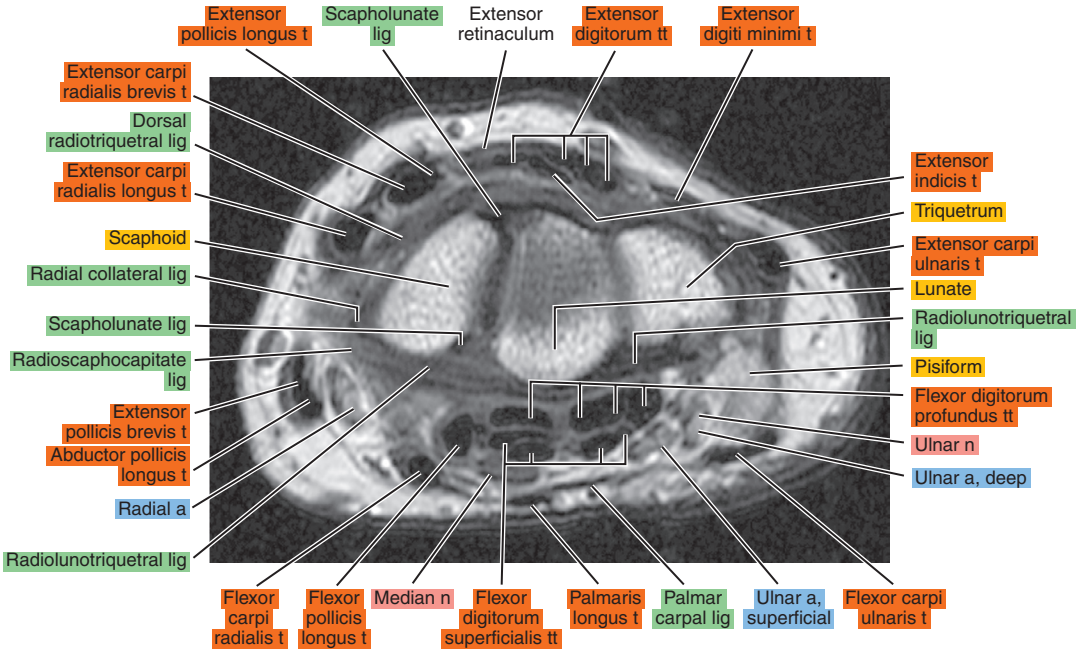

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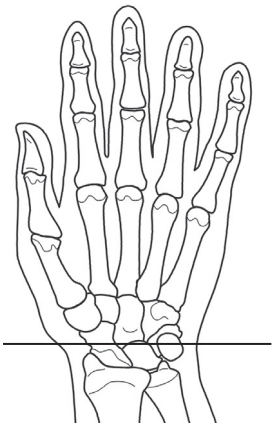

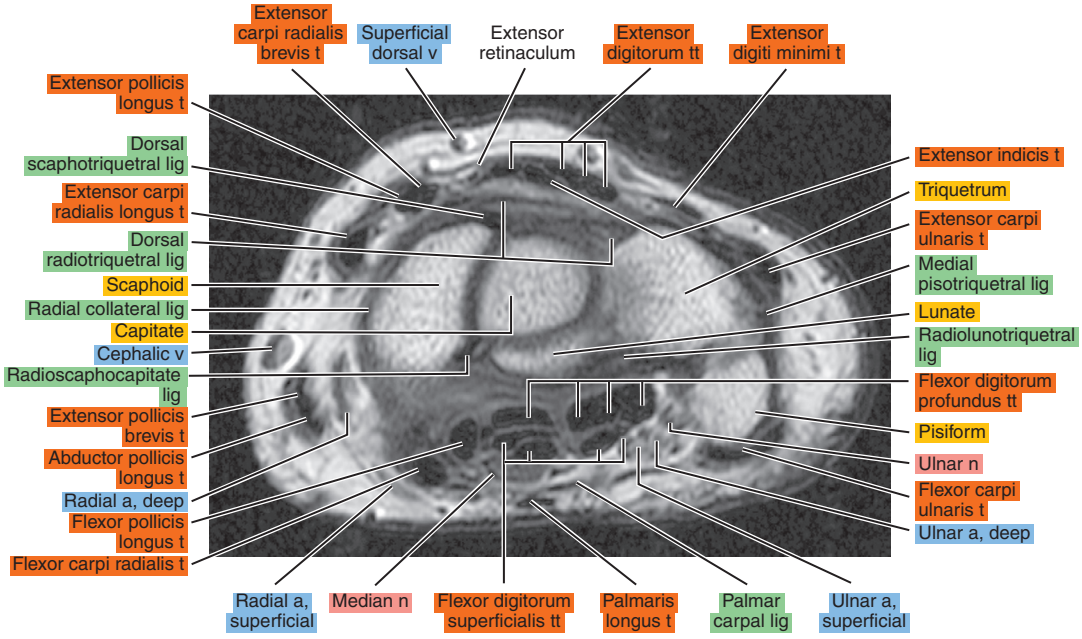

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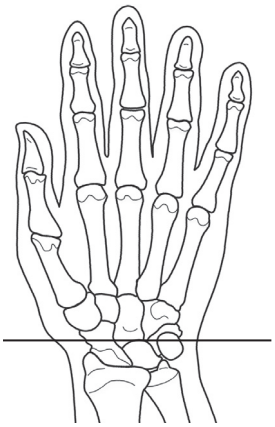

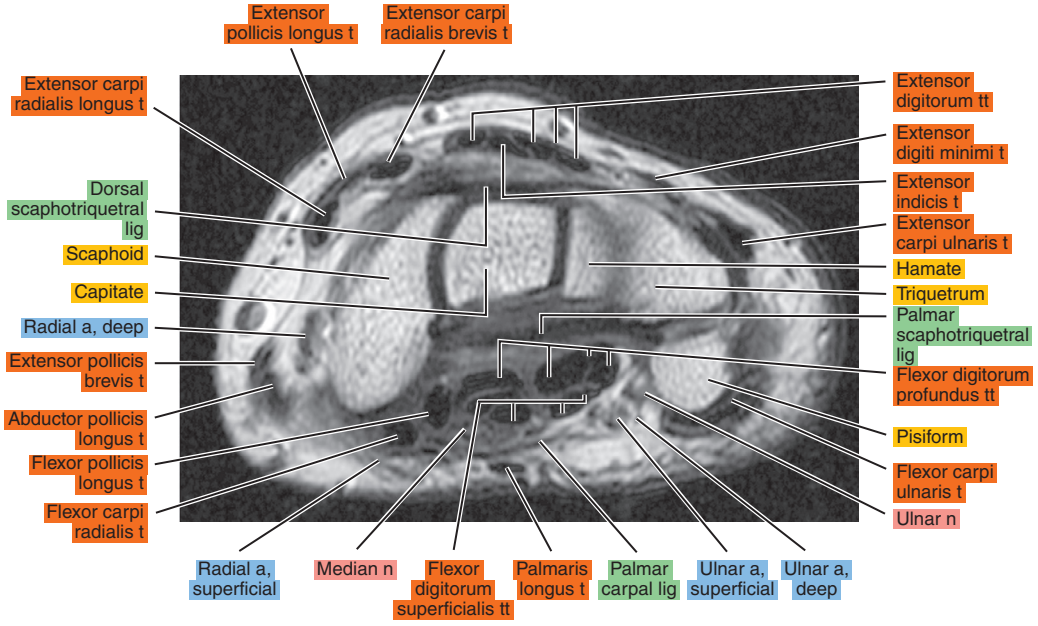

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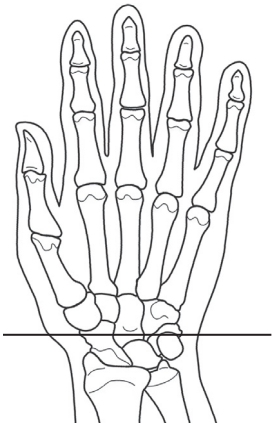

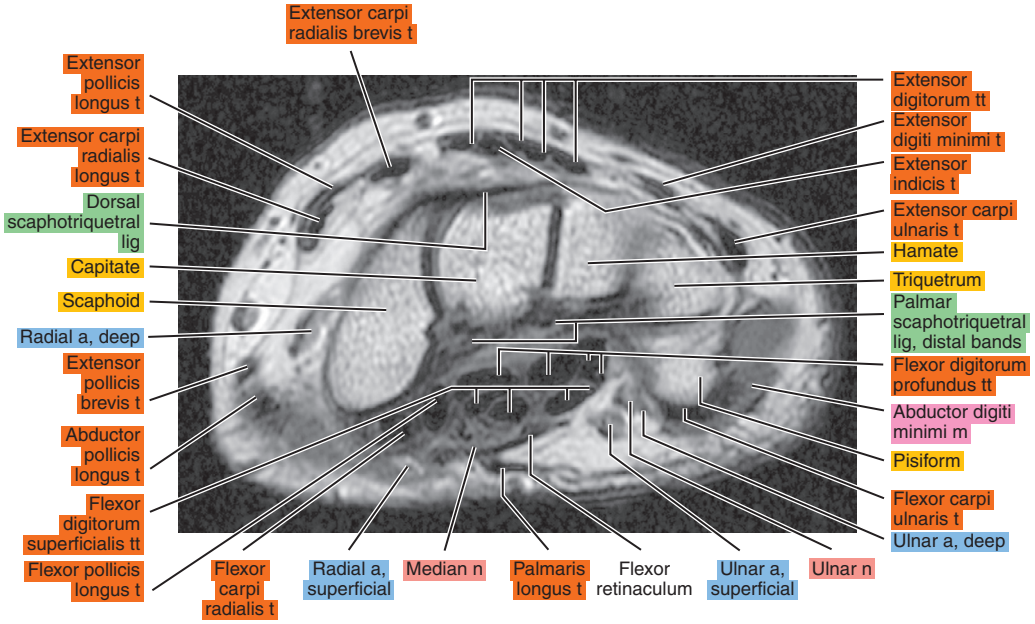

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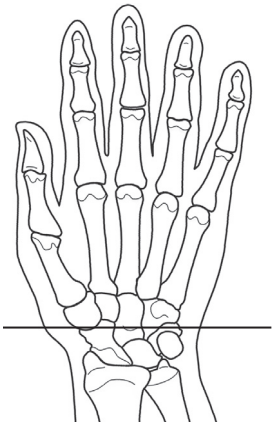

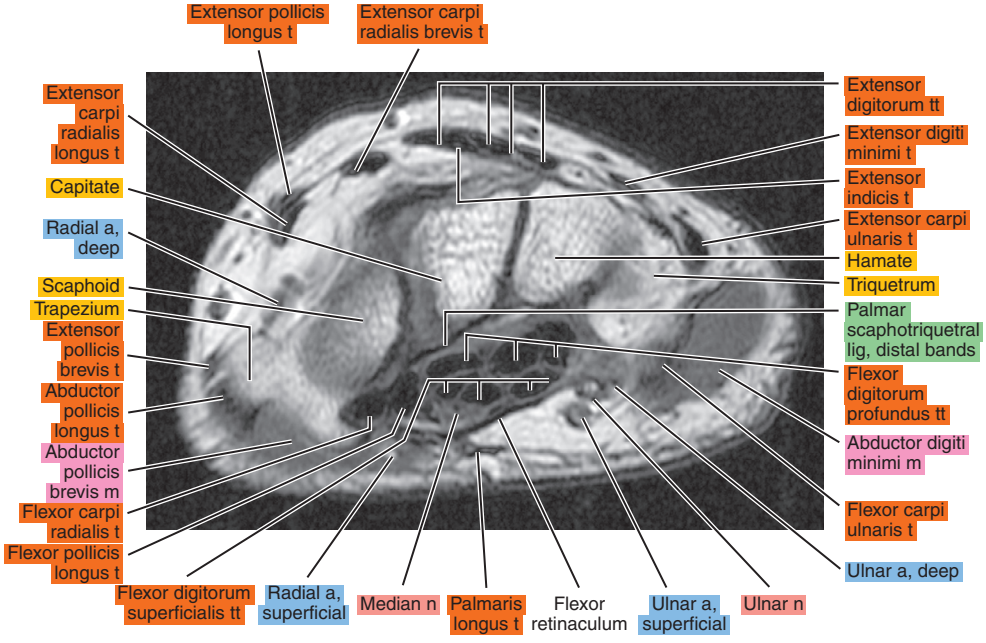

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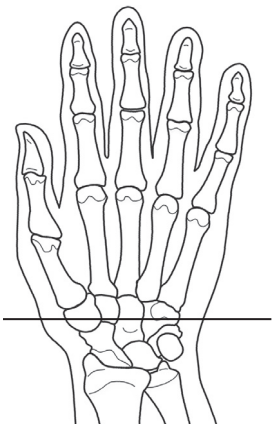

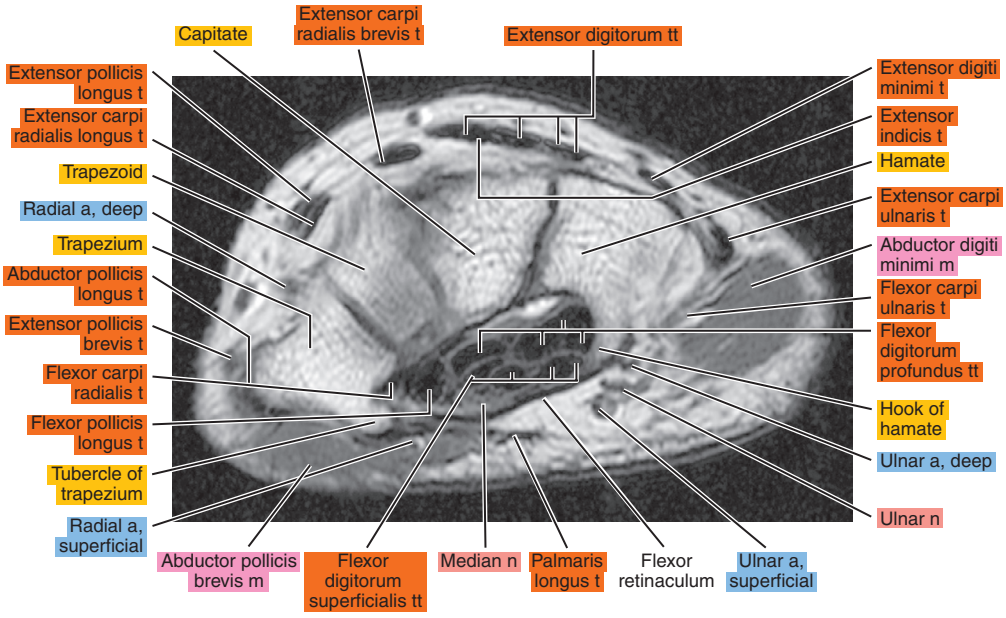

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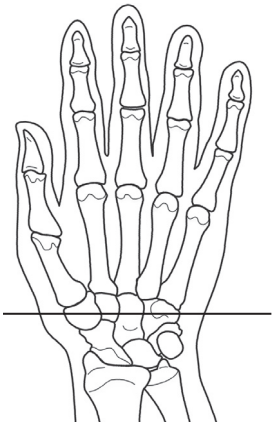

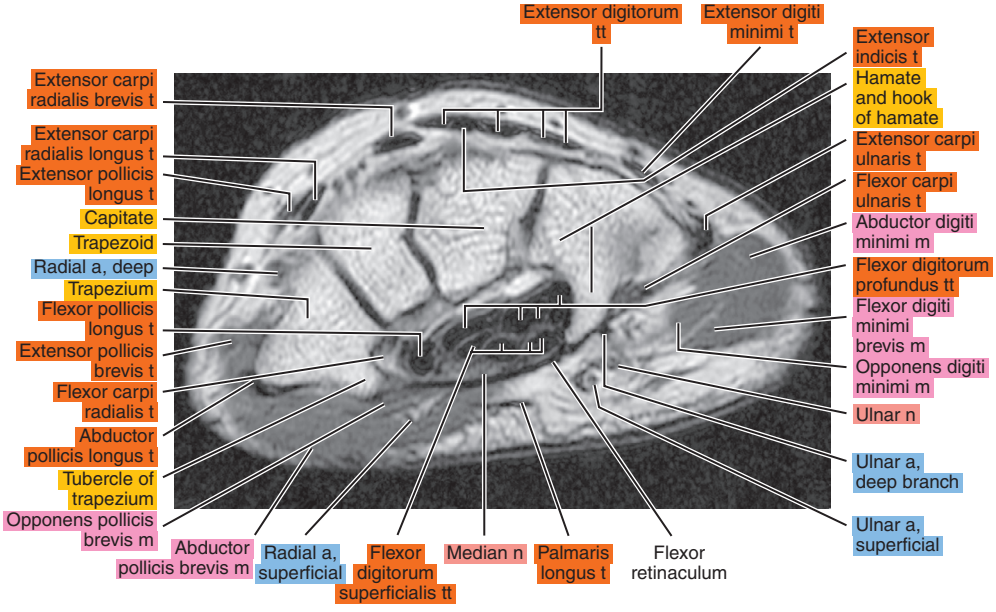

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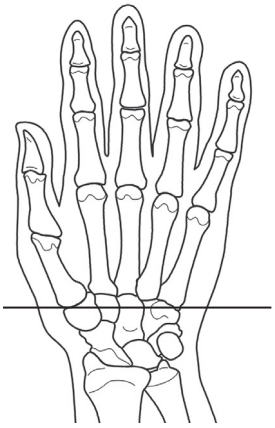

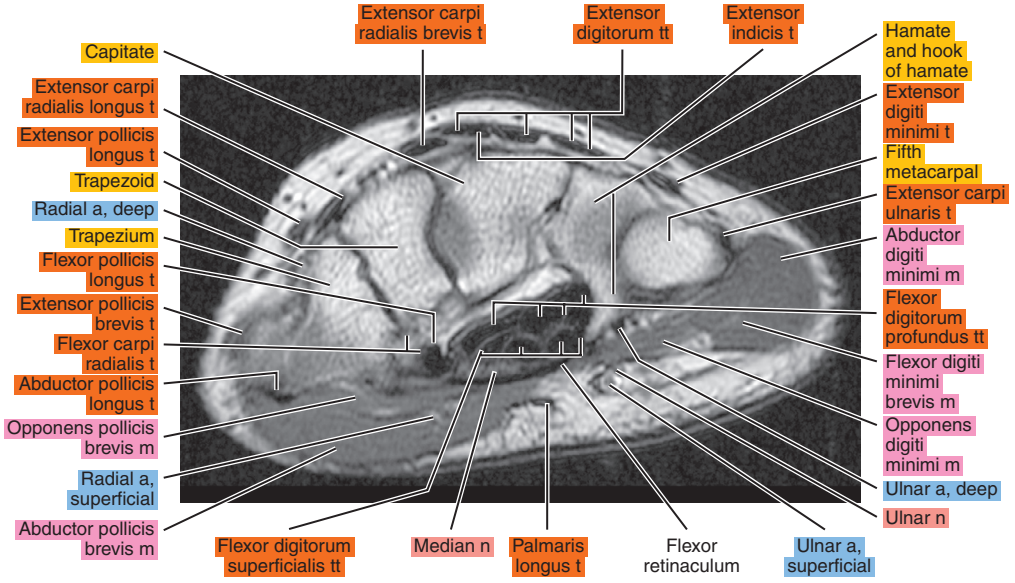

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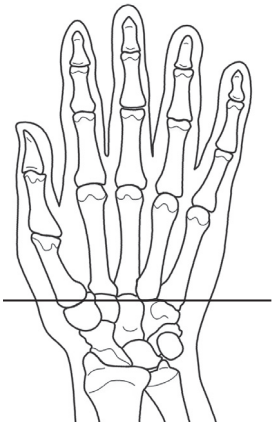

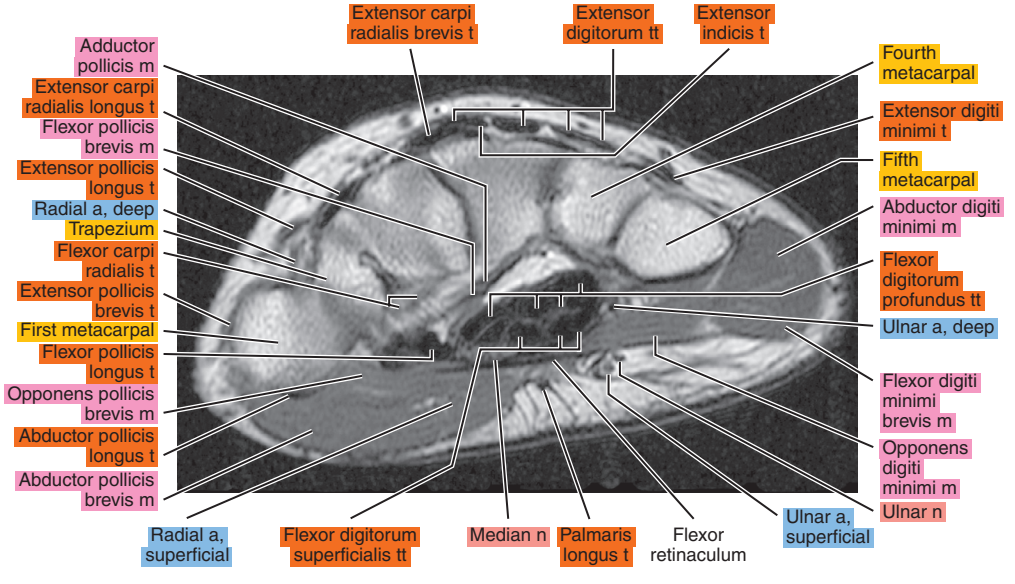

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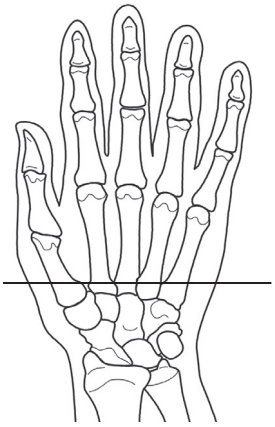

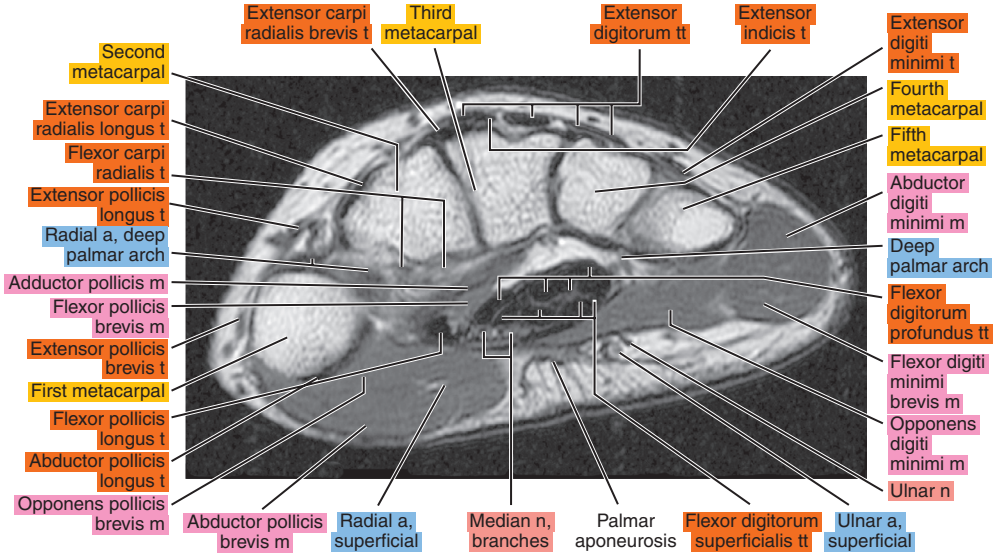

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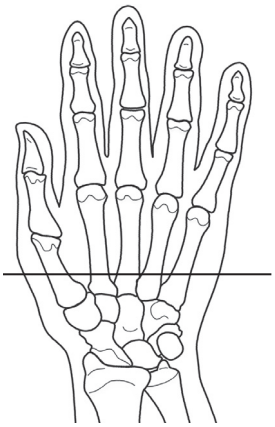

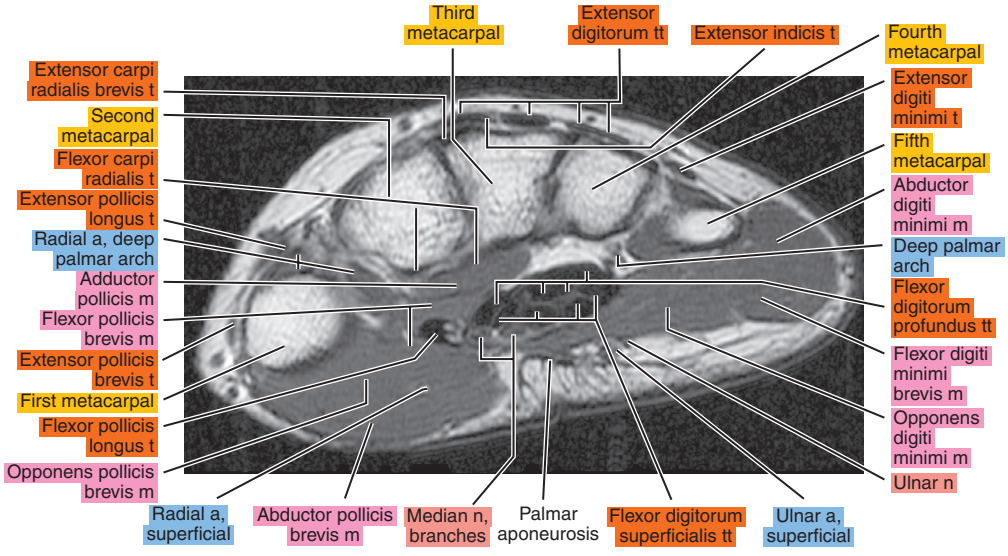

SAGITTAL

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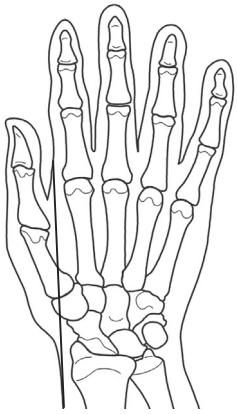

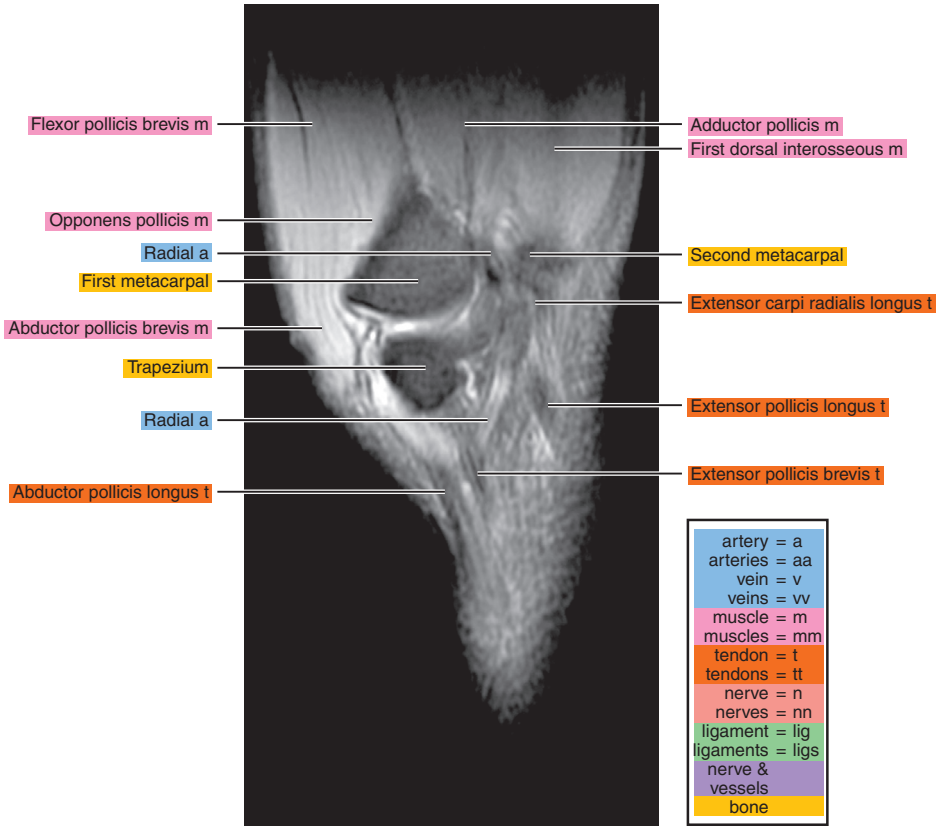

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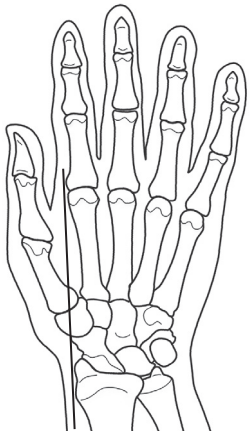

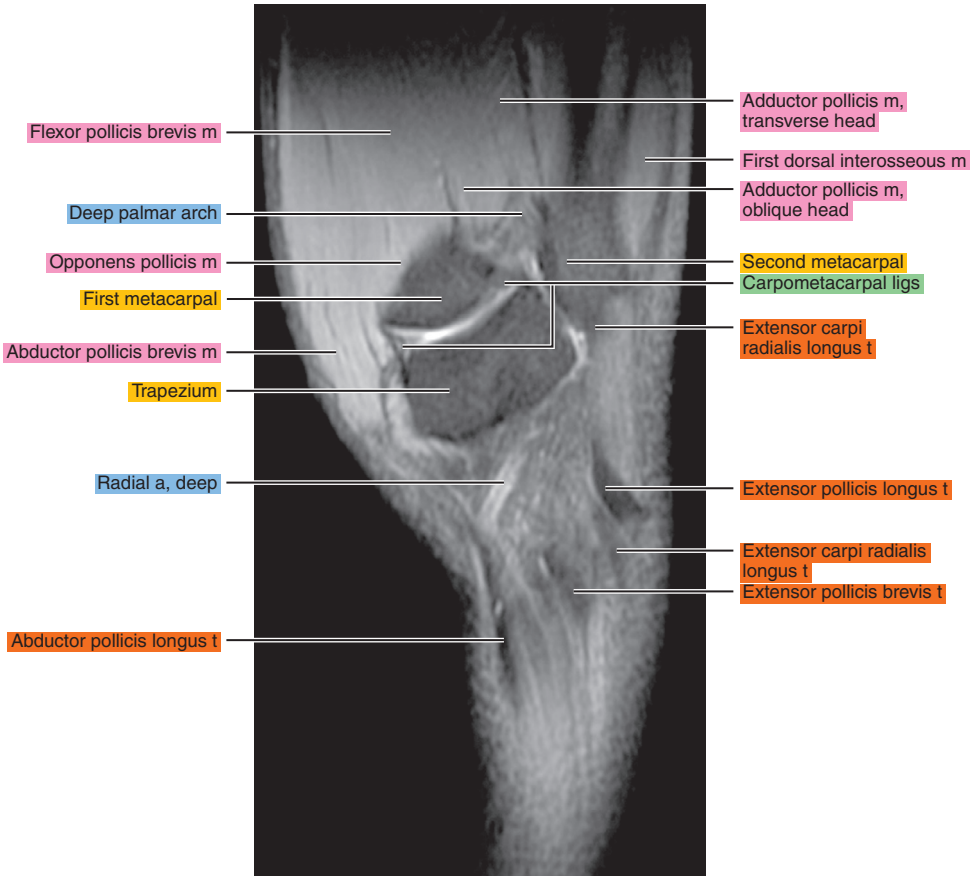

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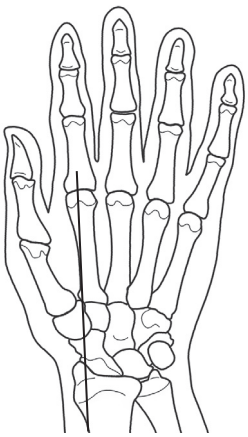

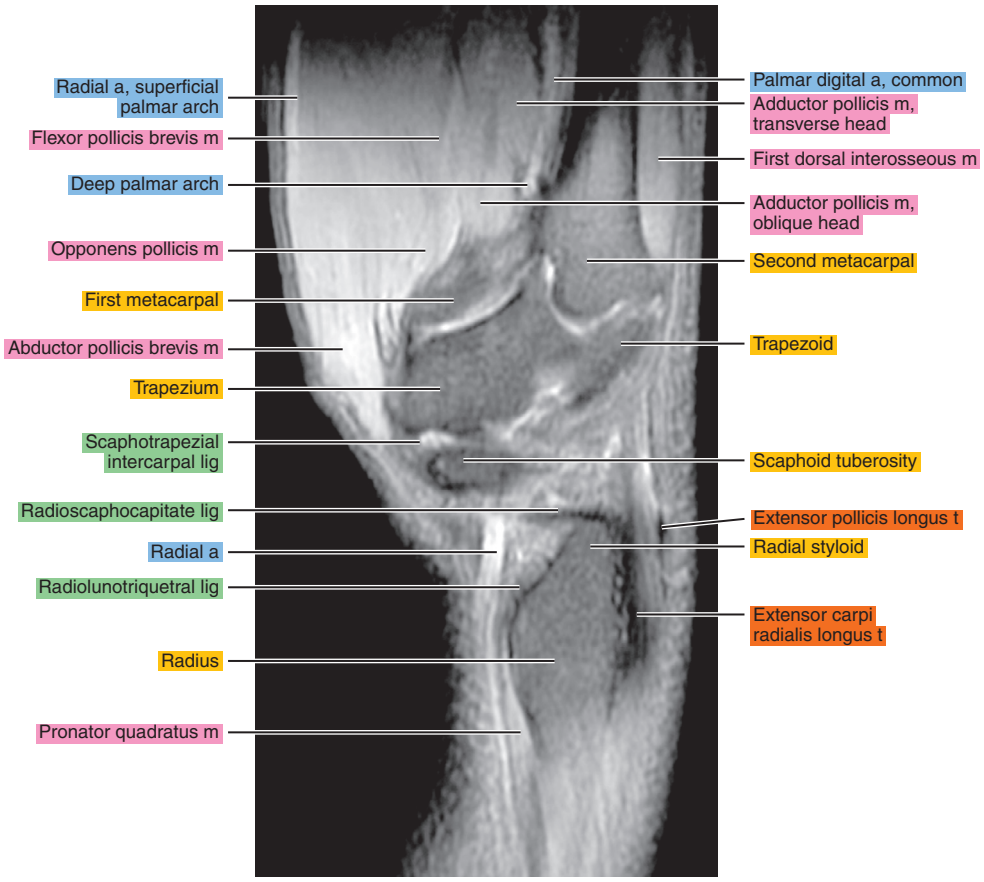

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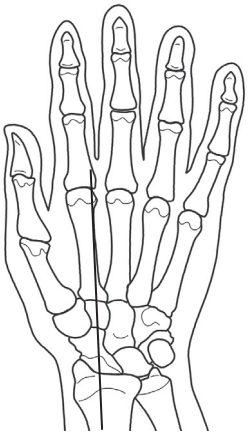

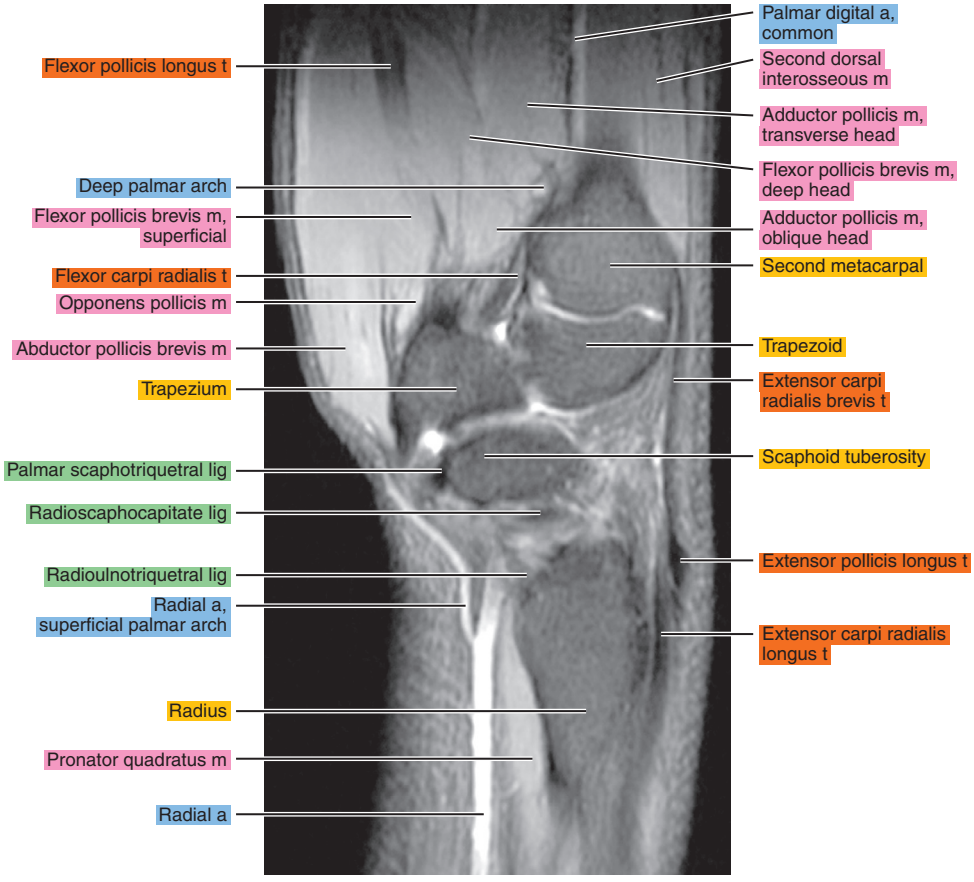

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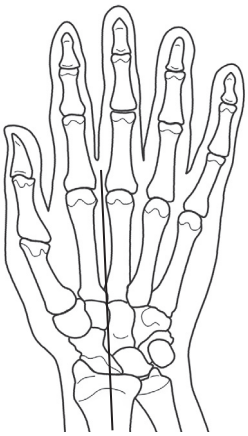

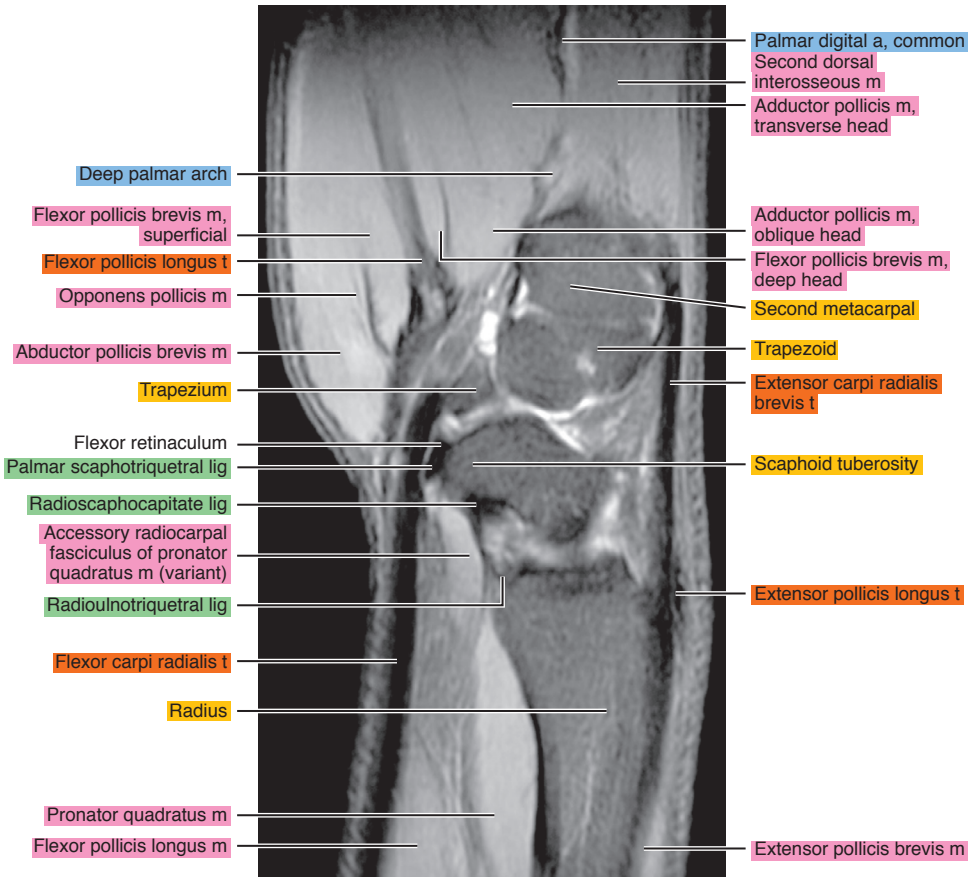

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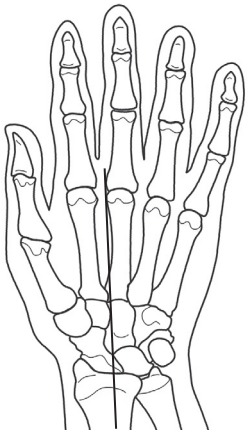

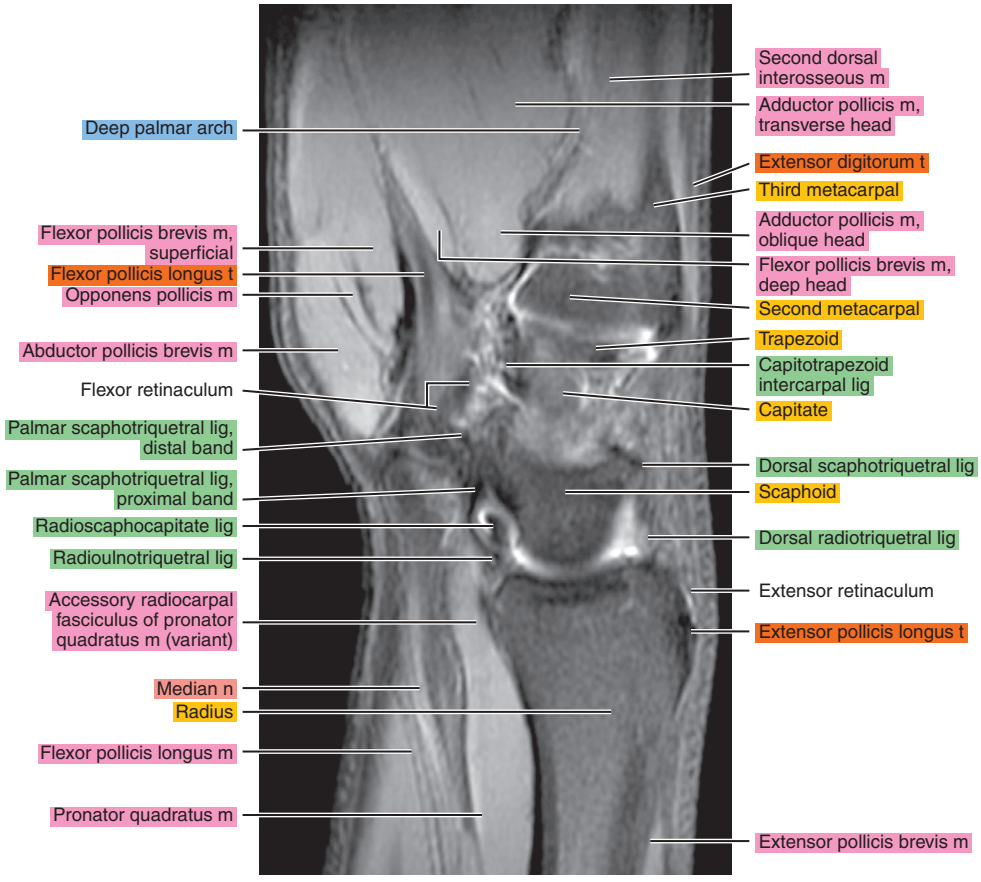

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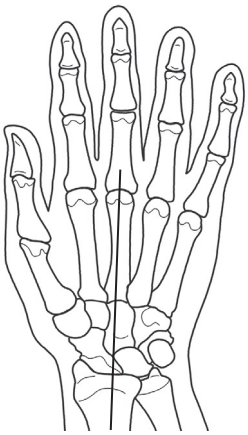

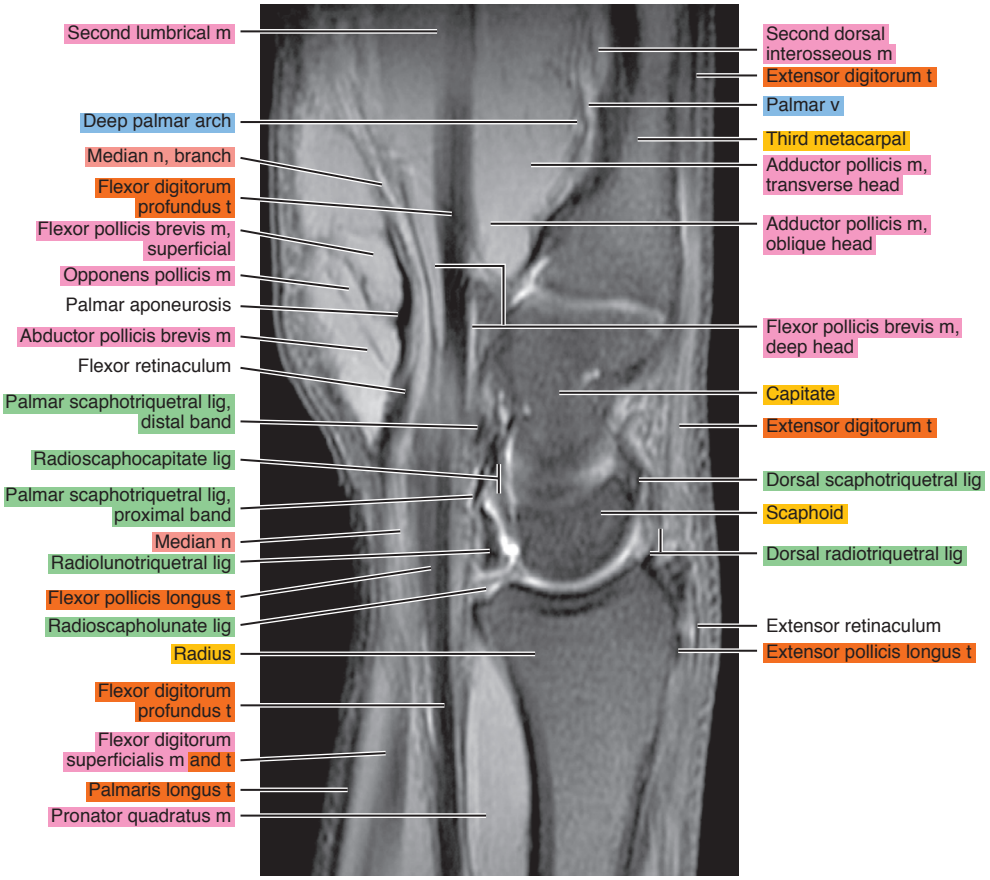

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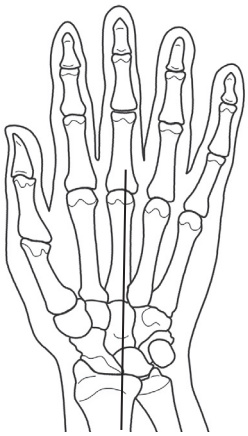

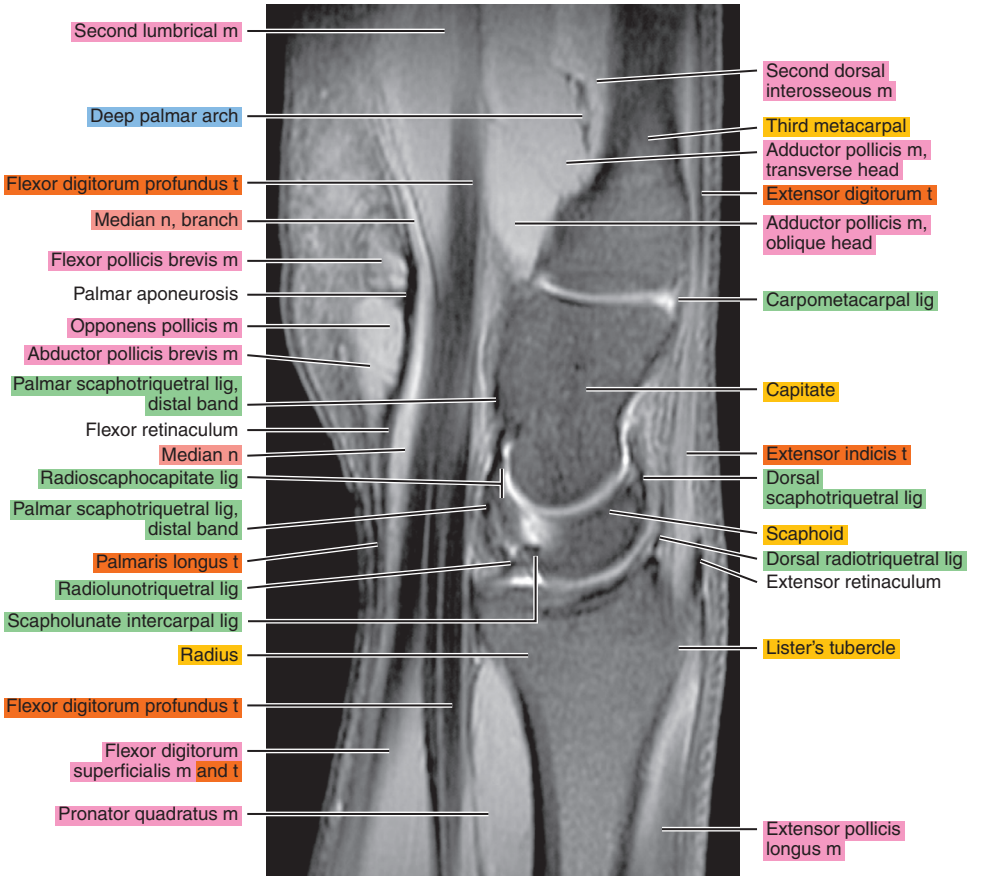

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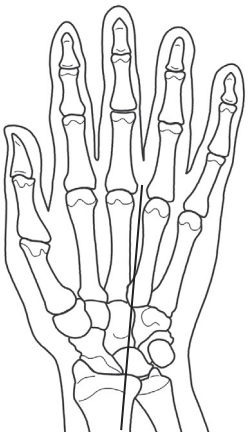

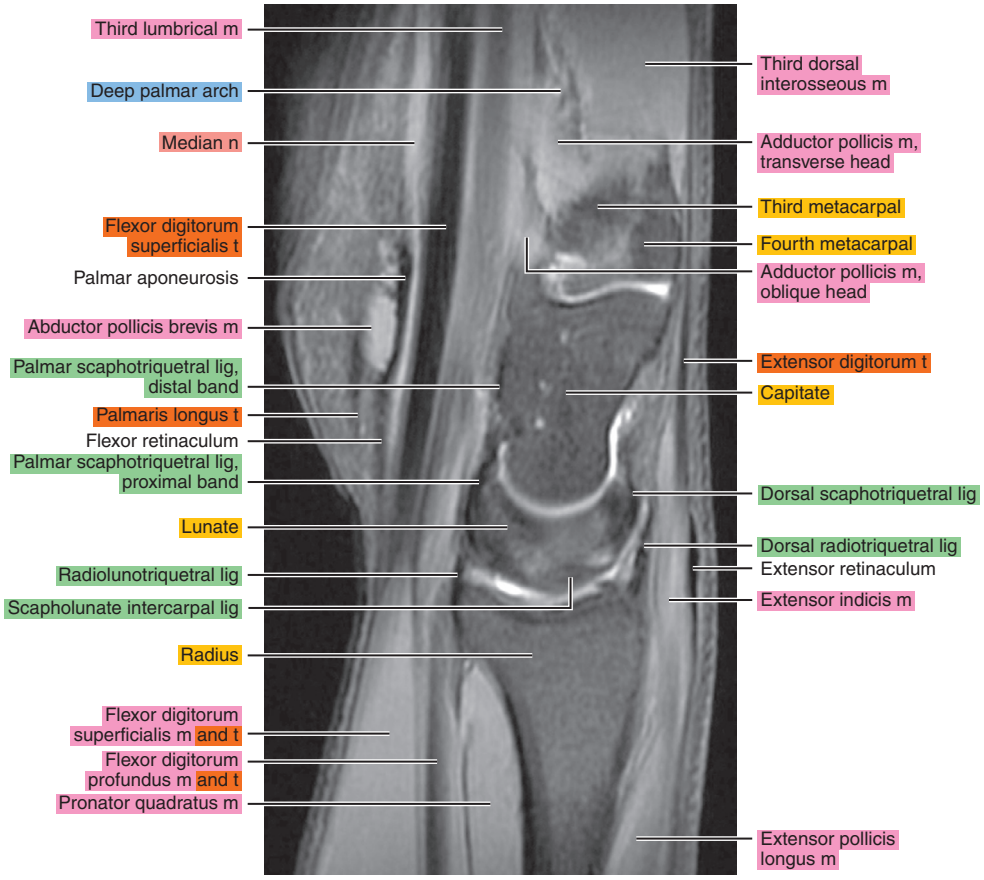

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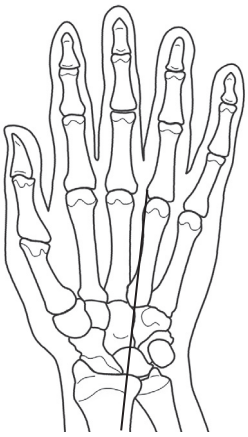

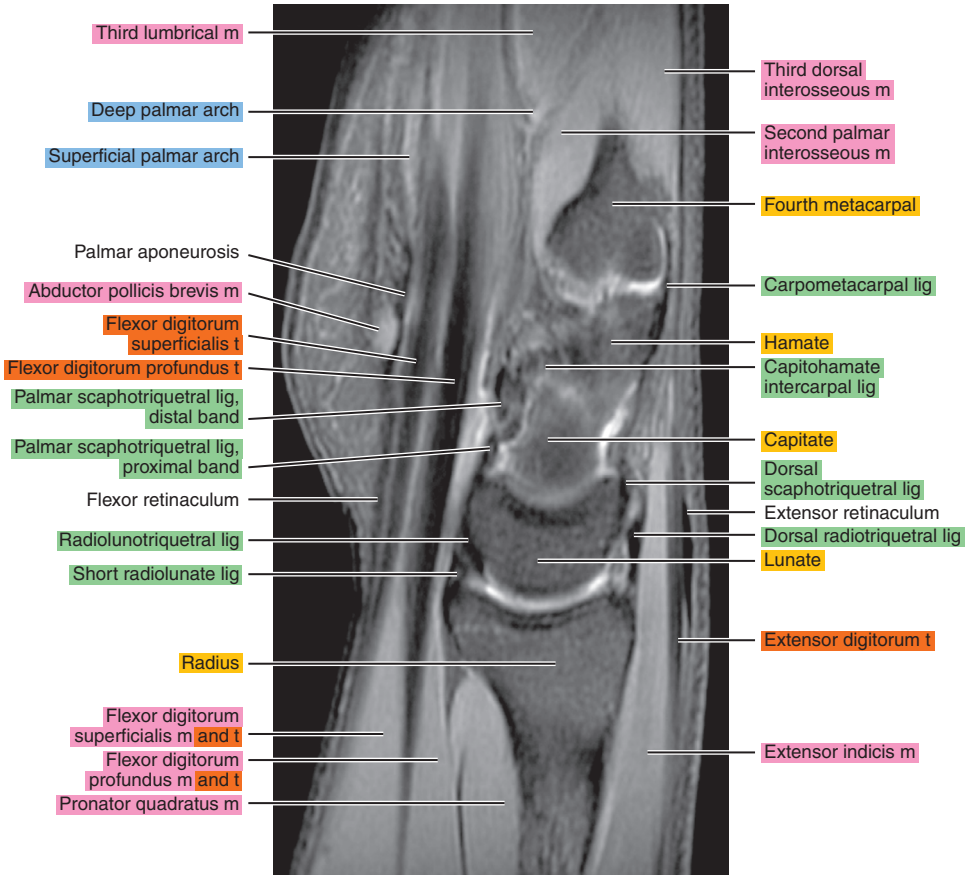

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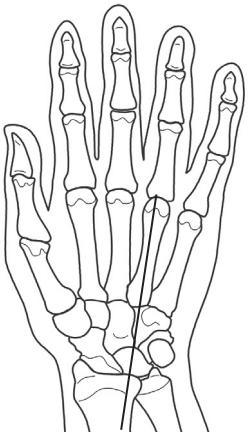

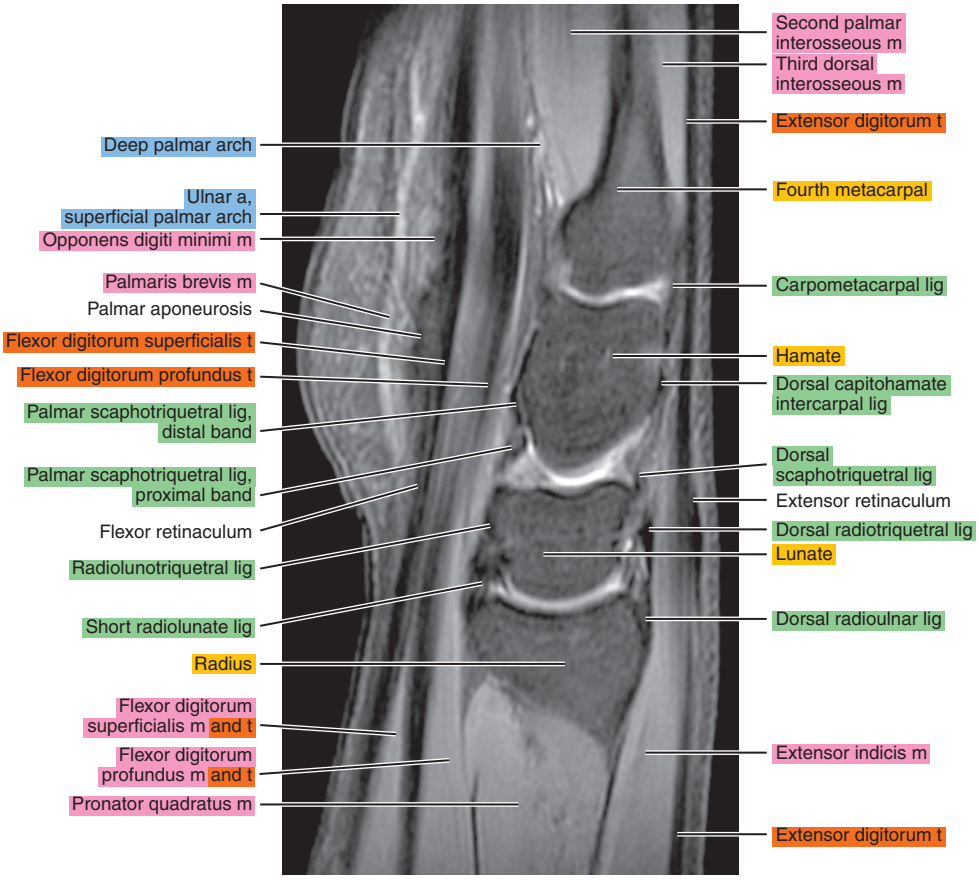

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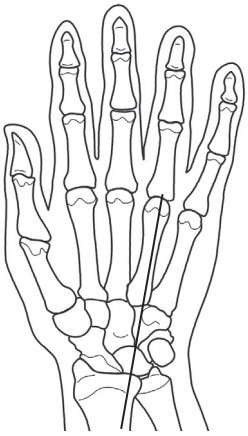

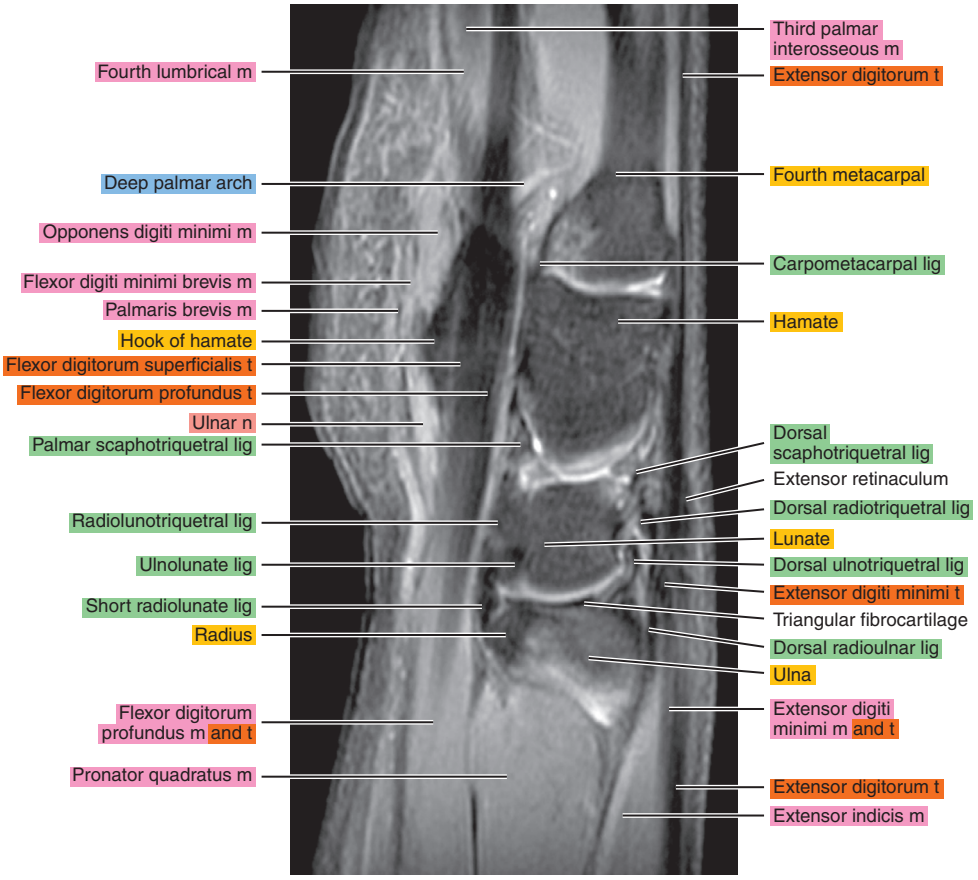

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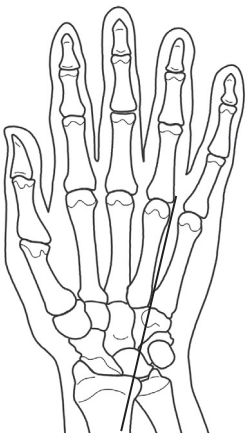

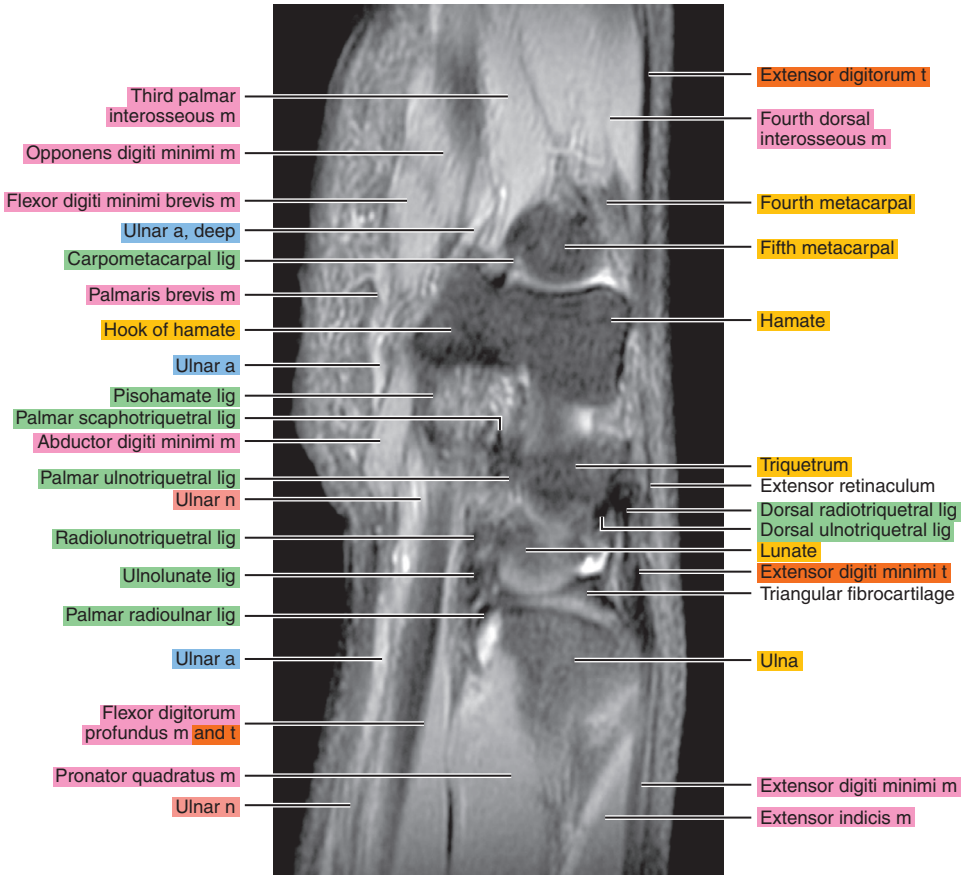

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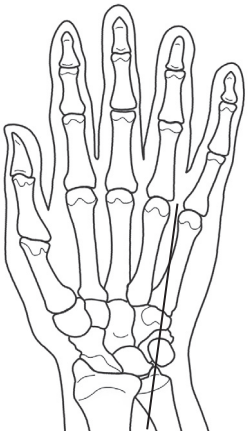

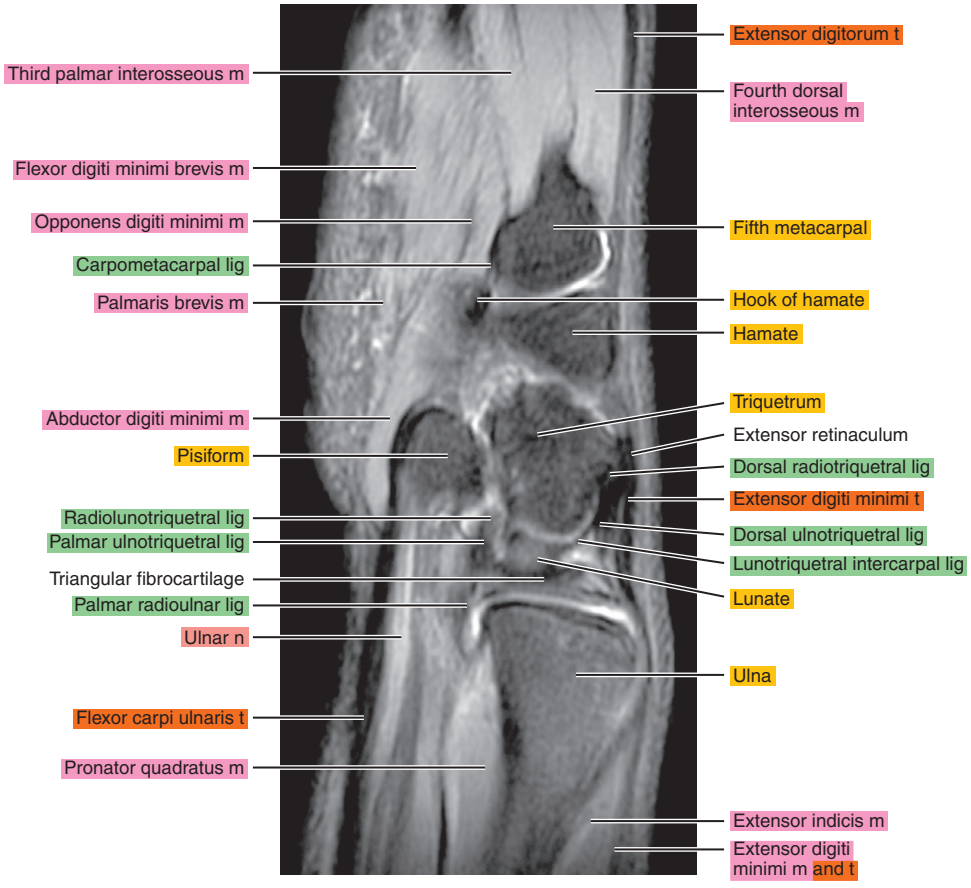

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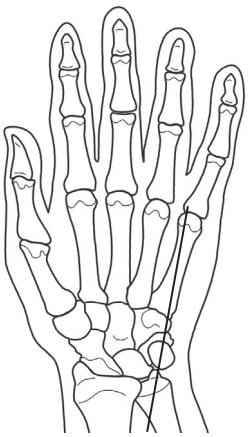

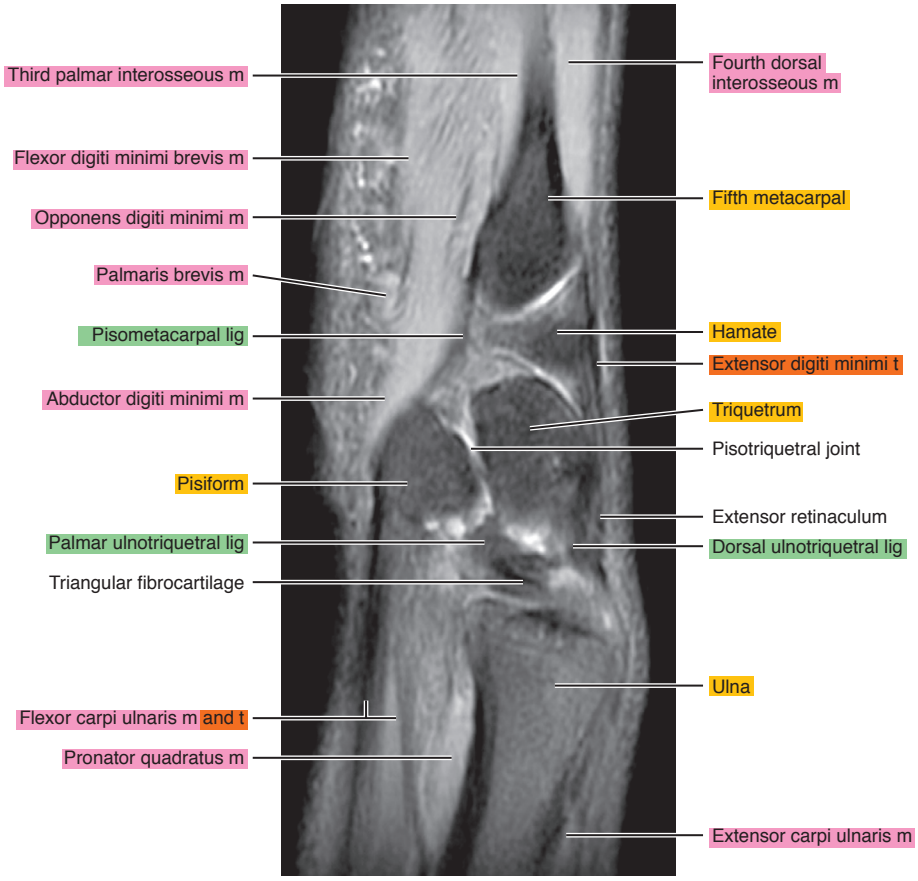

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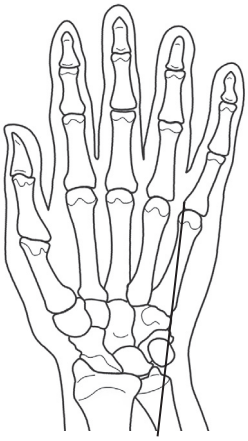

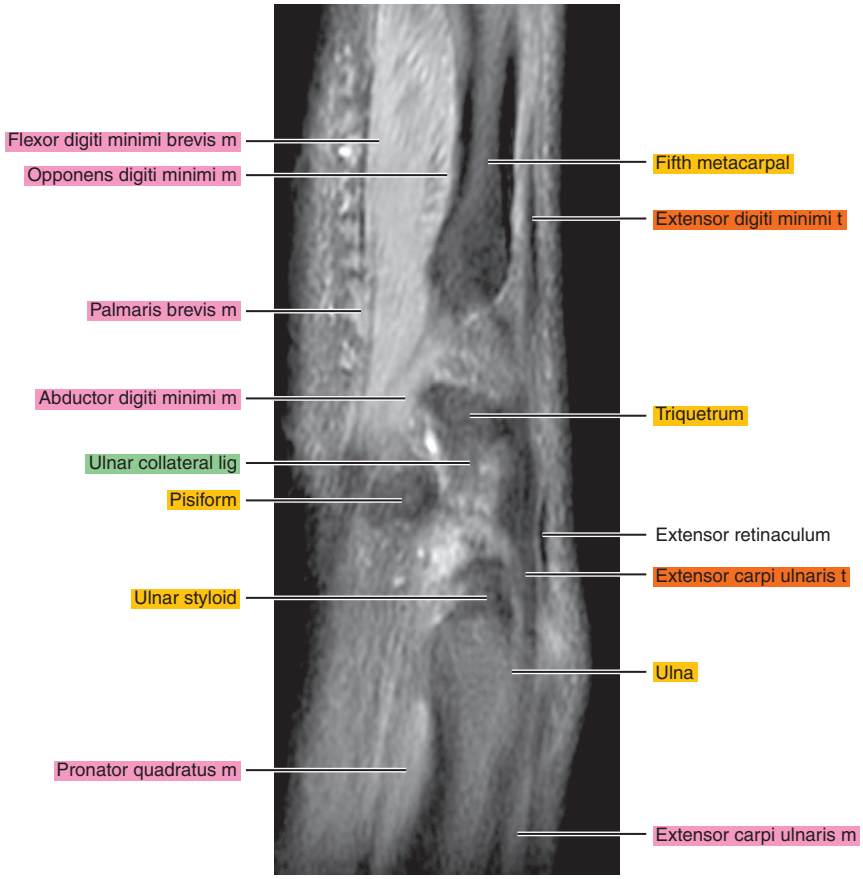

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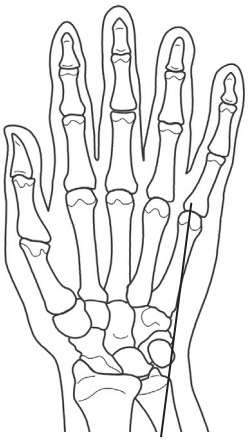

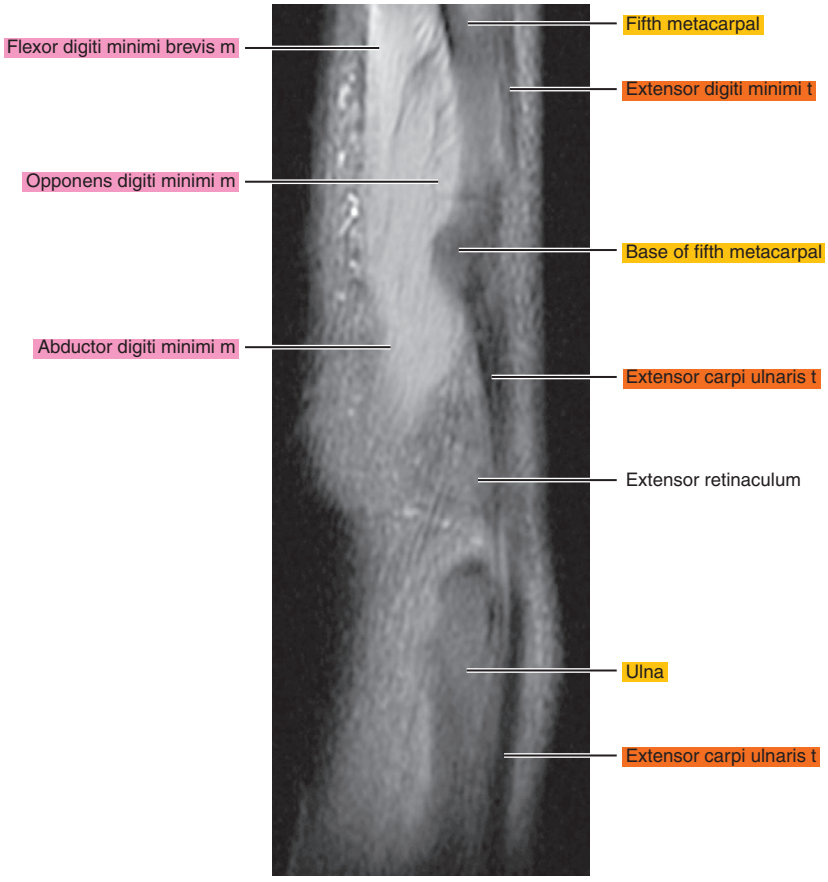
Flexor digiti minimi brevis m
Opponens digiti minimi m
Abductor digiti minimi m
Fifth metacarpal
Extensor digiti minimi t
Base of fifth metacarpal
Extensor carpi ulnaris t
Extensor retinaculum
Ulna
Extensor carpi ulnaris t

CORONAL

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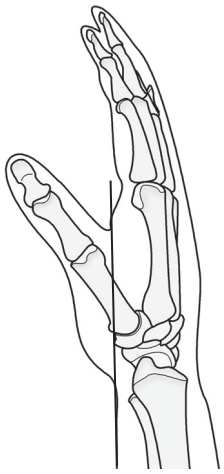

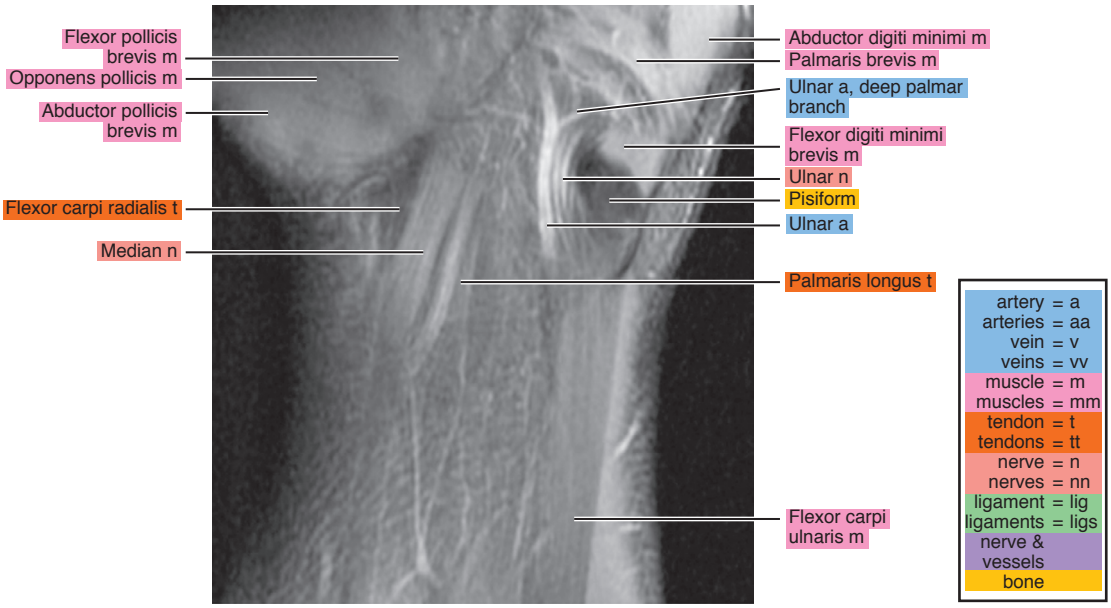

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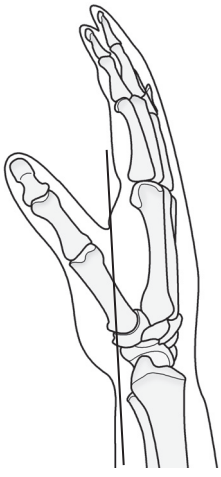

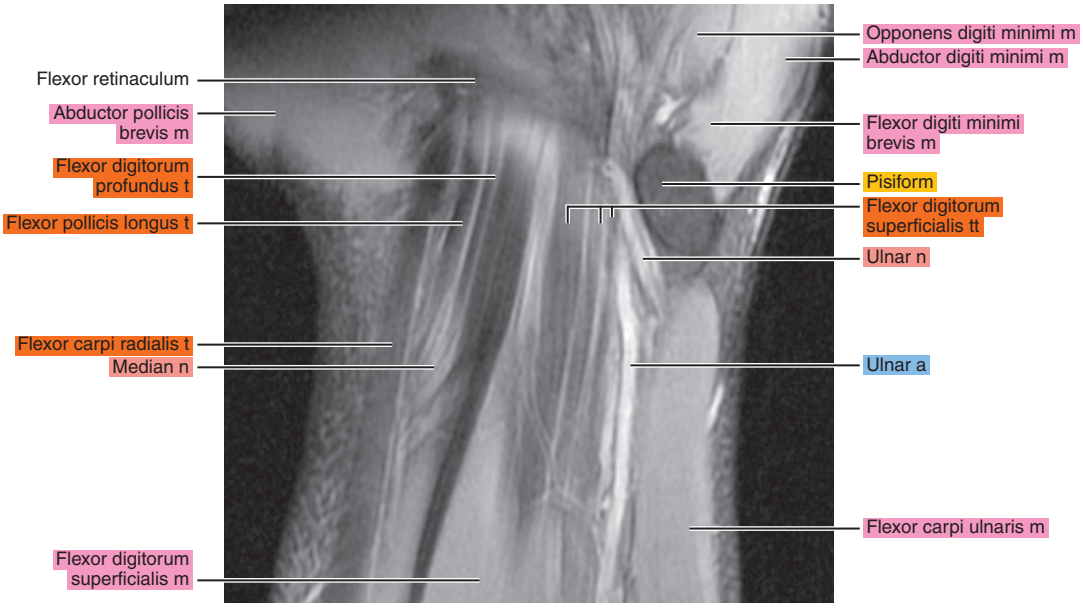

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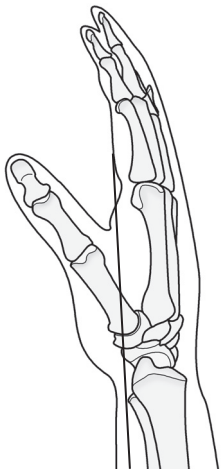

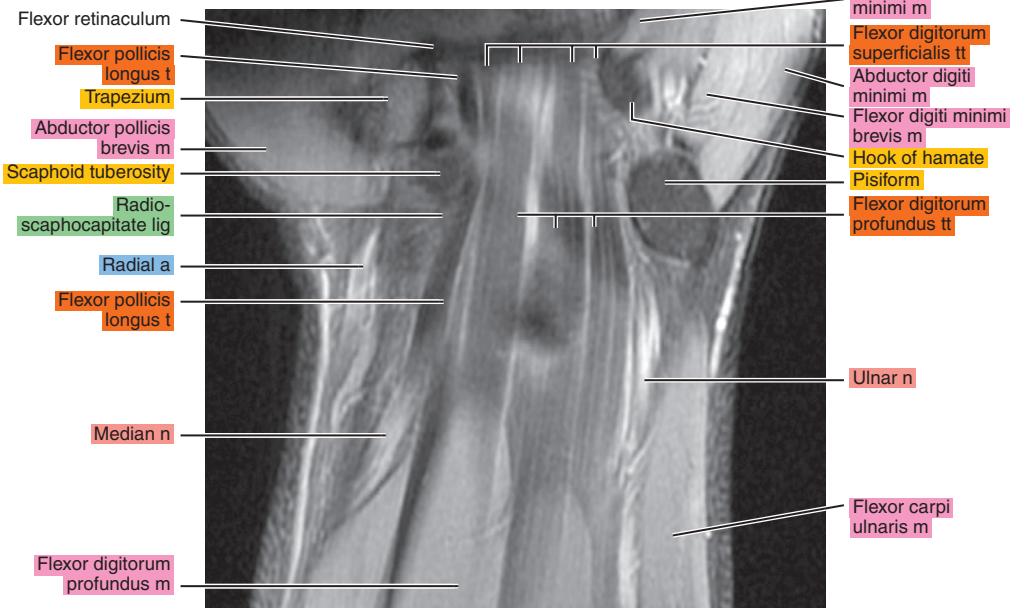

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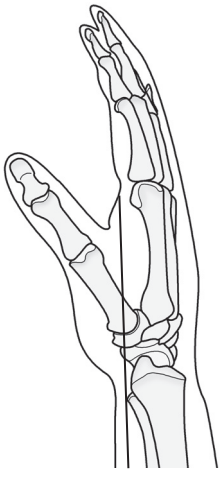

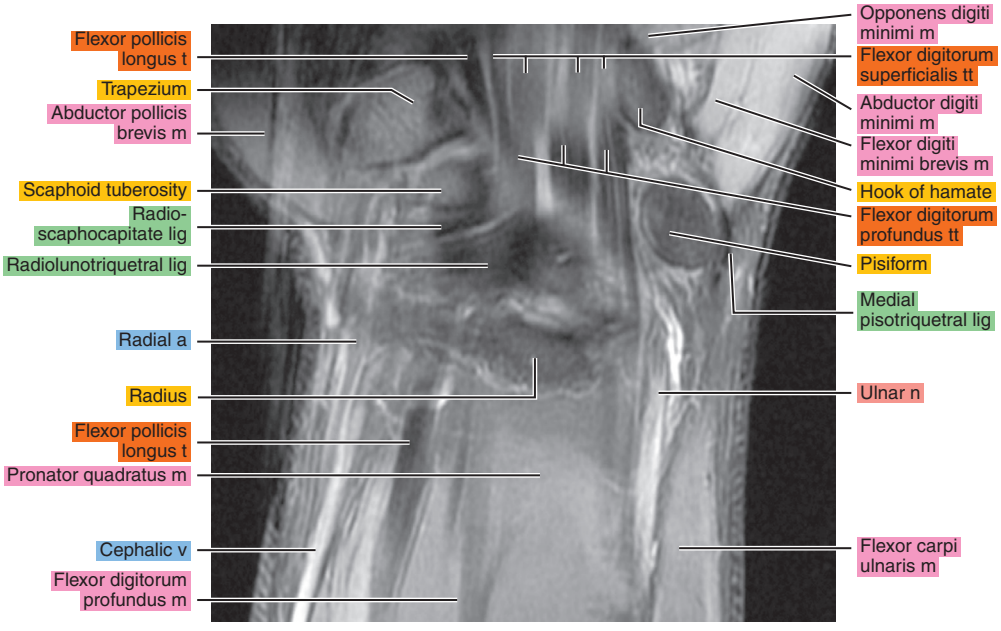

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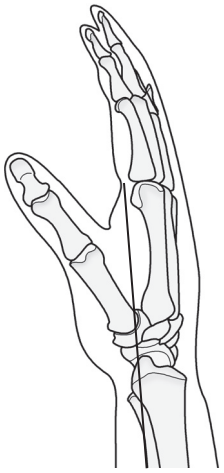

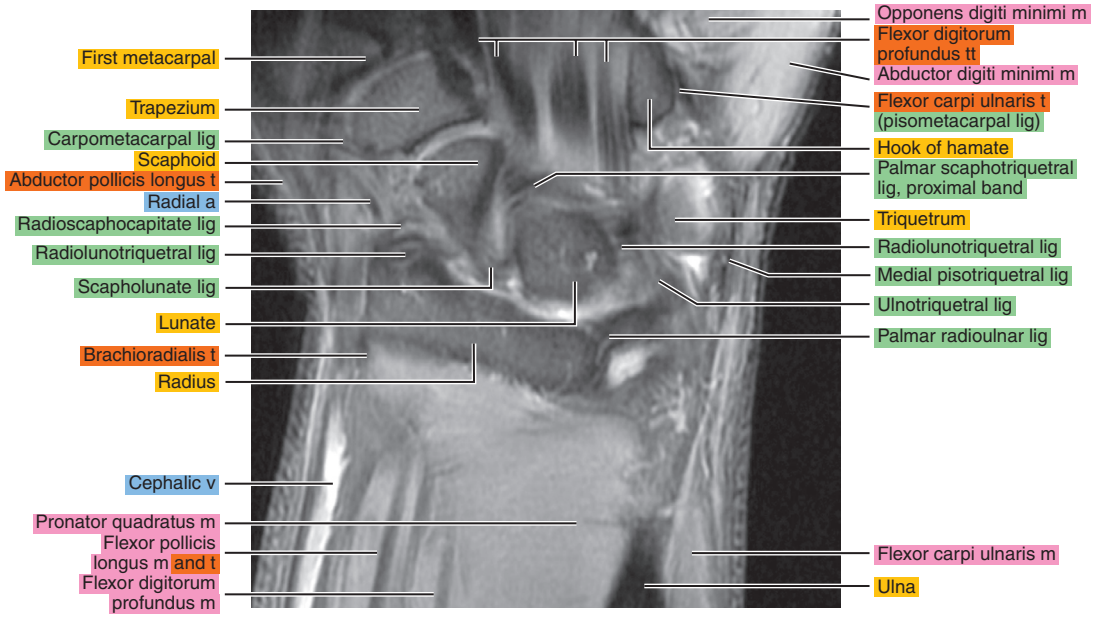

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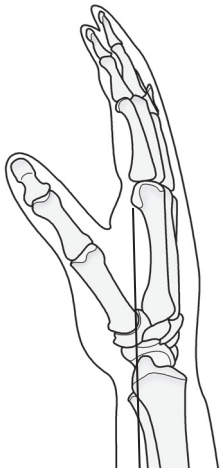

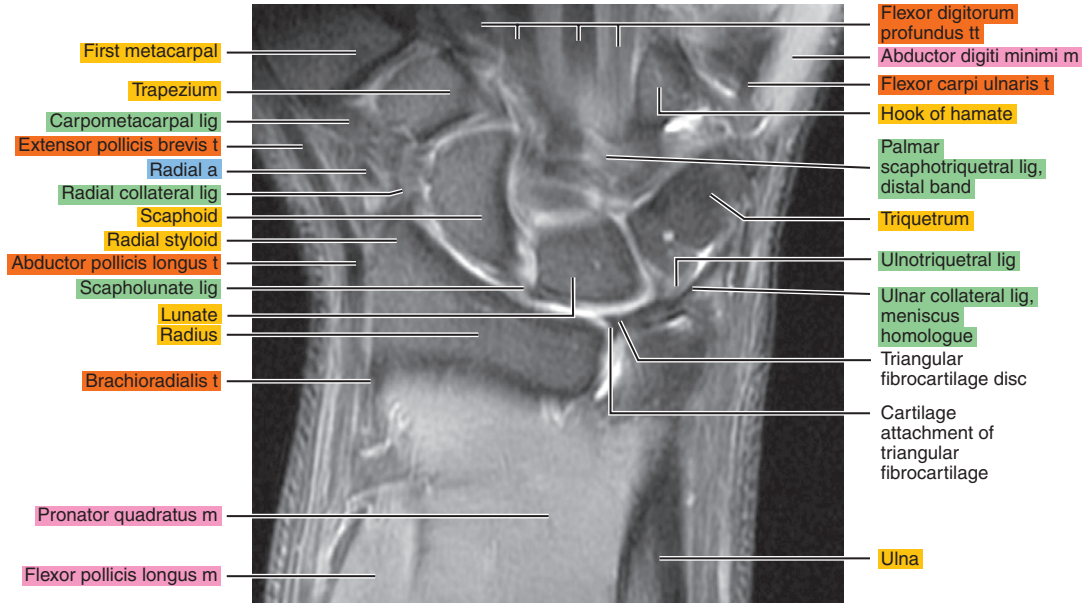

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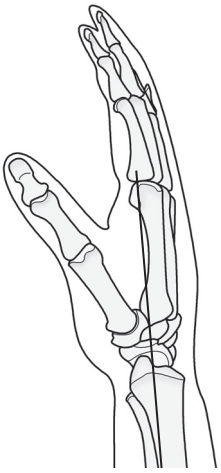

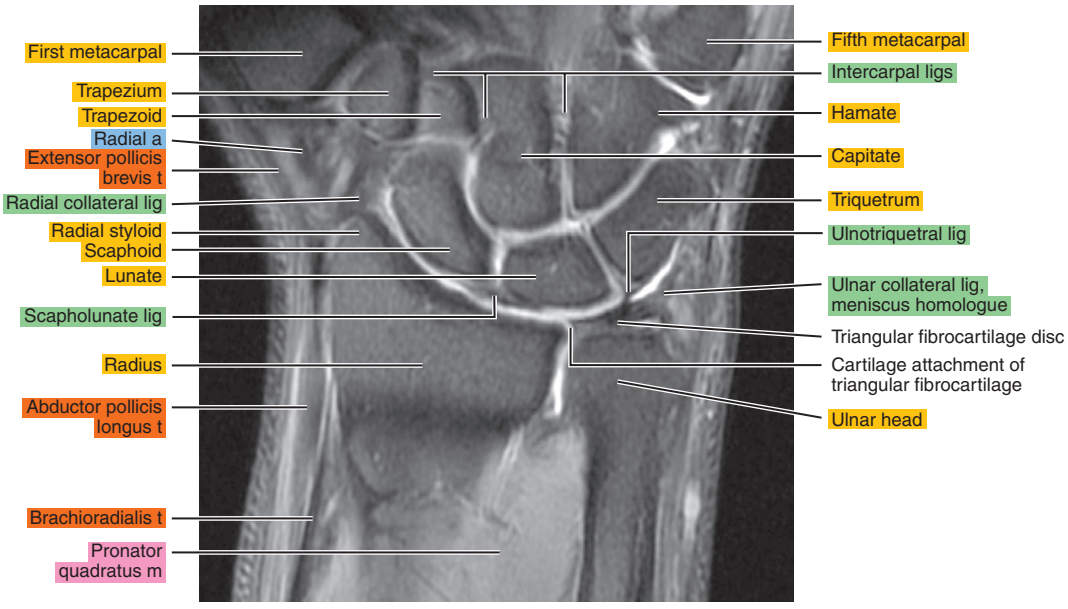

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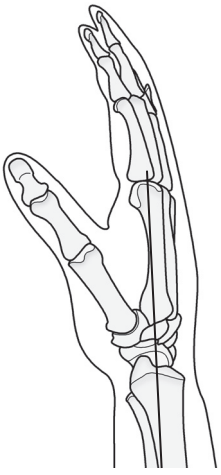

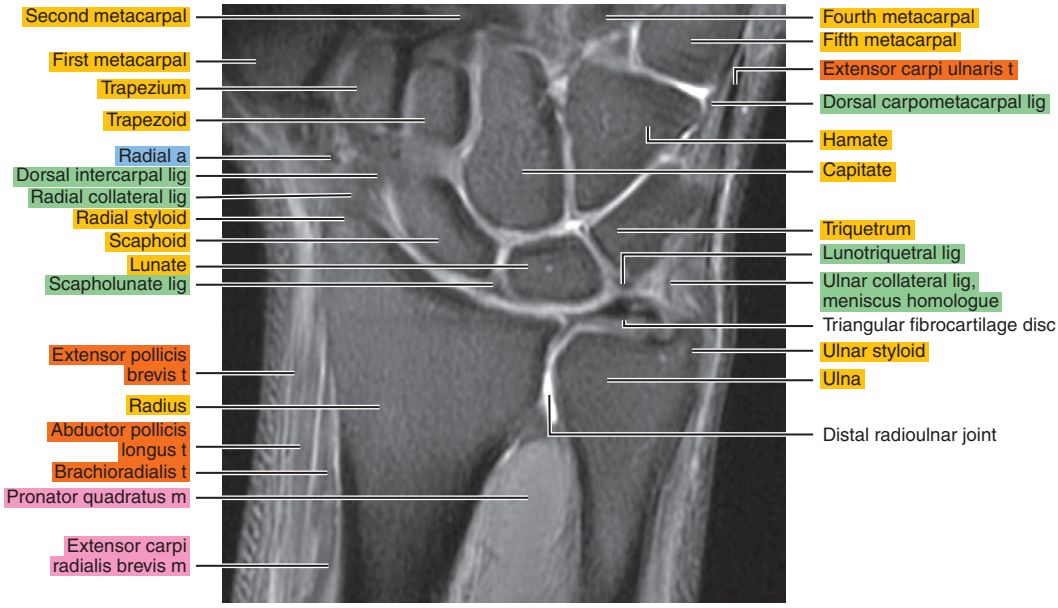

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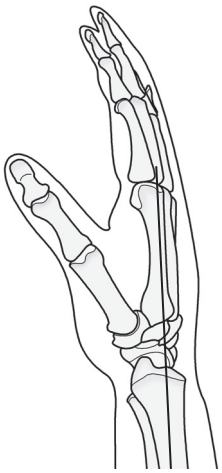

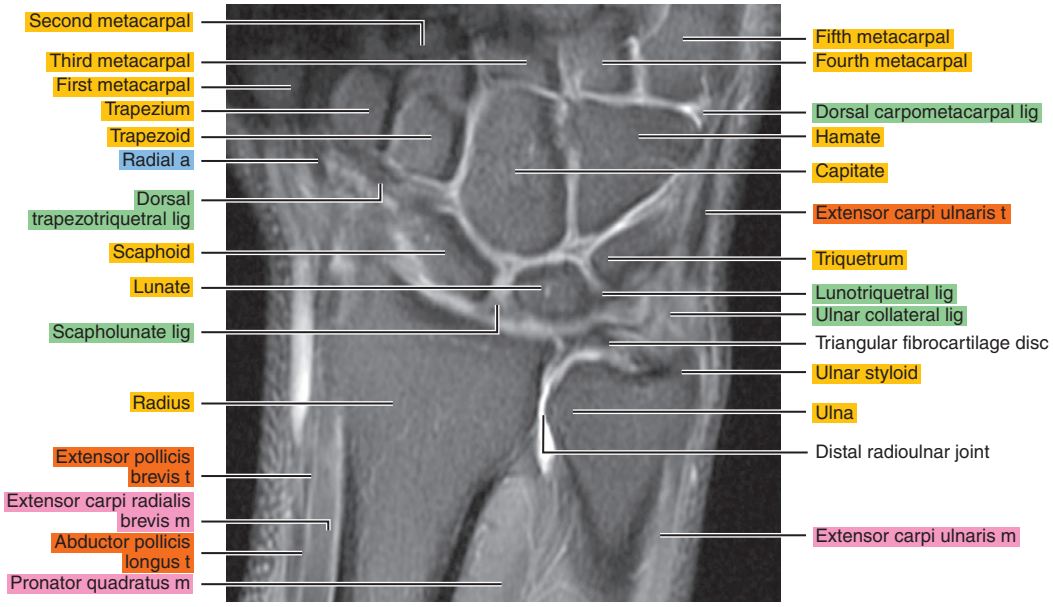

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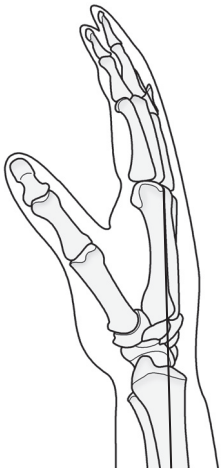

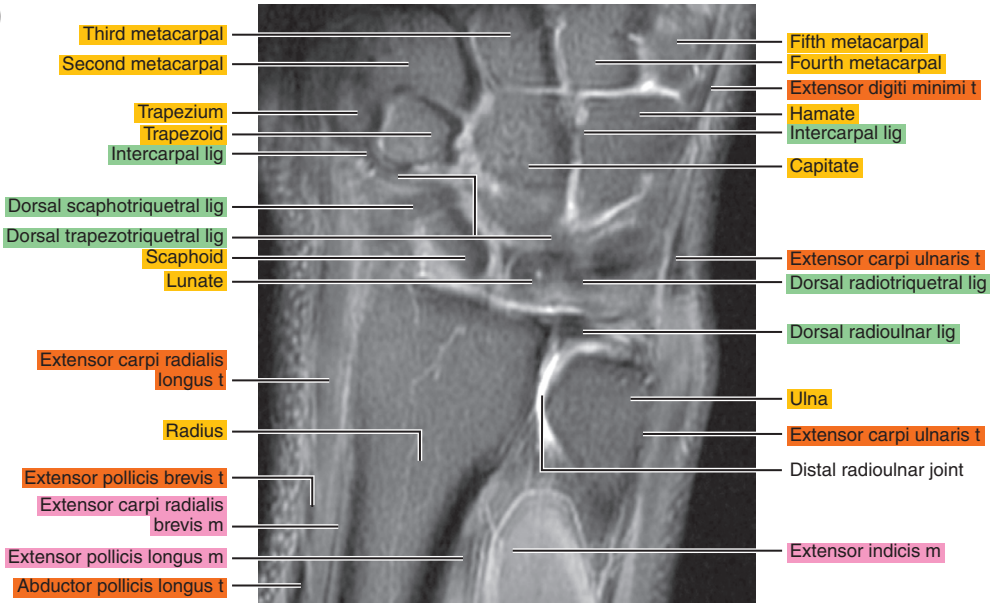

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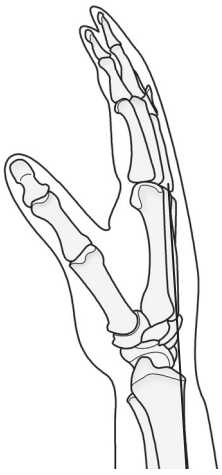

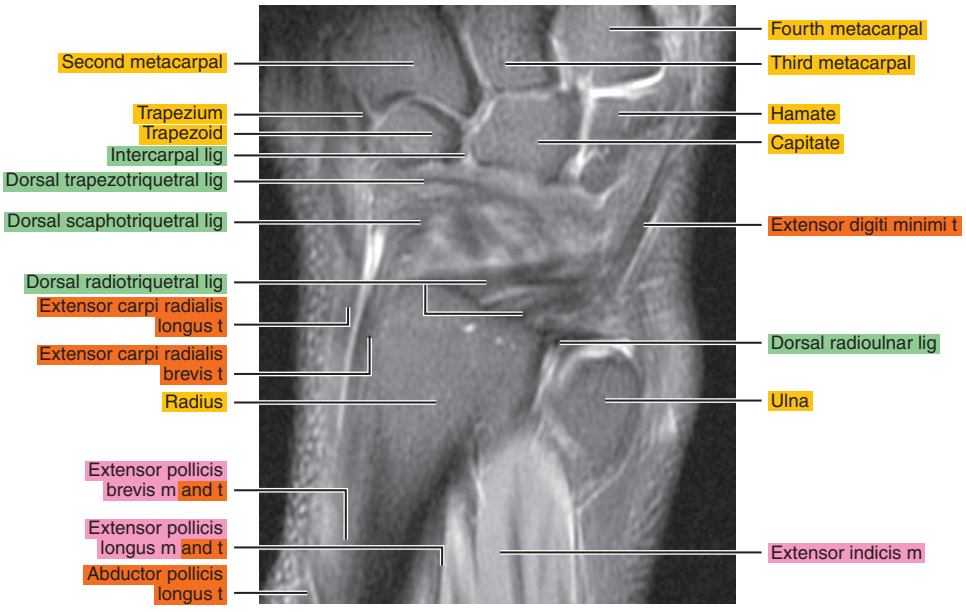

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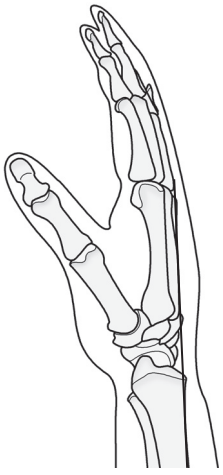

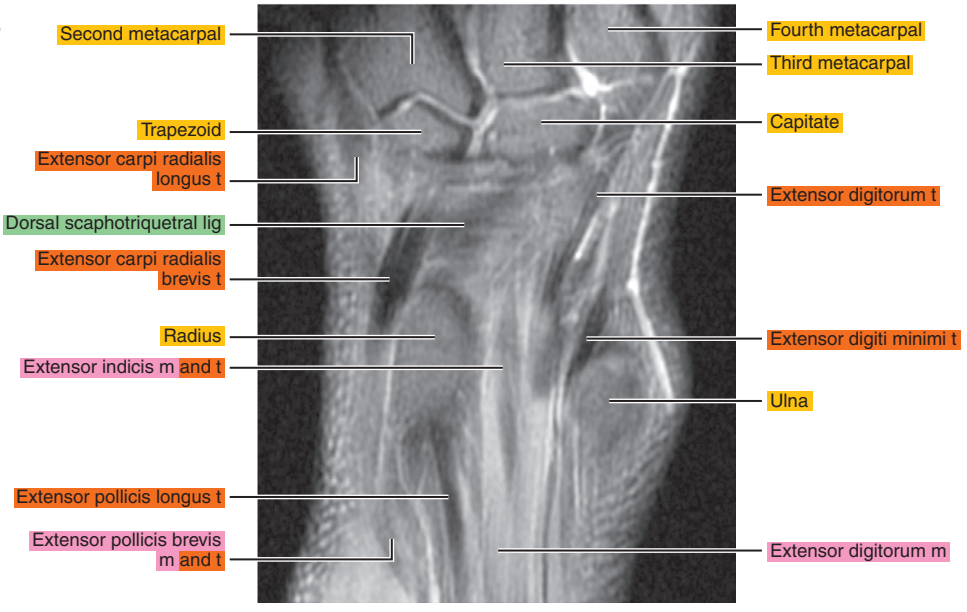

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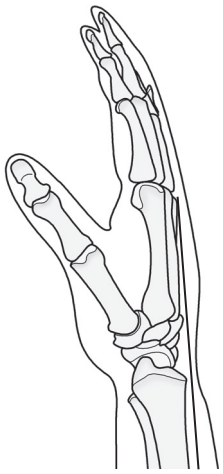

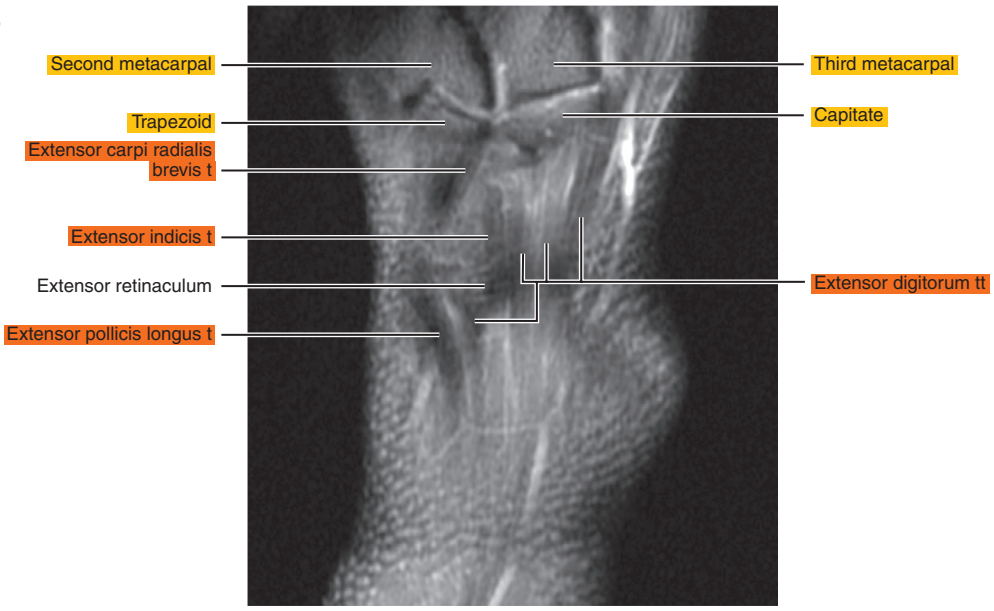

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Chapter 8

MRI of the Hand

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Table 8-1. Muscles of the Hand

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Palmaris brevis	Ulnar border of the palmar aponeurosis	Deep surface of the skin along the ulnar border of the palm	Superficial branch of ulnar (C8, T1)
Abductor pollicis brevis	Palmar surface of the flexor retinaculum, trapezium, and, occasionally, scaphoid	Radial side of the base of the proximal phalanx of the thumb	Recurrent branch of median (C8, T1)
Opponens pollicis	Palmar surface of the flexor retinaculum and tubercle of the trapezium	Lateral part of the palmar surface of the shaft of the first metacarpal	Recurrent branch of median (C8, T1)
Flexor pollicis brevis	Superficial head: trapezium, adjacent part of the flexor retinaculum, and tendon sheath of the flexor carpi radialis; deep head: trapezoid and capitate	Superficial head: lateral side of the palmar aspect of the base of the proximal phalanx; deep head: into a tendon of the superficial head	Recurrent branch of median and deep branch of ulnar (C8, T1)
Adductor pollicis brevis	Carpal head: flexor retinaculum, capitate, bases of the second and third metacarpals; metacarpal head: palmar ridges of the third metacarpal and capsules of the second, third, and fourth metacarpophalangeal articulations	Ulnar side of the palmar aspect of the base of the proximal phalanx of the thumb	Recurrent branch of median (C8, T1)
Abductor digiti minimi	Distal half of the pisiform, pisihamate ligament, tendon of the flexor carpi ulnaris, and, frequently, the flexor retinaculum	Two tendons: (1) the ulnar side of the base of the proximal phalanx of the little finger, and (2) the aponeurosis of the extensor tendon of the little finger	Deep palmar division of ulnar (C8, T1)
Flexor digiti minimi brevis	Hook of the hamate and adjacent parts of the flexor retinaculum	Ulnar side of the base of the proximal phalanx of the little finger	Superficial or deep palmar branch of ulnar (C8, T1)
Opponens digiti minimi	Distal border of the hook of the hamate and adjacent flexor retinaculum	Medial surface of the body and particularly onto the head of the fifth metacarpal	Deep palmar branch of ulnar (C8, T1)
Lumbrical	Two lateral lumbricals: radial and palmar sides of the first and second tendons of the flexor digitorum profundus; two medial lumbricals: adjacent side of the second and third tendons, and the third and fourth tendons of the flexor digitorum profundus	Into the radial border of the tendon of the extensor digitorum on the dorsal aspect of the proximal phalanx	Median, lateral two or three lumbricals; ulnar, deep palmar branch, medial one or two lumbricals (C8, T1)
Interosseous	Palmar interosseous: anterior border of the shaft of the first, second, fourth, and fifth metacarpals. The first arises near the base and the others arise from three fourths of the shaft of the bone. Dorsal interosseous: adjacent sides of the metacarpal bones in each metacarpal interspace	Into the expansion on the axial side of the corresponding digit. The first palmar interosseous is described frequently as a division of the flexor brevis or adductor pollicis. The first dorsal interosseous usually inserts onto the proximal phalanx. The other three insert into the extensor expansion and proximal phalanx	Deep palmar branch of ulnar (C8, T1)

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AXIAL

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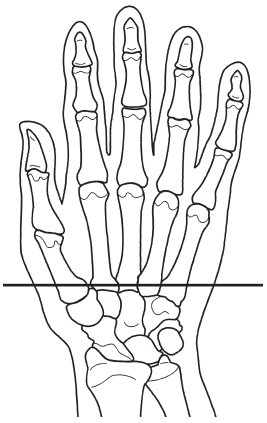

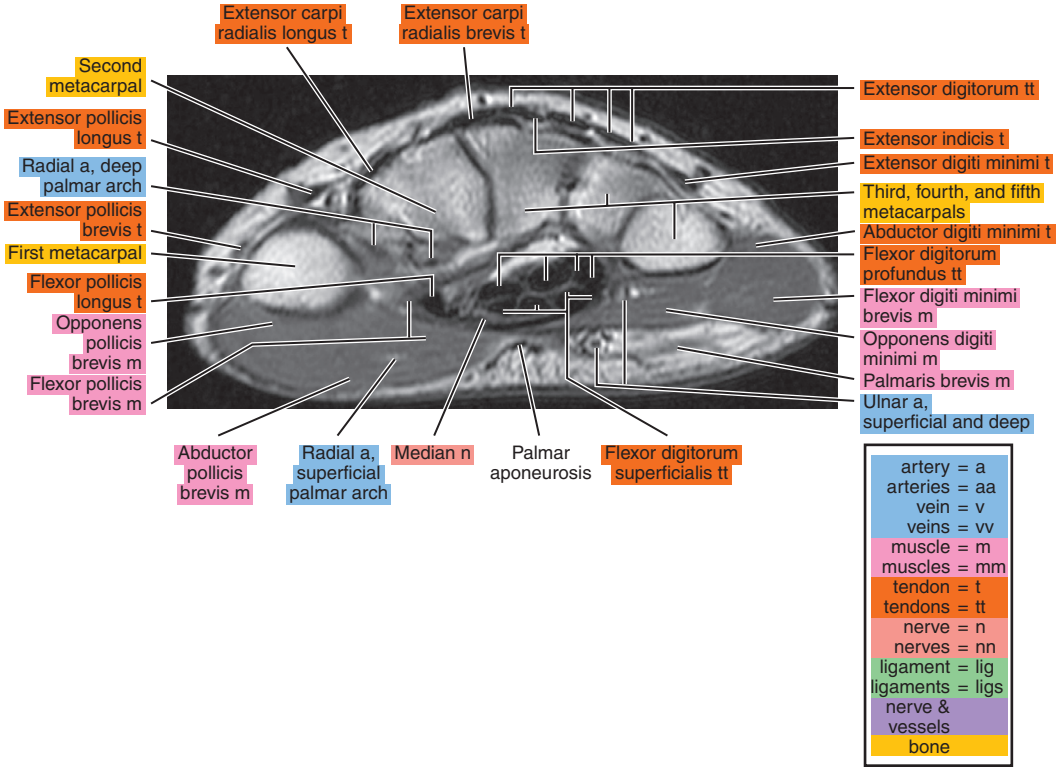

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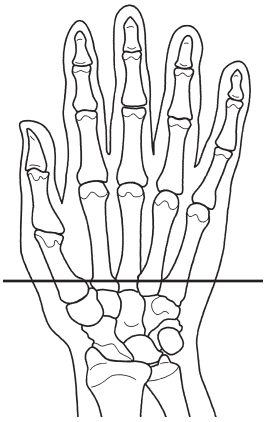

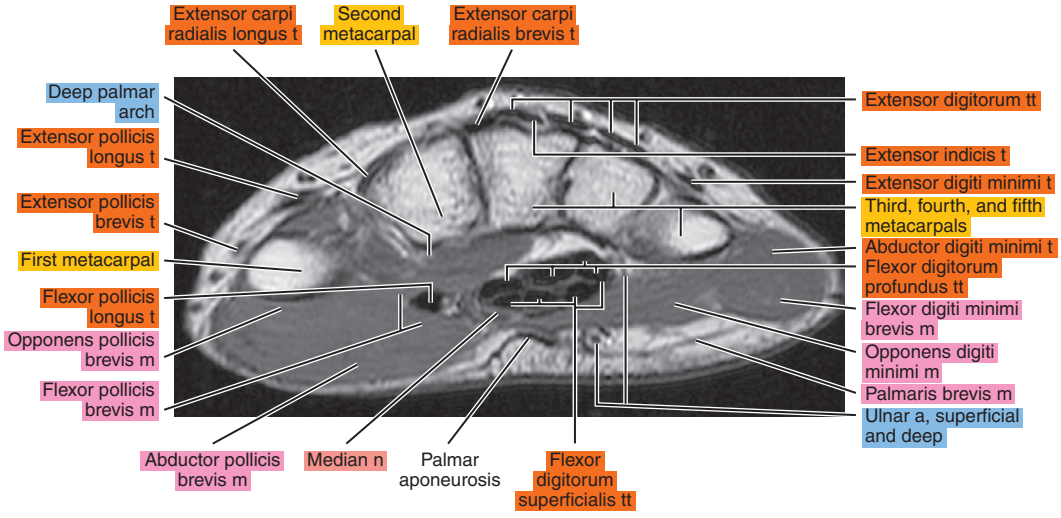

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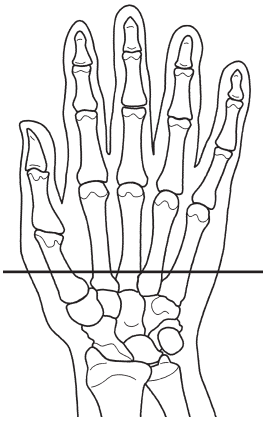
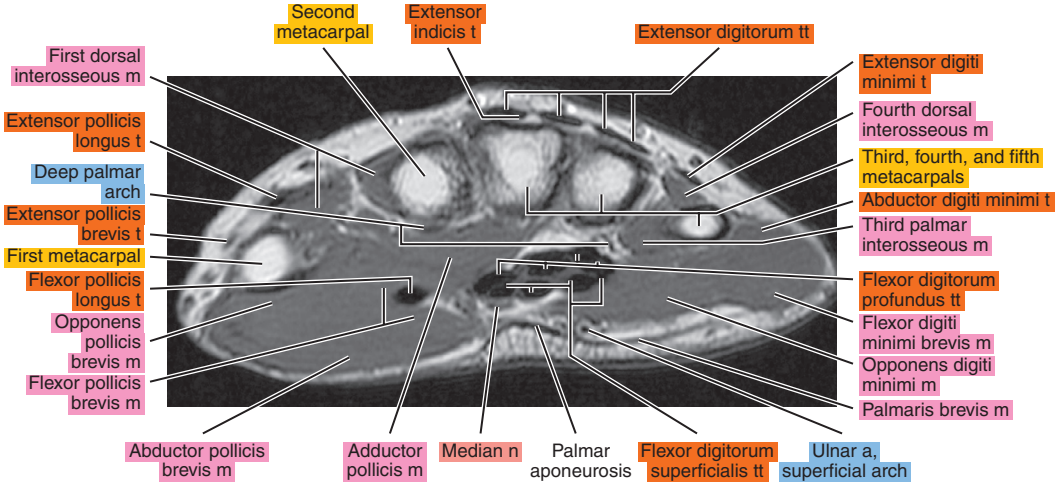
Figure 8.1.3





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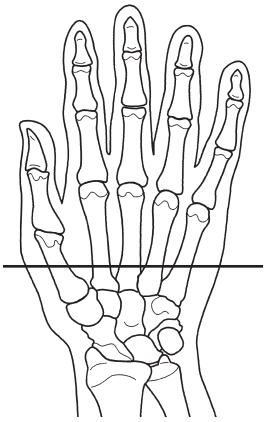

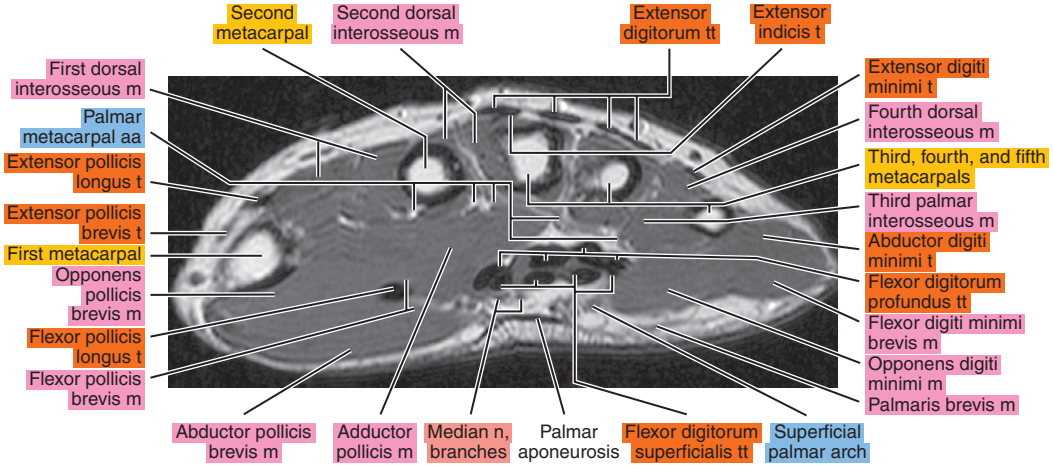

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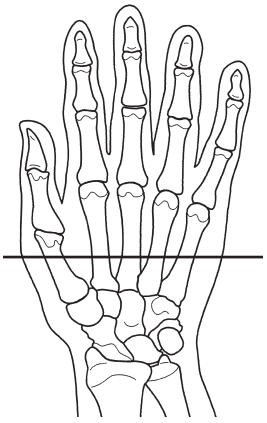

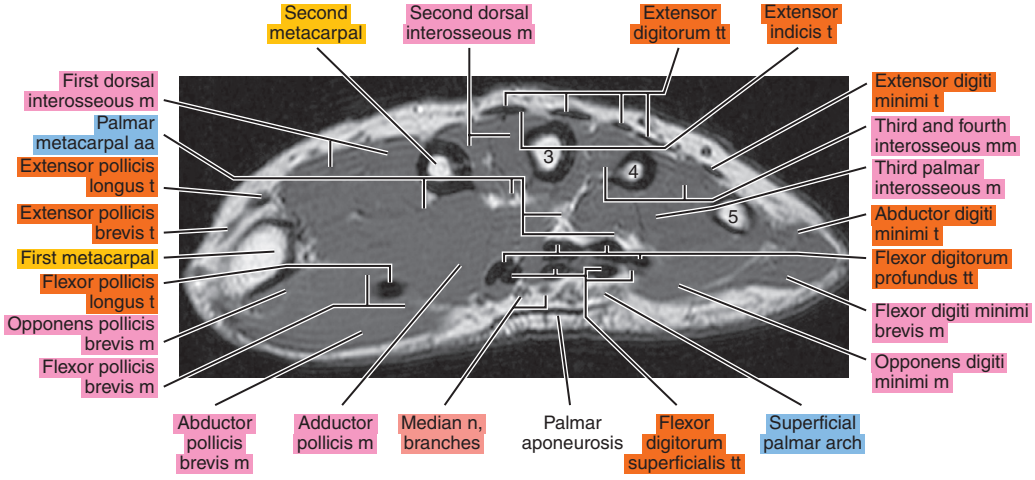

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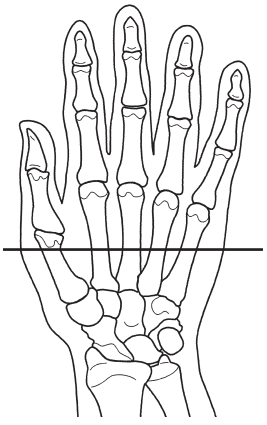

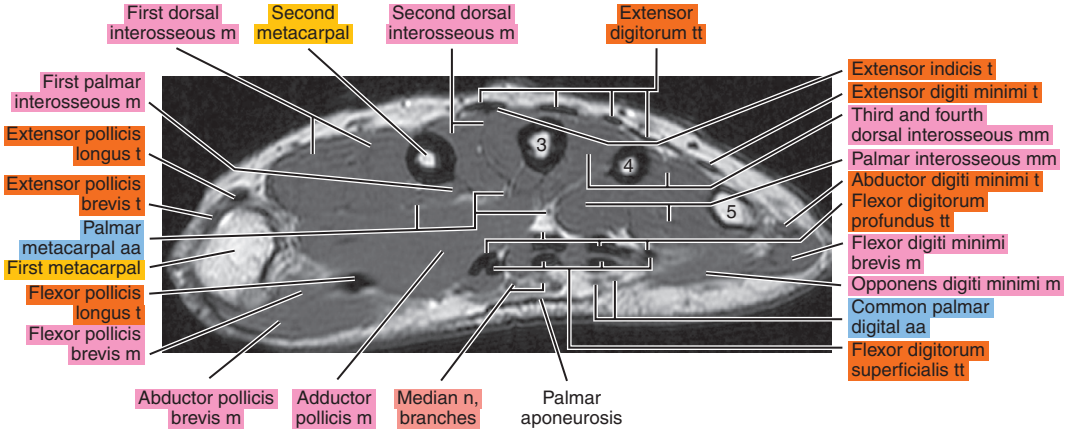

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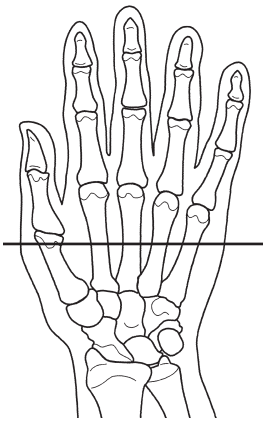

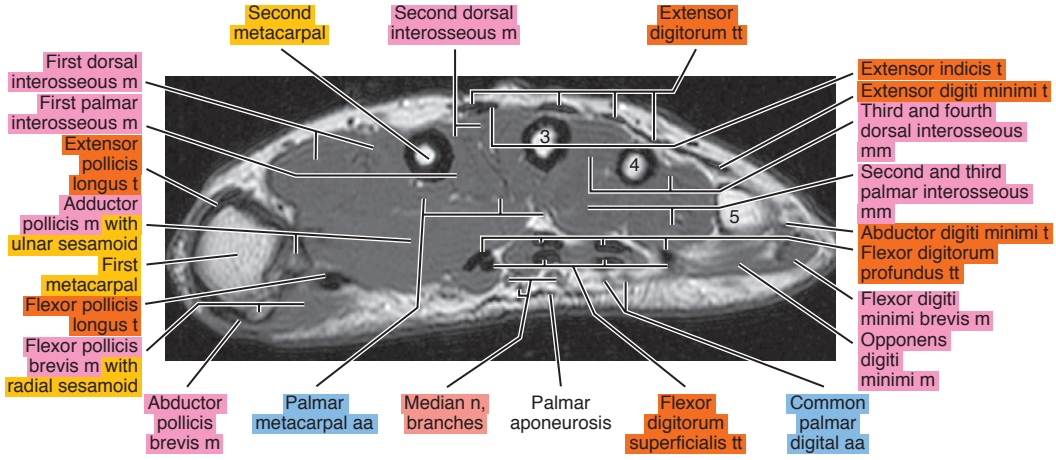

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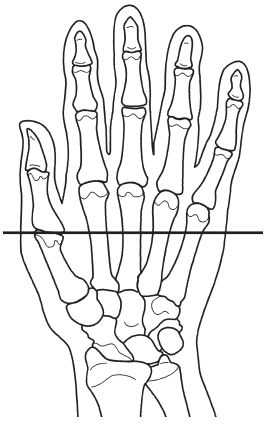

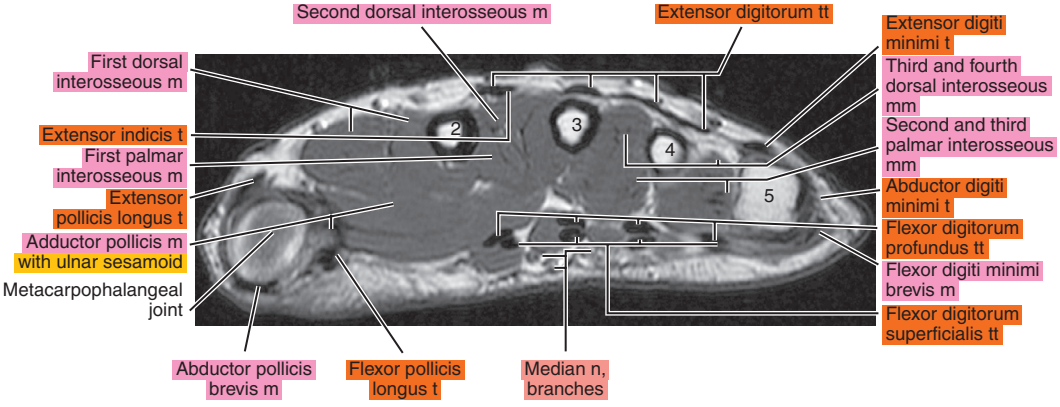

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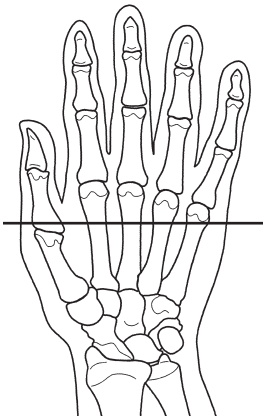

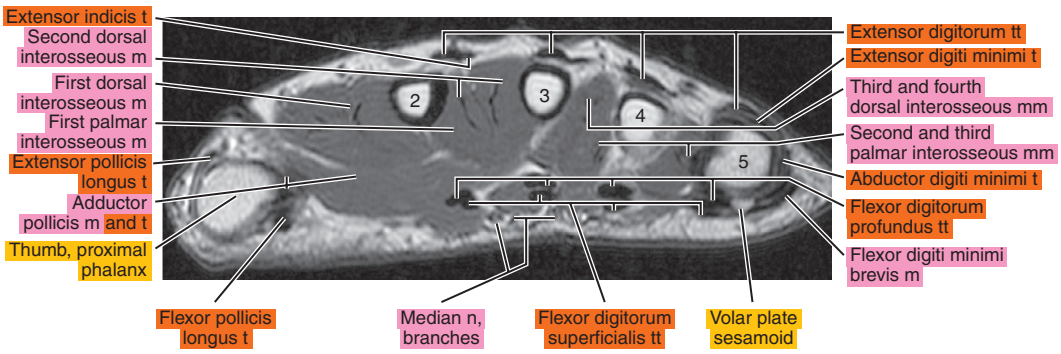

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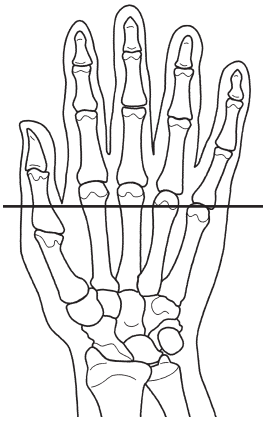

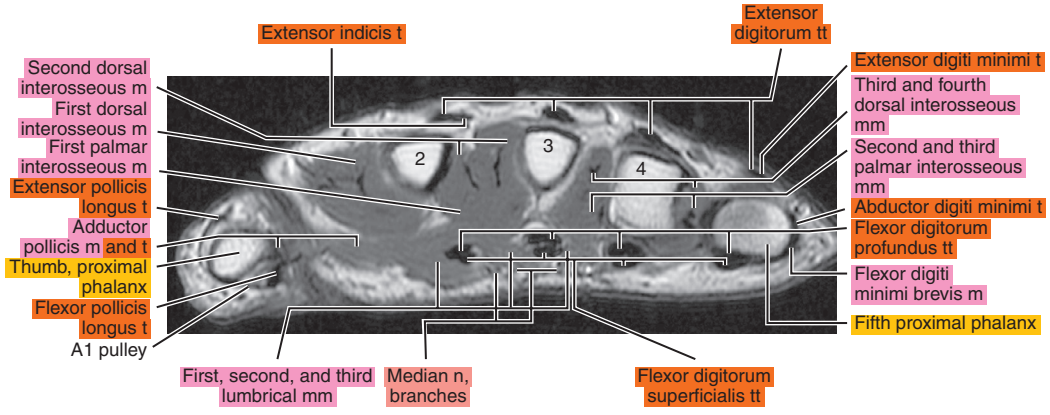

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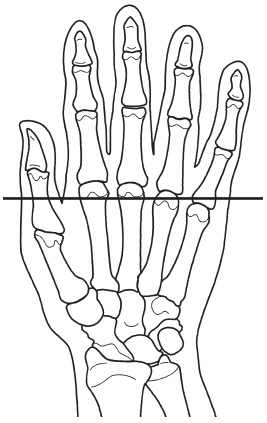

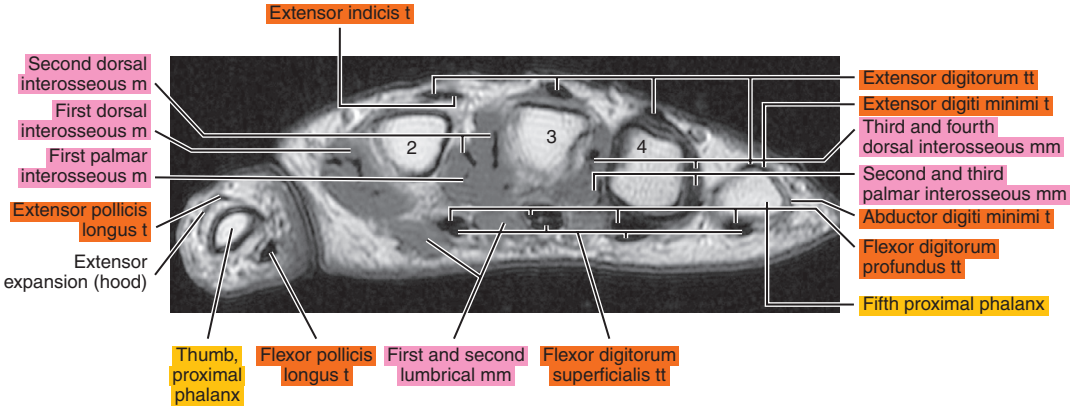

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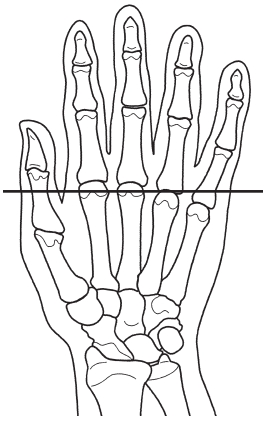

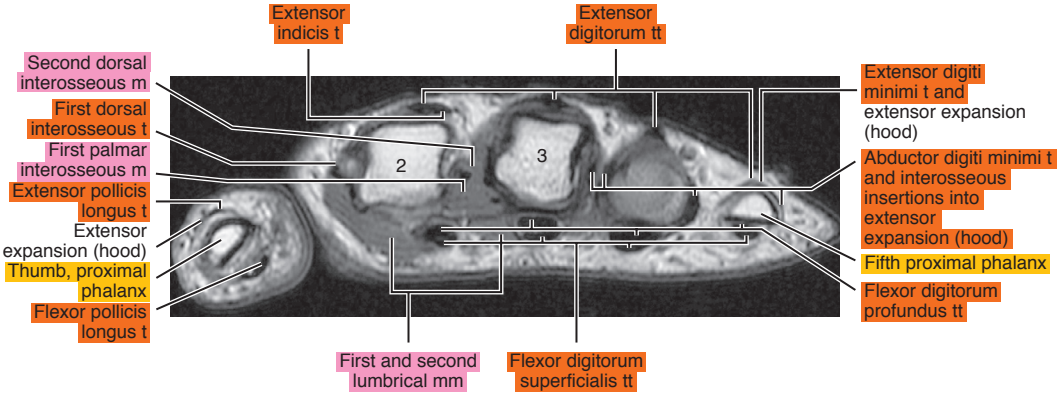

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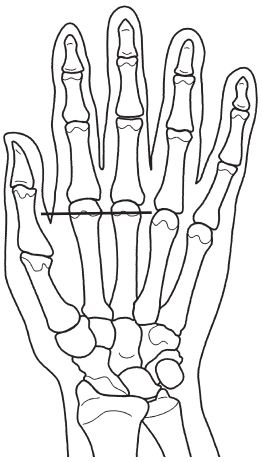

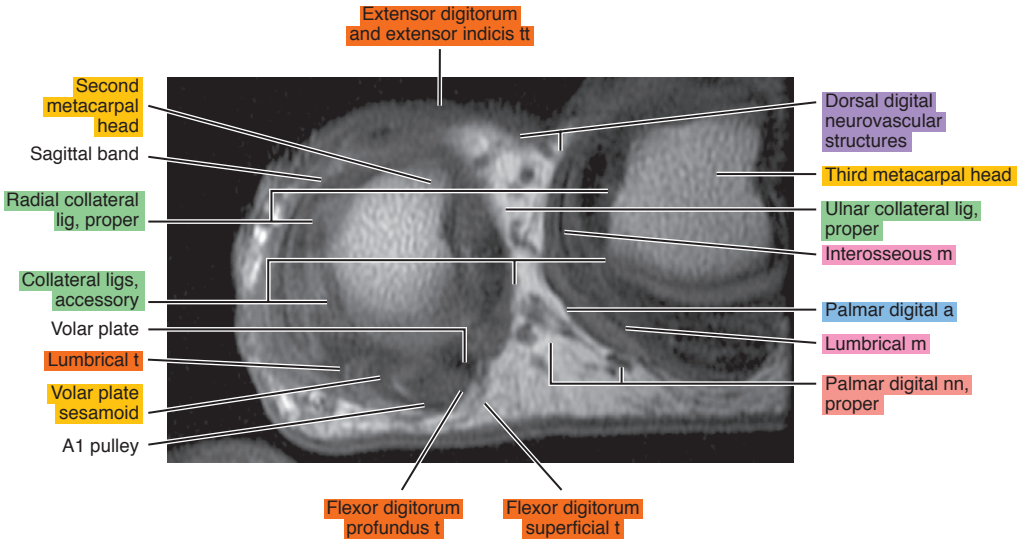

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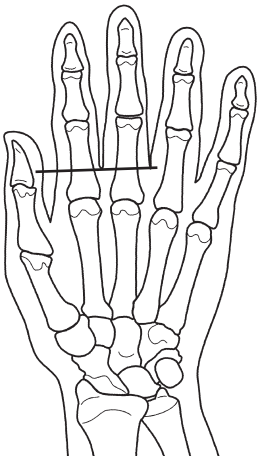

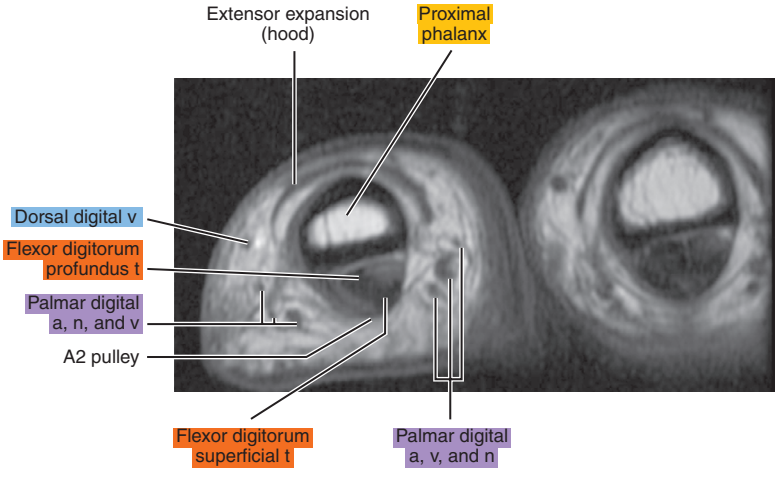

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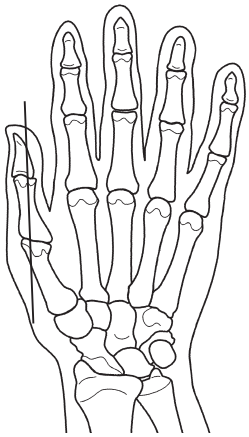

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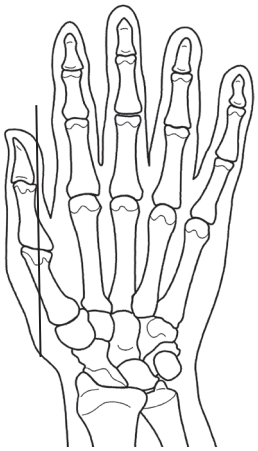

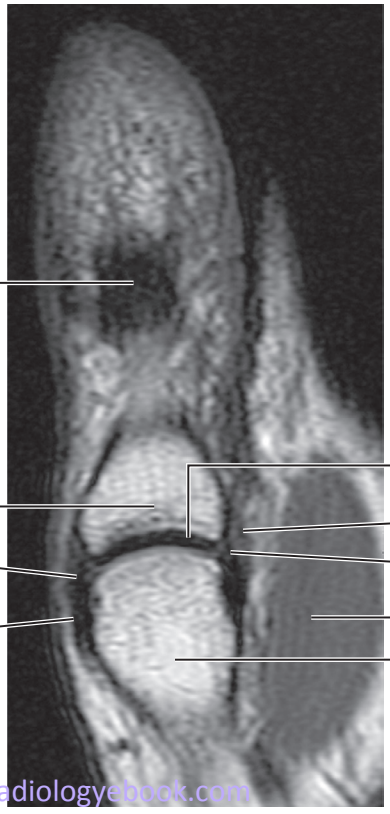

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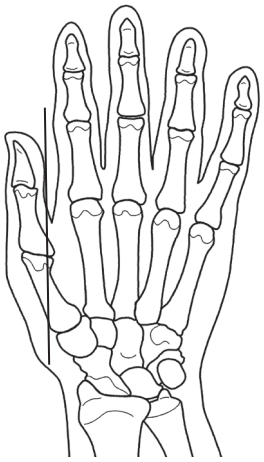

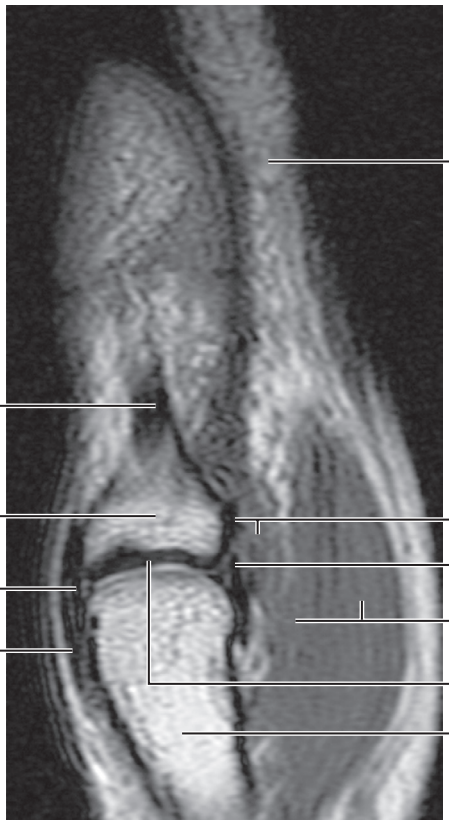

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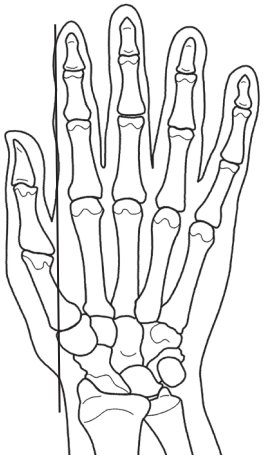

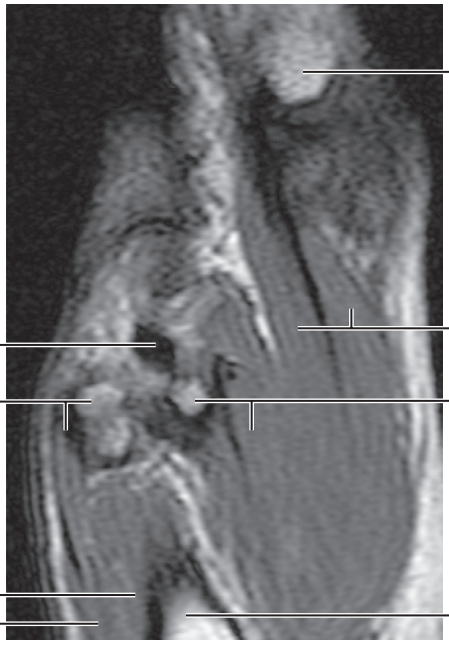

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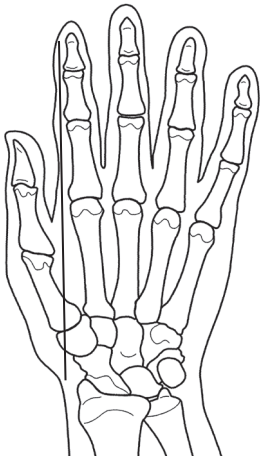

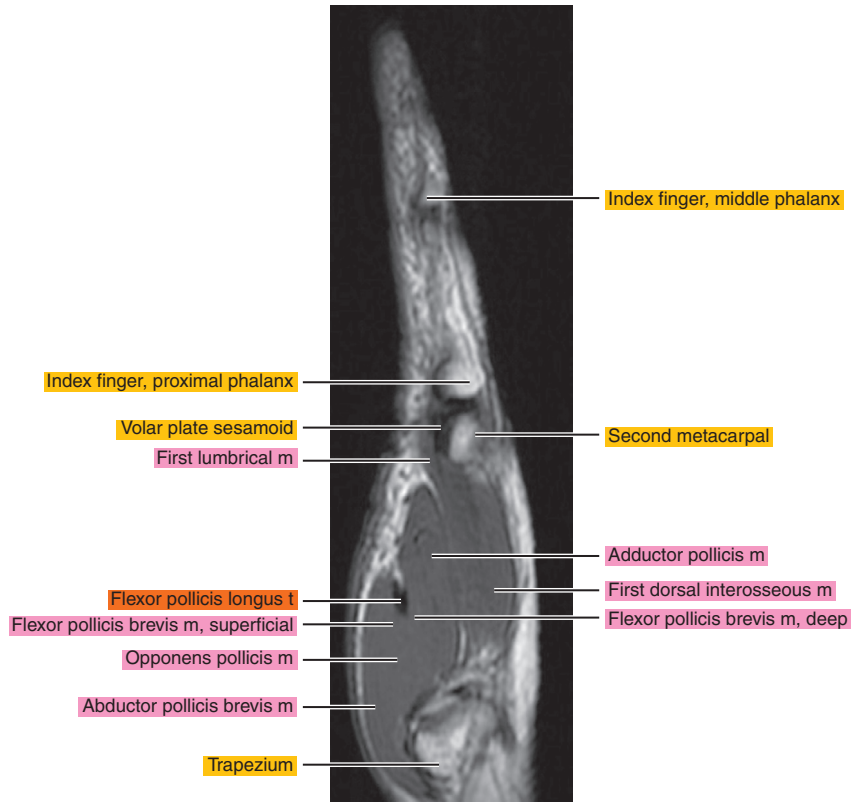

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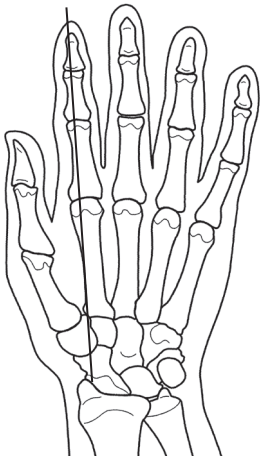

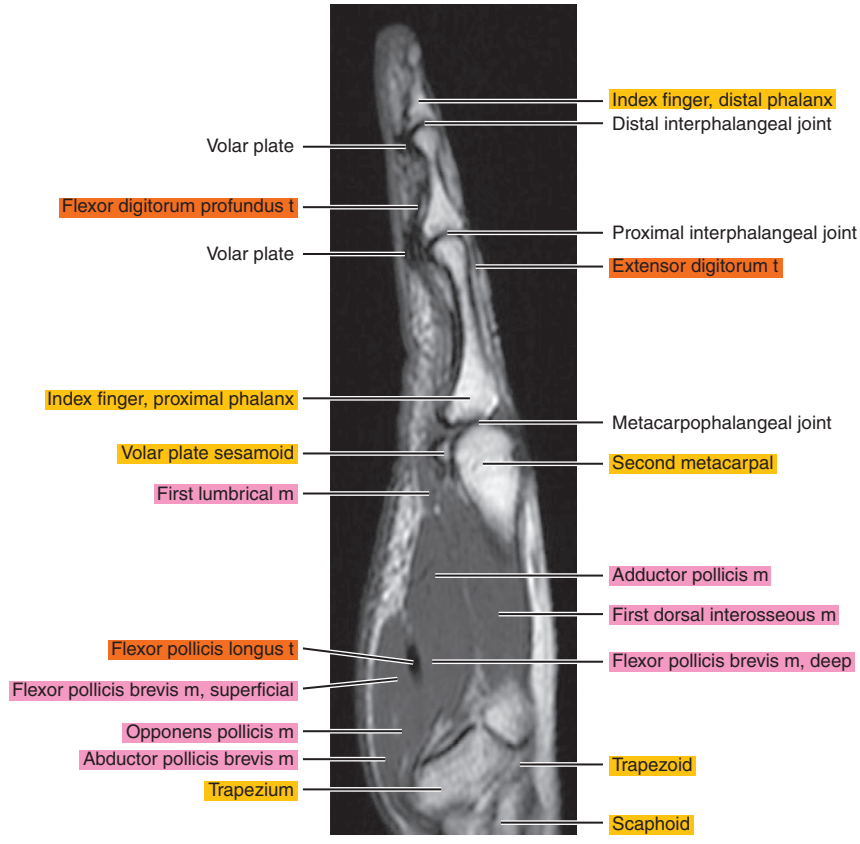

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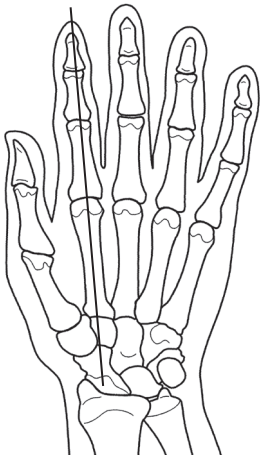

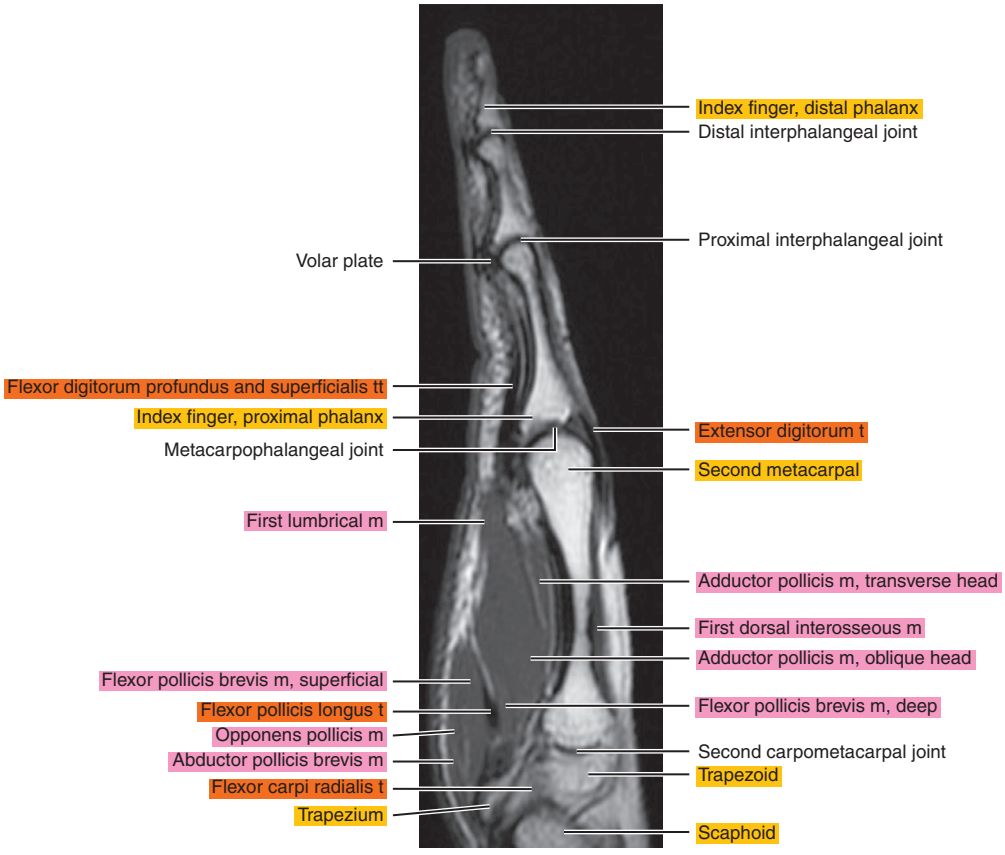

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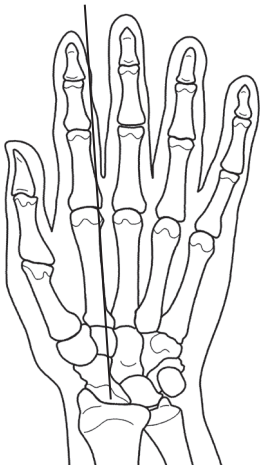

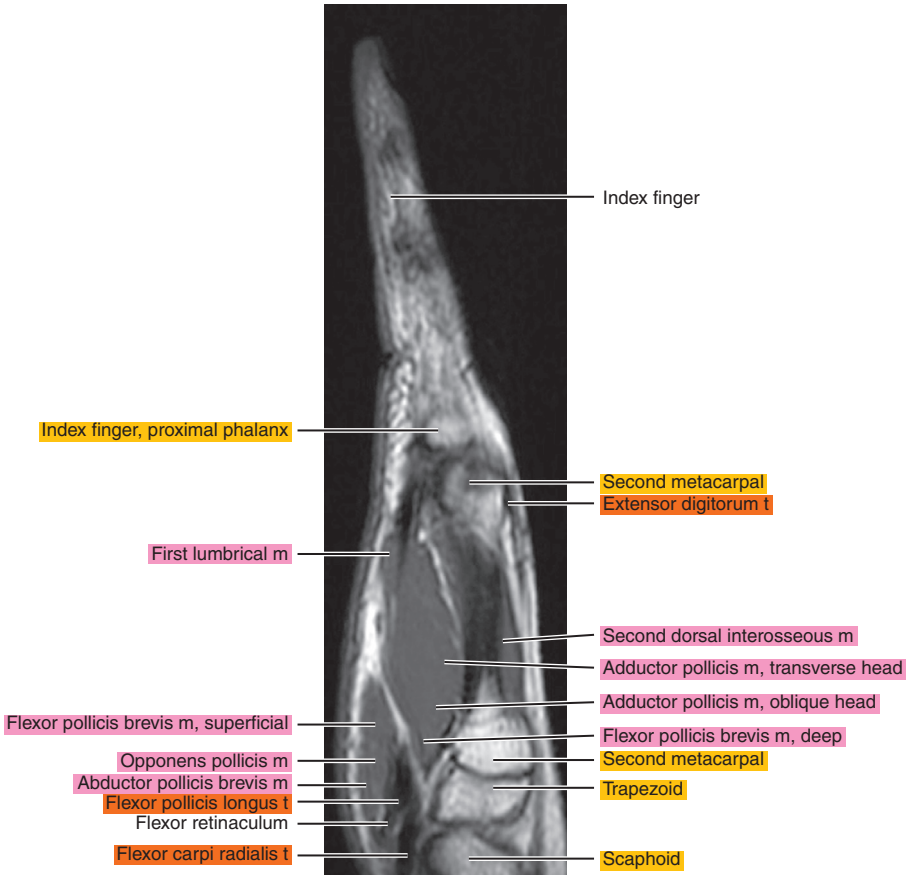

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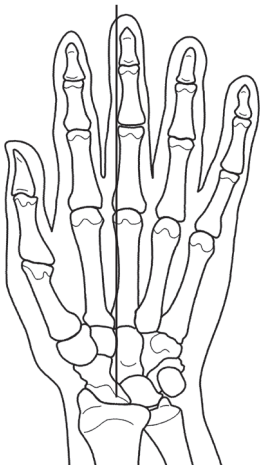

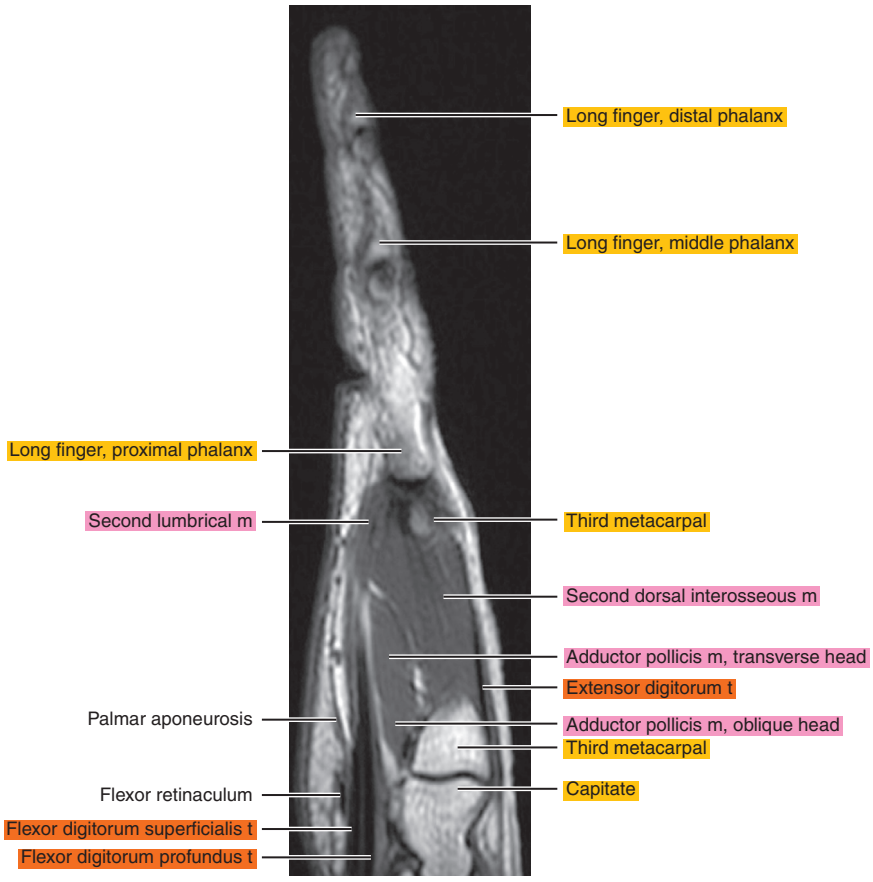

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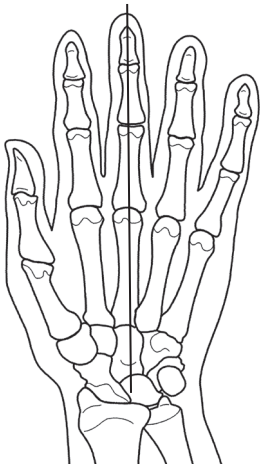

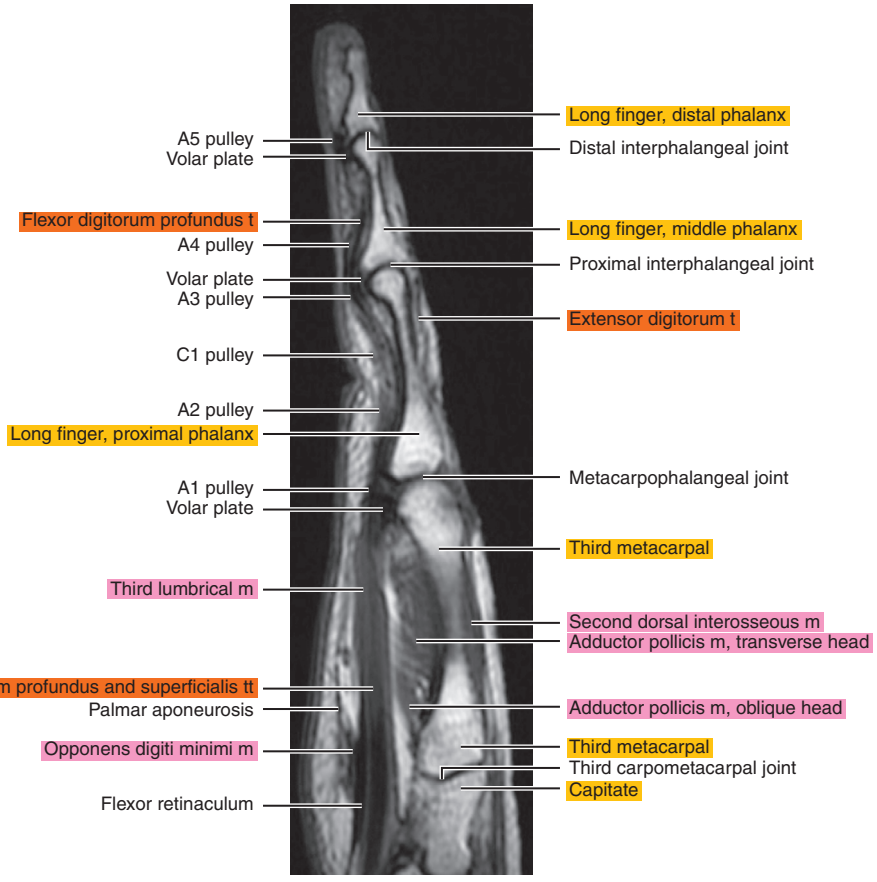

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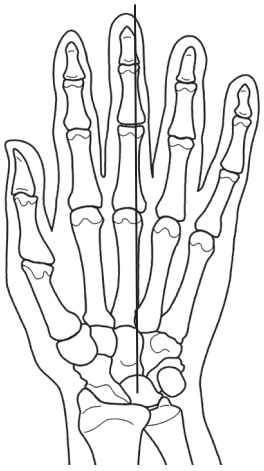

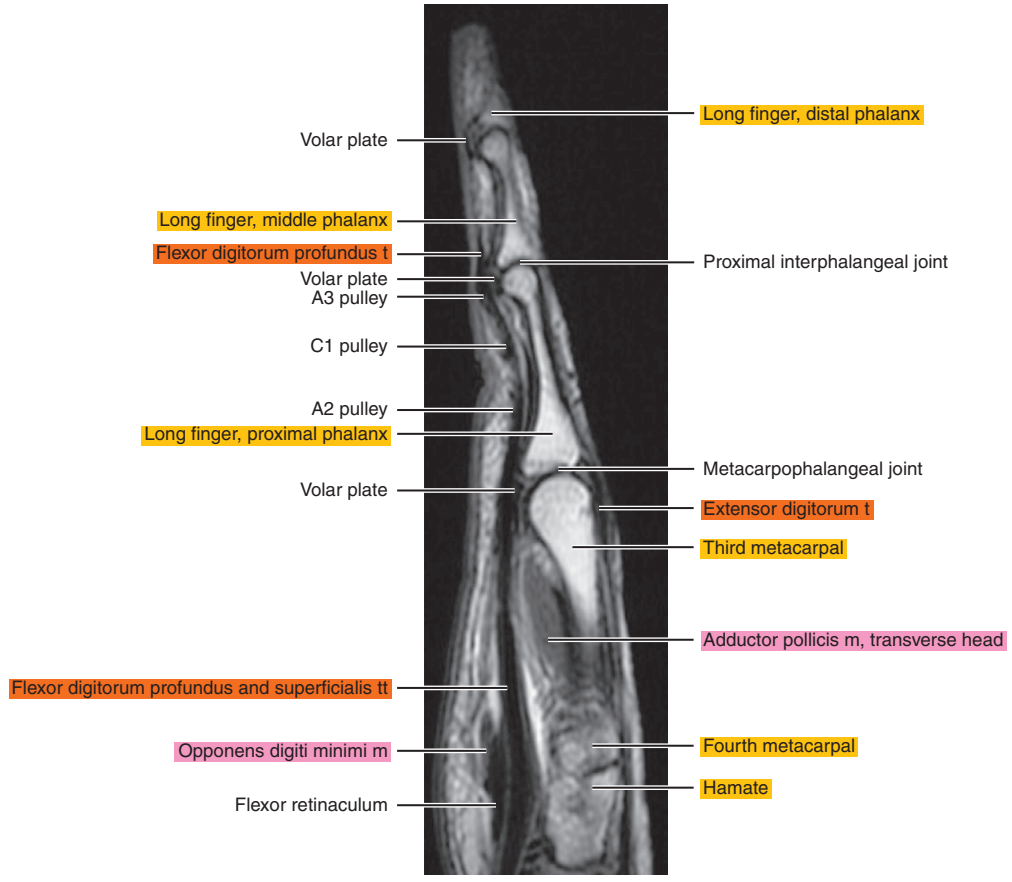

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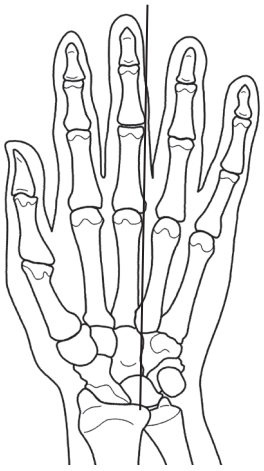

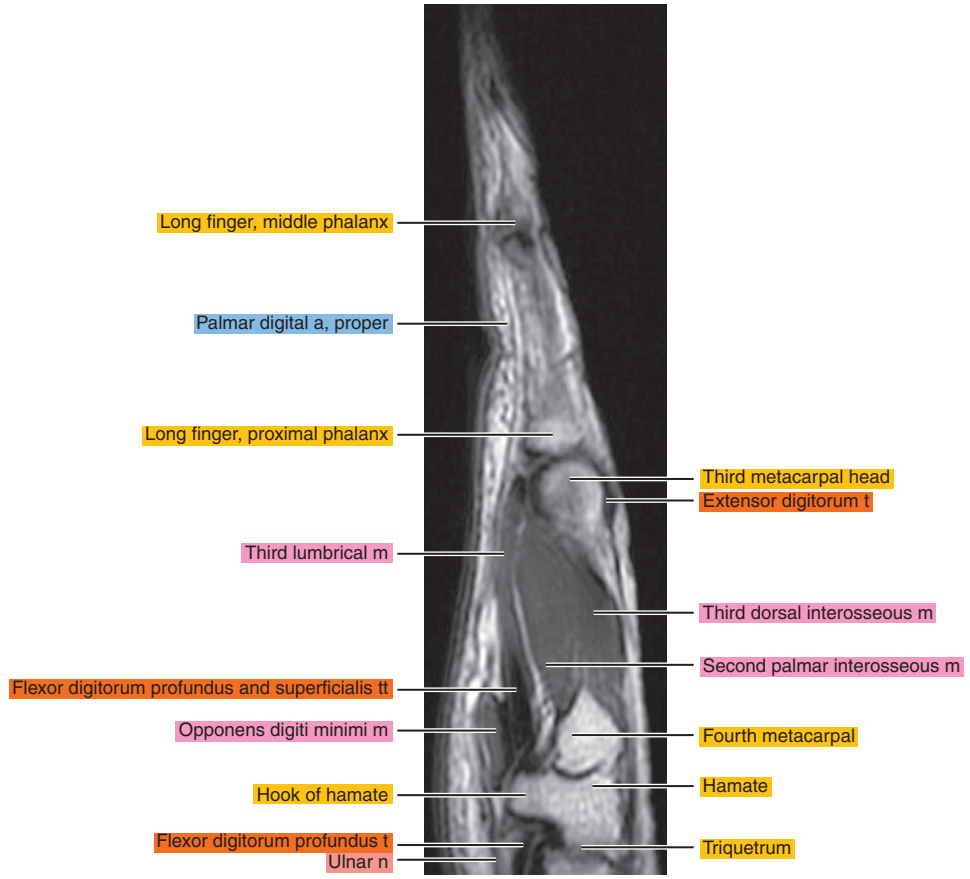

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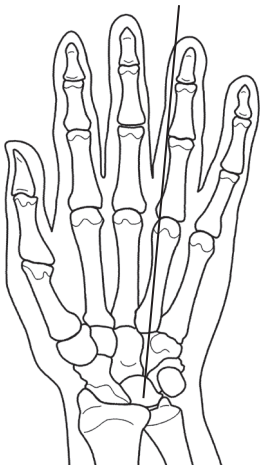

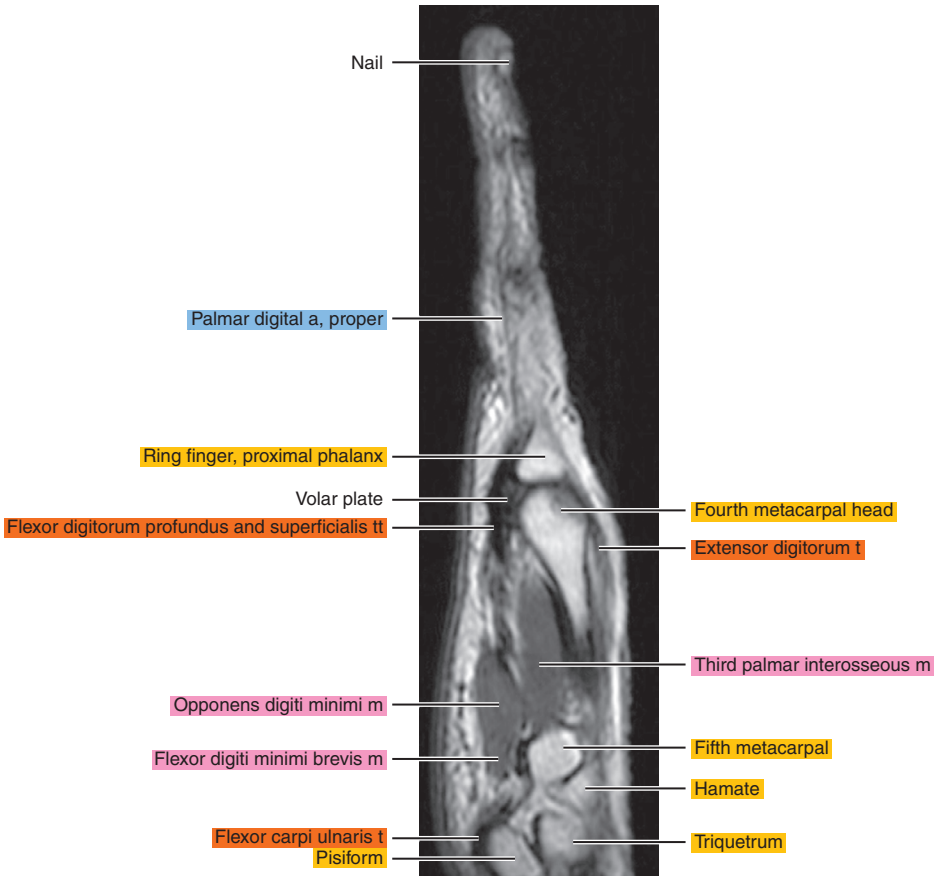

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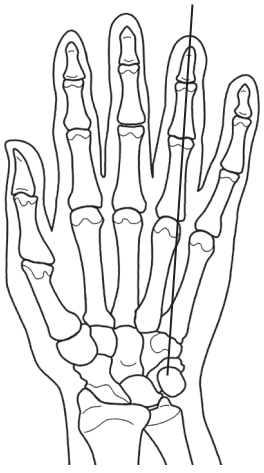

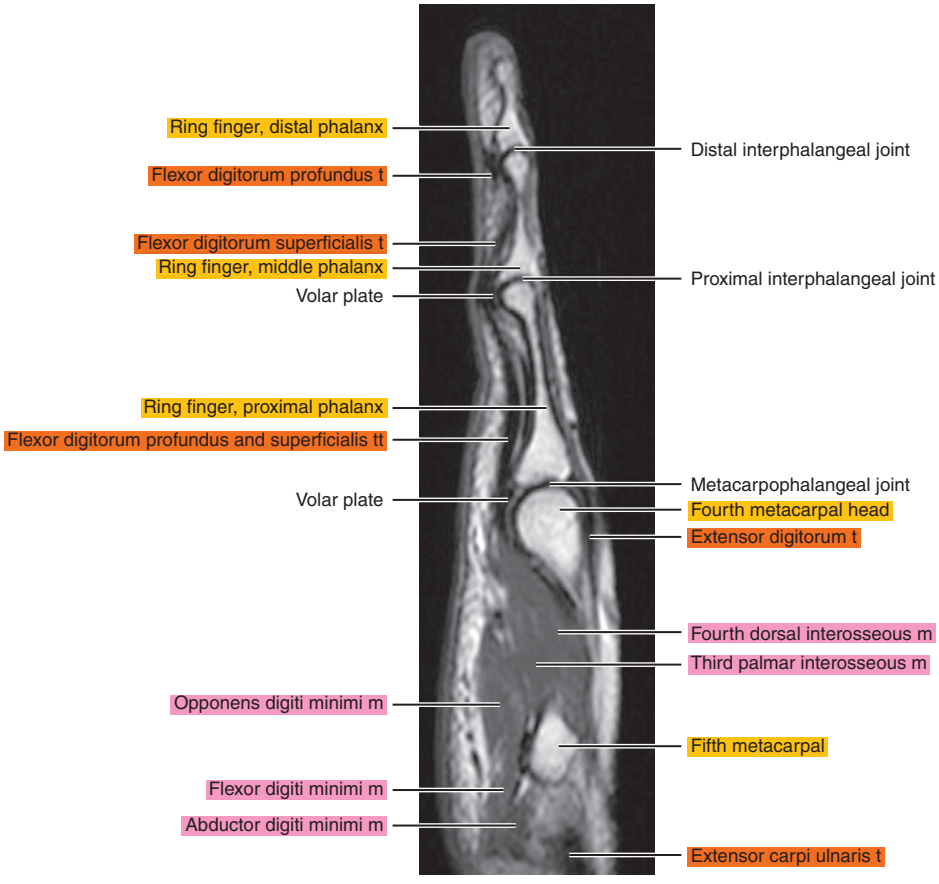

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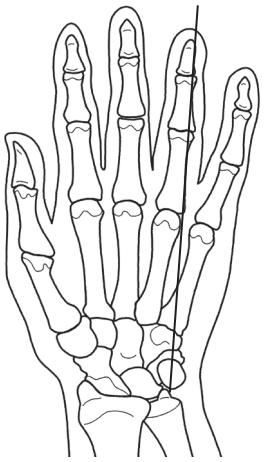

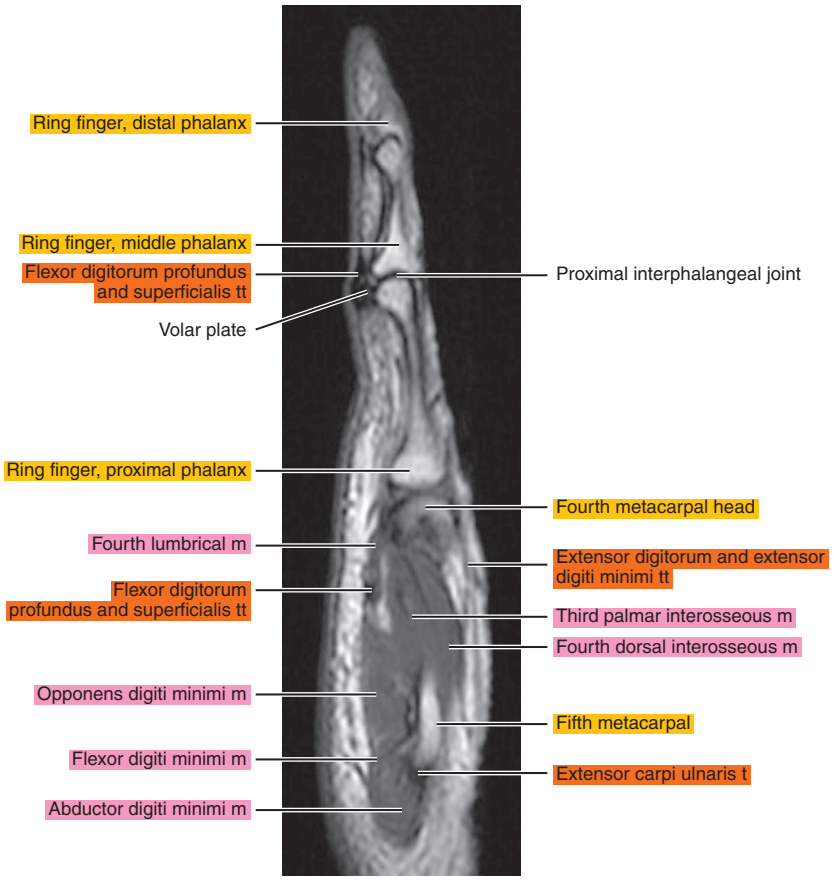

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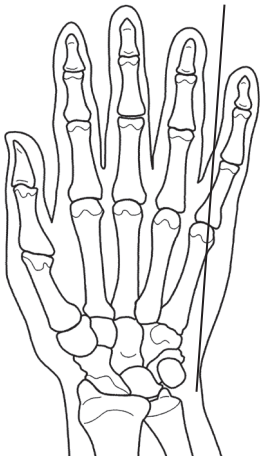

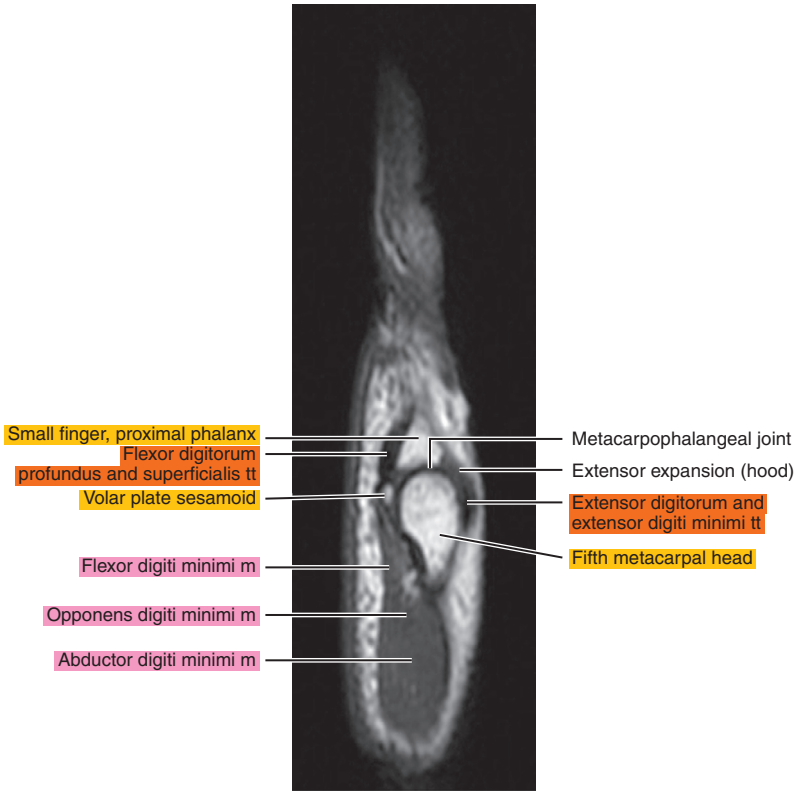

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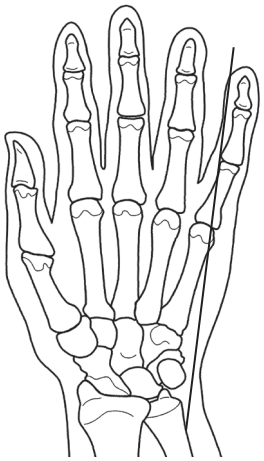

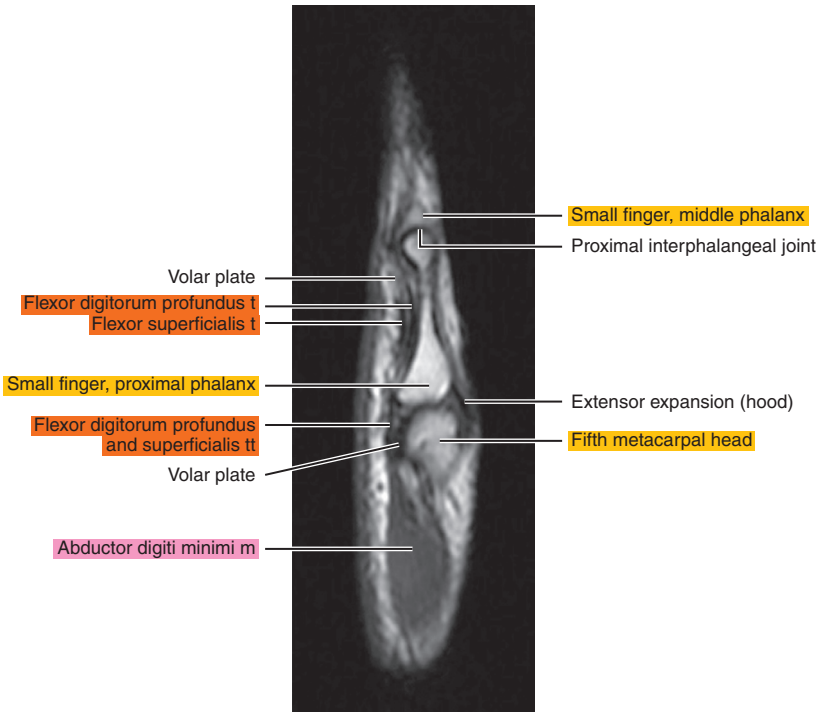

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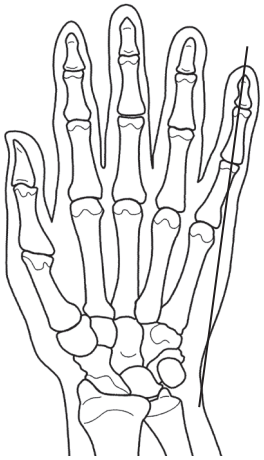

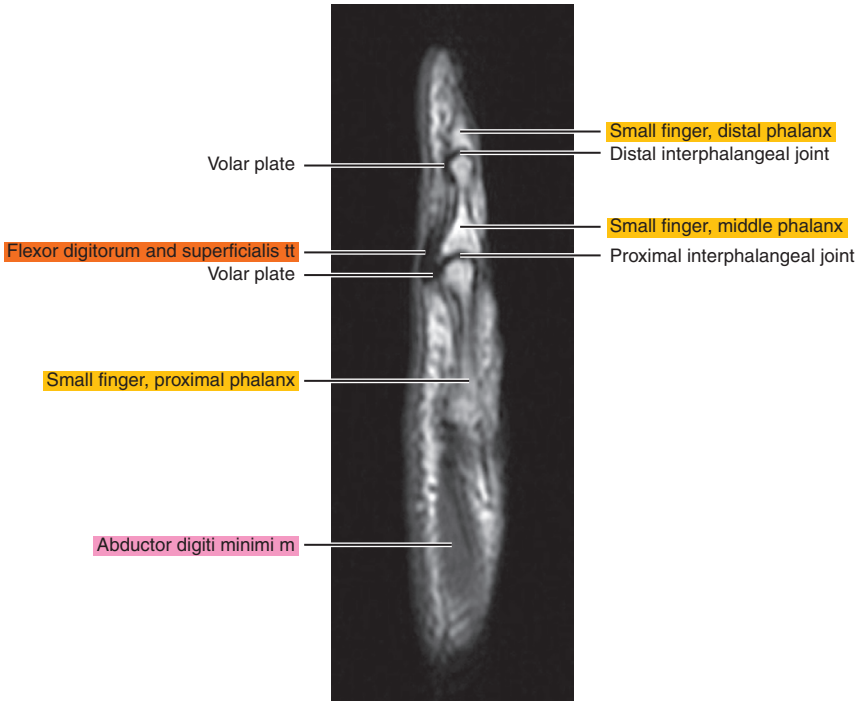

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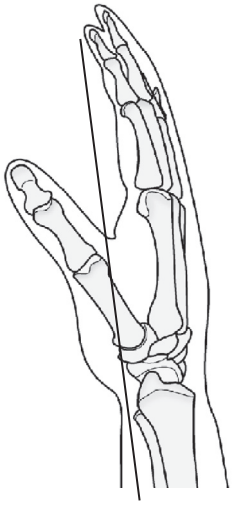

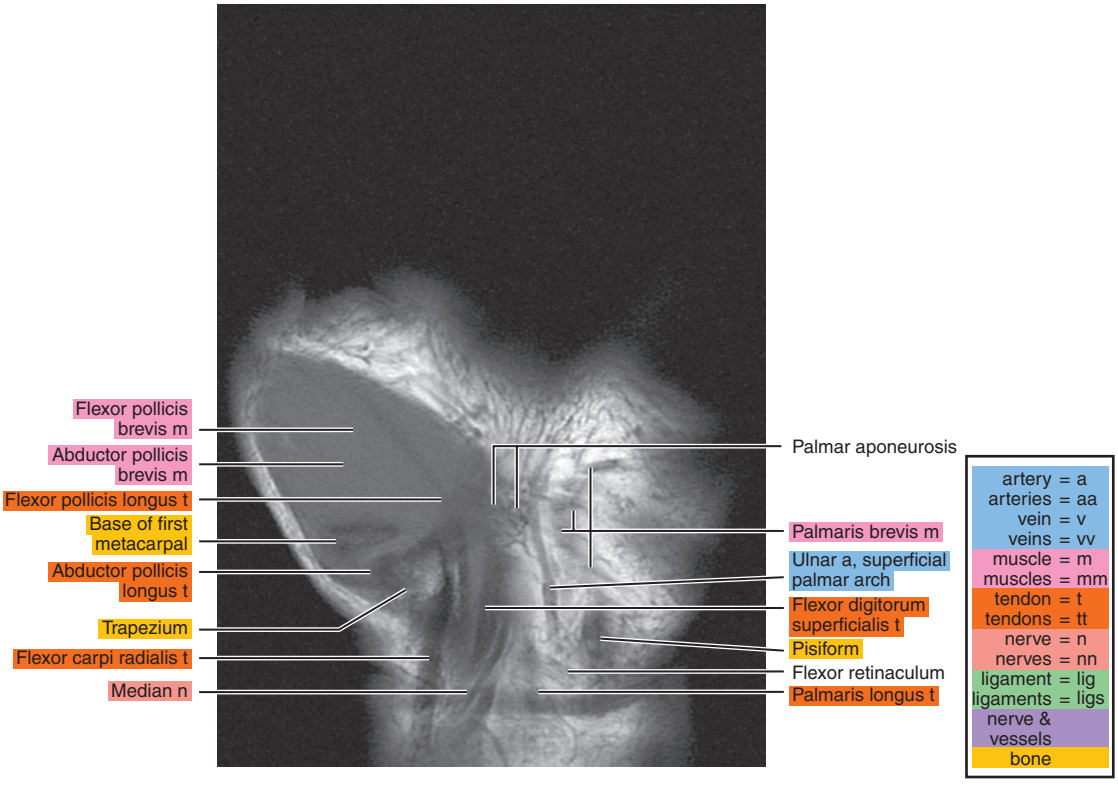

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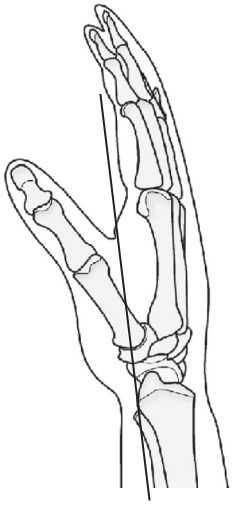

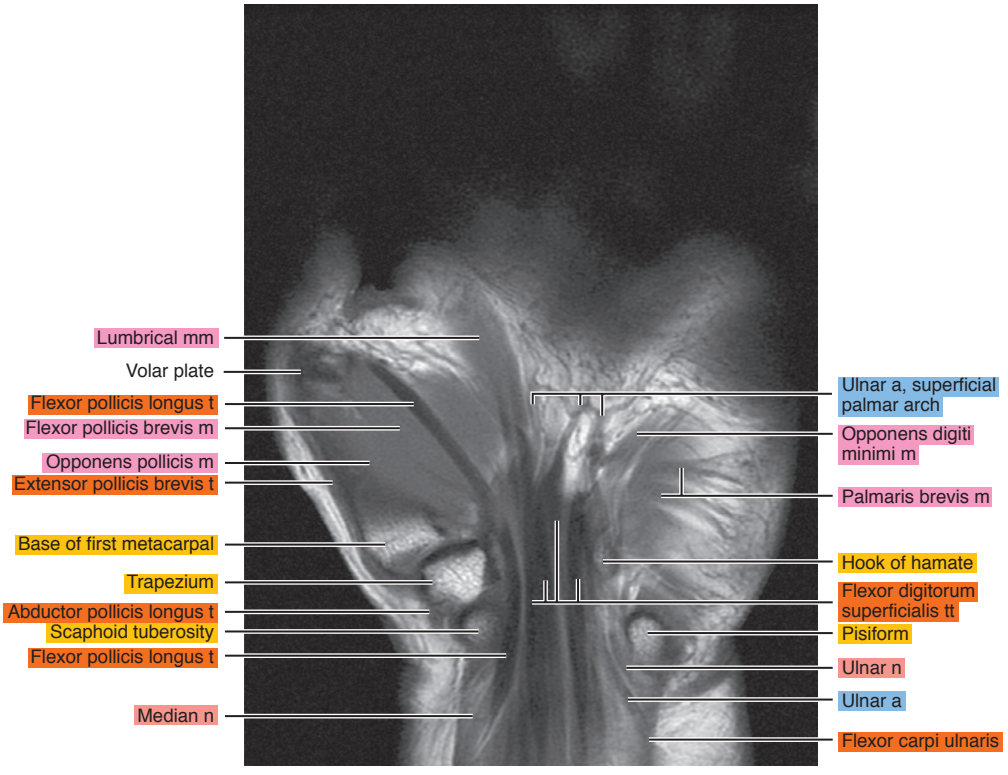

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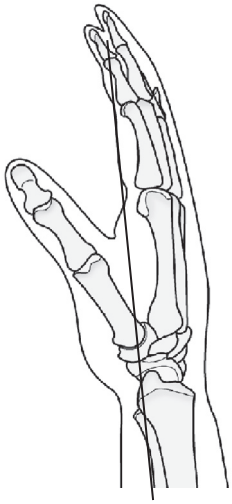

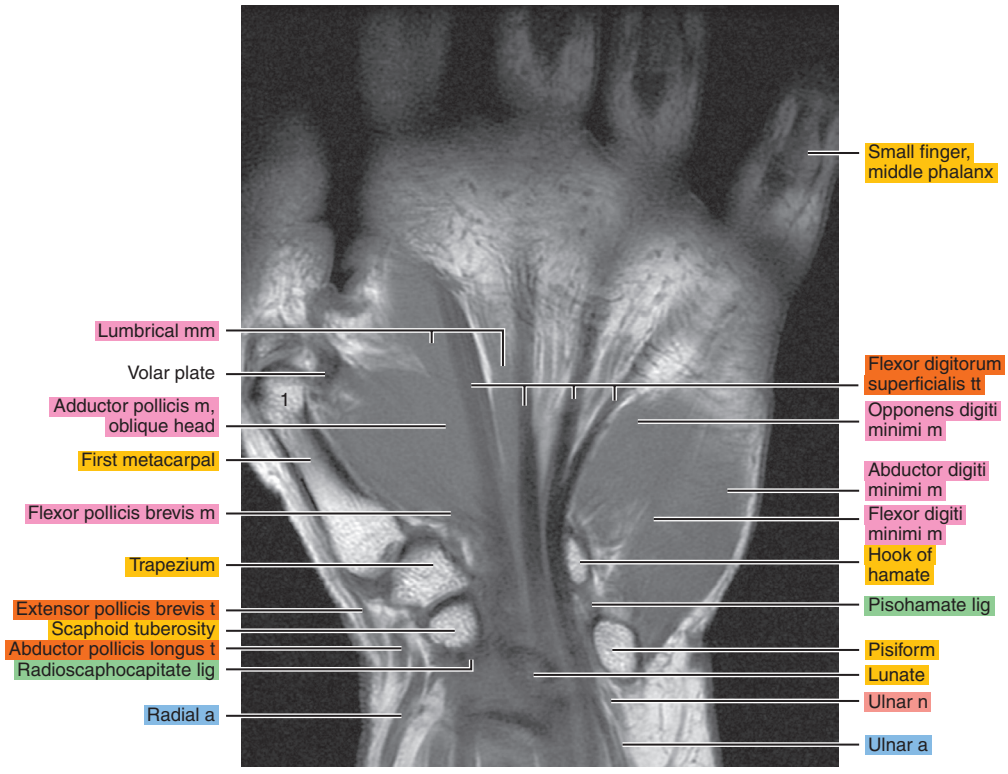

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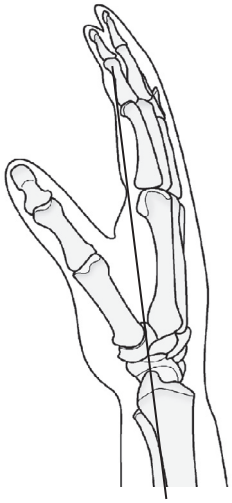

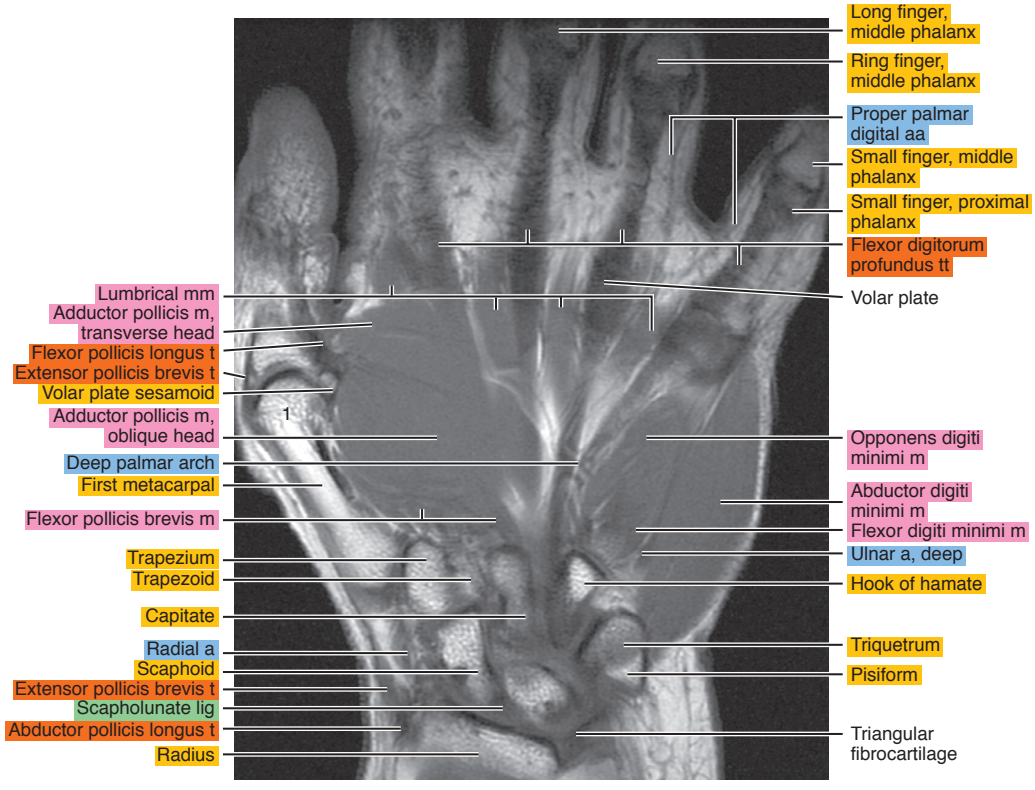

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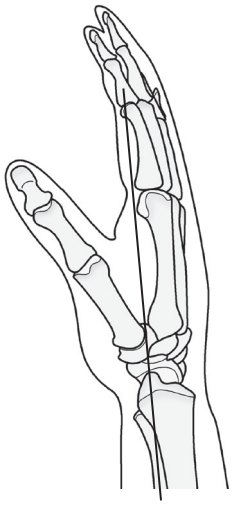

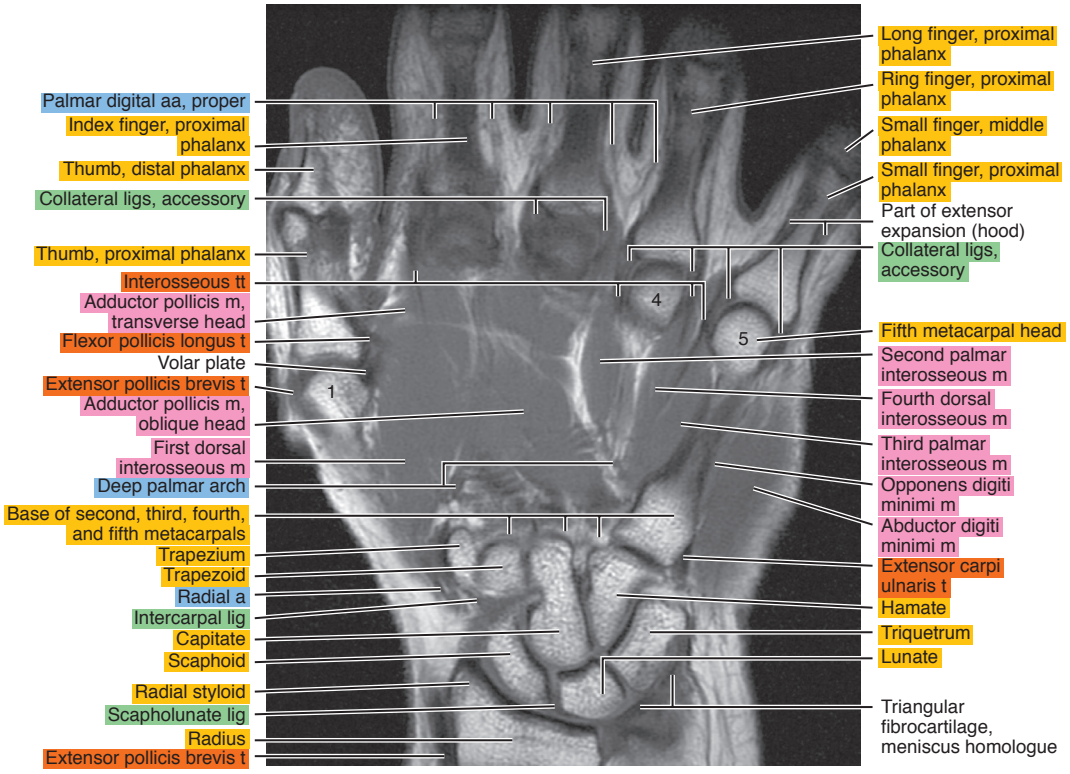

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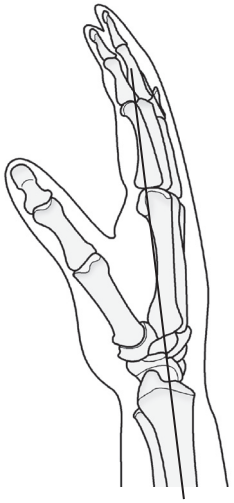

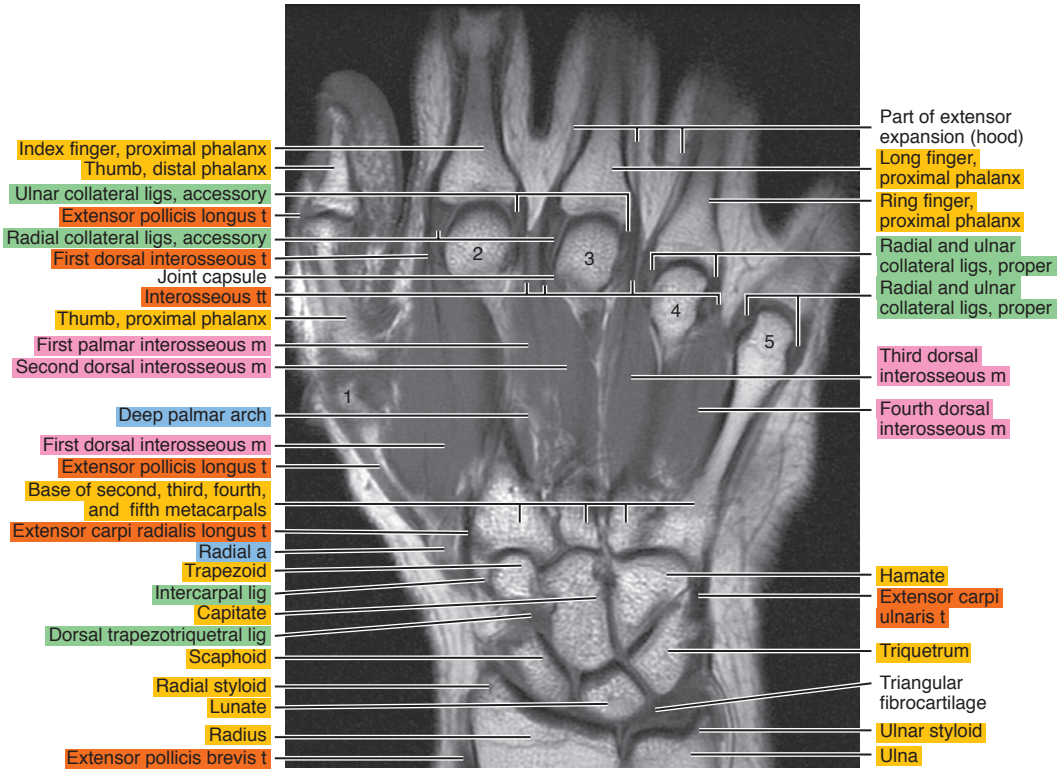

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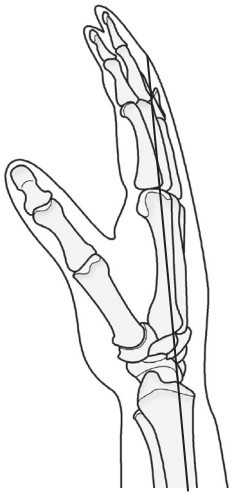

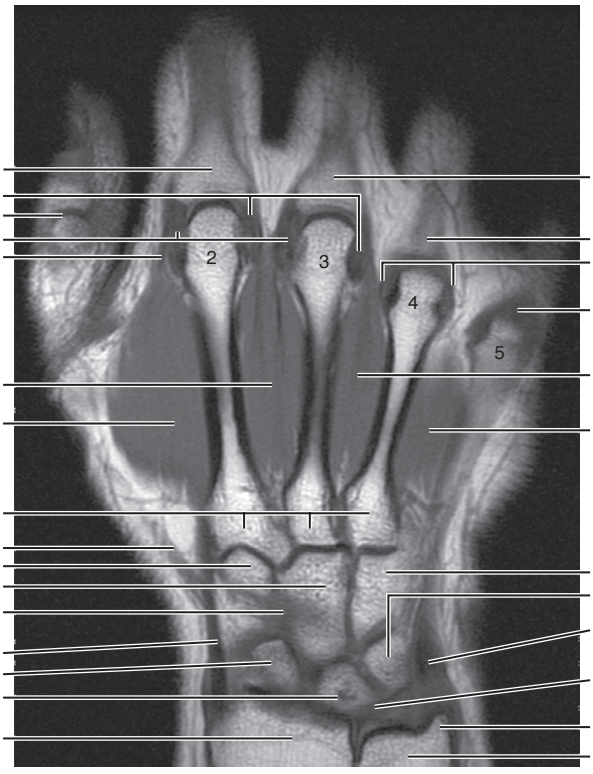

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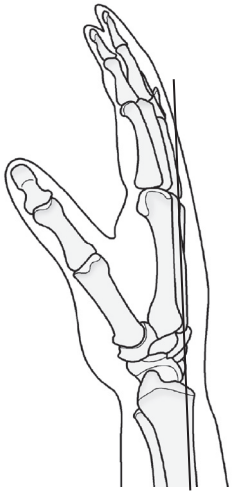

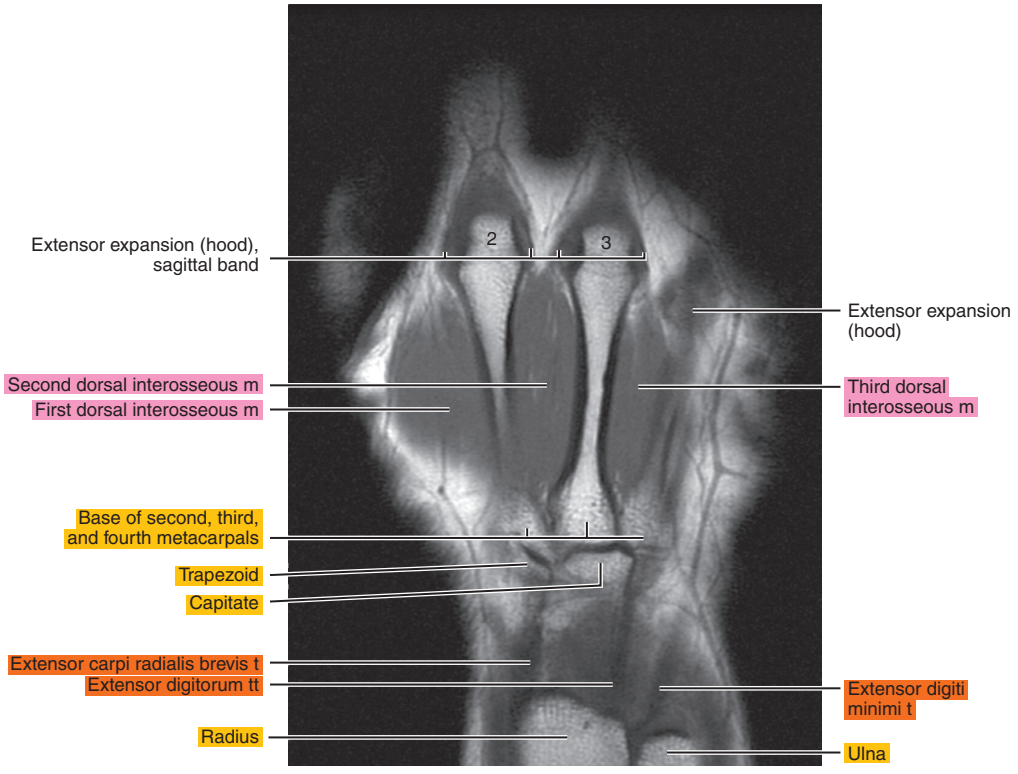

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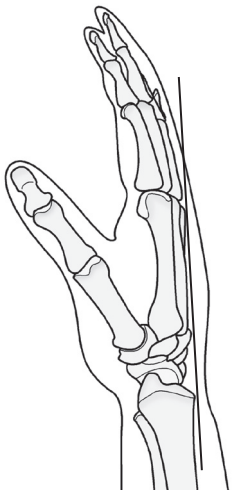

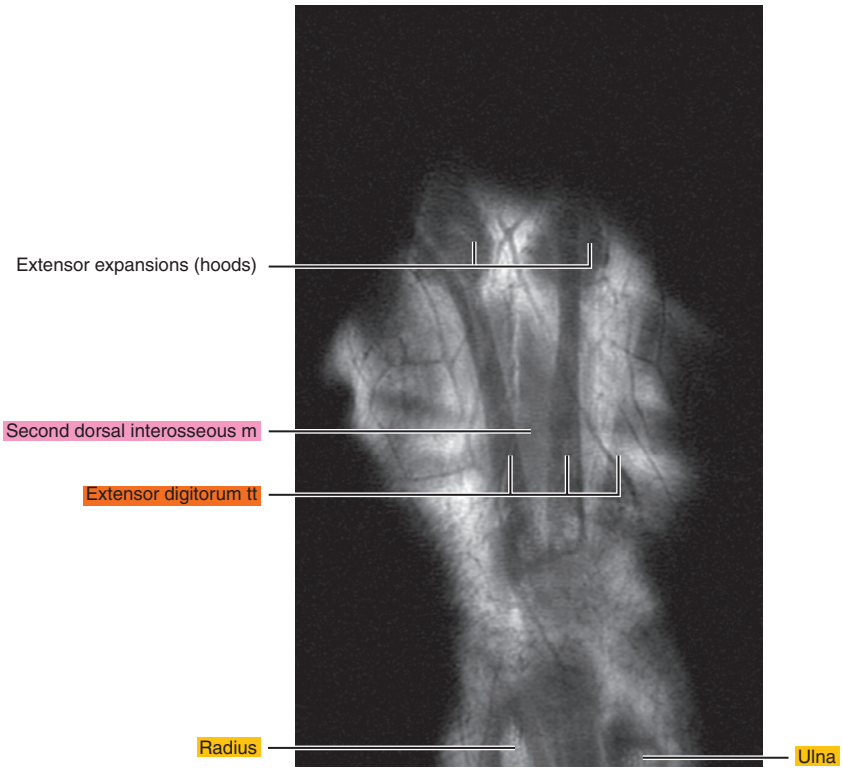

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Section

II

Lower Extremity

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Chapter

9

MRI of the Hip

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Table 9-1. Muscles of the Hip

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Obturator internus	Pelvic surface of the pubic rami near the obturator foramen, pelvic surface of the ischium between the foramen and the greater sciatic notch, deep surface of the obturator internus fascia, fibrous arch that surrounds the foramen for obturator vessels and nerve, most of the pelvic surface of the obturator membrane except the lower part	Medial side of the greater trochanter in front of the trochanteric fossa of the femur	Nerve to the obturator internus, from the lumbosacral trunk, and first and second sacral
Obturator externus	Lateral surface of the pubic and ischial rami, where they surround the obturator membrane, lateral surface of the obturator membrane	Trochanteric fossa	Obturator
Gemellus superior	Outer surface of the ischial spine and edge of the lesser sciatic notch	After union with the tendon of the obturator internus, inserts into the medial side of the greater trochanter in front of the trochanteric fossa	By a small nerve, branch of the nerve to obturator internus or branch of the nerve to the quadratus femoris
Gemellus inferior	Upper part of the inner border of the tuberosity of the ischium, sacrotuberous ligament, and edge of the lesser sciatic notch	By union with the tendon of the obturator internus or with the tendon onto the greater trochanter below the obturator internus muscle	By a small branch of the nerve to the quadratus femoris
Quadratus femoris	Upper part of the outer border of the tuberosity of the ischium	The inferior dorsal angle of the greater trochanter	Lumbosacral trunk and first sacral
Psoas major	By a series of thick fasciculi from the intervertebral discs and bodies between T12 and L5, from the bodies of L1 to L4, and from slender fascicles from the ventral surfaces of the transverse processes of the lumbar vertebrae	The lesser trochanter of the femur	Branches from L1 (often), L2, L3, and L4
Iliacus	Iliac crest, iliolumbar ligament, iliac fossa, anterior sacroiliac ligaments, often from the ala of the sacrum, and from the ventral border of the ilium between the two anterior spines	Lateral surface of the psoas tendon (above the inguinal ligament) onto the femur immediately distal to the lesser trochanter; the lateral portion arises from the ventral border of the ilium and is attached to the tendon of the rectus femoris and the capsule of the hip joint	Femoral and L1 to L4
Tensor fasciae latae	Anterior superior iliac spine and anterior part of the external lip of the iliac crest	Muscle fibers pass distally in parallel array, unite with the tendon, and join the iliotibial tract about one third of the way down the thigh	Superior gluteal
Gluteus medius	Ventral three fourths of the iliac crest, outer surface of the ilium between the anterior and posterior gluteal lines, and from the investing fascia	Onto the posterosuperior angle and the external surface of the greater trochanter	Superior gluteal (L4, L5, S1)

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Table 9-1. Muscles of the Hip—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Piriformis	Lateral part of the ventral surface of S2, S3, and S4, posterior border of the greater sciatic notch, from the sacrotuberous ligament near the sacrum	Onto the anterior and inner parts of the upper border of the greater trochanter	S1 or S2 or from a loop between S1 and S2
Gluteus maximus	Dorsal fifth of the outer lip of the iliac crest, ilium dorsal to the posterior gluteal line, thoracolumbar fascia between the posterior superior spine of the ilium and the side of the sacrum, lateral parts of S4, S5, and coccygeal vertebrae, and from the back of the sacrotuberous ligament	Into the iliotibial tract, gluteal tuberosity of the femur, adjacent part of the tendinous origin of the vastus lateralis	Inferior gluteal by two branches from the sacral plexus (separately or as a united nerve)
Gluteus minimus	Outer surface of the ilium between the anterior and inferior gluteal lines, from the septum between the gluteus minimus and the gluteus medius near the anterior superior, iliac spine and the capsule of the hip joint	Onto the anterior border of the greater trochanter of the femur	Superior gluteal from a branch that supplies the tensor fasciae latae
Biceps femoris, long head	Medial facet on the posterior surface of the ischial tuberosity and sacrotuberous ligament	By a tendon that extends to the head of the fibula	Tibial part of the sciatic
Semitendinosus	Distal margin of the ischial tuberosity and from the tendon common to it and the long head of the biceps femoris	By a triangular tendinous expansion into the proximal part of the medial surface of the tibia behind and distal to the insertion of the gracilis	Sciatic or directly from the lumbosacral plexus by two nerves: from S1 and S2 and from L5 and S1
Semimembranosus	Lateral facet on the posterior surface of the ischial tuberosity	Posterior aspect of the medial tibial condyle	Sciatic branch (also supplies the adductor magnus)

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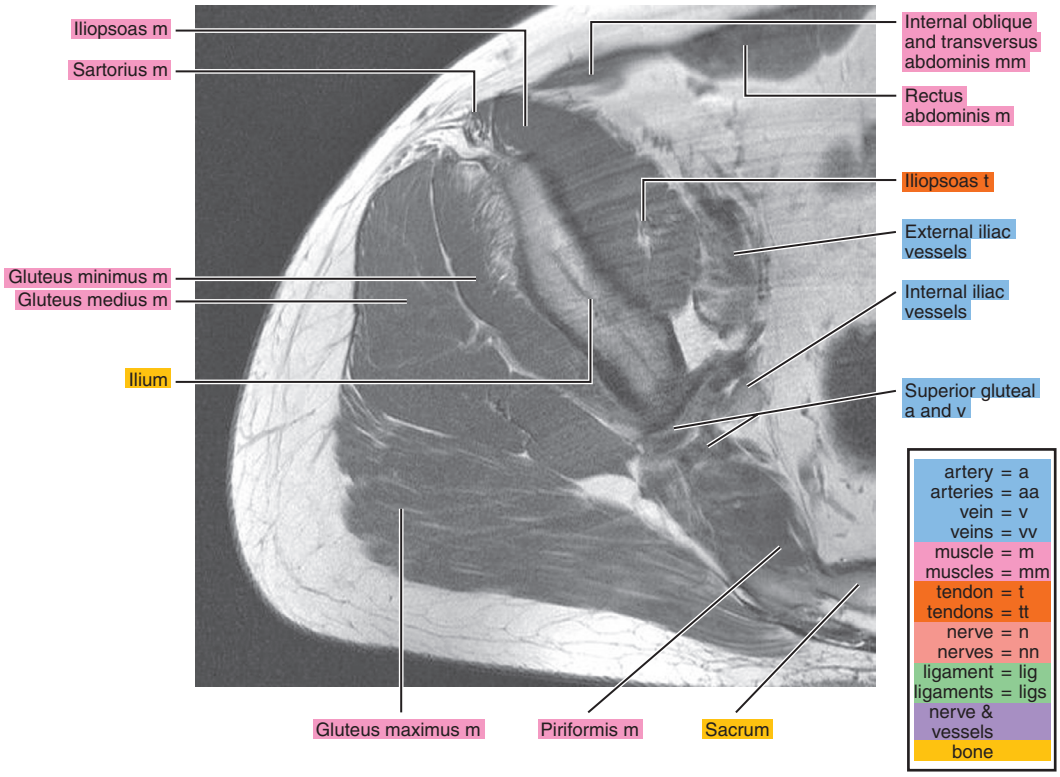
Figure 9.1.1



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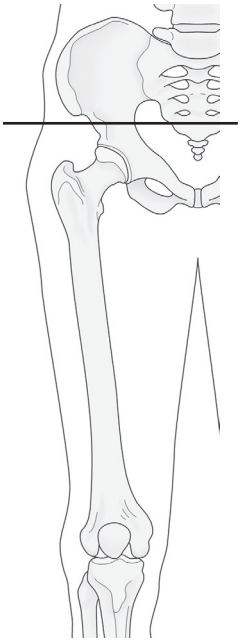

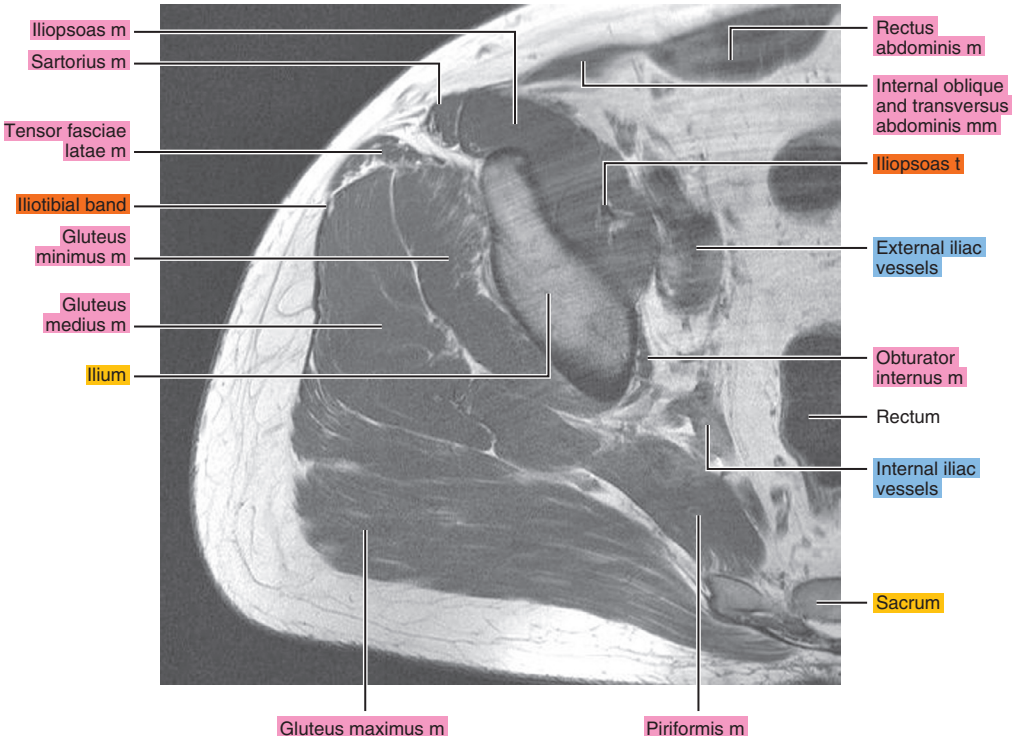

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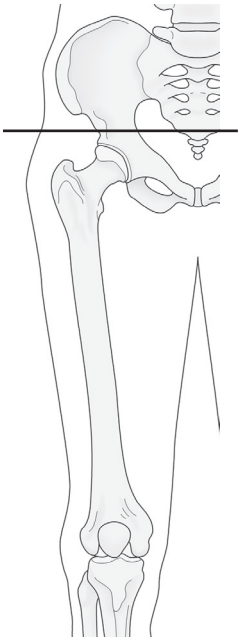

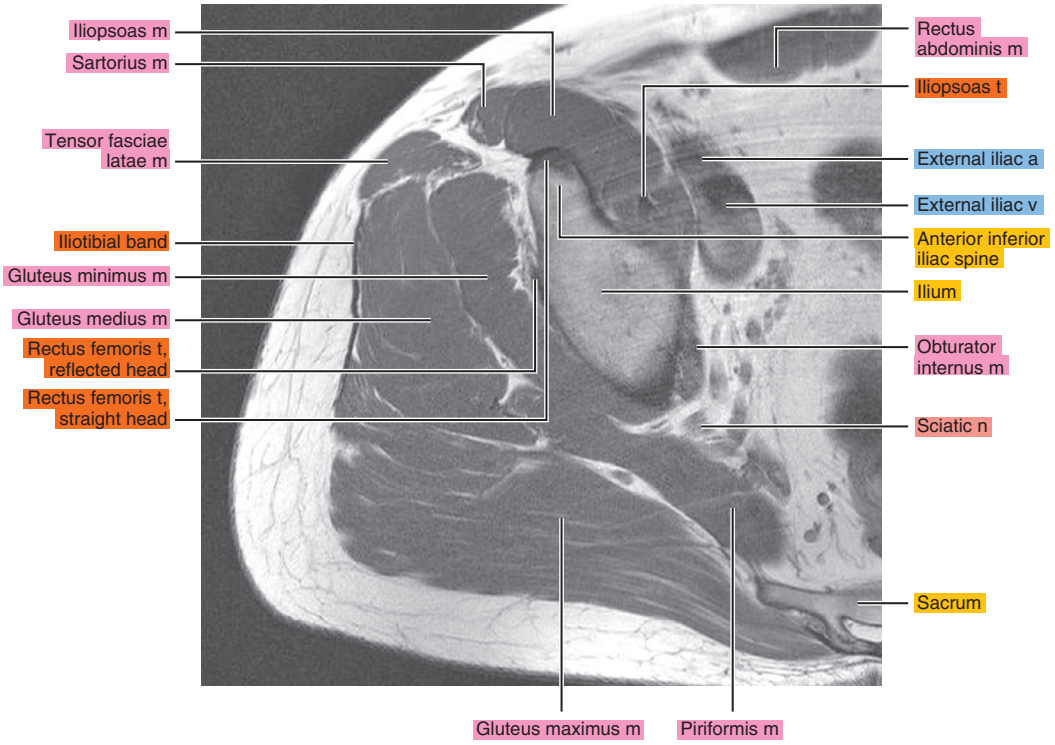

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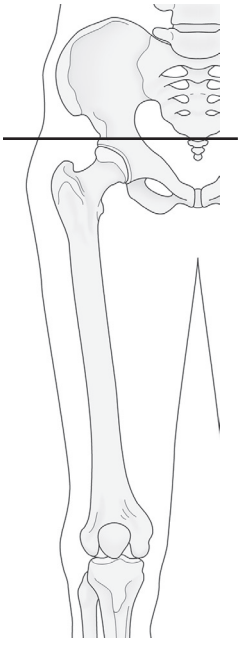

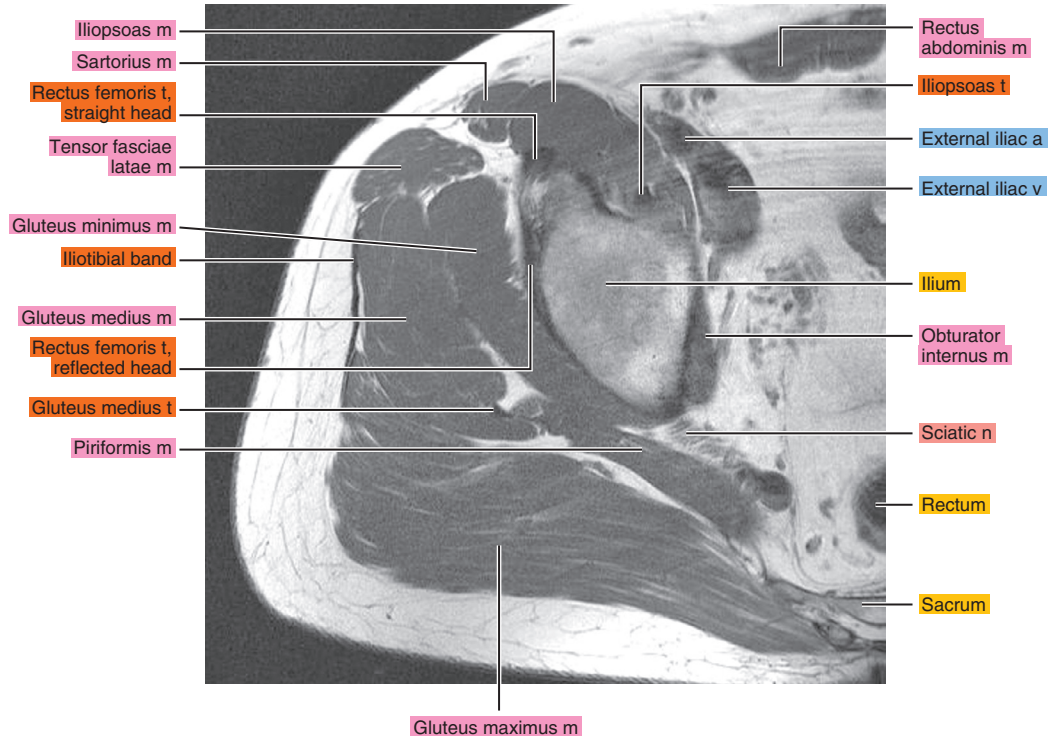

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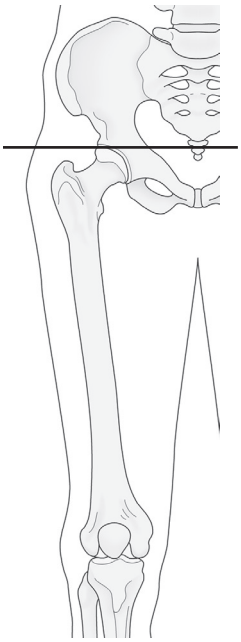

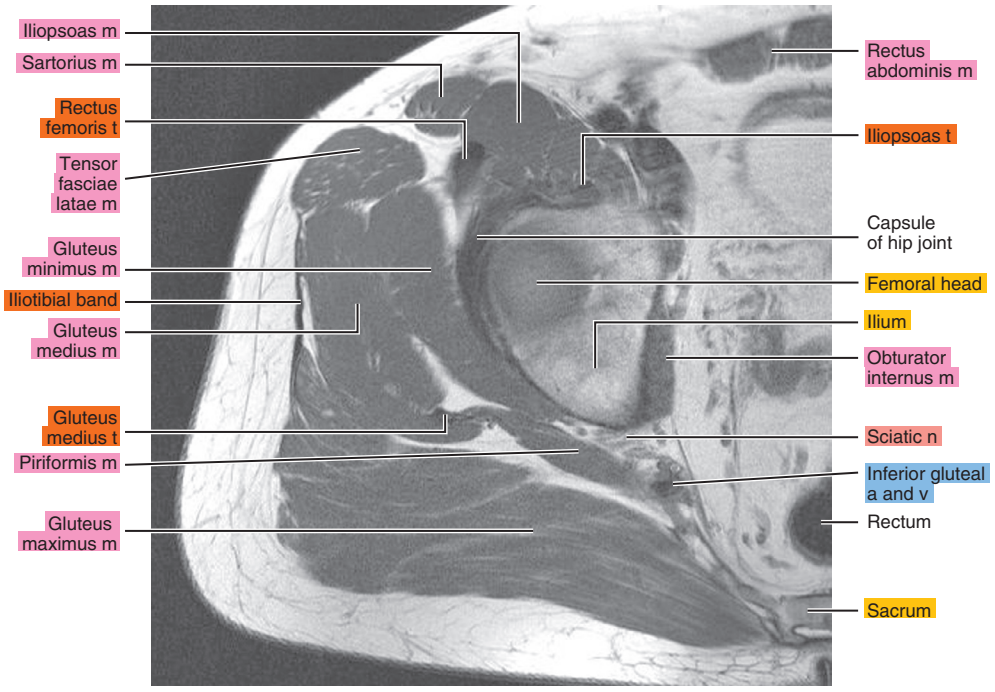

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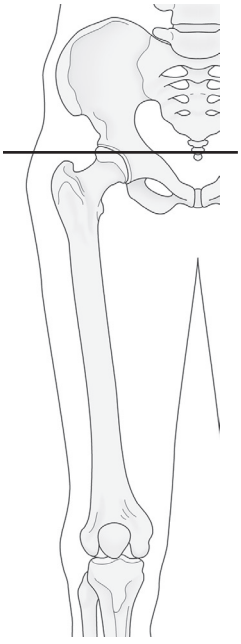

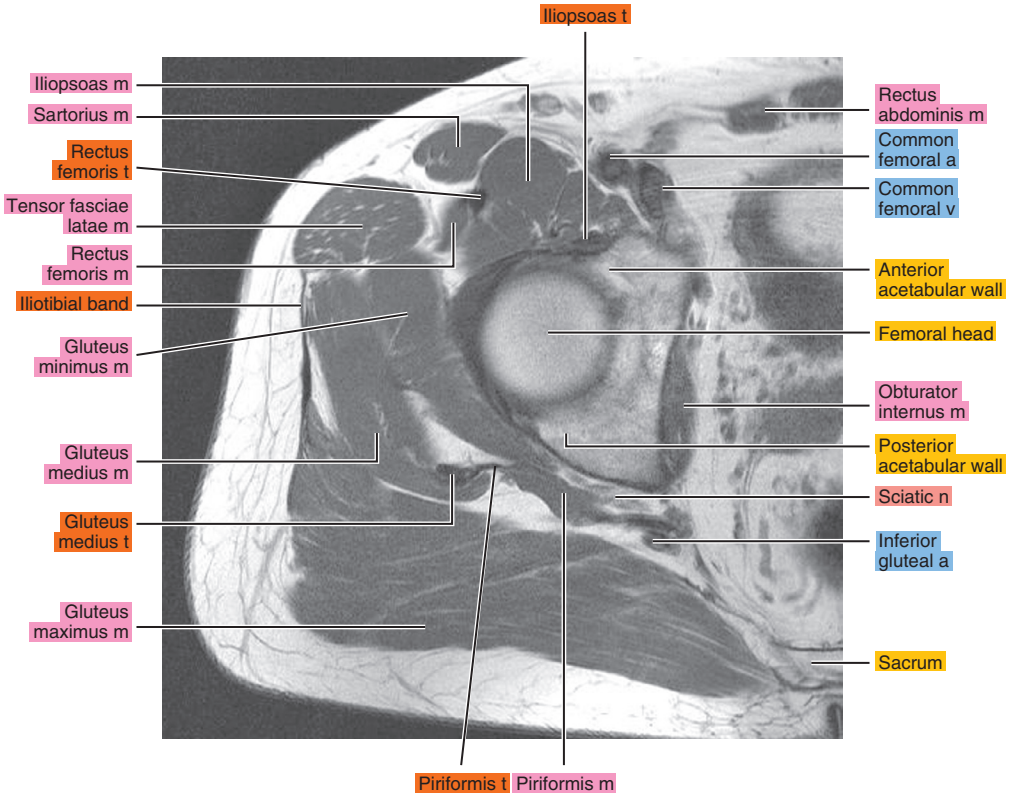

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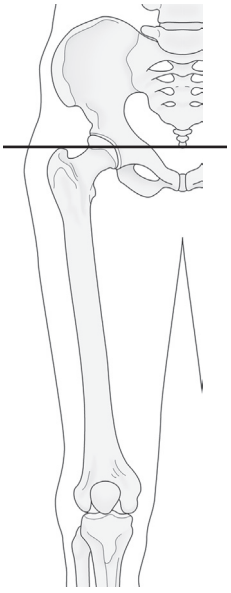

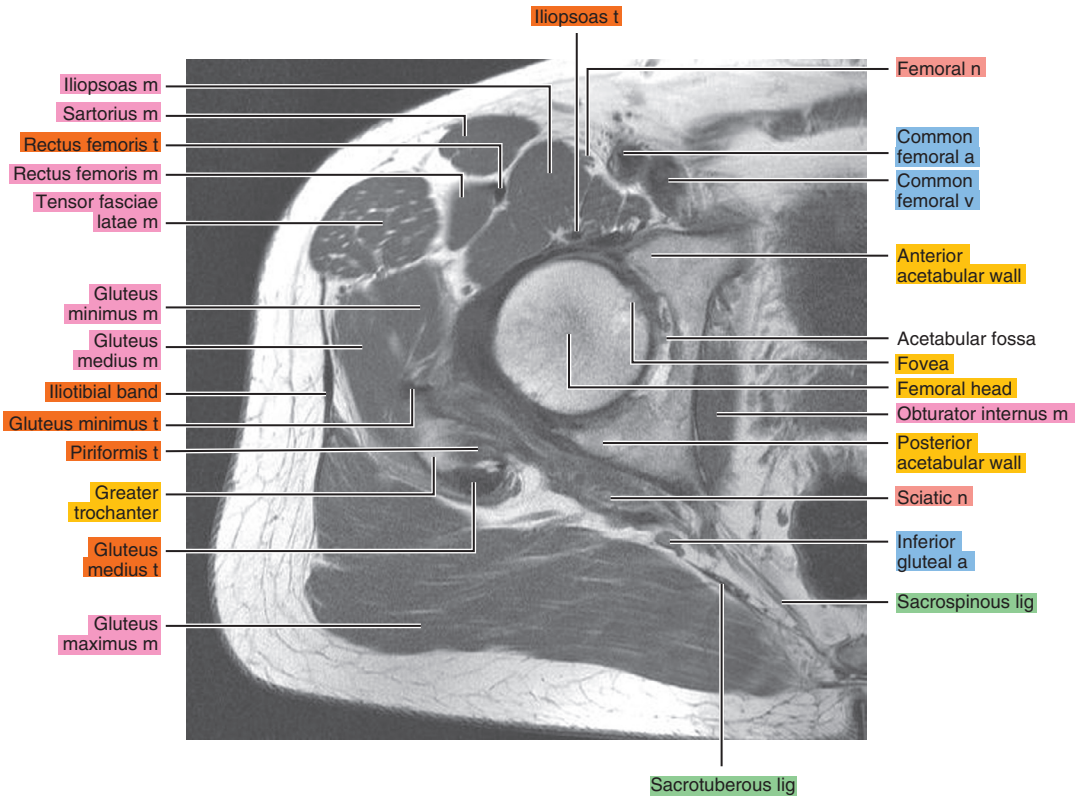

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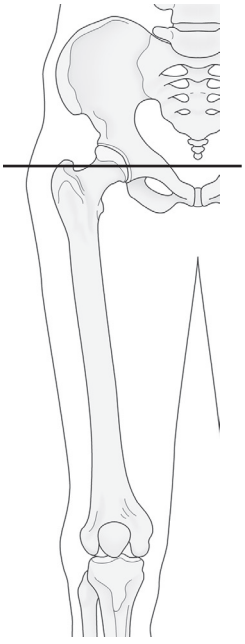

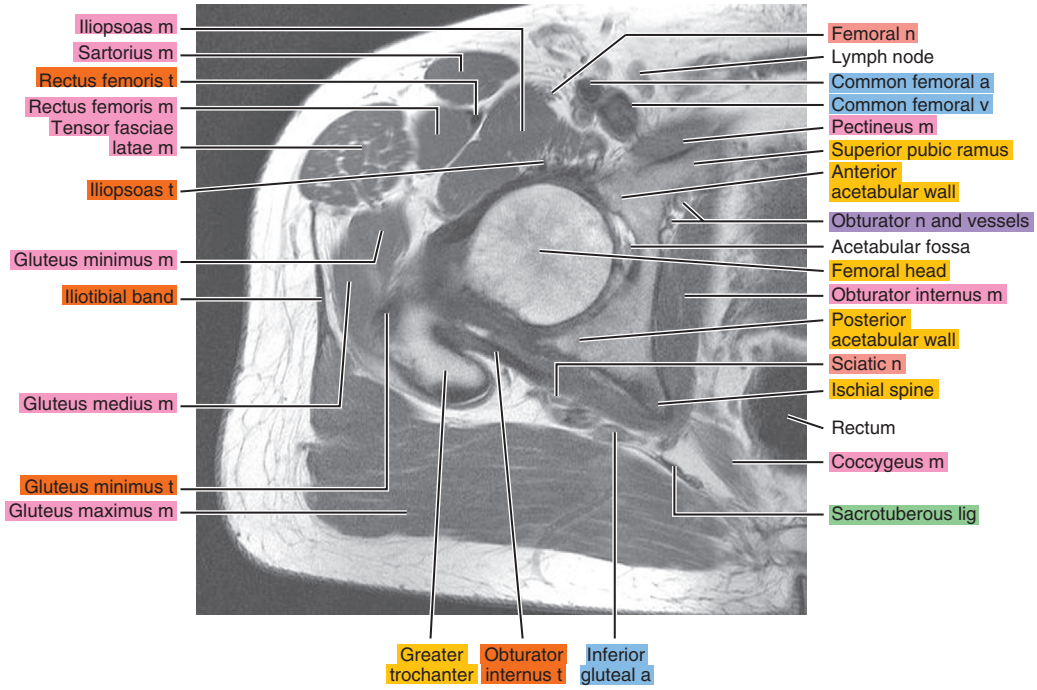

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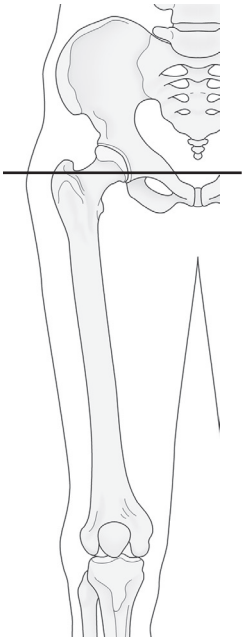

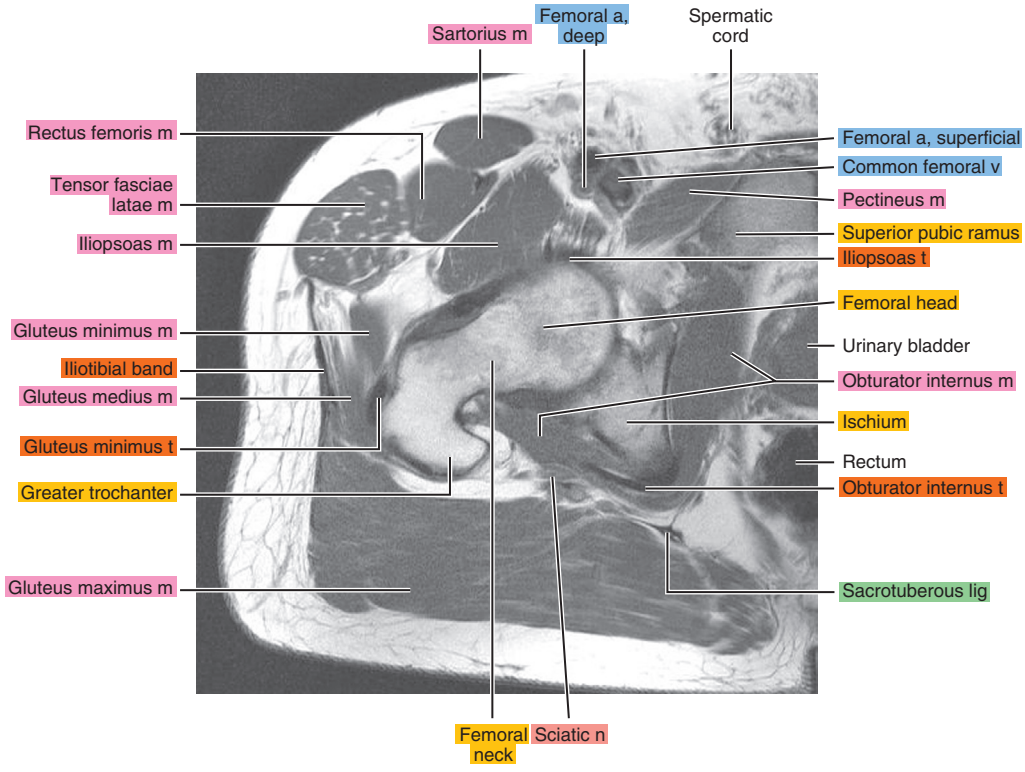

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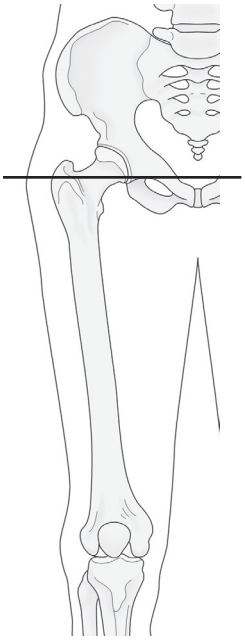

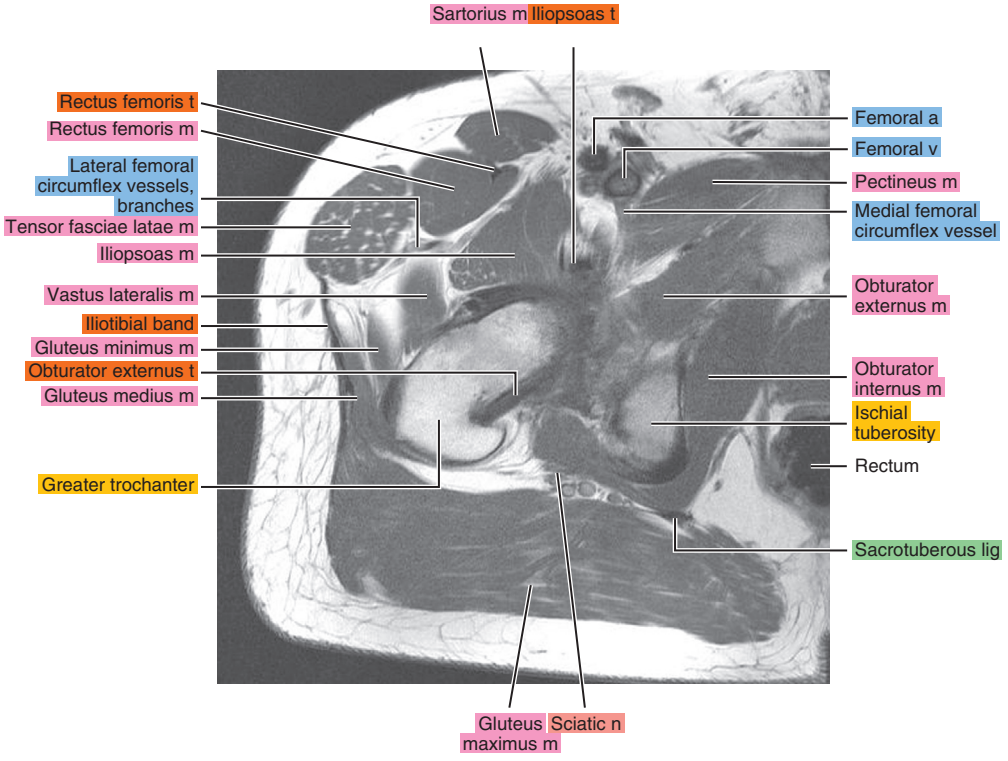

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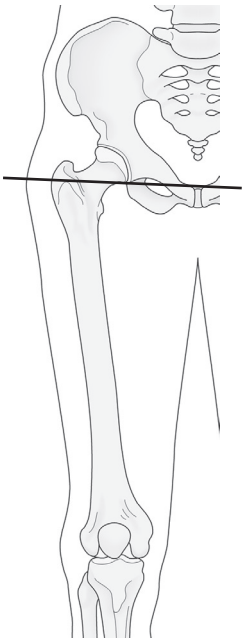

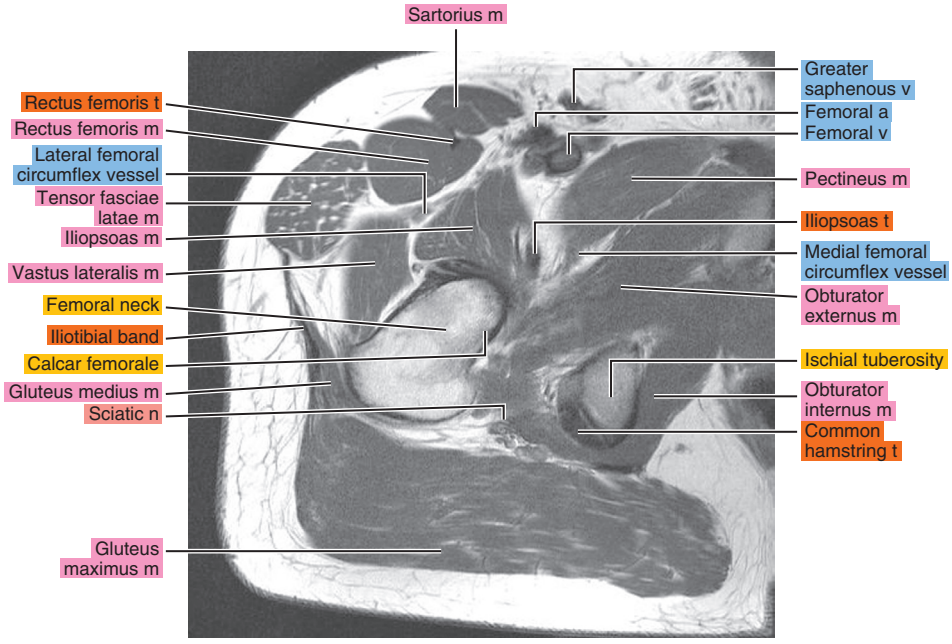

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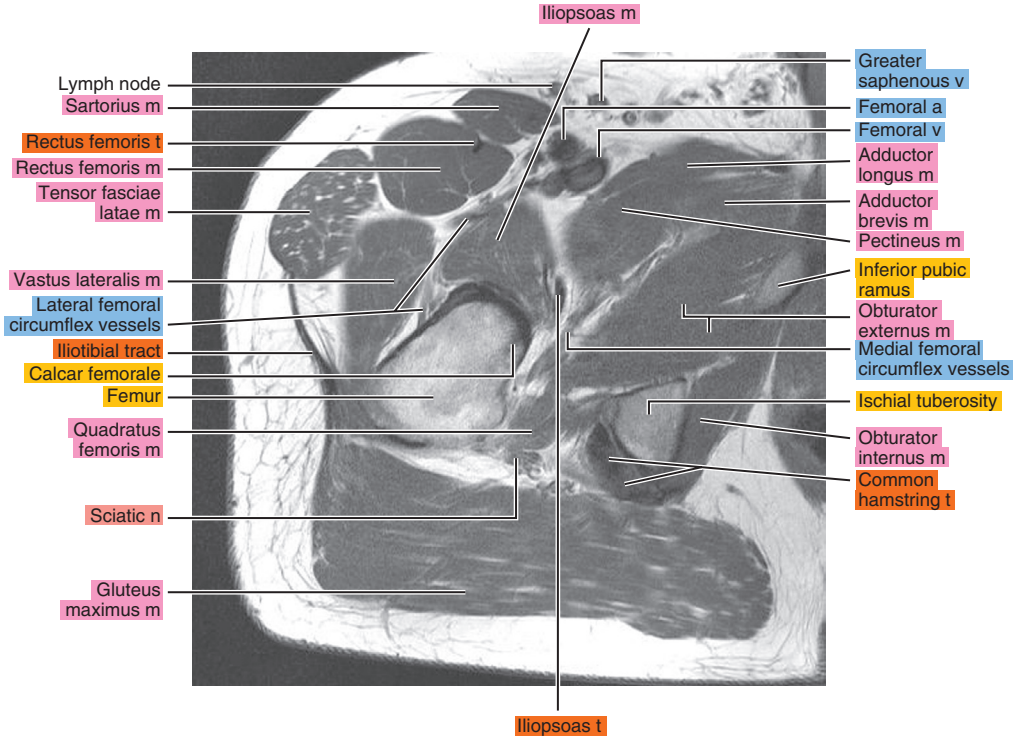

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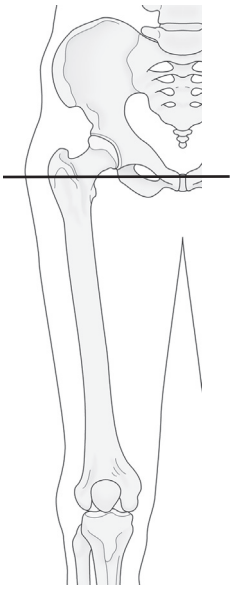

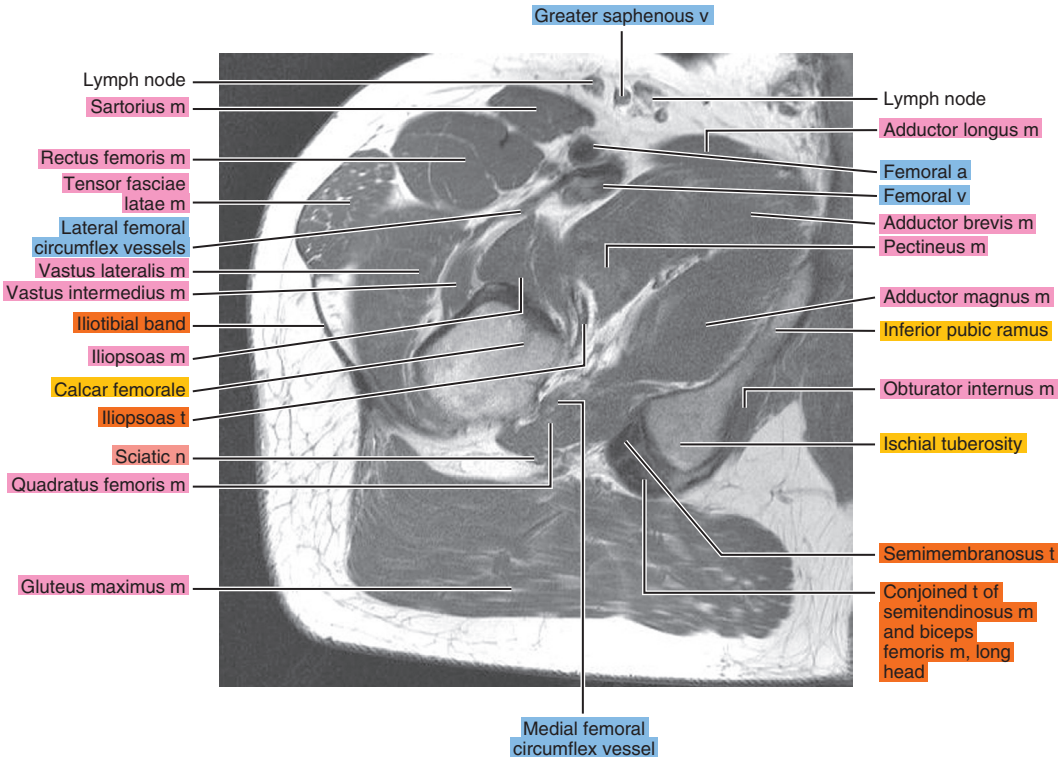

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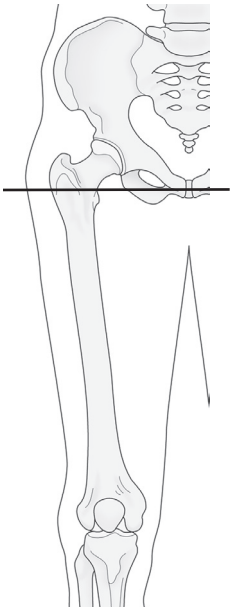

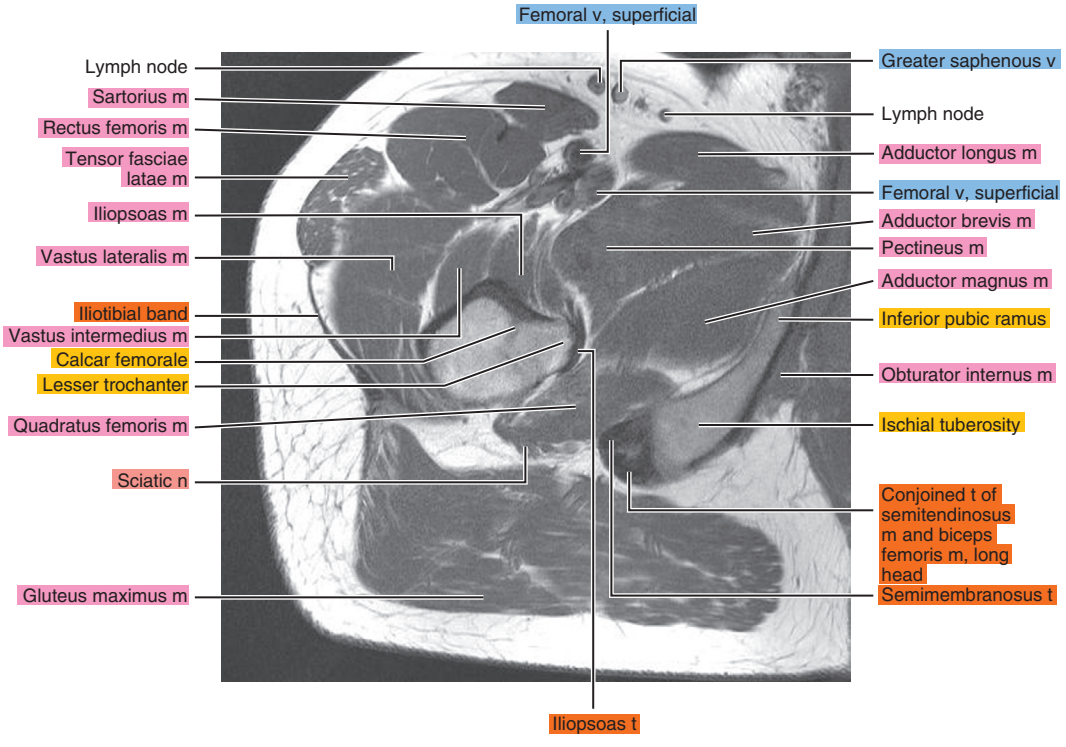

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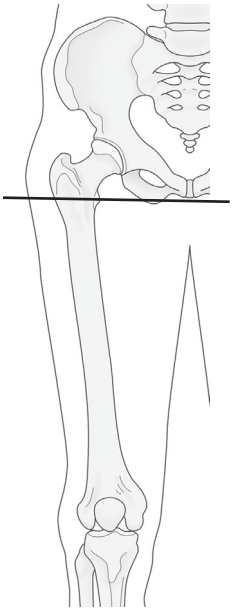

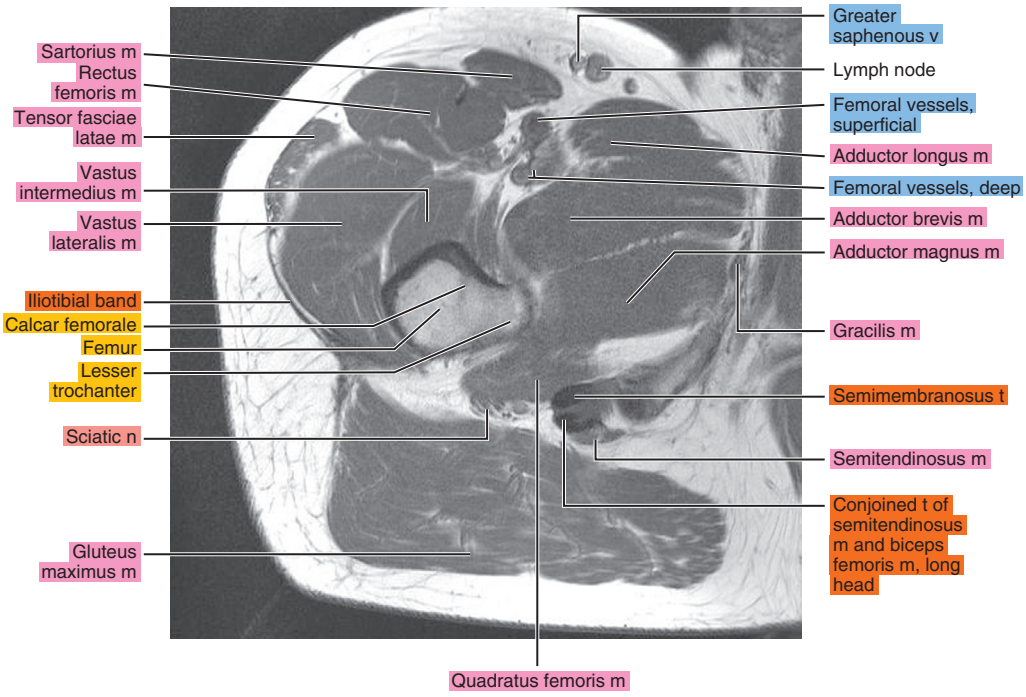

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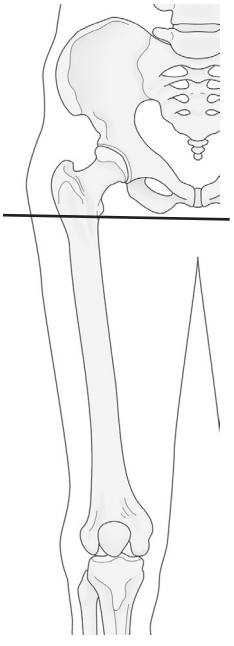

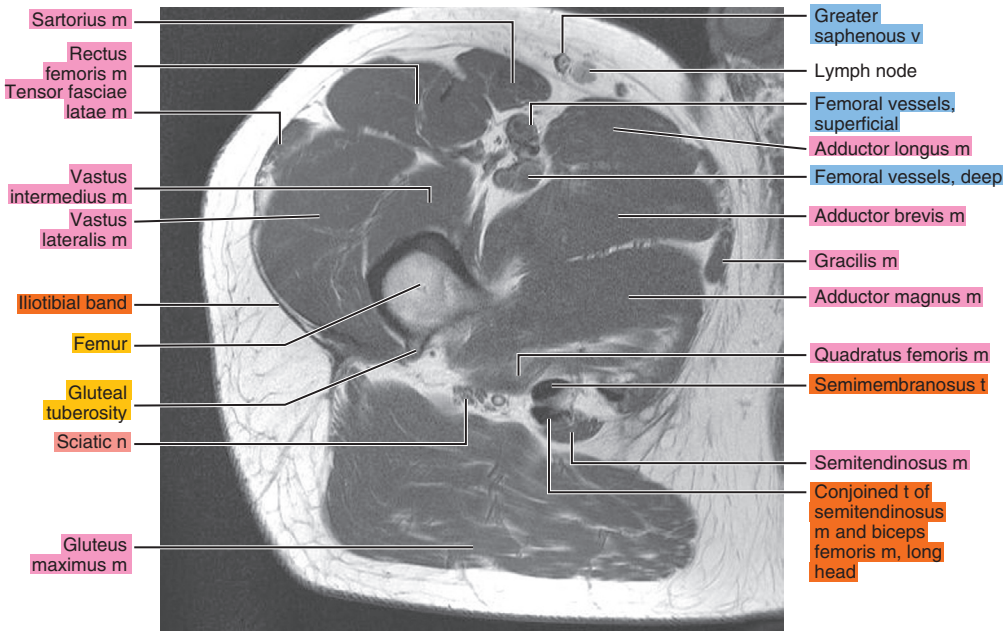

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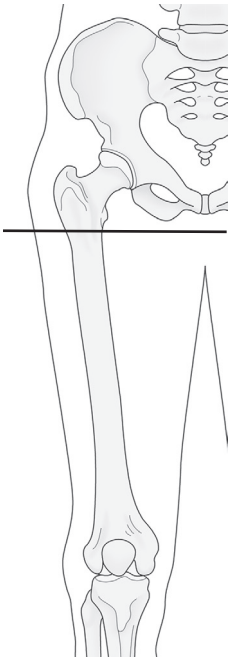

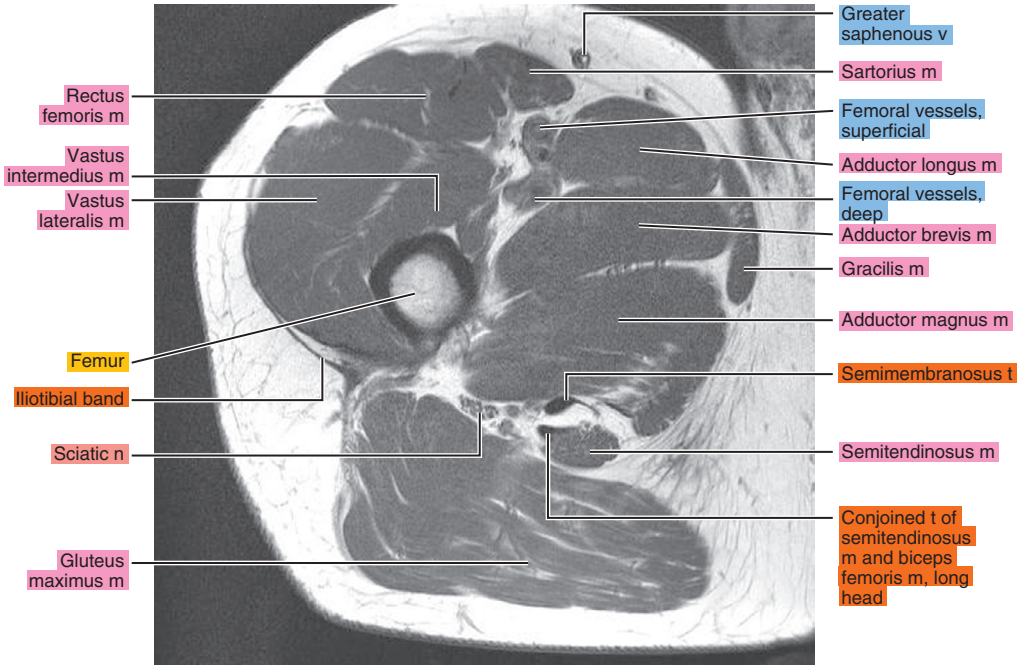

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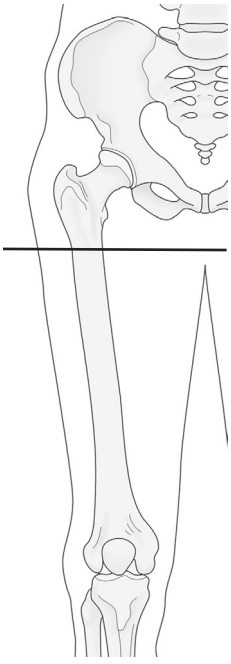

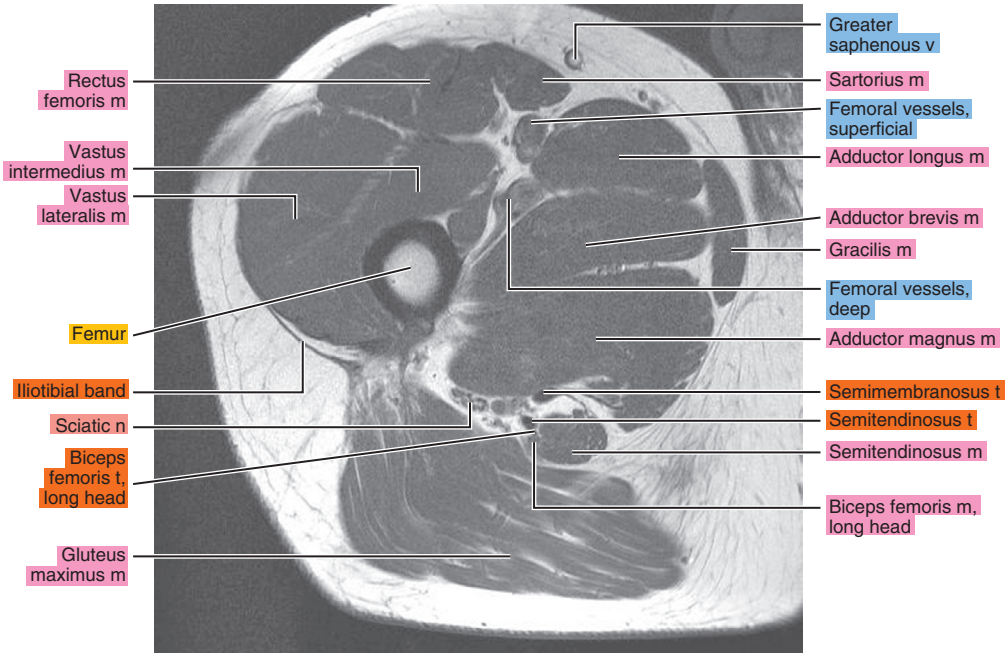

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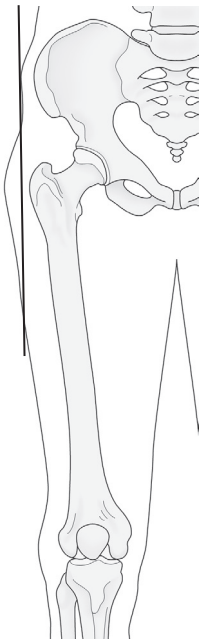

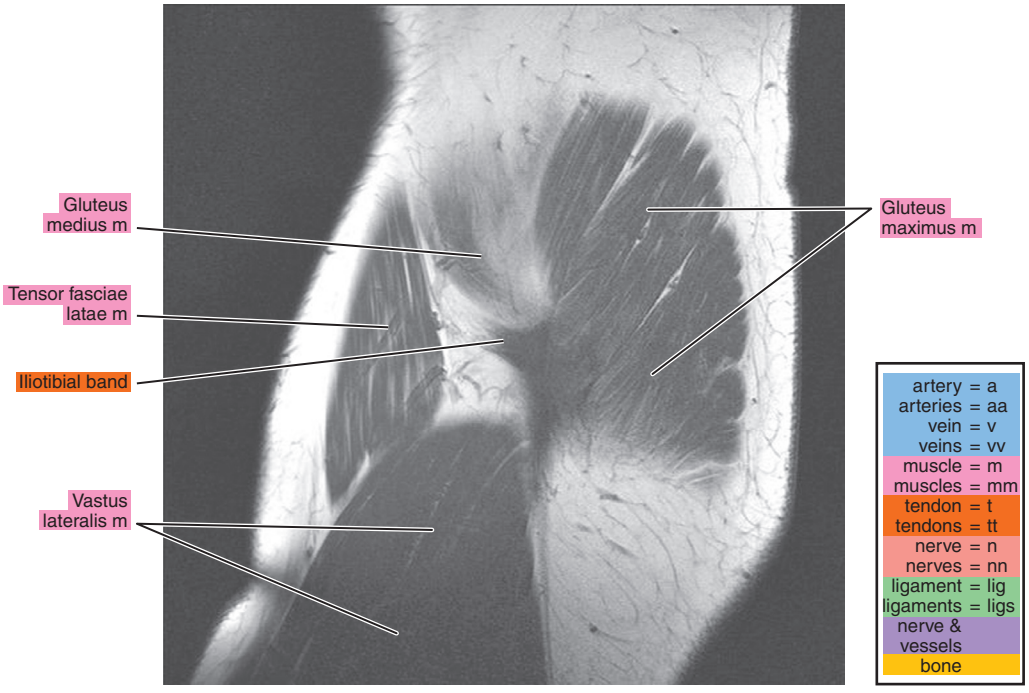

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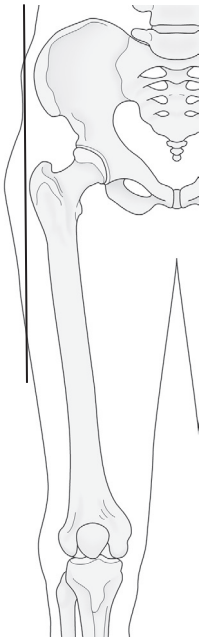

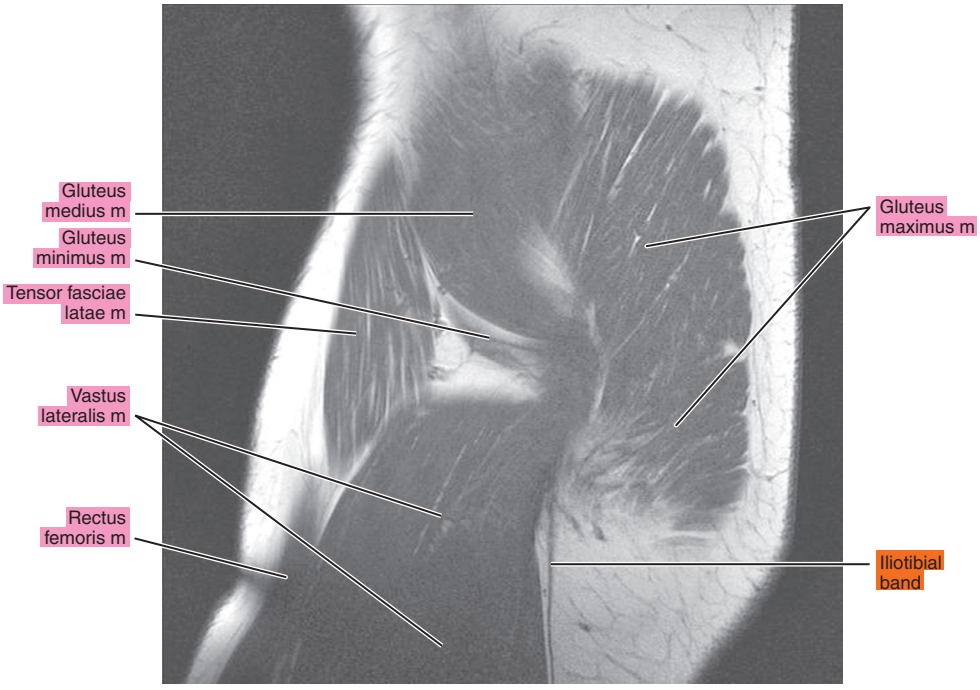

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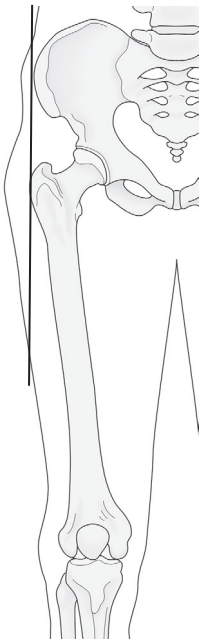

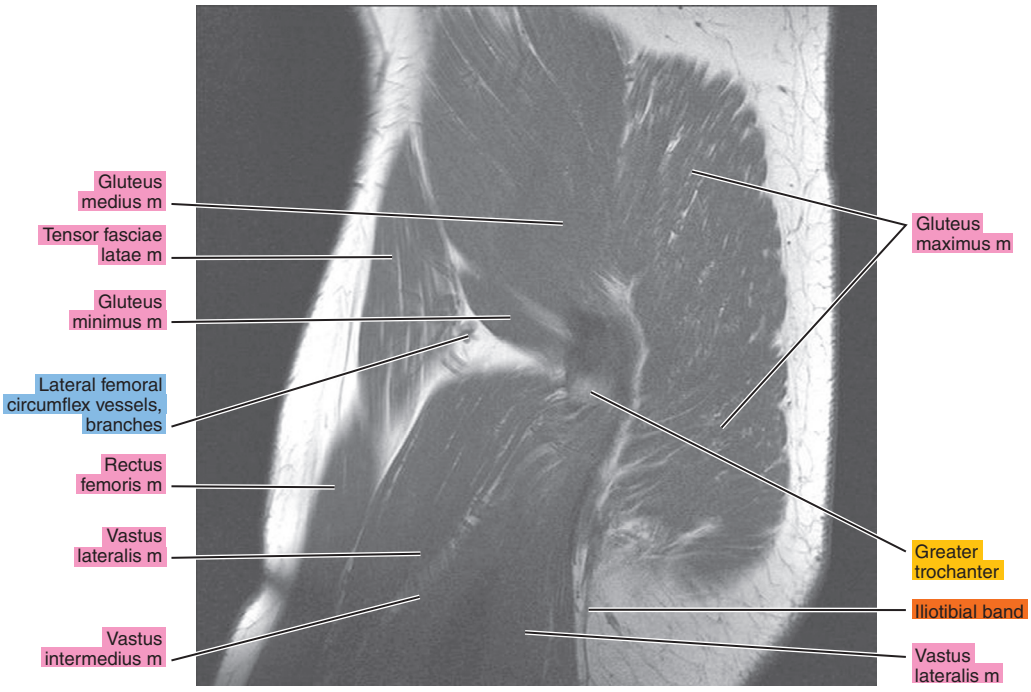

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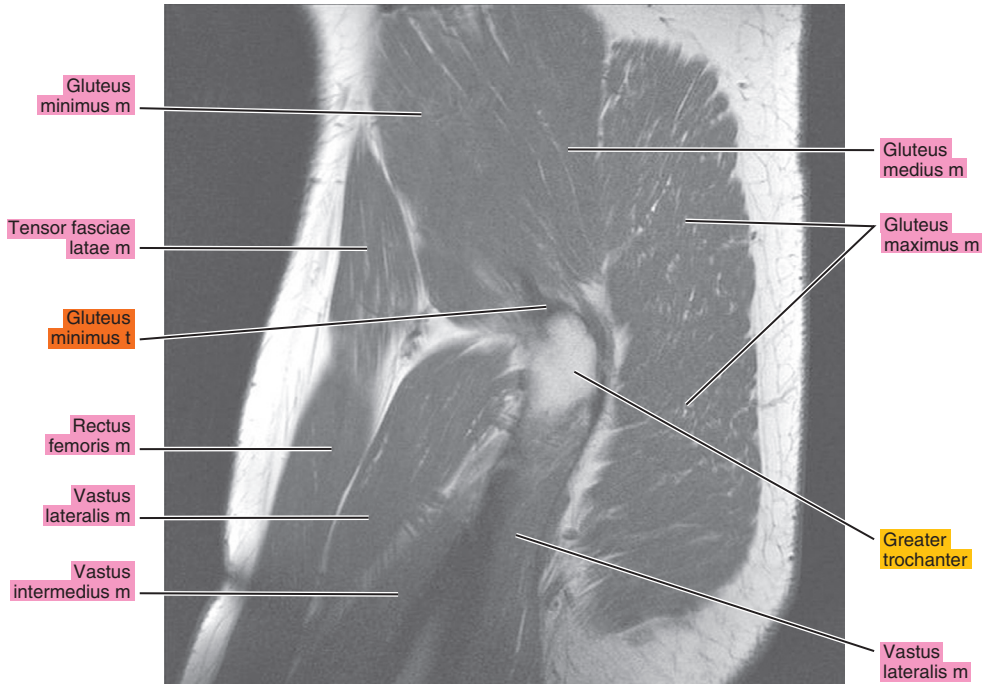

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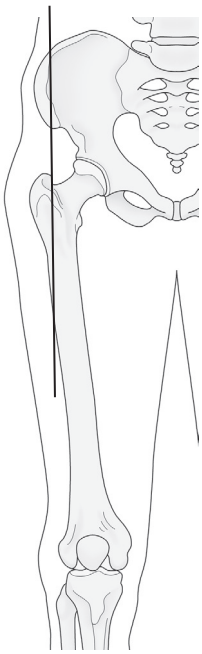

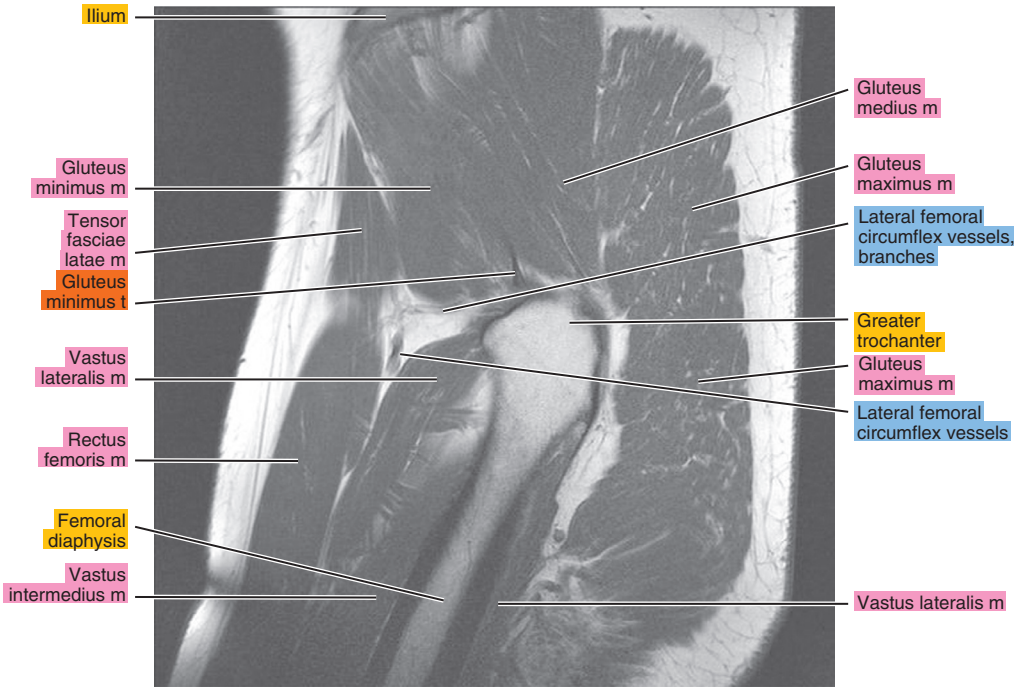

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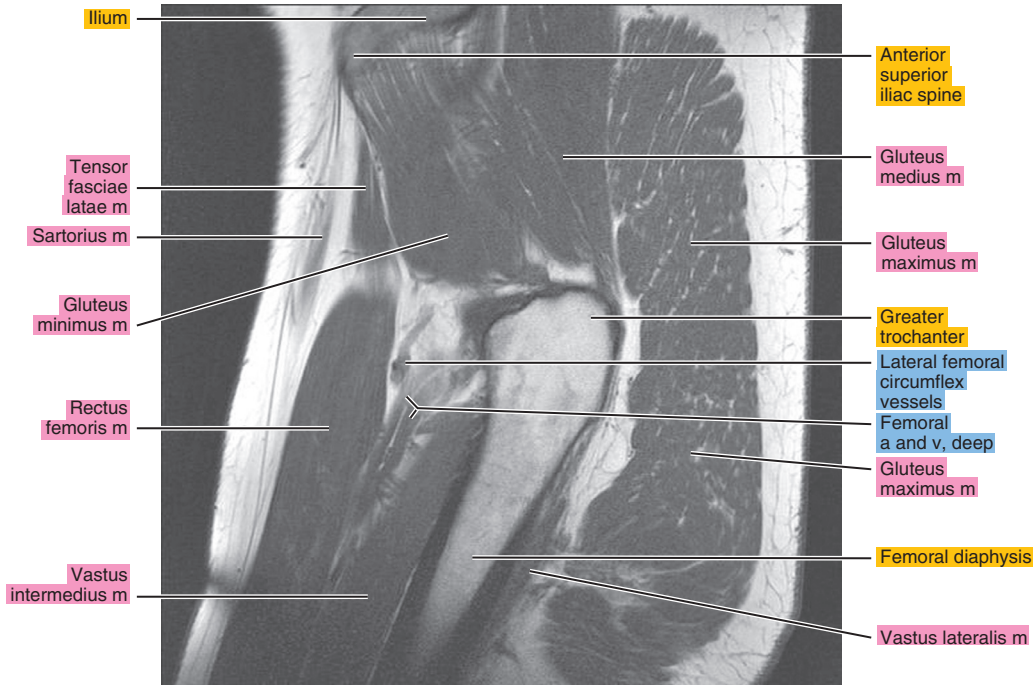

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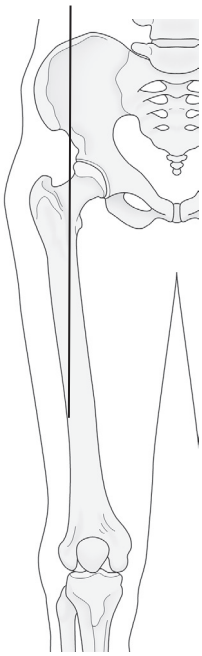

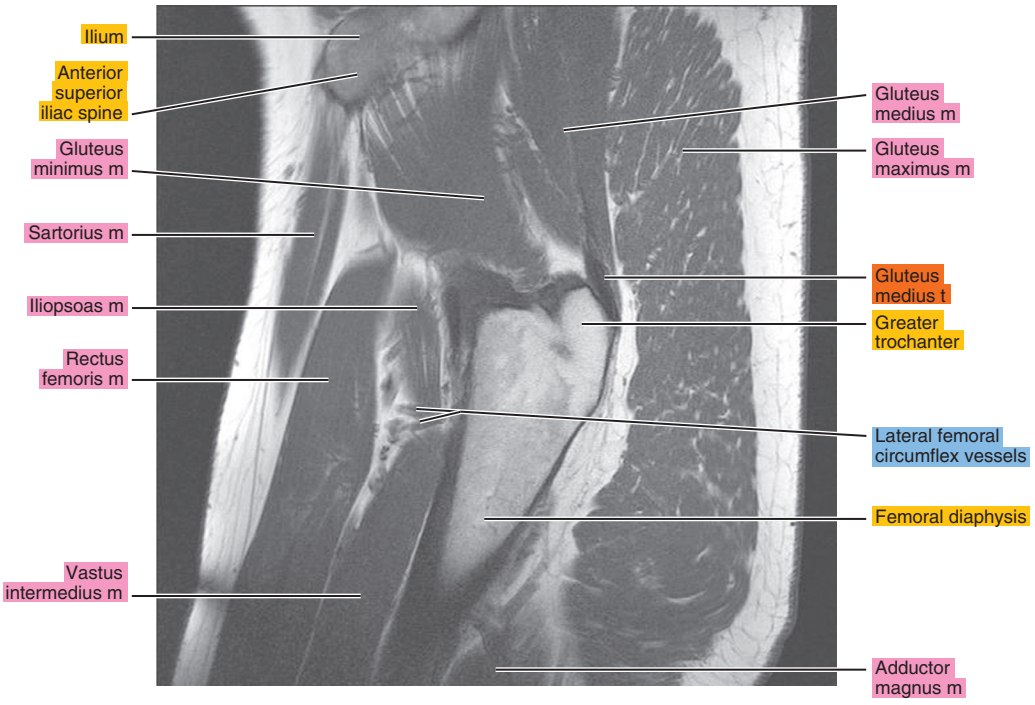

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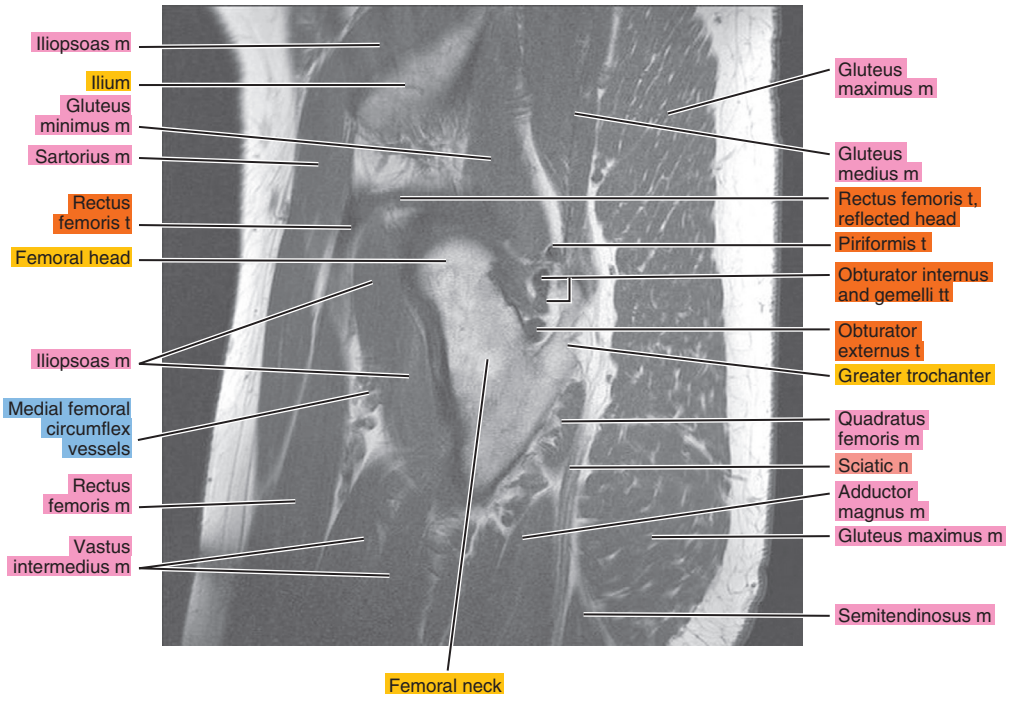

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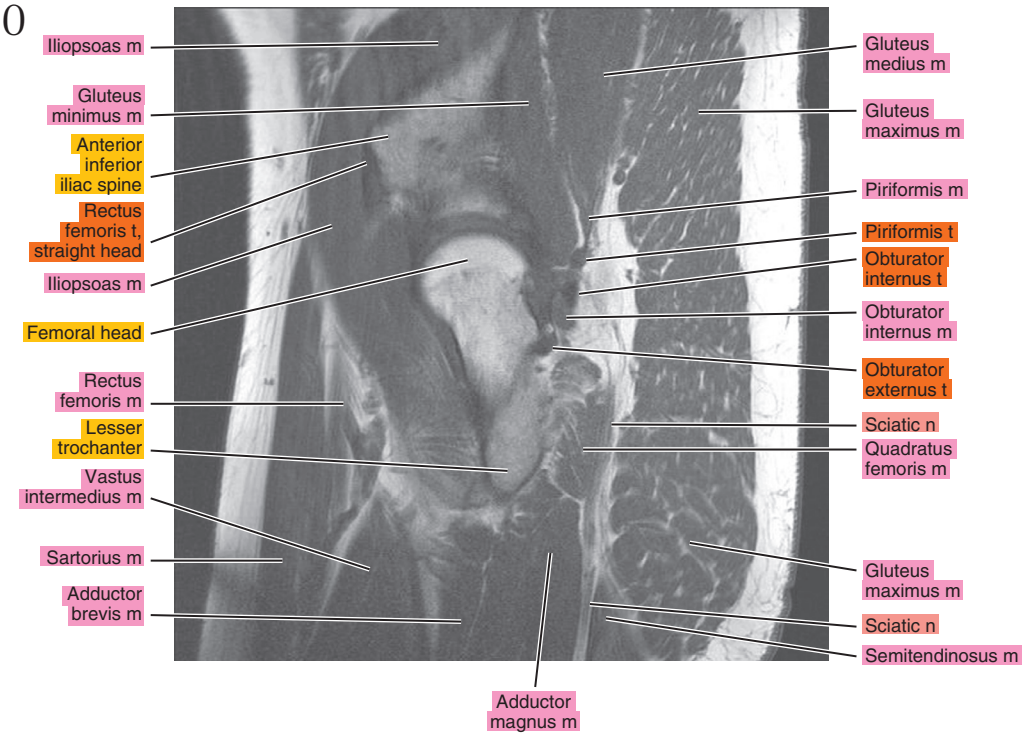

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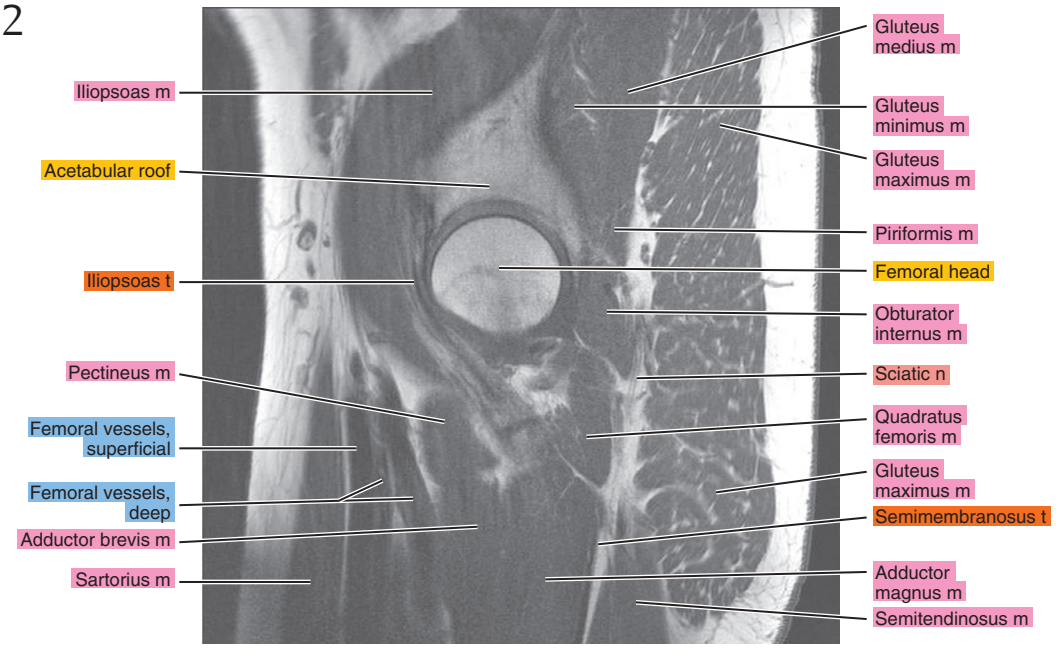
Figure 9.2.11

Figure 9.2.12



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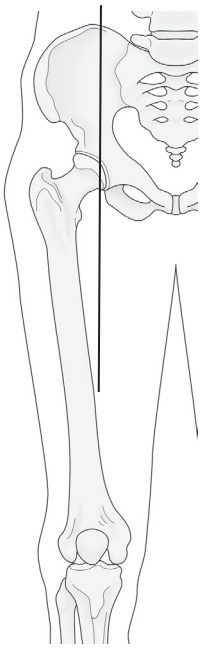

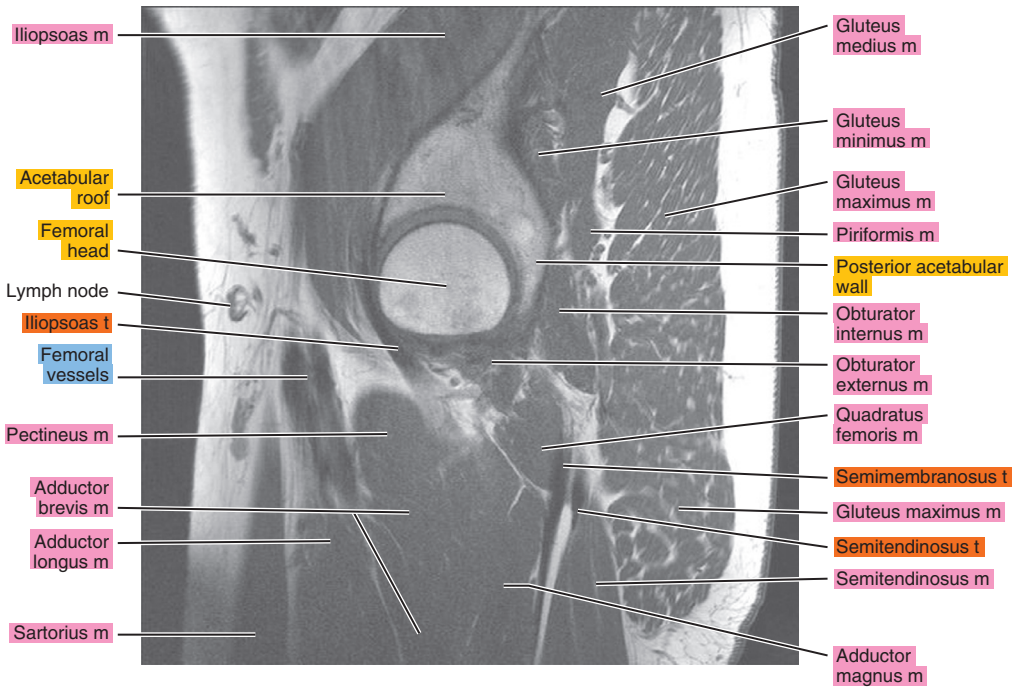

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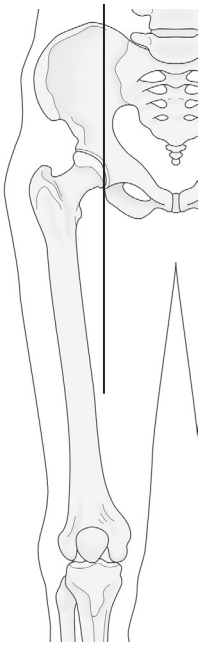

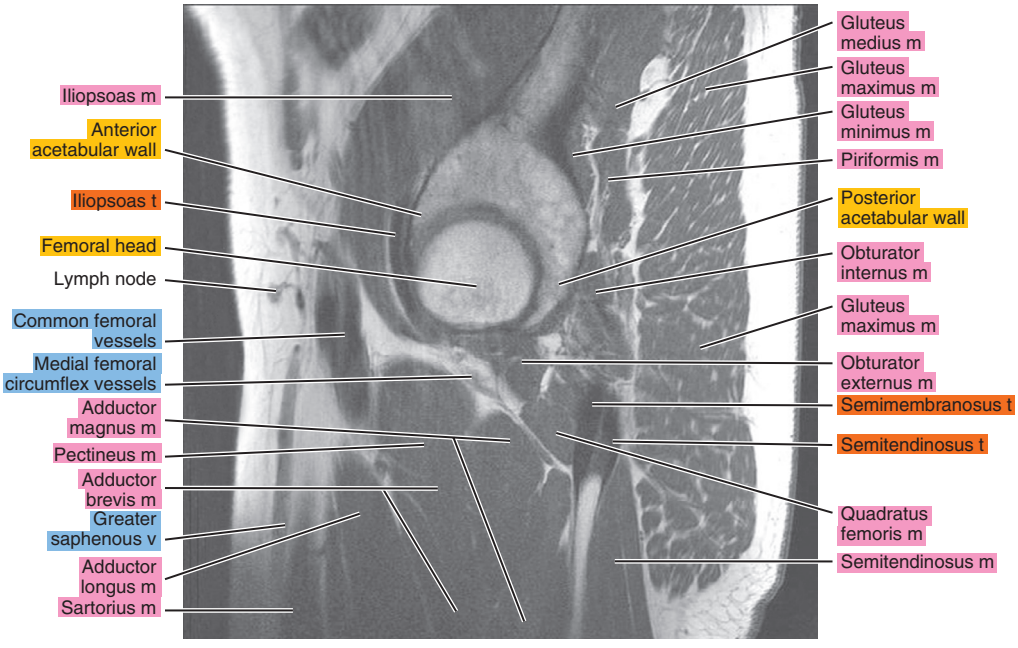

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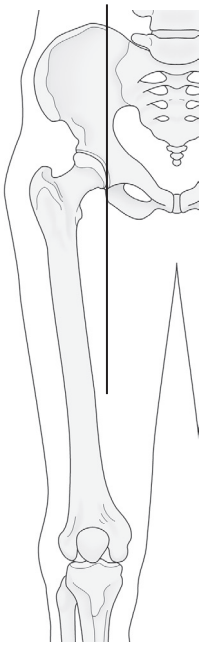

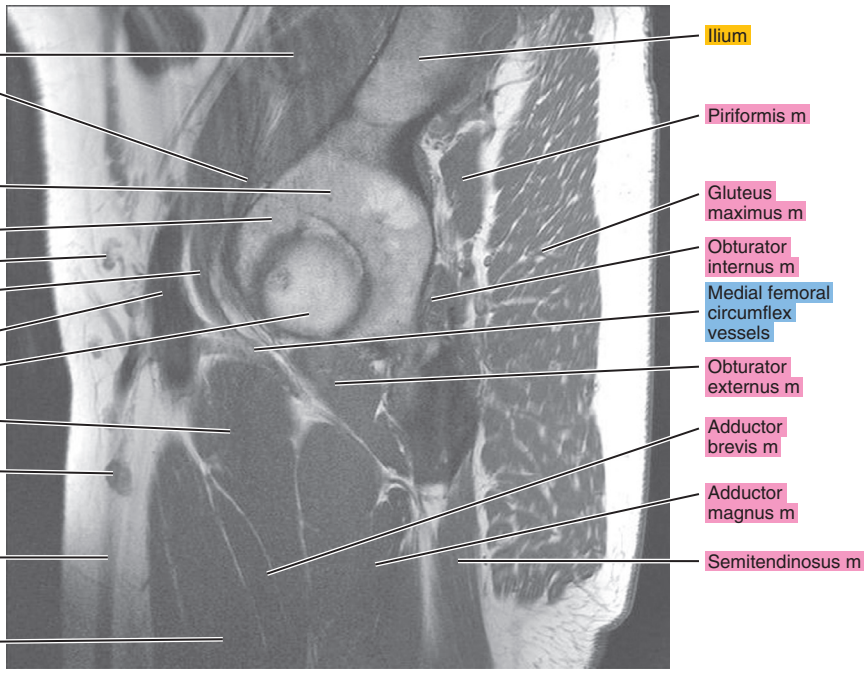

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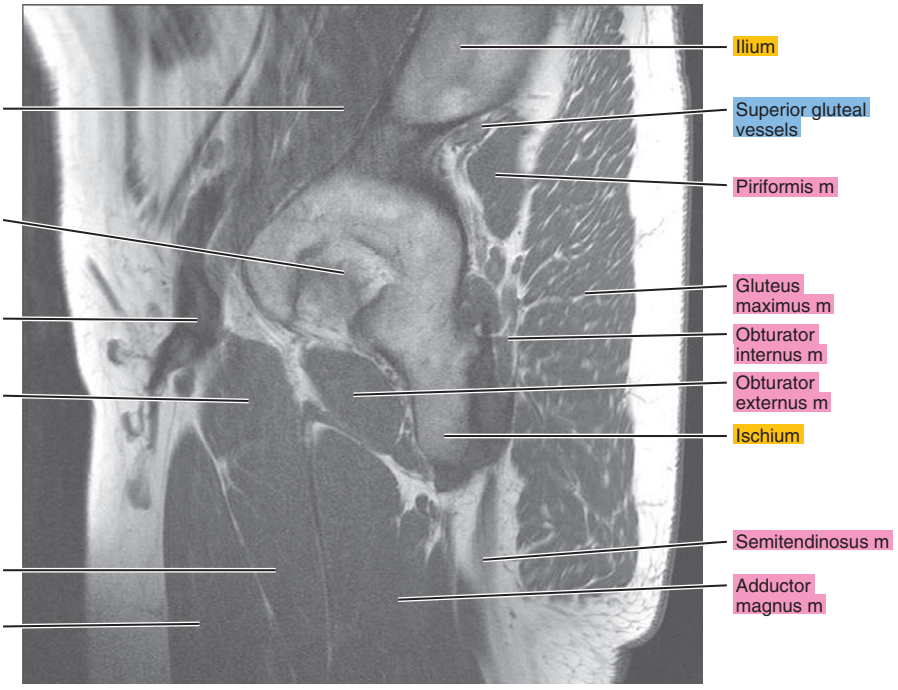

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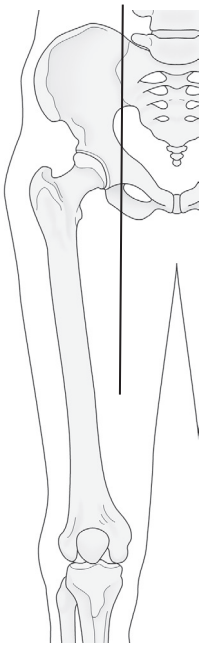

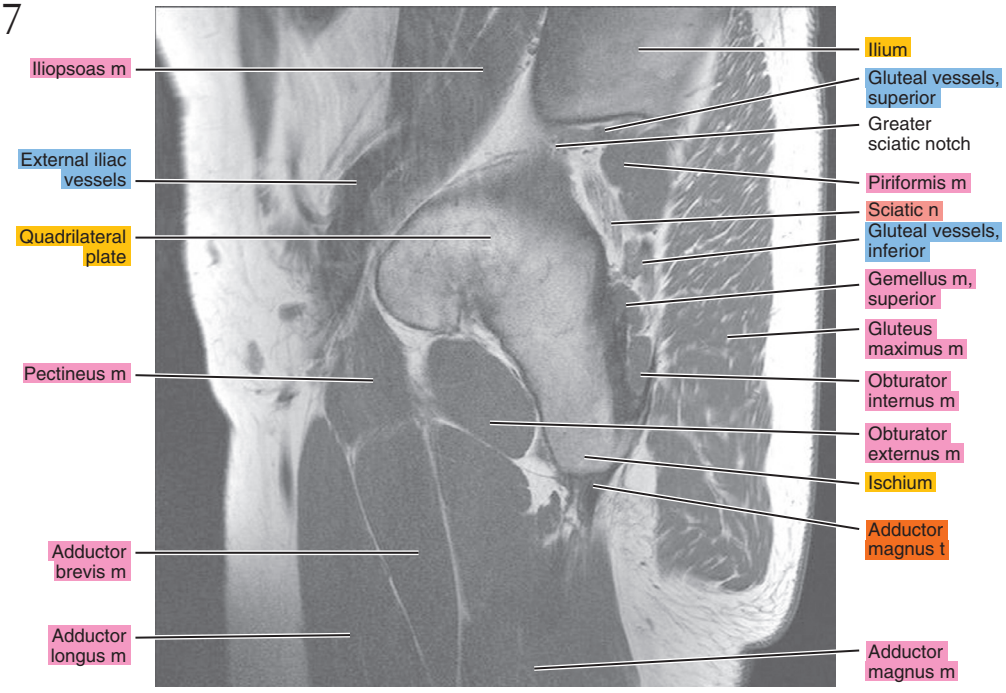

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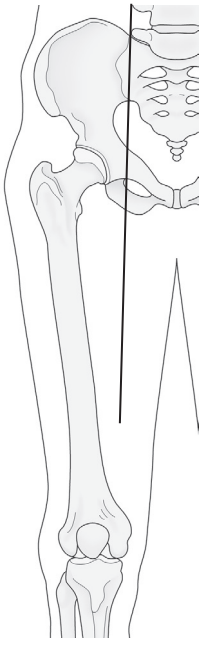

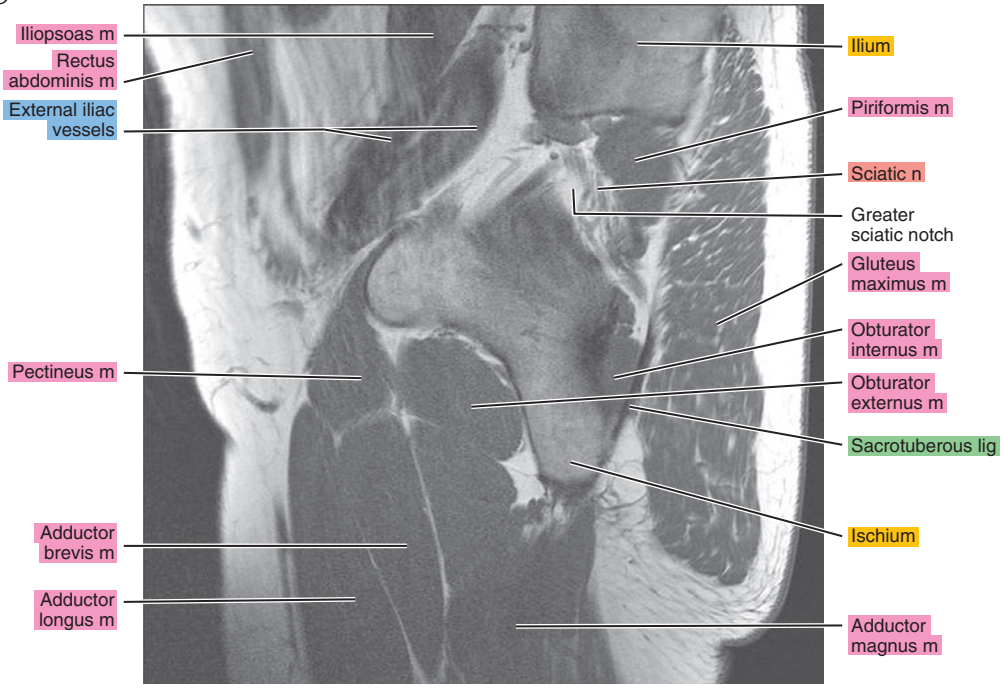

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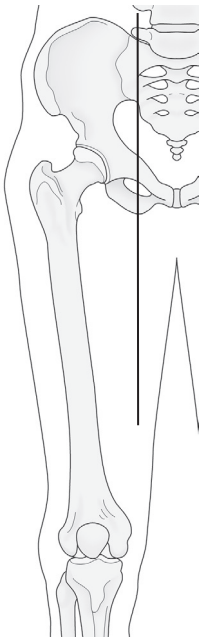

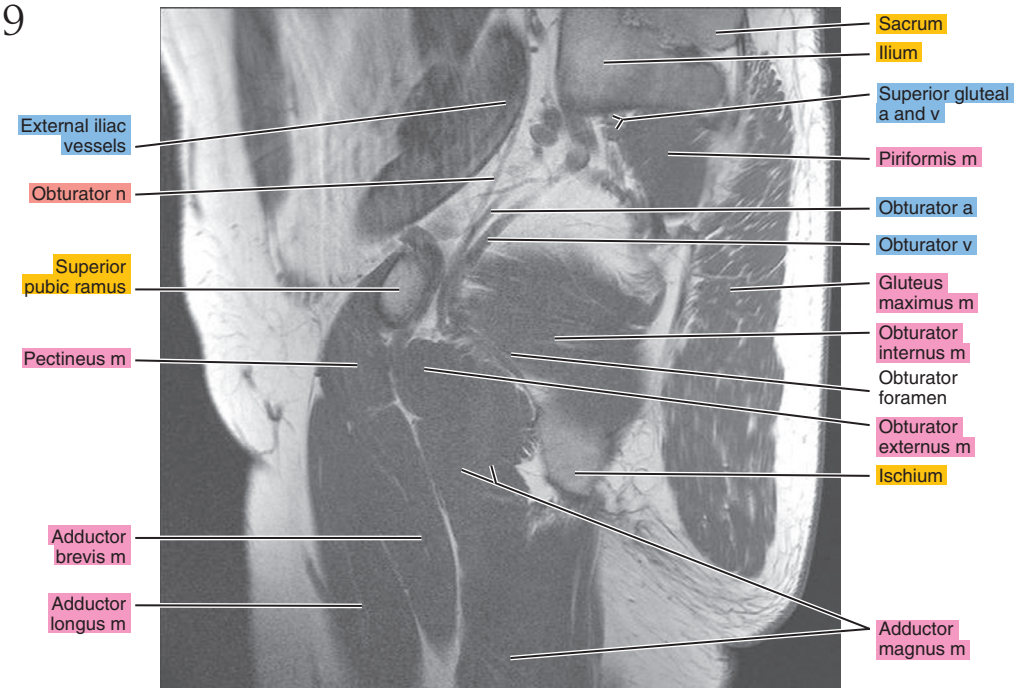

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CORONAL

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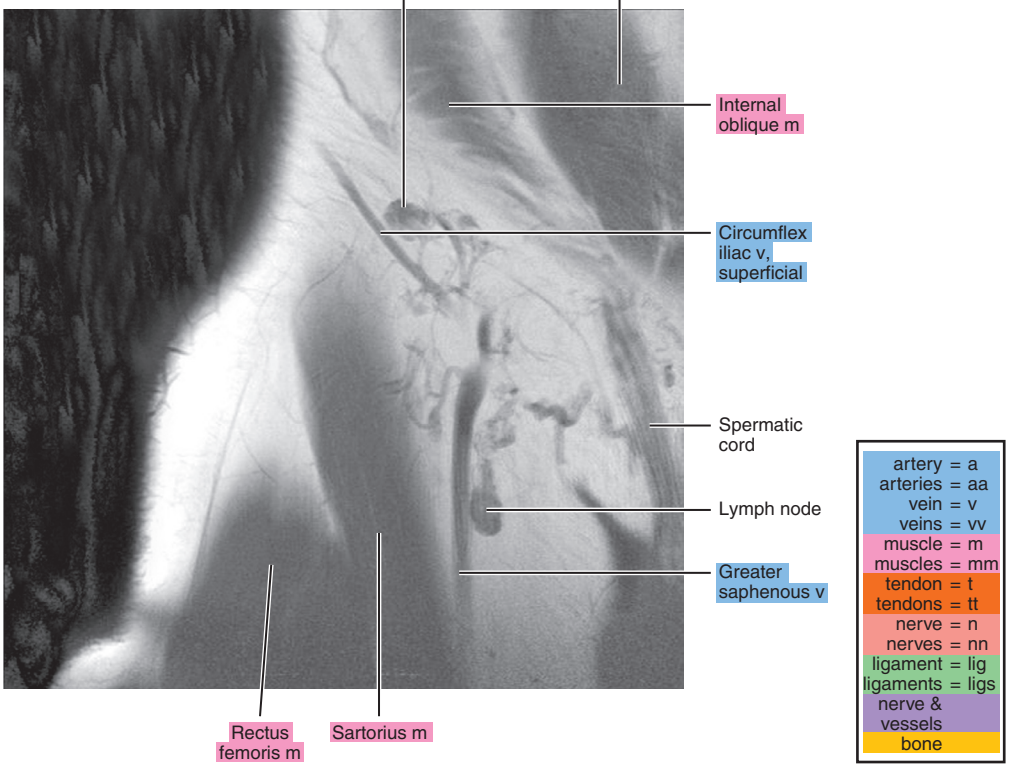

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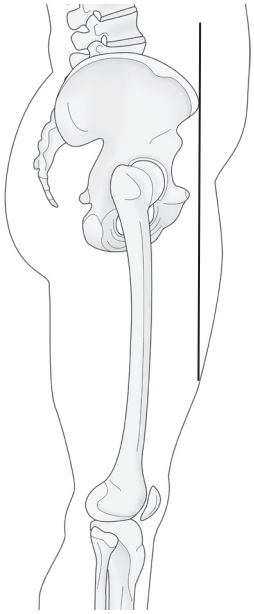

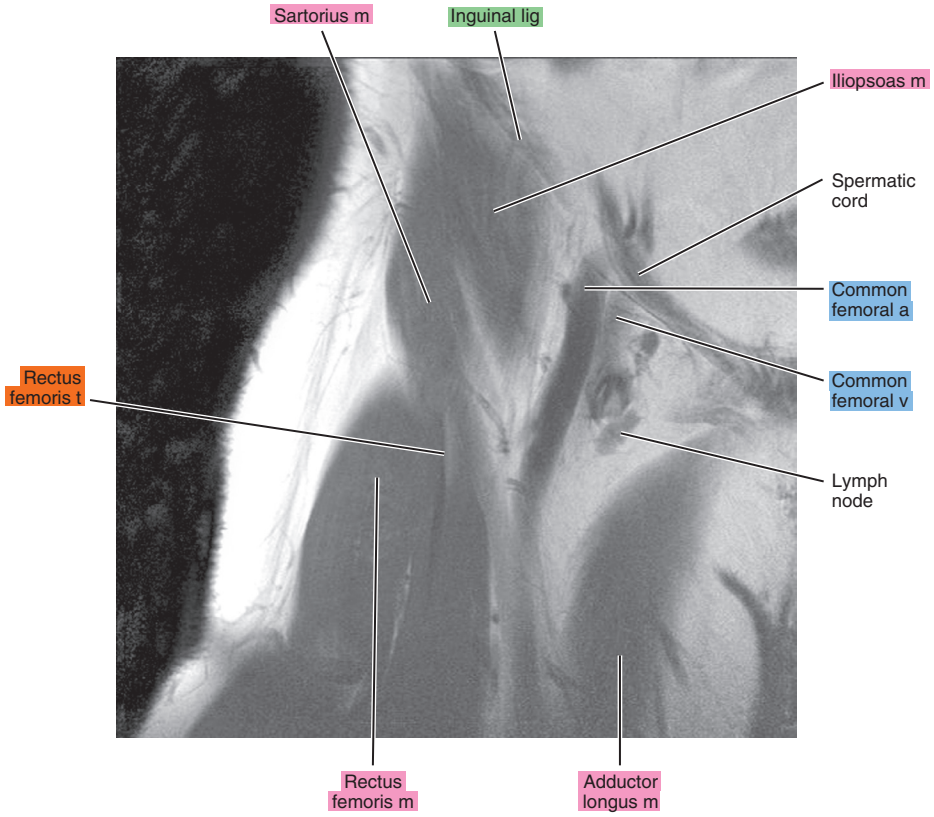

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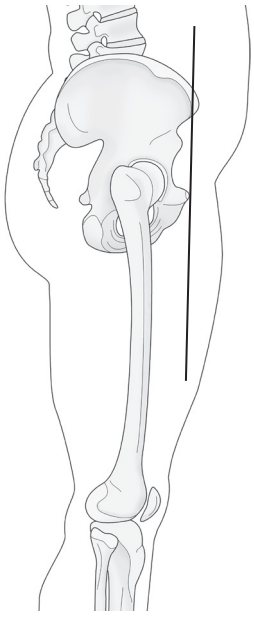

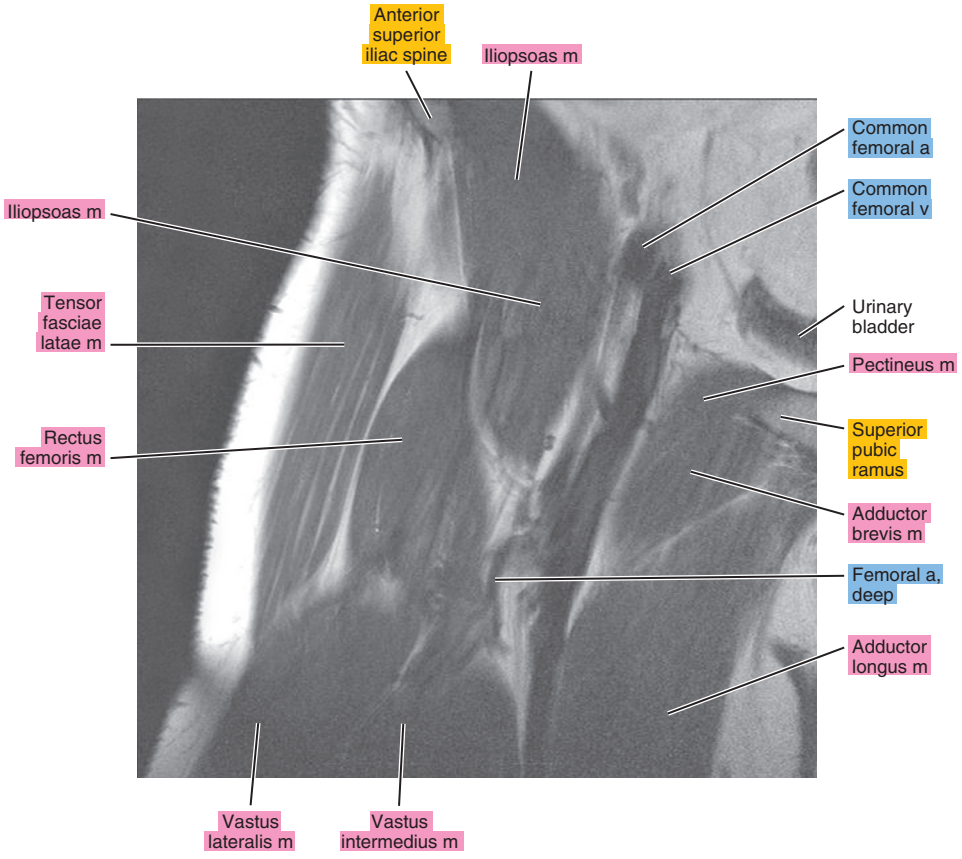

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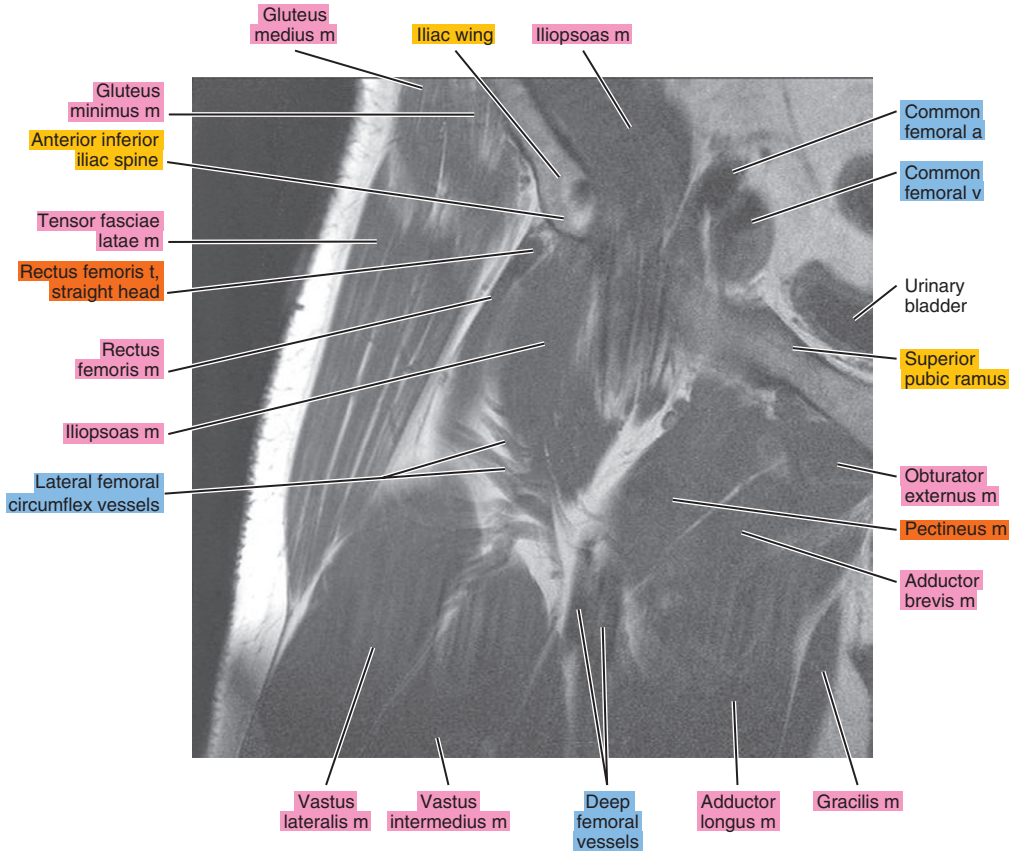

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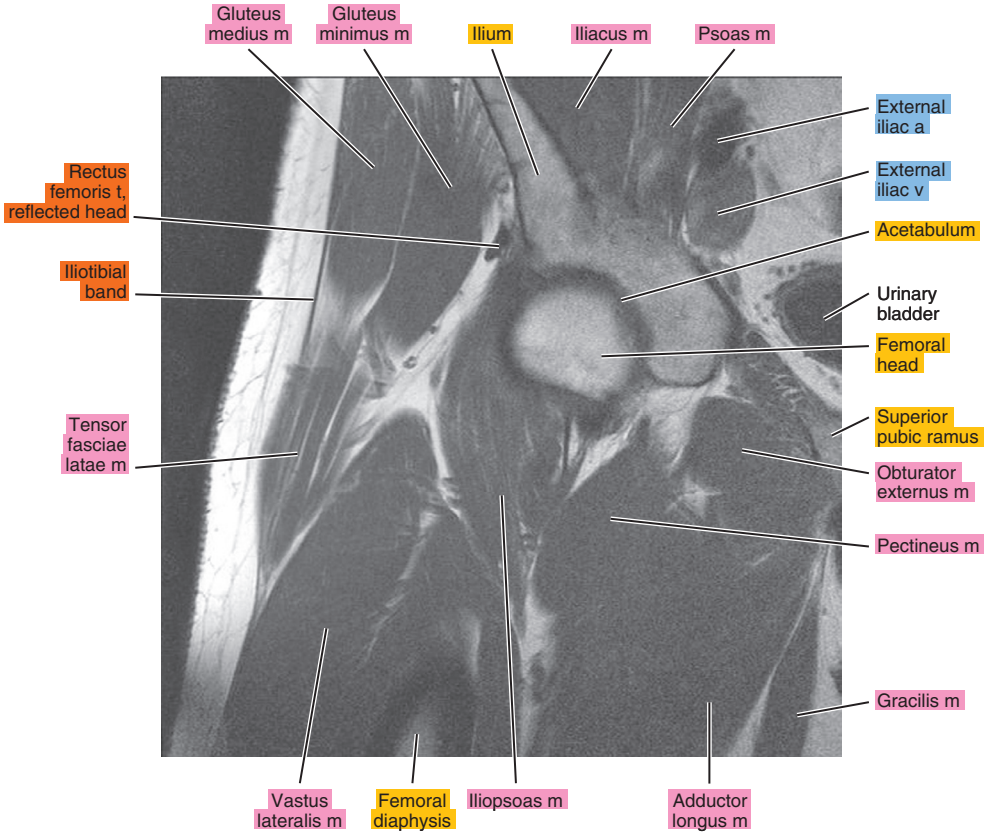

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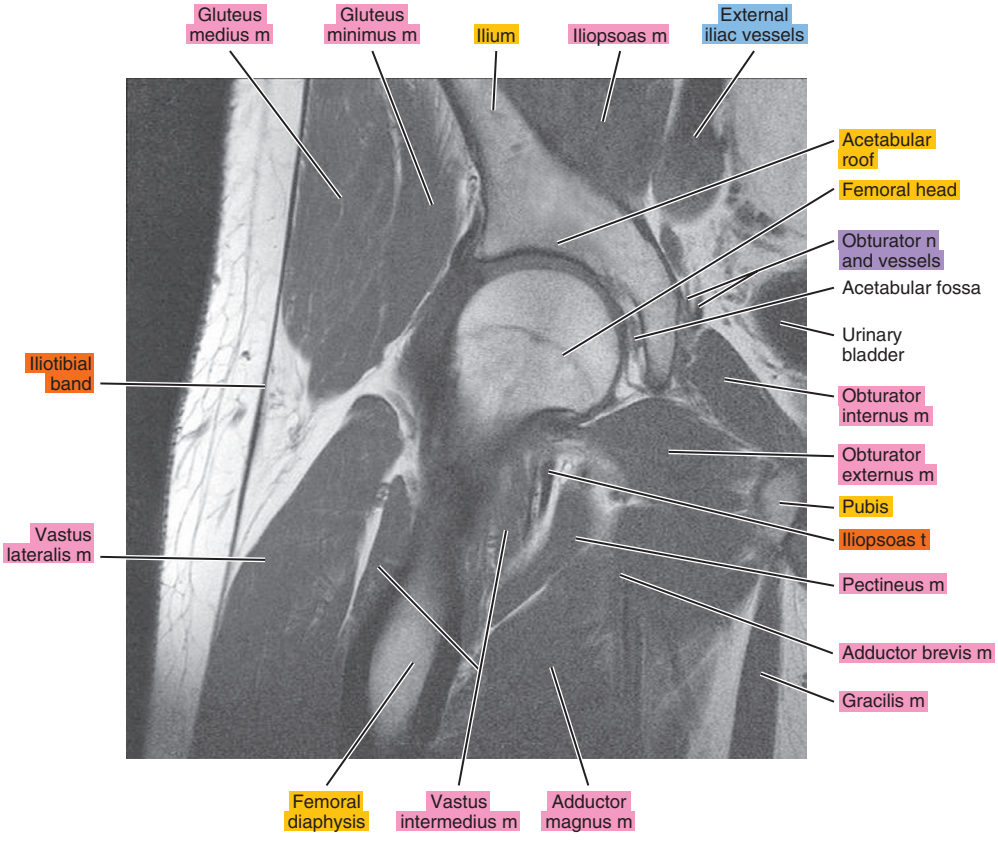

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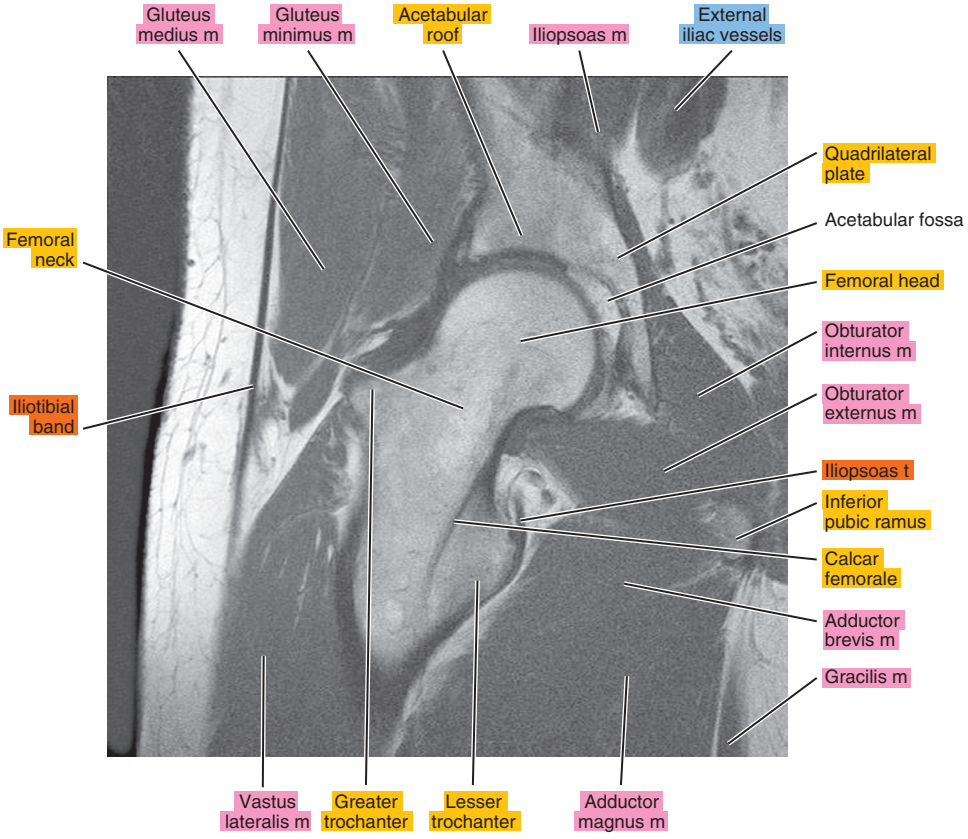

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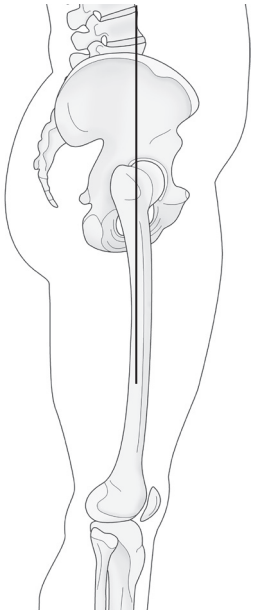

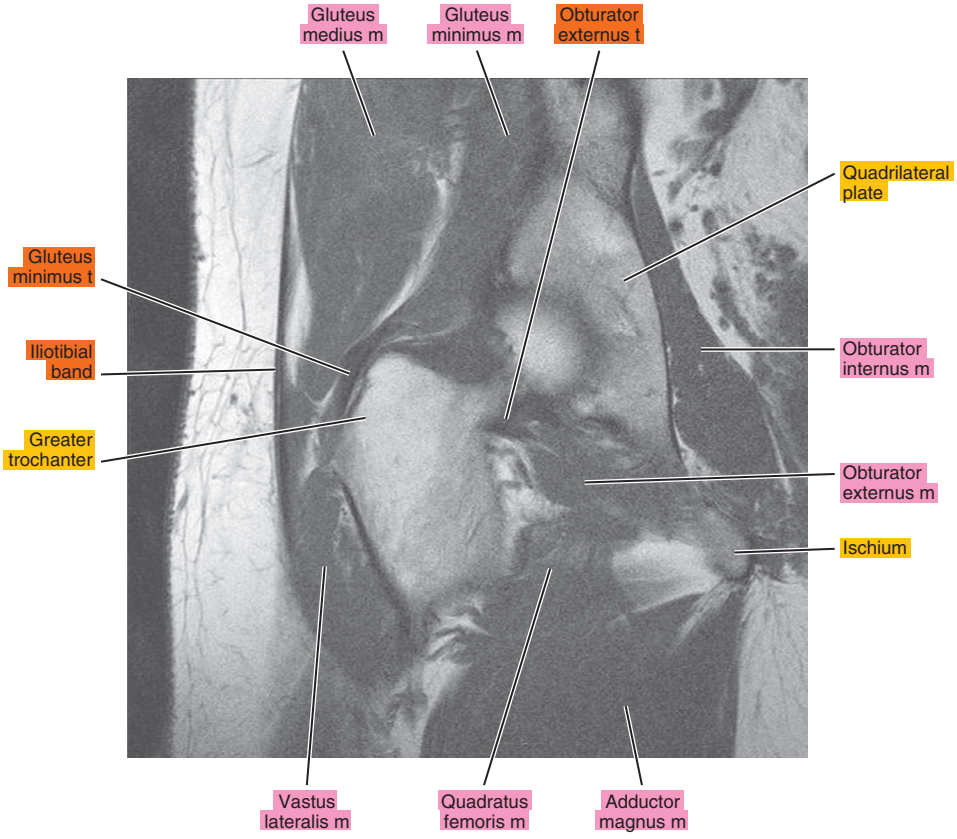

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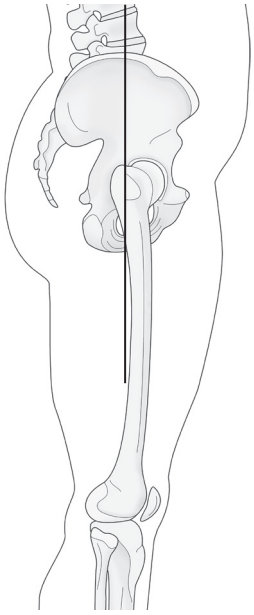

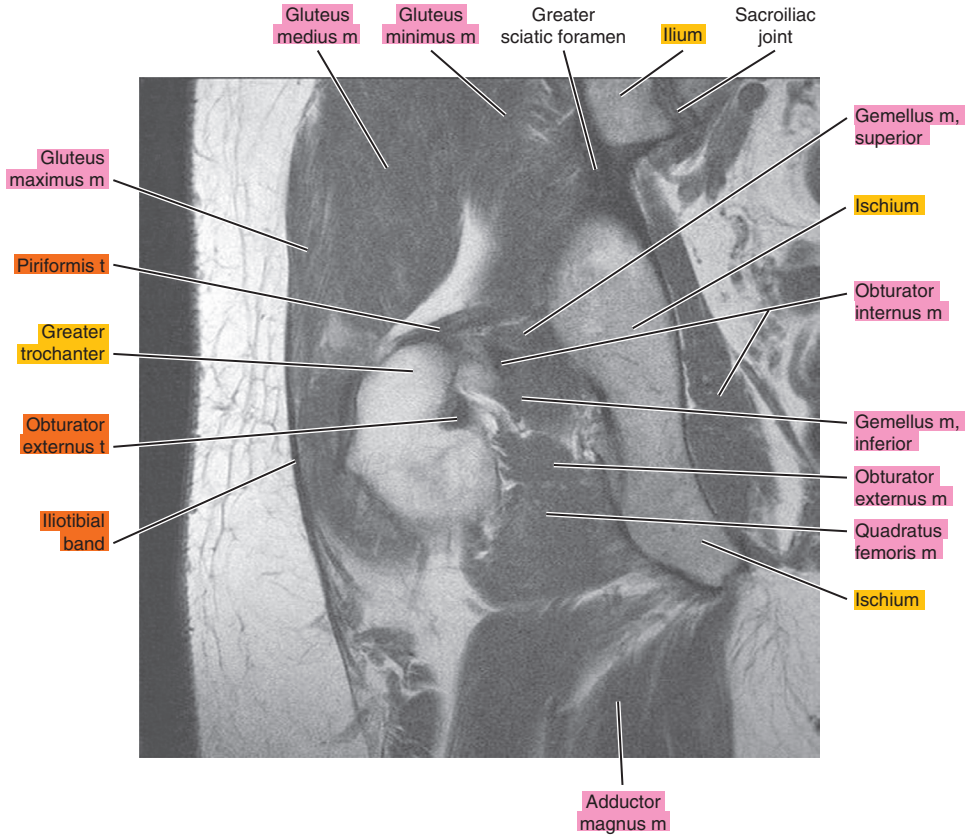

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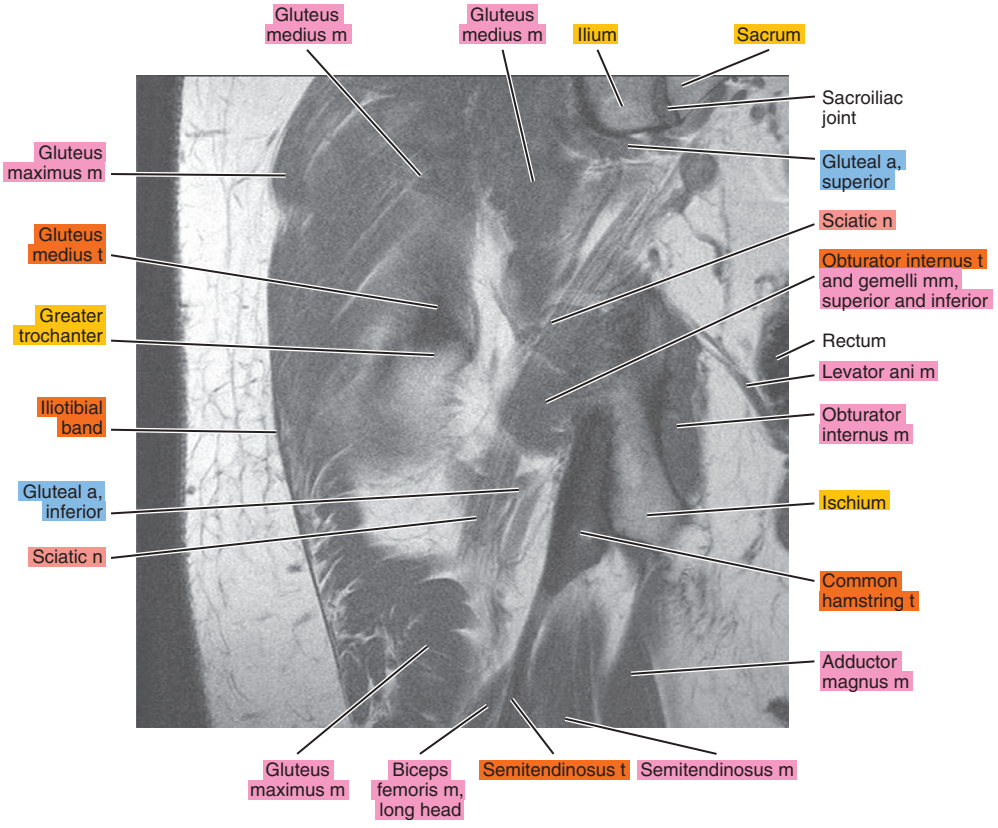

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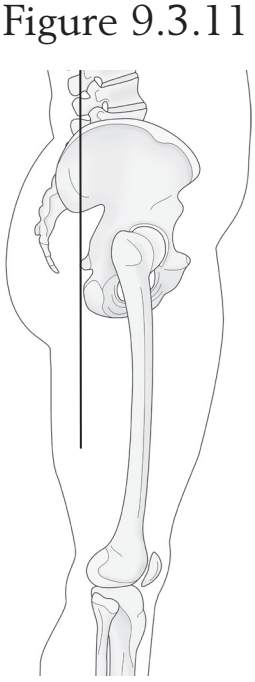

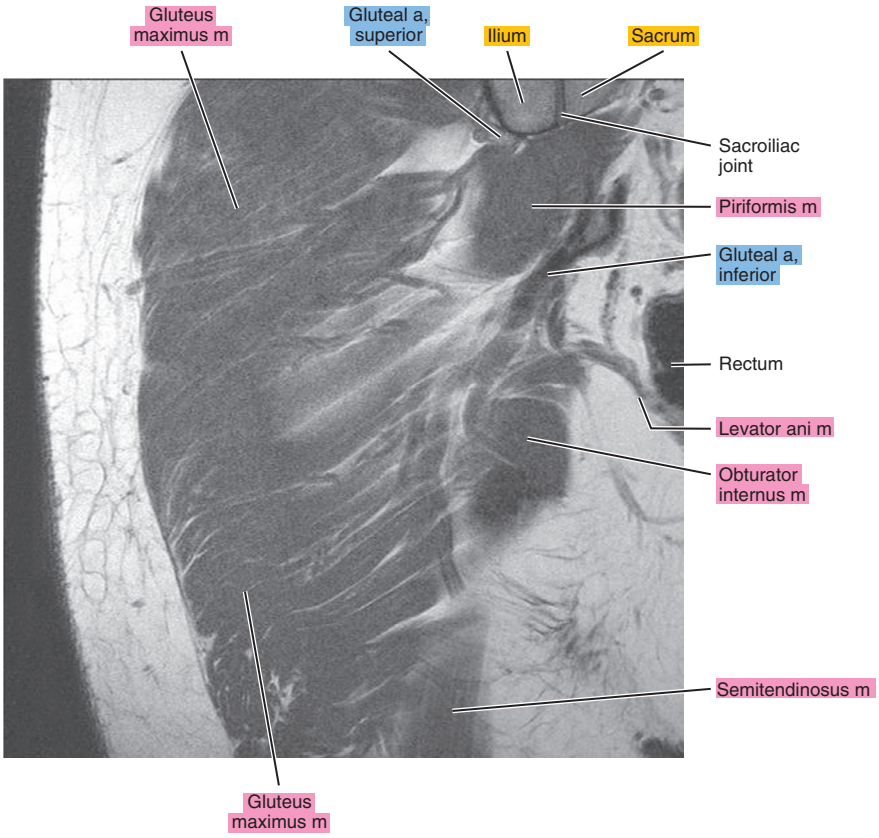

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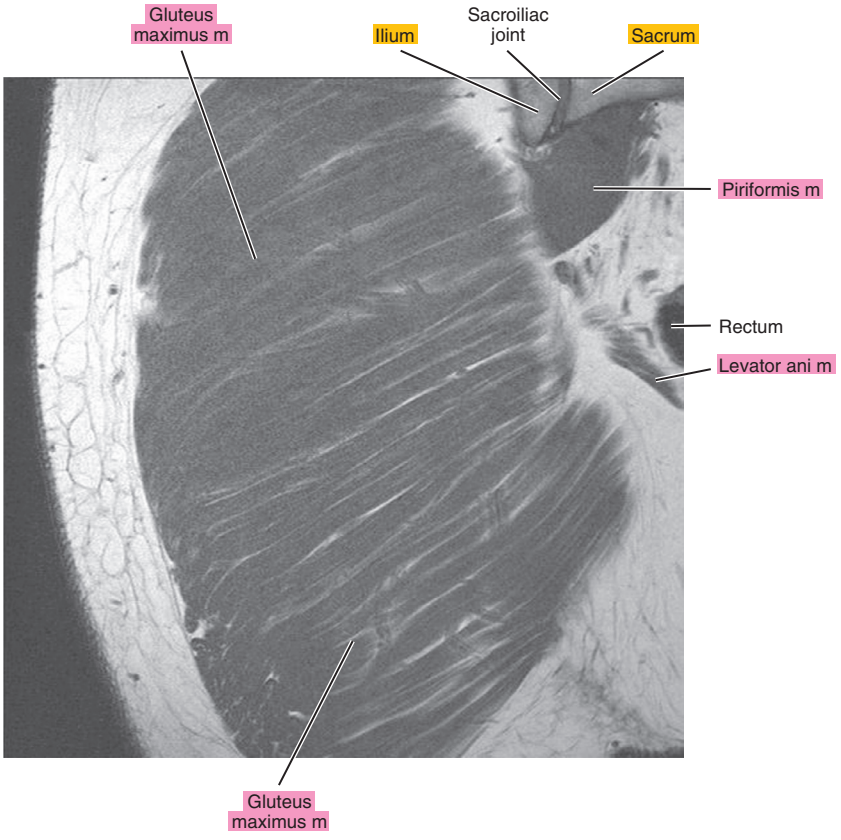

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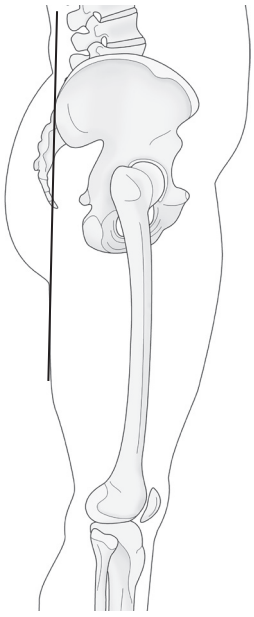

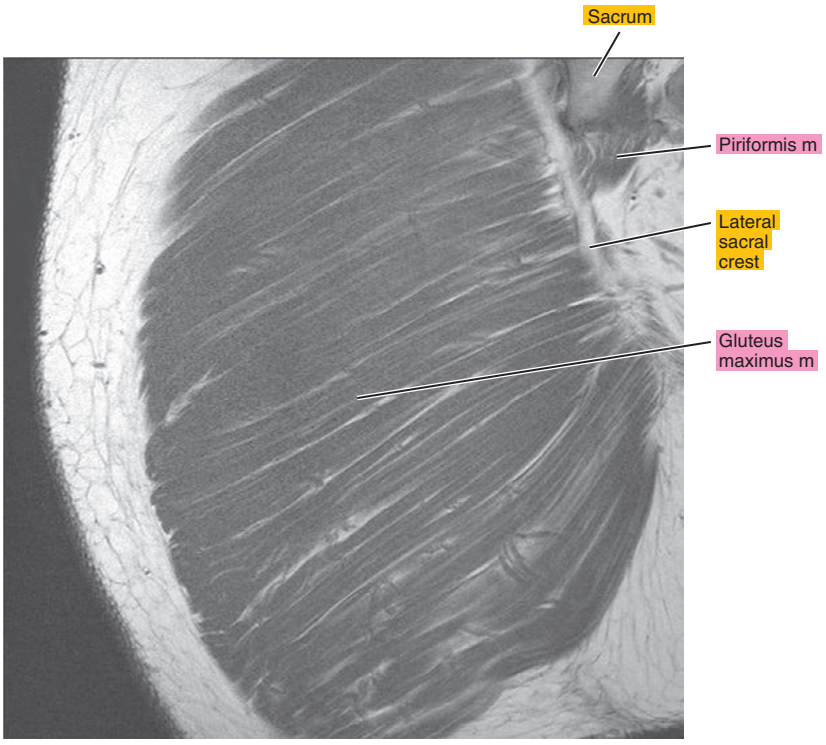

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Chapter

10

MR Arthrography of the Hip

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AXIAL

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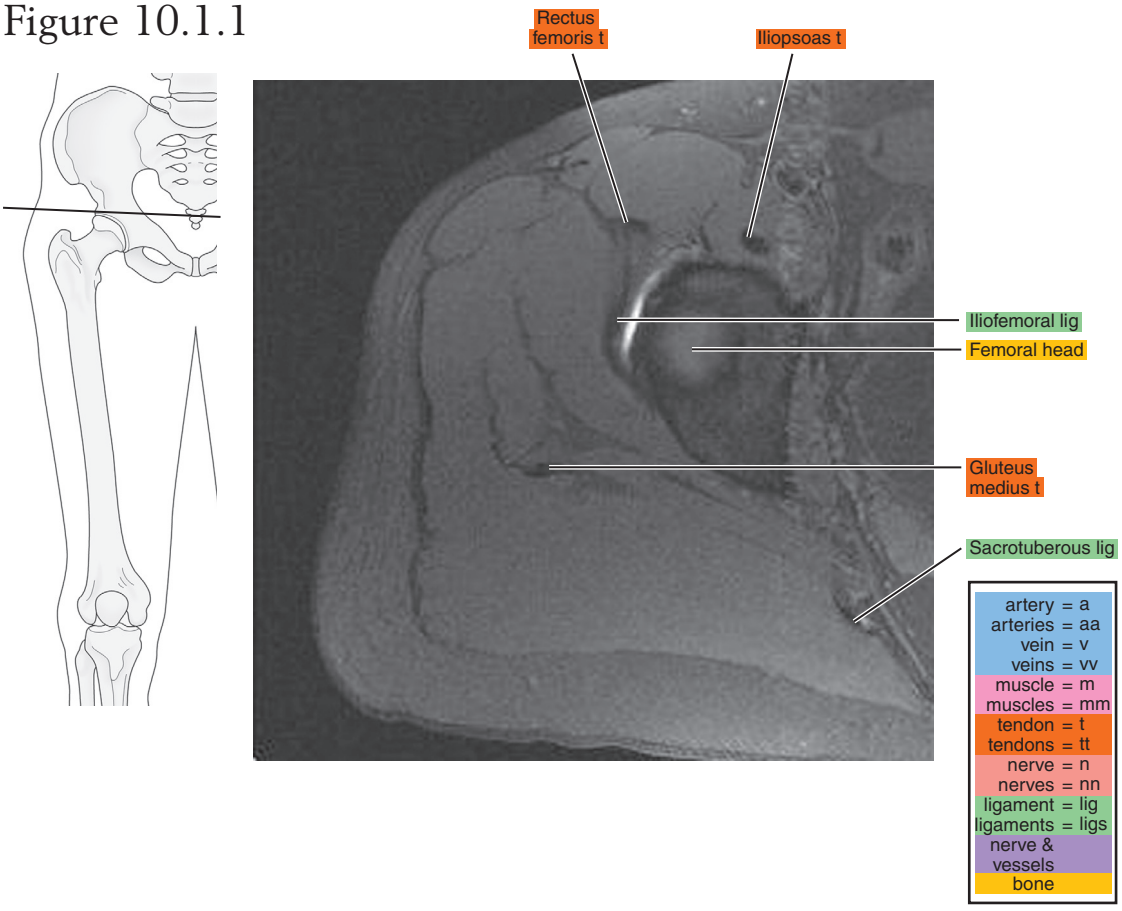

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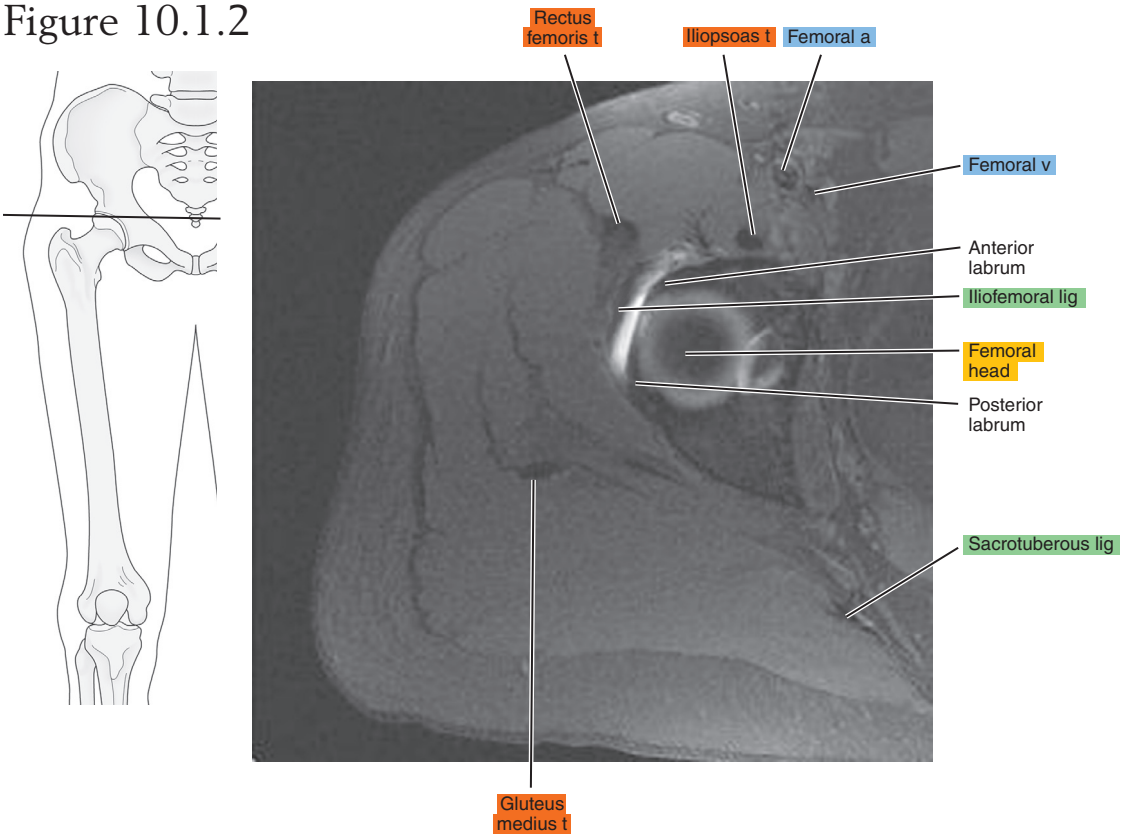

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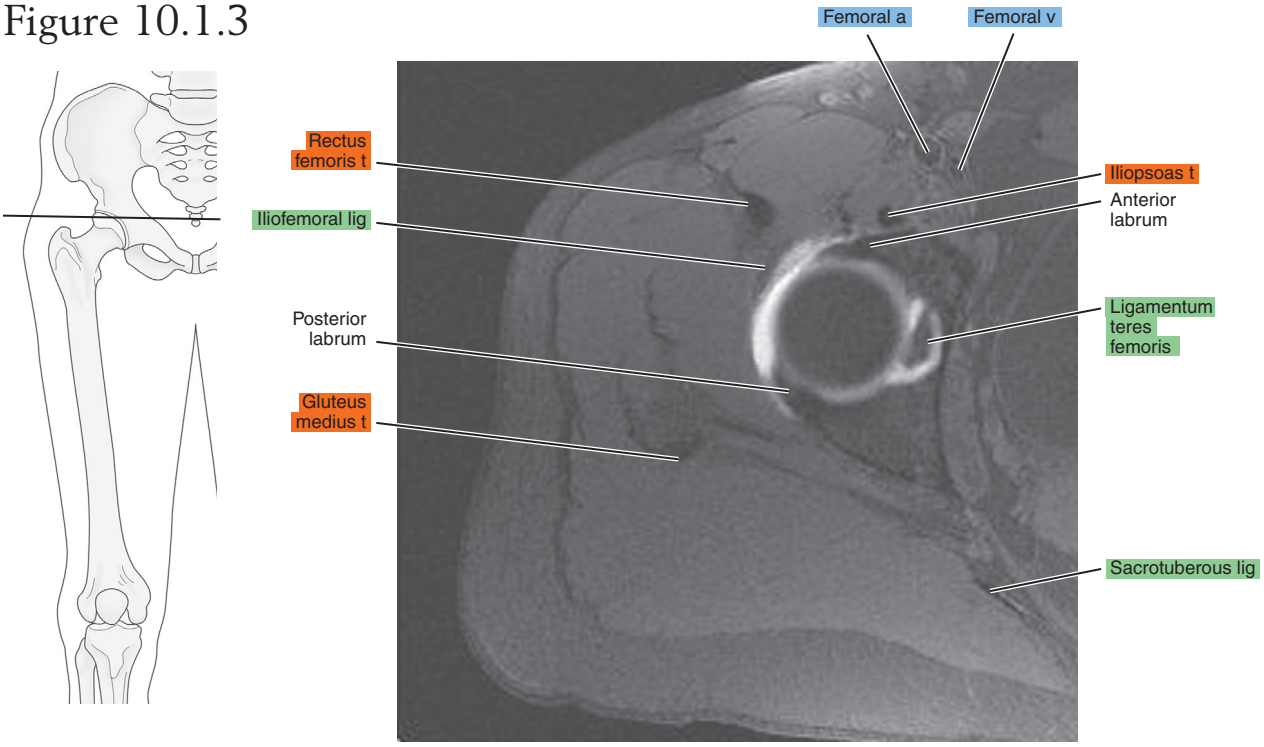

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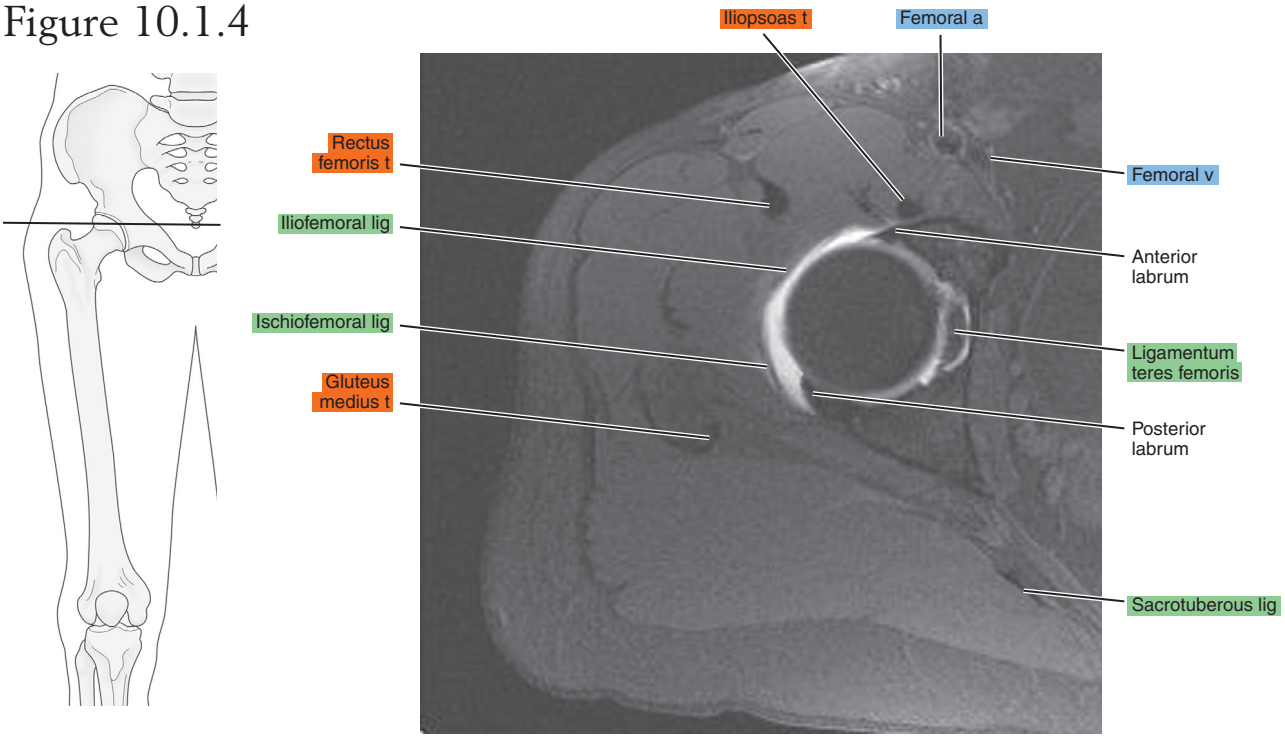

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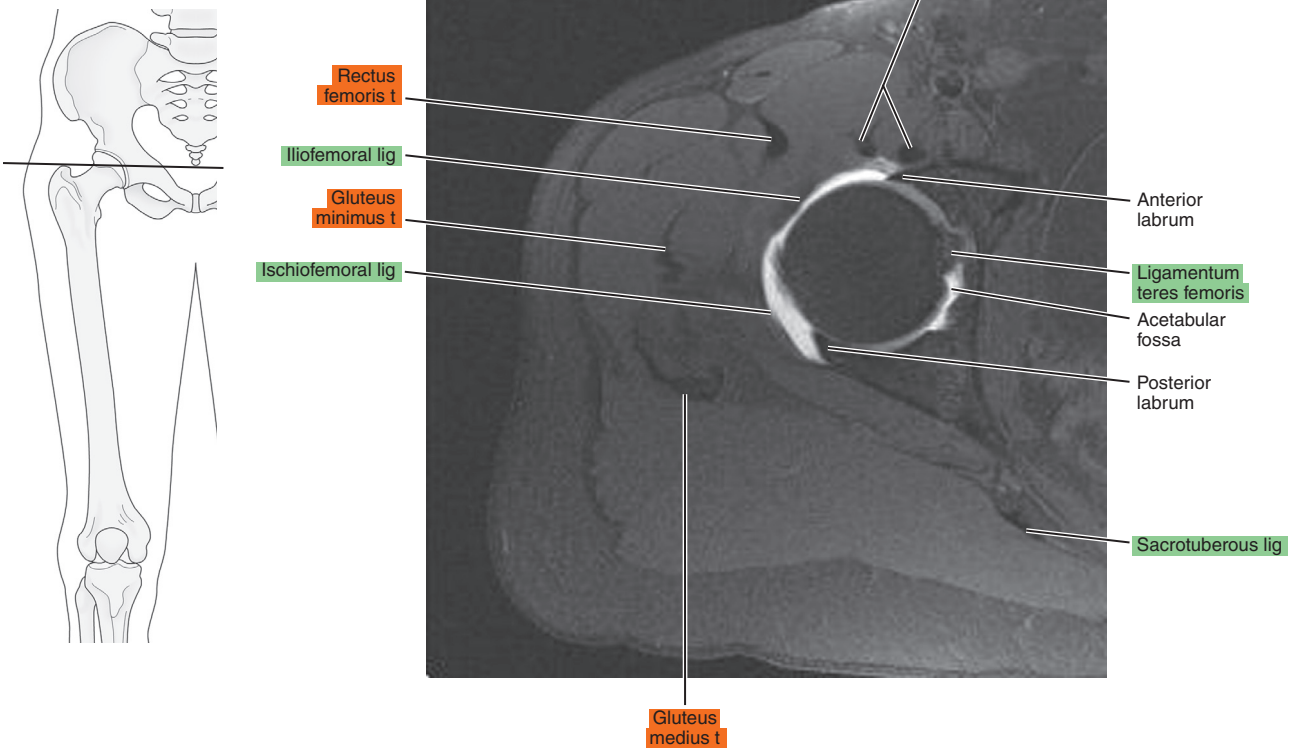

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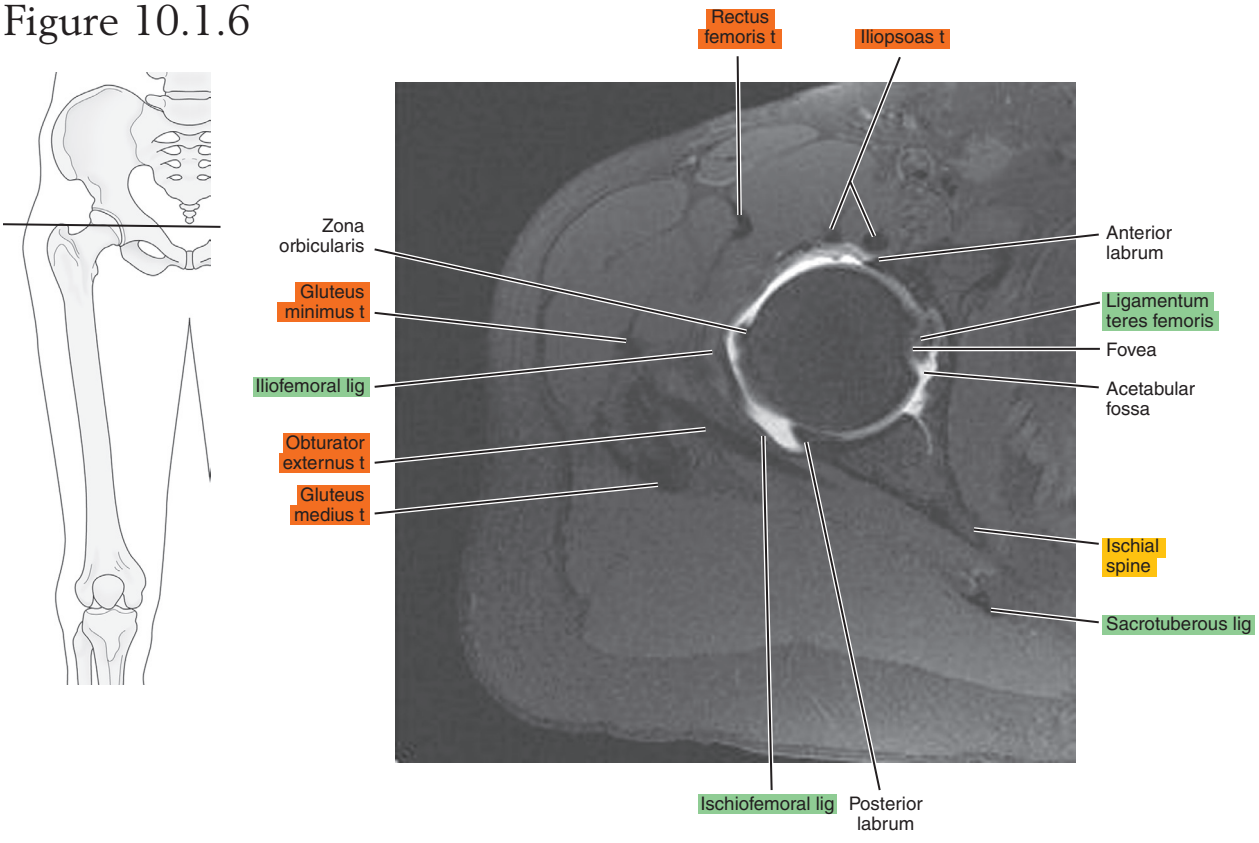

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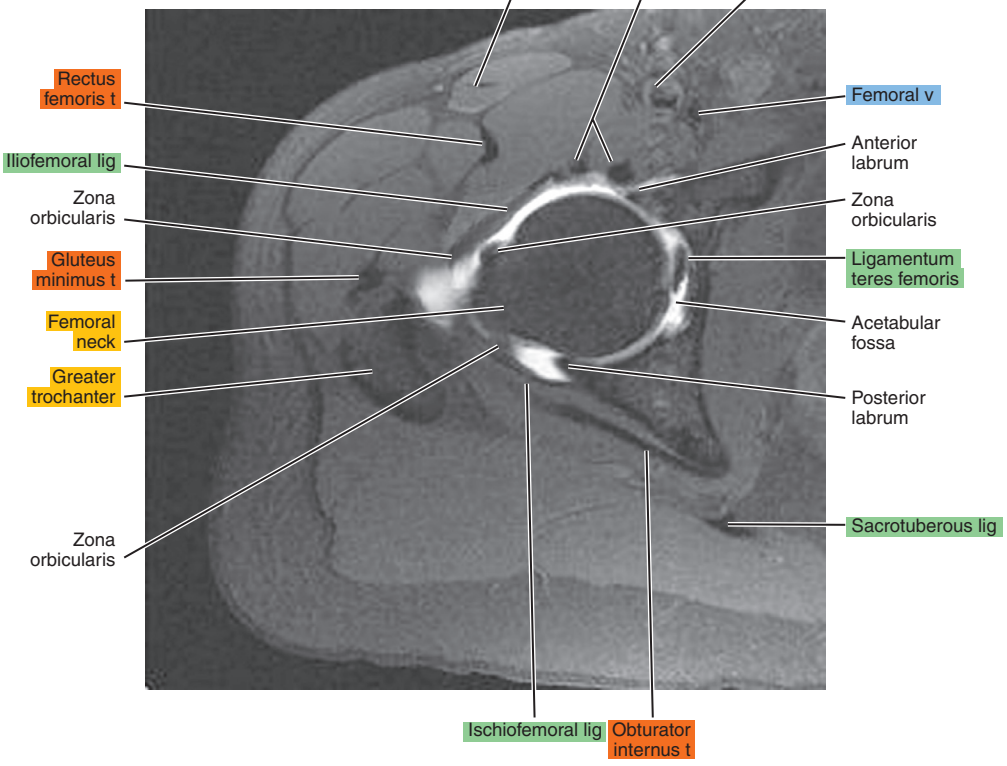

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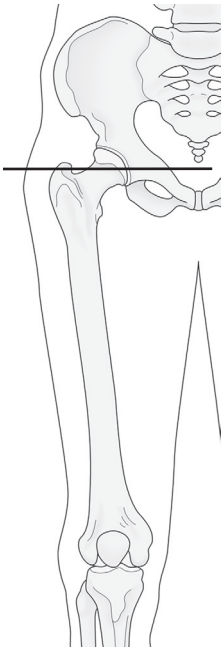

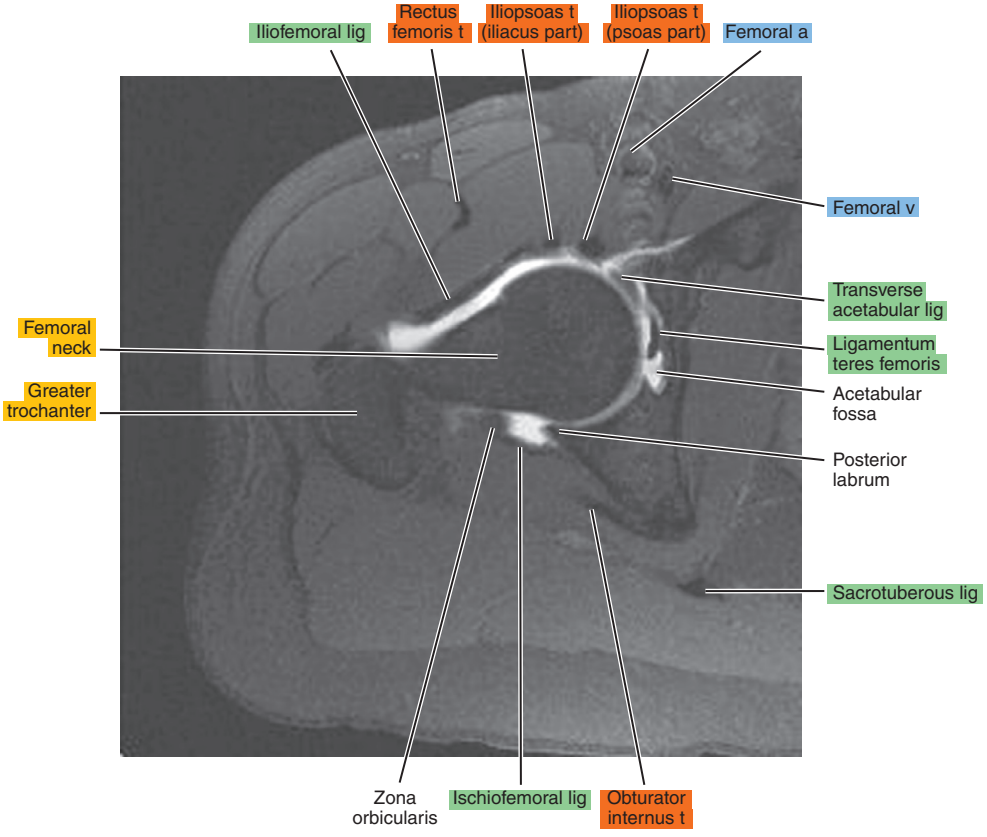

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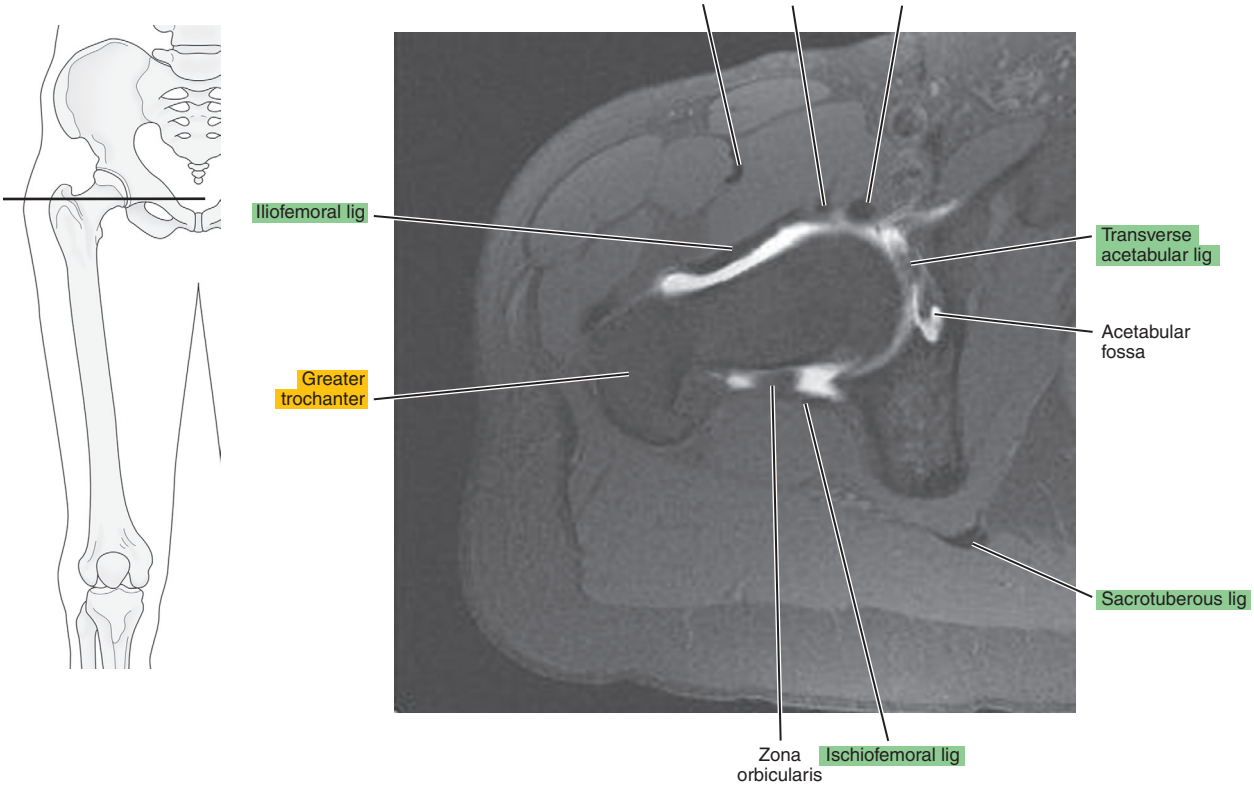

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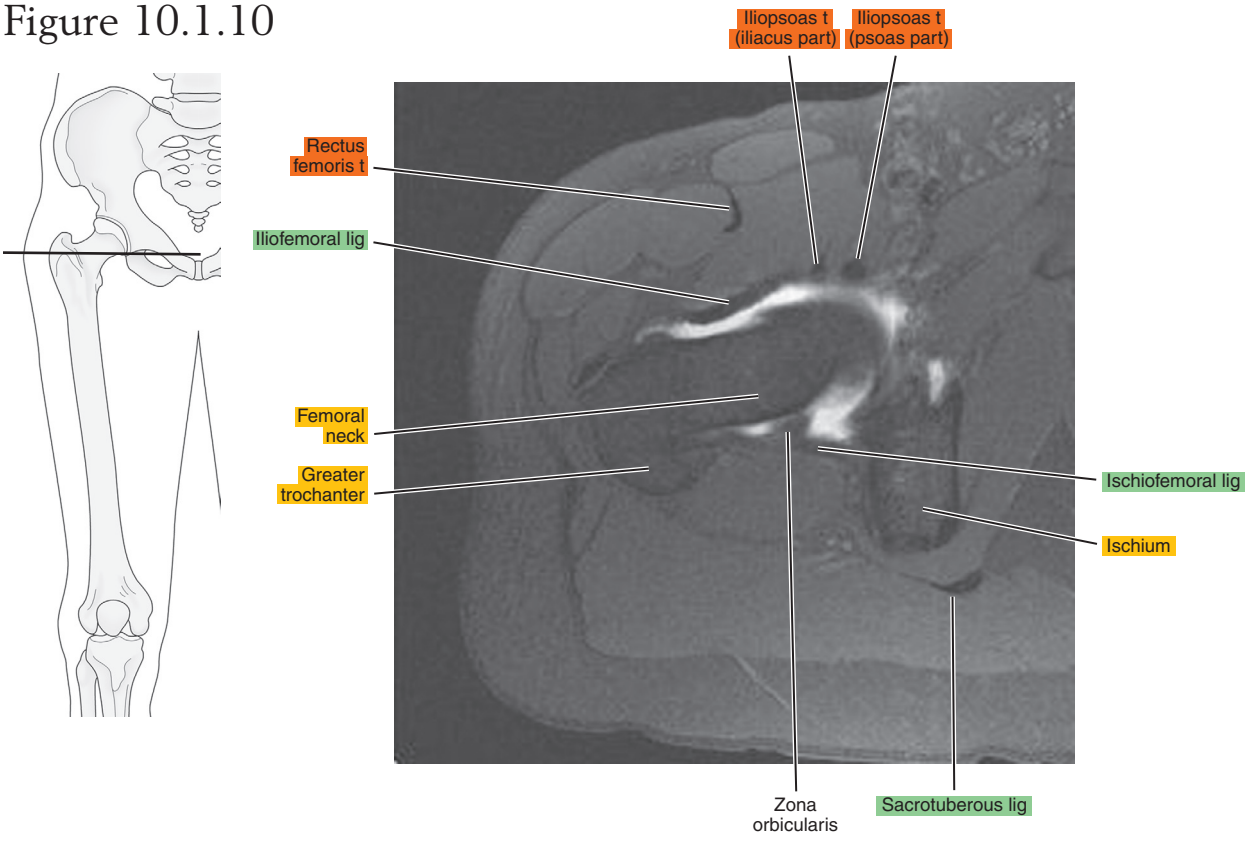

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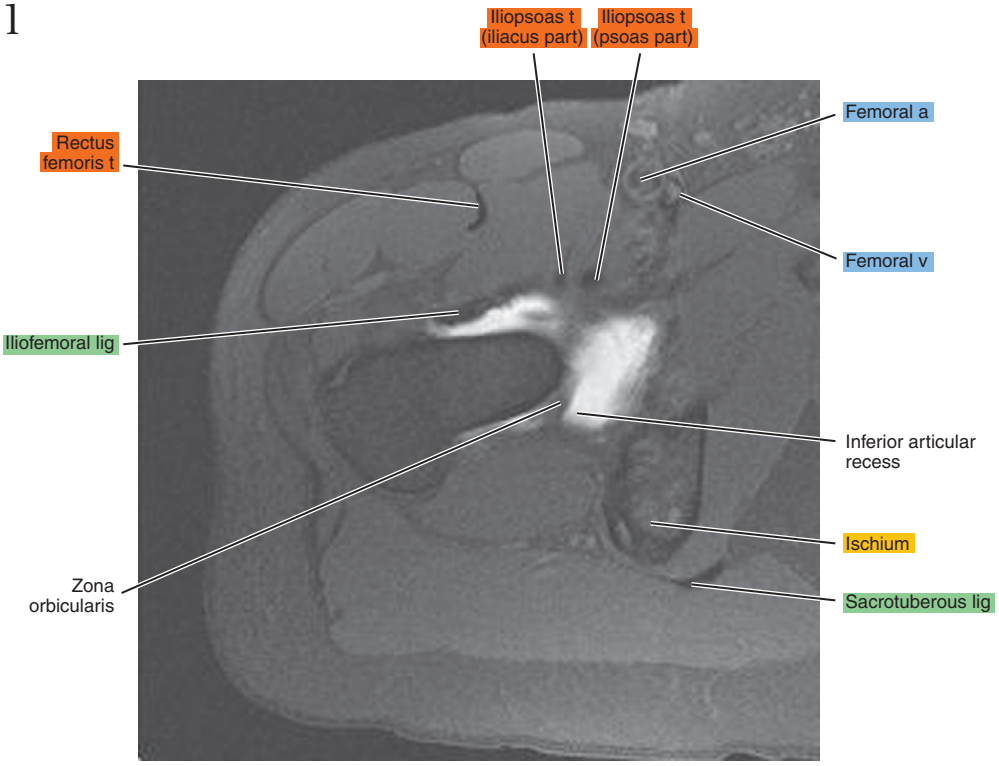

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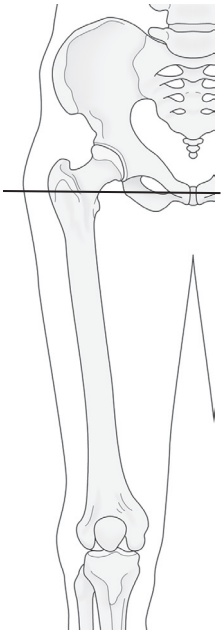

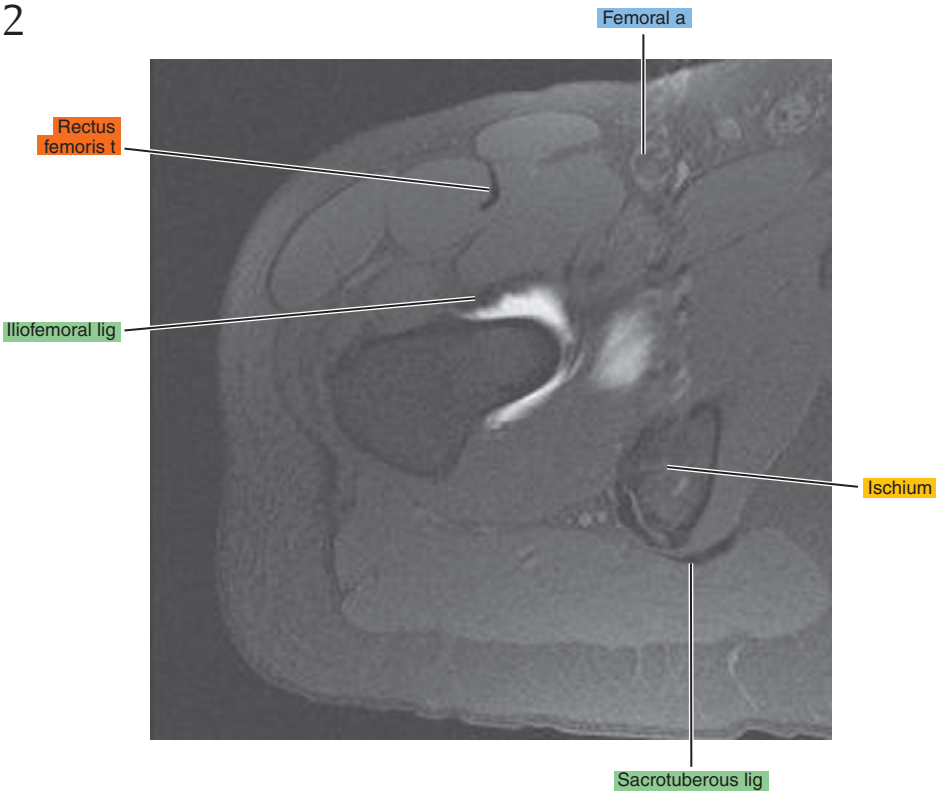

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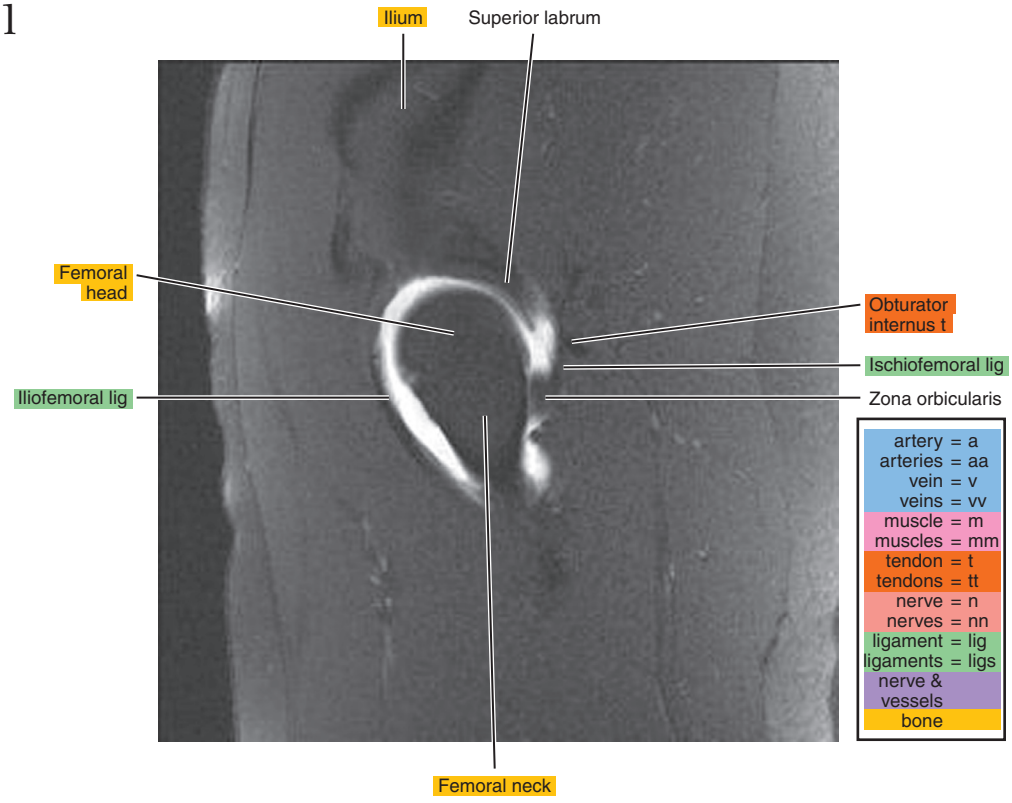

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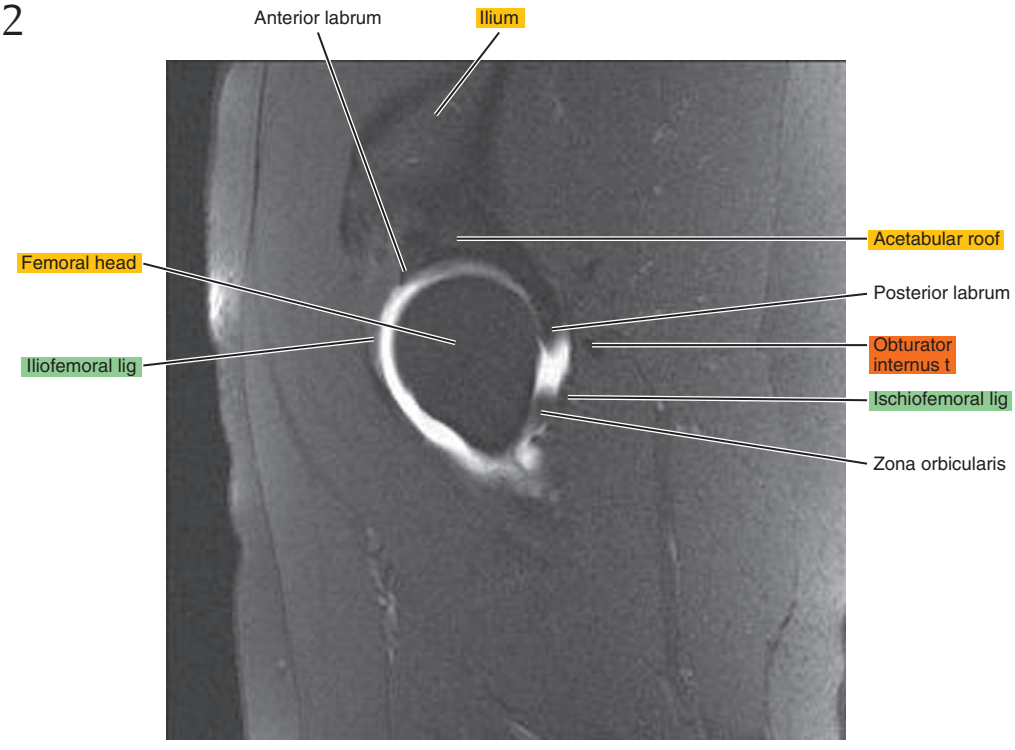

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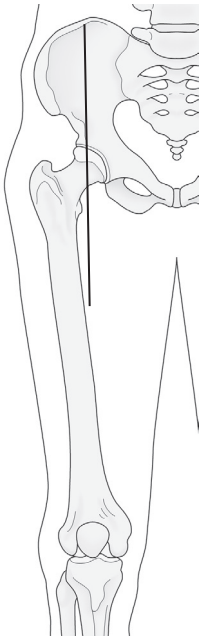

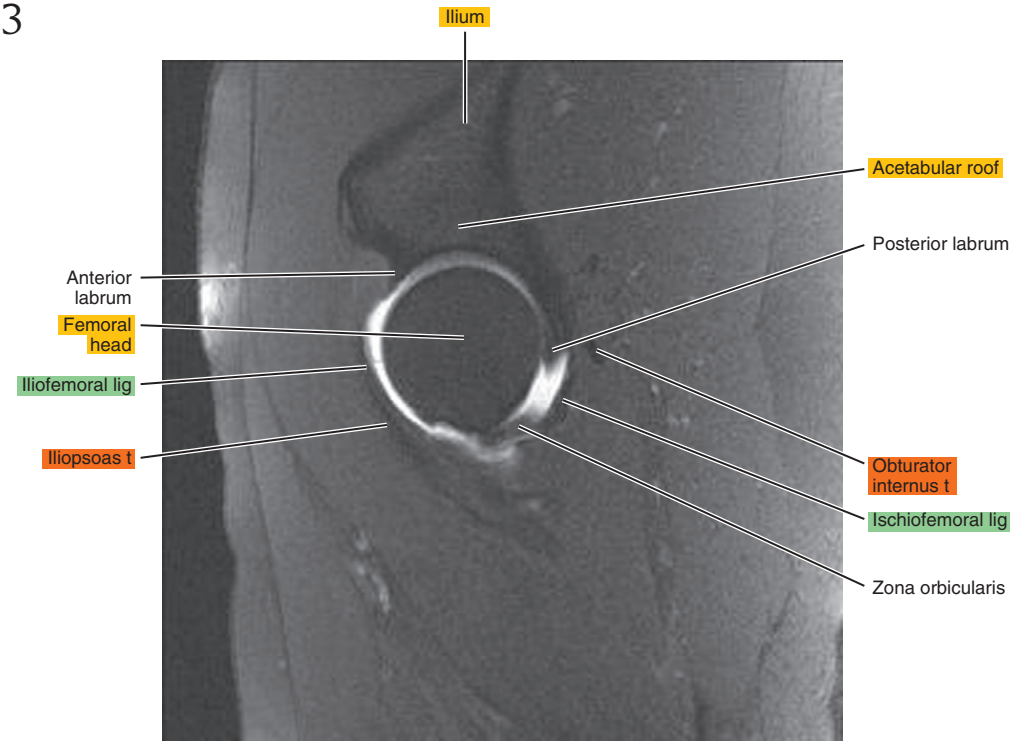

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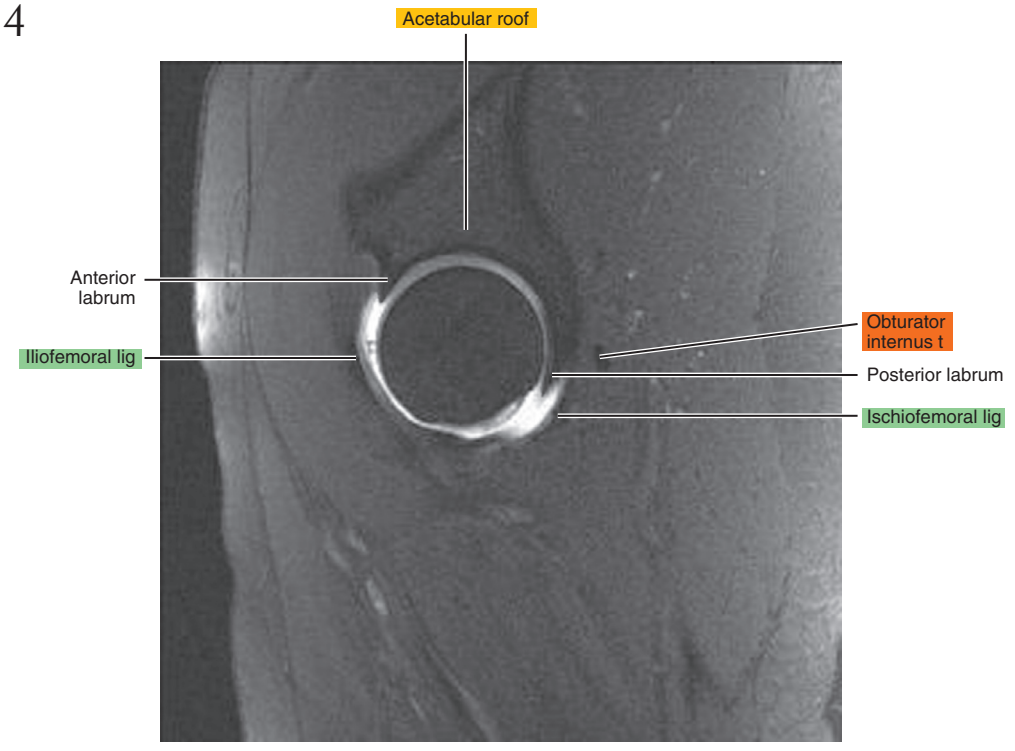

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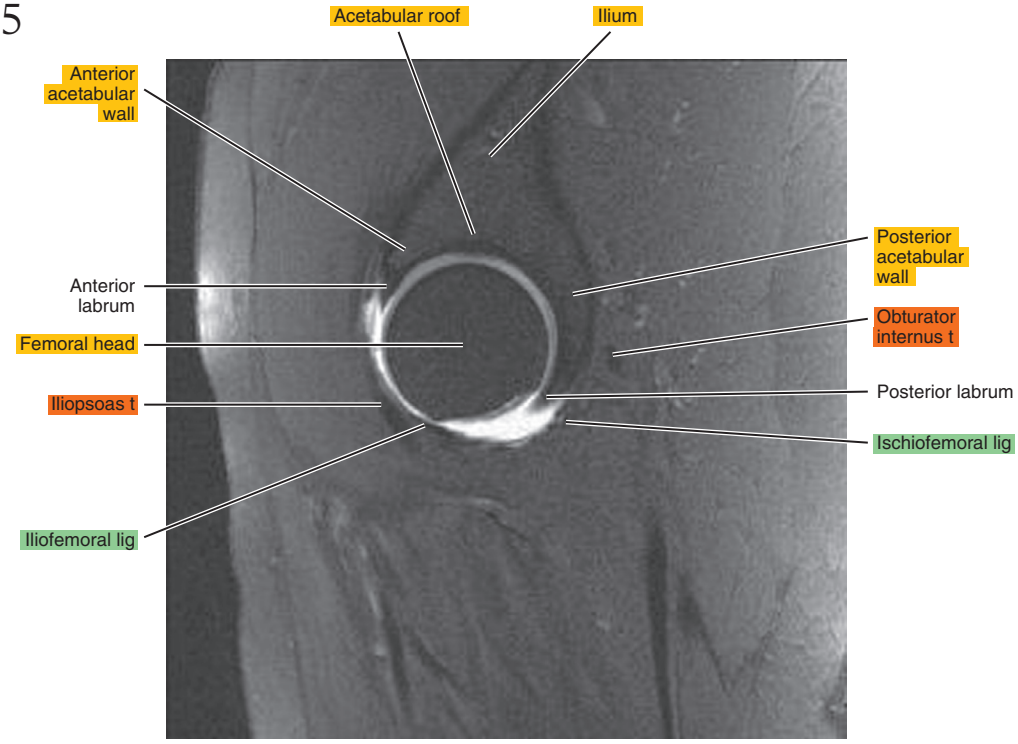

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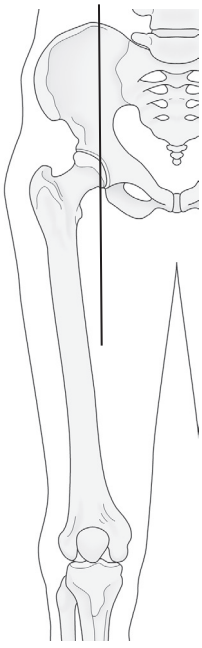

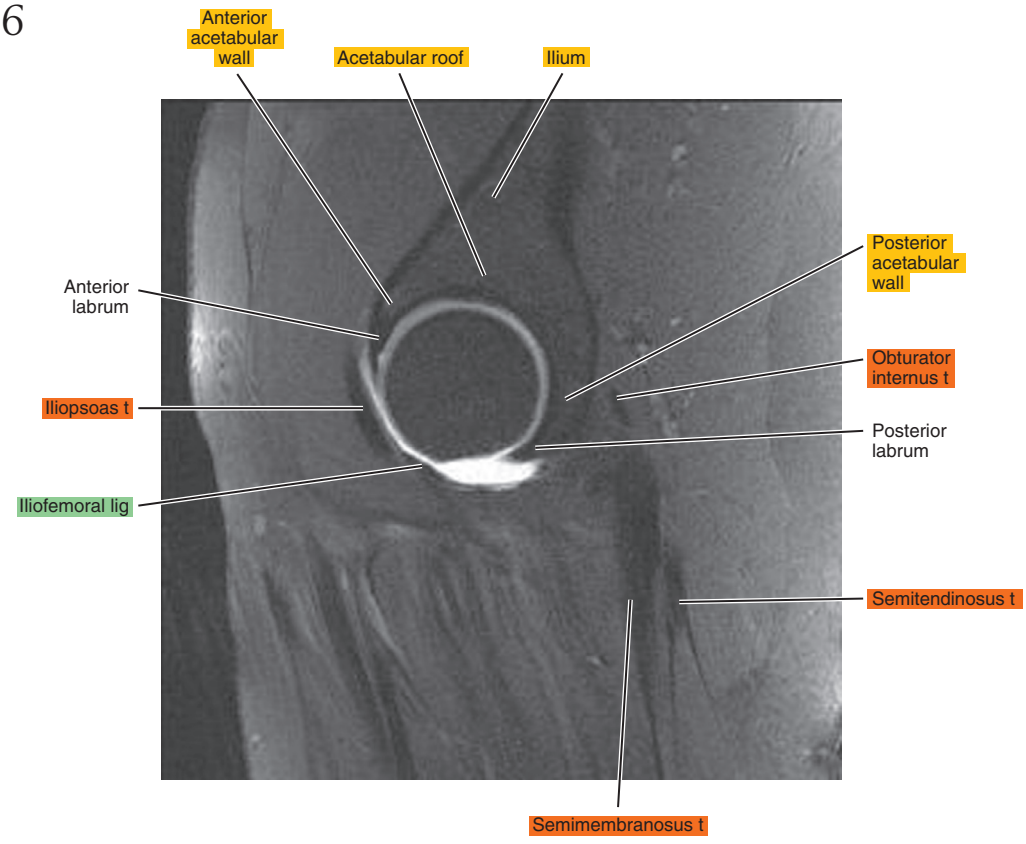

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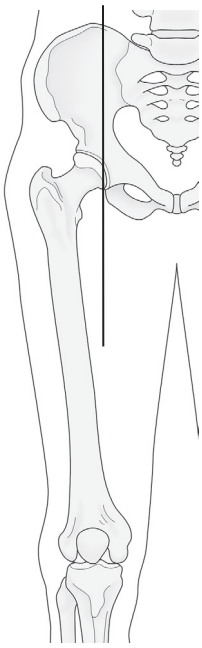

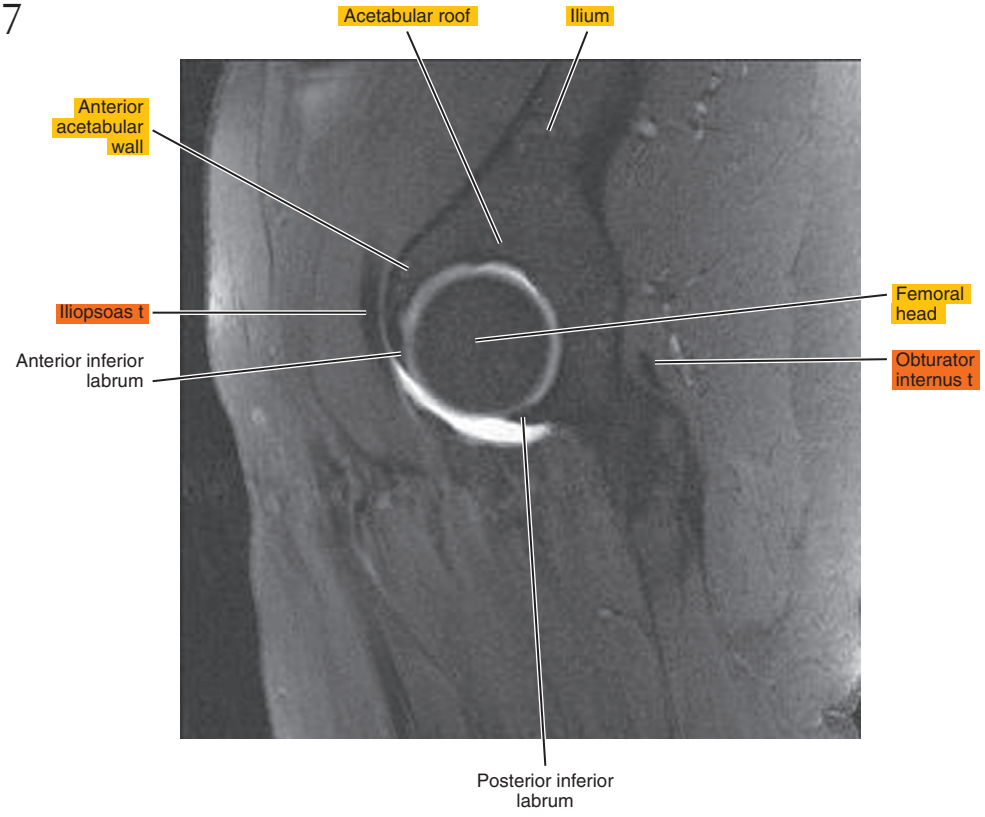

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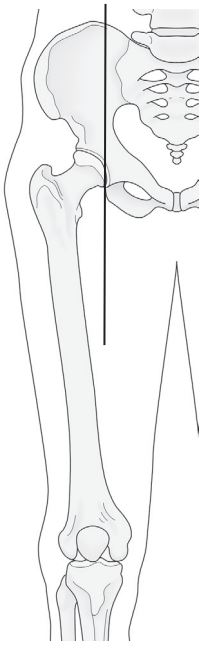

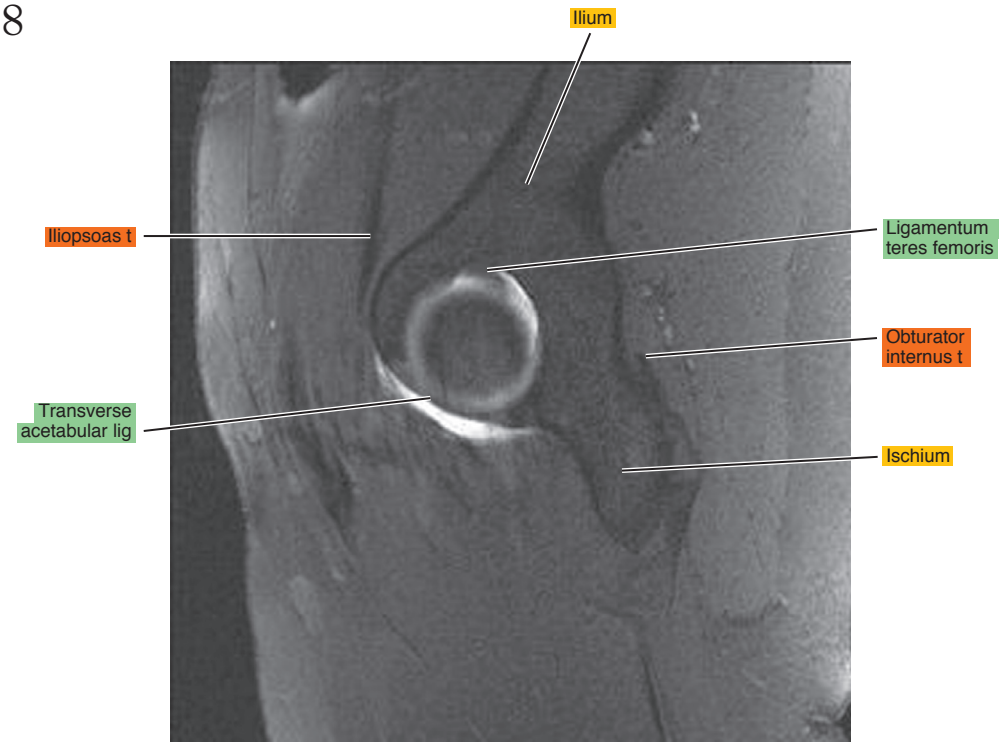

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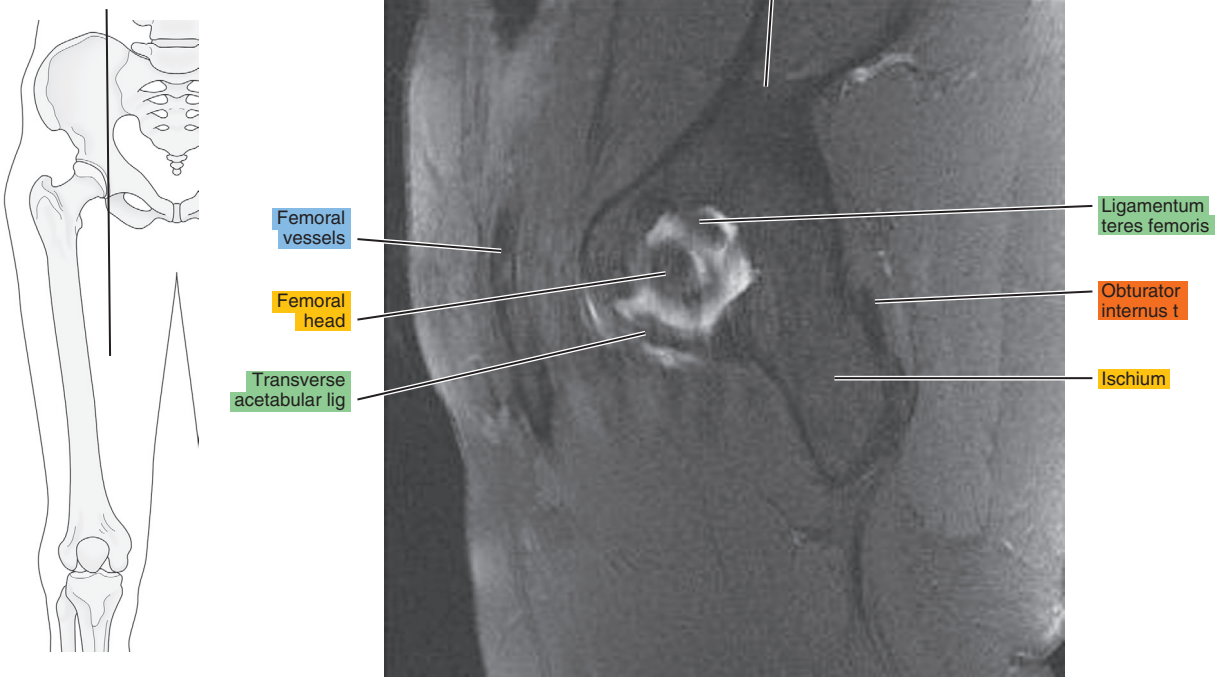

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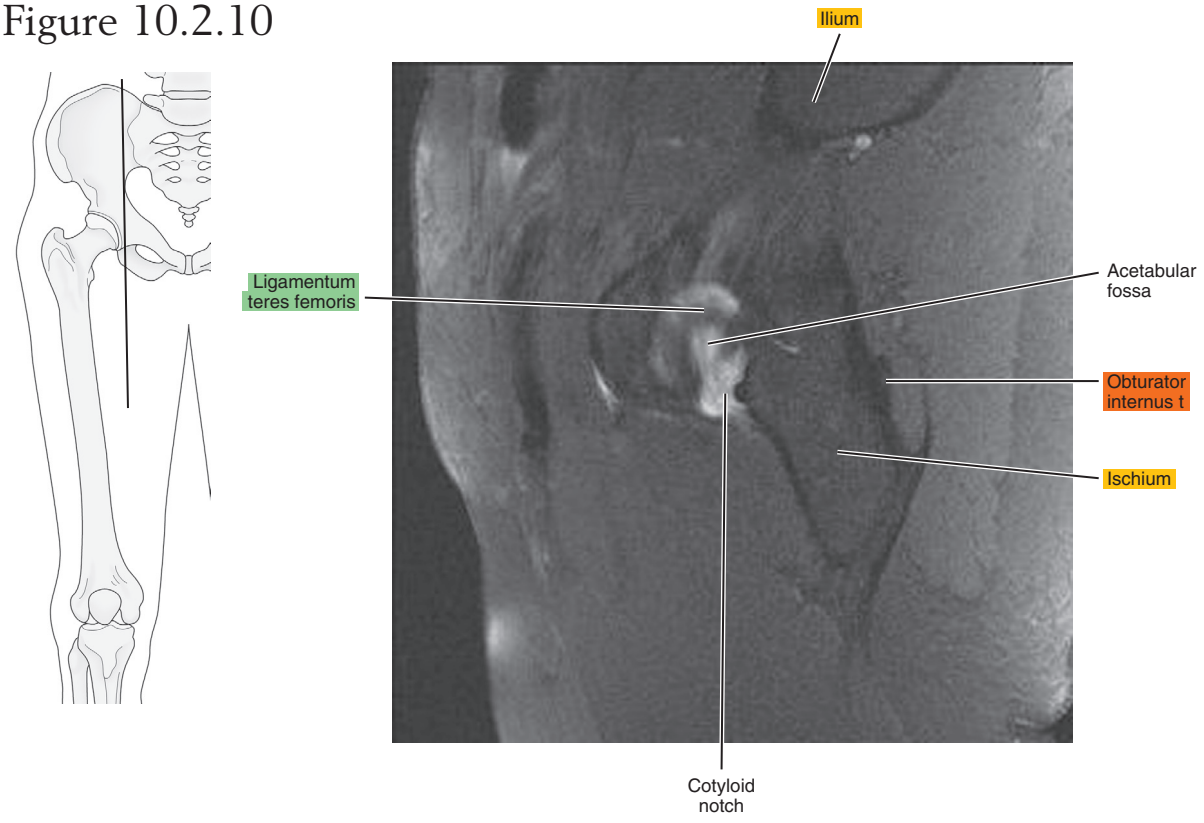

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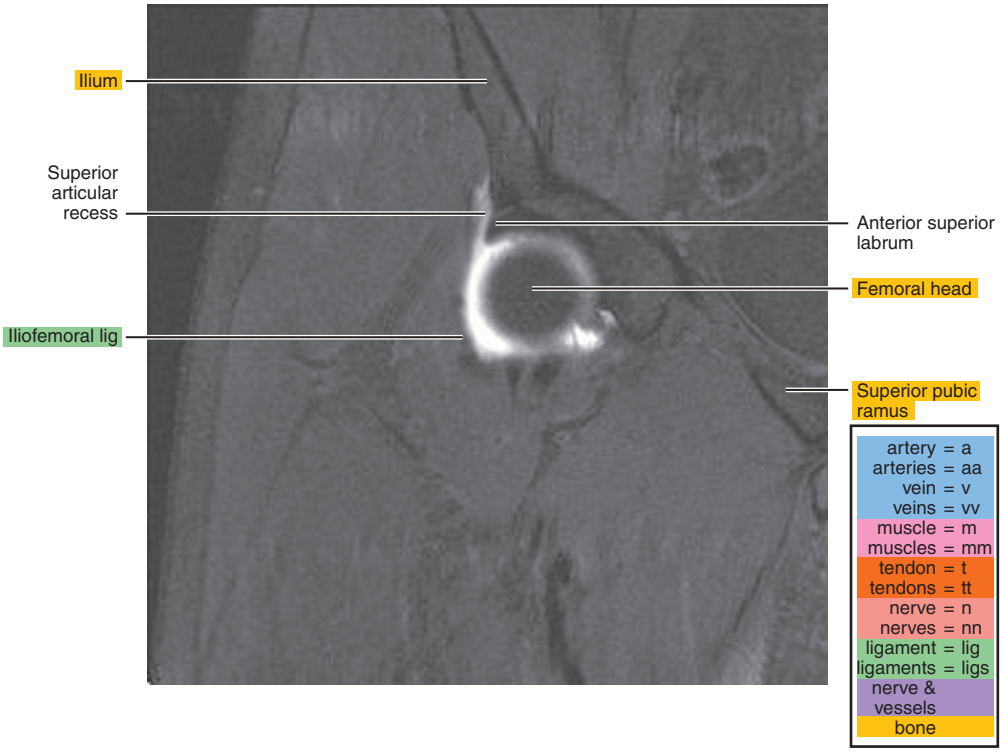

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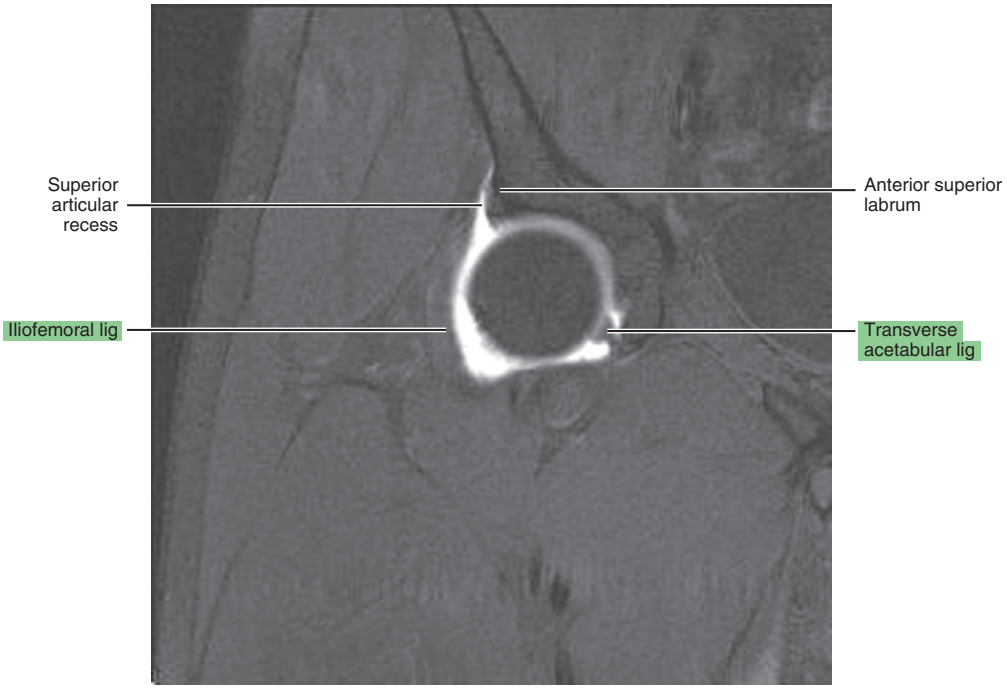

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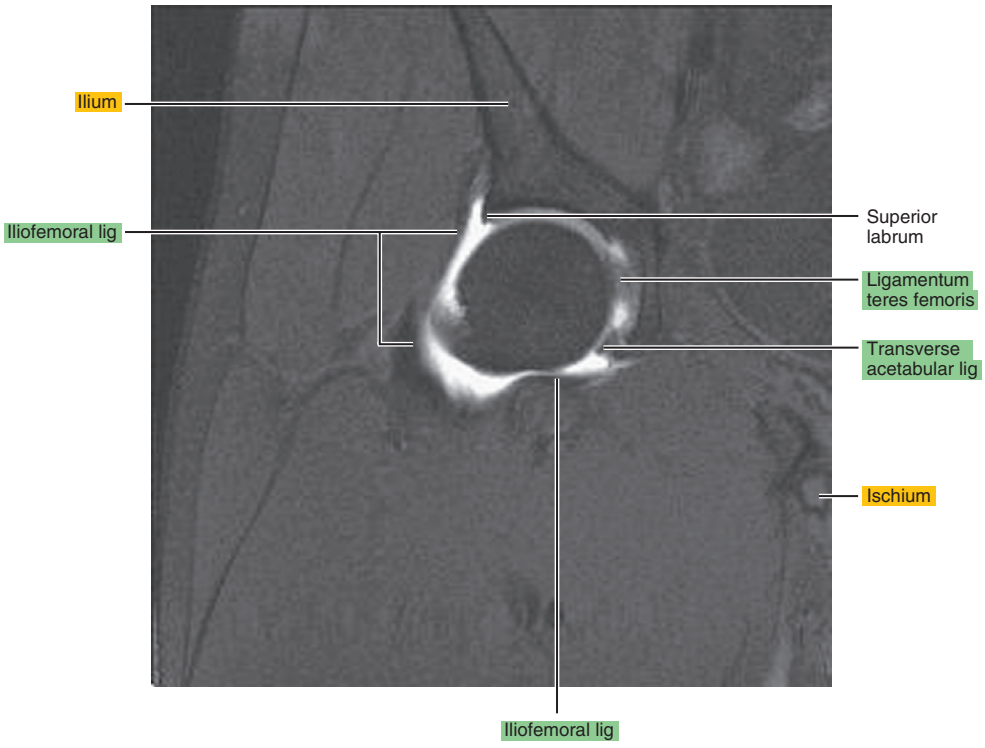

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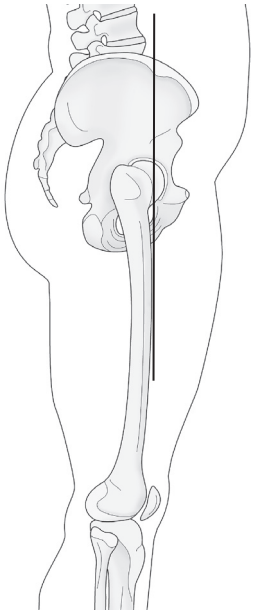

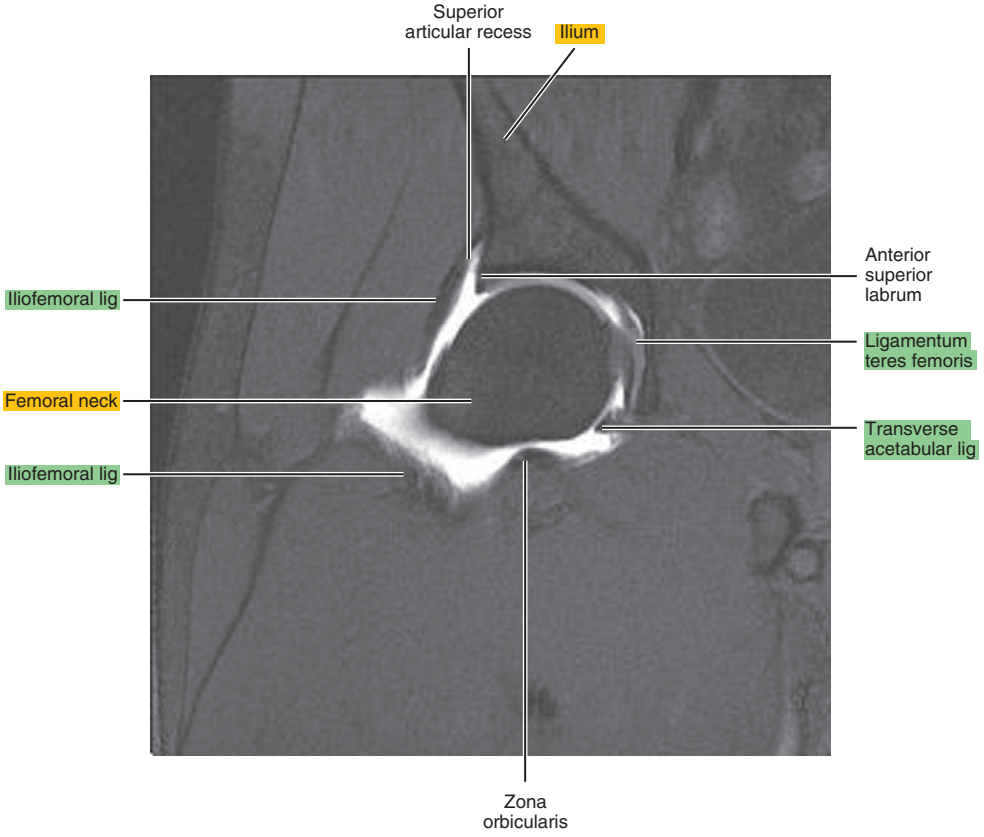

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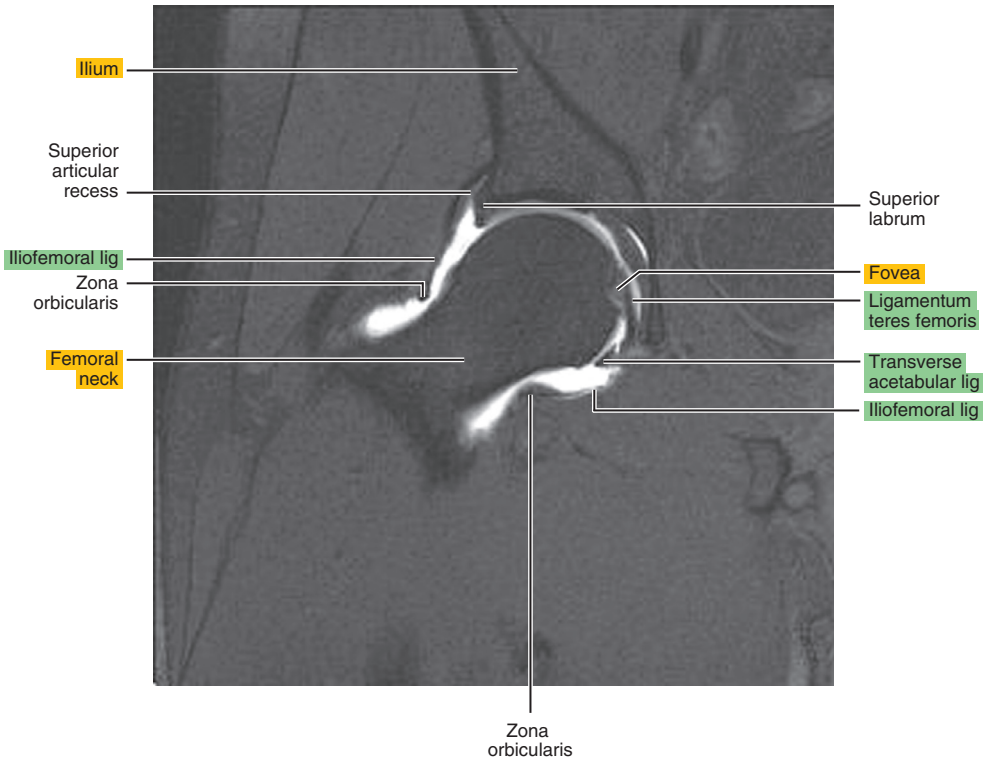

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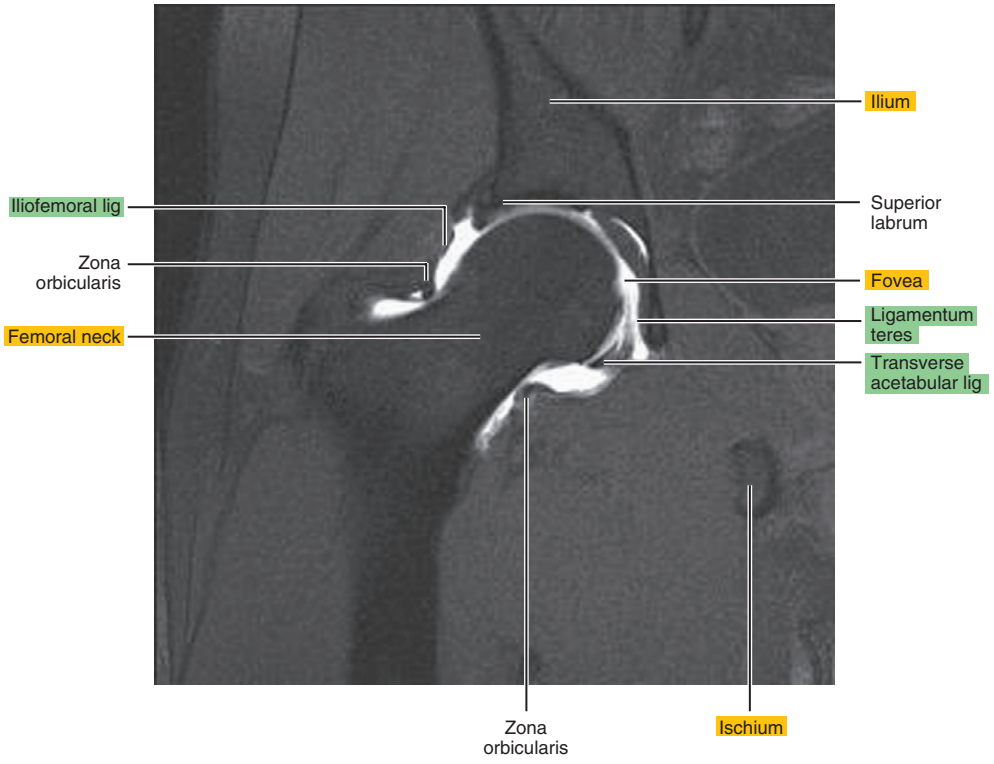

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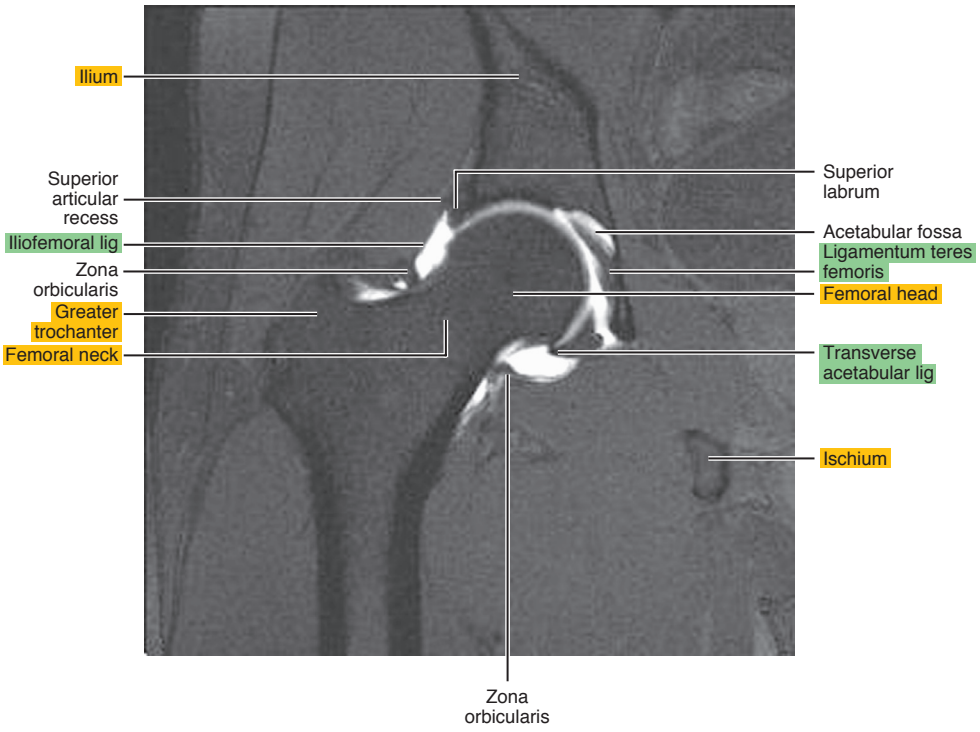

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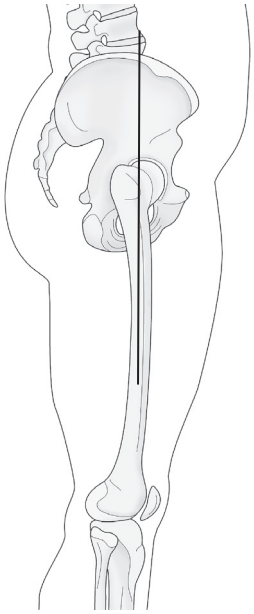

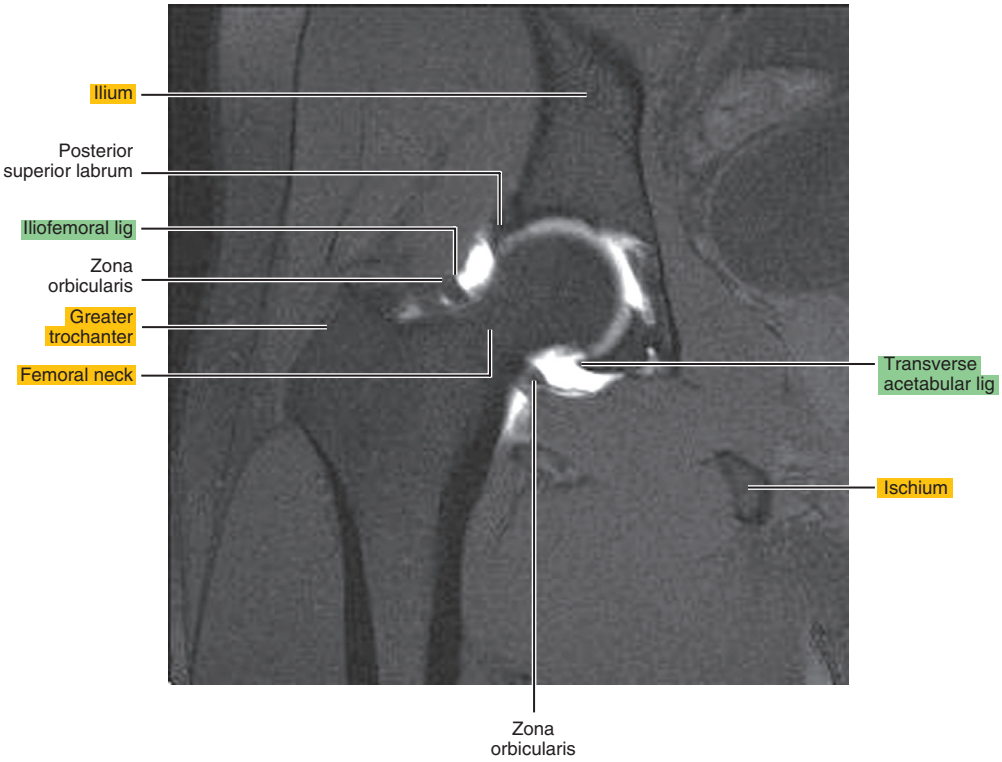

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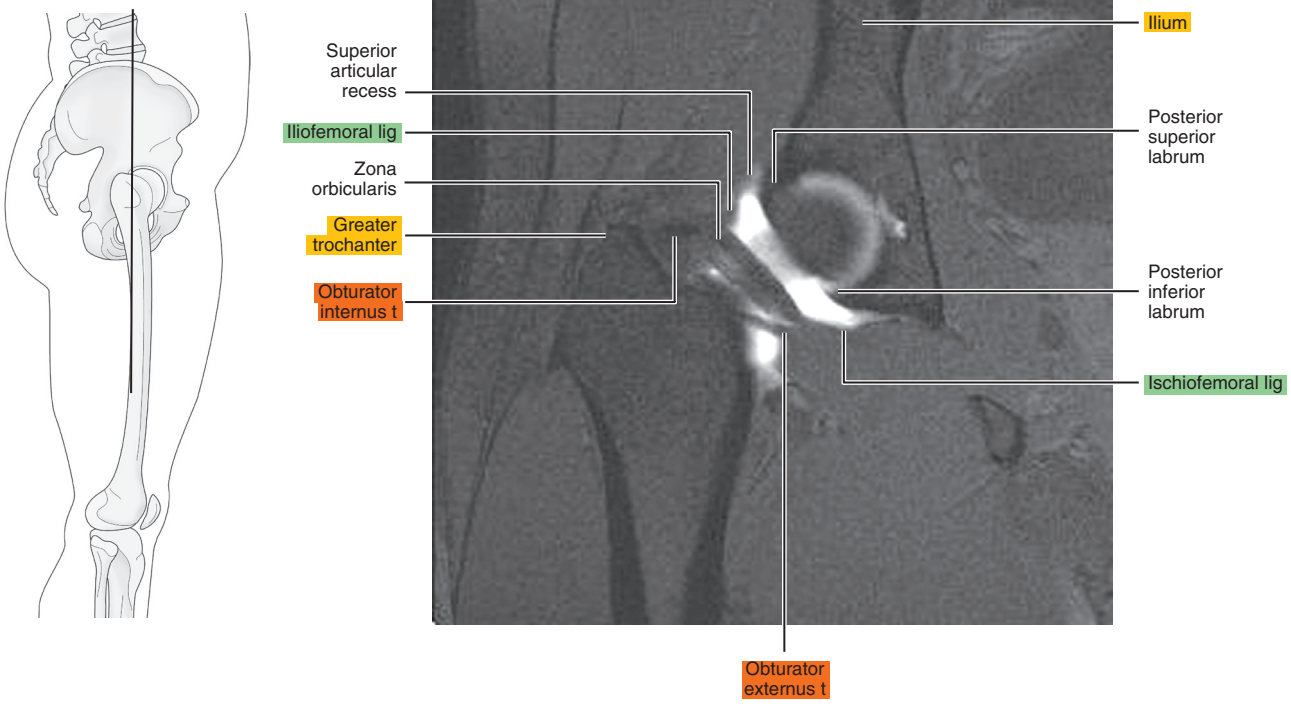

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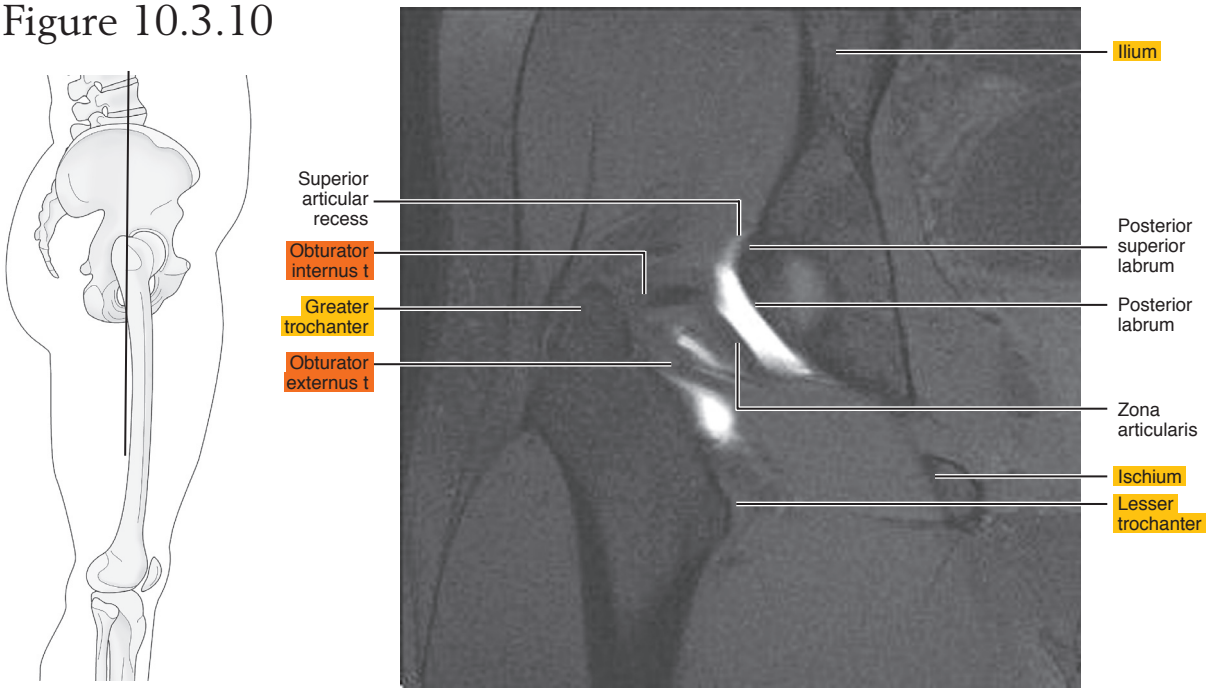

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Chapter

11

MRI of the Thigh

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Table 11-1. Muscles of the Thigh

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Sartorius	Anterior superior iliac spine and adjacent area below	Medial surface of the tibia; near the tuberosity and neighboring fascia	Femoral
Rectus femoris	Straight head: anterior inferior iliac spine; reflected head: posterosuperior surface of the rim of the acetabulum	Through the patellar ligament to the tibial tuberosity	Femoral
Vastus lateralis	Shaft of the femur along the anteroinferior margin of the greater trochanter, above the gluteal tuberosity, and the upper half of the linea aspera	Proximal border of the patella, front of the lateral condyle of the tibia and fascia of the leg	Femoral
Vastus medialis	Medial lip of the linea aspera and the distal half of the intertrochanteric line, and the aponeurosis of the tendons of insertion of the adductor muscles	Upper two thirds of the medial margin and proximal margin of the patella, medial condyle of the tibia, and investing deep fascia of the leg with the tendons of vastus intermedius, lateralis, and rectus, and through the patellar ligament onto the front of the tibial tuberosity	Femoral
Vastus intermedius	Distal half of the lateral margin of the linea aspera and its lateral bifurcation and from the anterolateral part of the shaft of the femur	Proximal margin and deep surface of the patella, aponeurosis of the vastus lateralis, medially and laterally to the tendons of vastus medialis and lateralis, to the patellar ligament and onto the tibial tuberosity	Femoral
Gracilis	Medial margin of inferior ramus of the pubis and the pubic end of the inferior ramus of the ischium	By an expanded tendinous process onto the tibia below the medial condyle	Anterior division of the obturator
Pectineus	Pectineal line, pectineal fascia, and anterior margin of the obturator sulcus, and from the pubofemoral ligament	Upper half of the pectineal line behind lesser trochanter	Femoral, also from the accessory obturator and/or obturator
Adductor longus	Pubic tubercle to symphysis pubis	Middle third of the linea aspera	Anterior division of the obturator; also, occasionally, branch from the femoral
Adductor brevis	Medial part of the outer surface of the inferior ramus of the pubis	Distal two thirds of the pectineal line and the upper one third of the linea aspera	Anterior (or posterior) branch of the obturator
Adductor magnus	Inferior ramus of the pubis	Medial side of the gluteal ridge and the superior part of the linea aspera by a tendon from the distal three fourths of the linea aspera and the adductor tubercle at the distal end of the medial supracondylar ridge	Posterior branch of the obturator and a branch from the sciatic
Biceps femoris	From the lateral lip of the linea aspera of the femur, from the middle of the shaft to the bifurcation of the linea aspera proximal two thirds of the supracondylar ridge, and lateral intermuscular septum	Head of the fibula in front of the apex, partially onto the lateral condyle of the tibia, and into the fascia of the leg	Peroneal part of the sciatic

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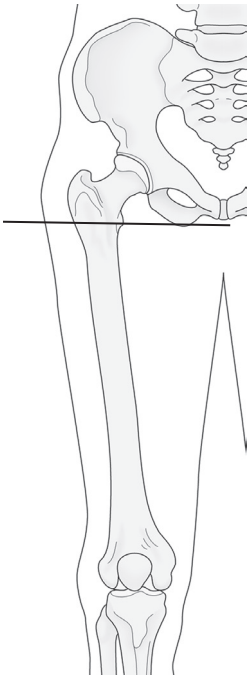
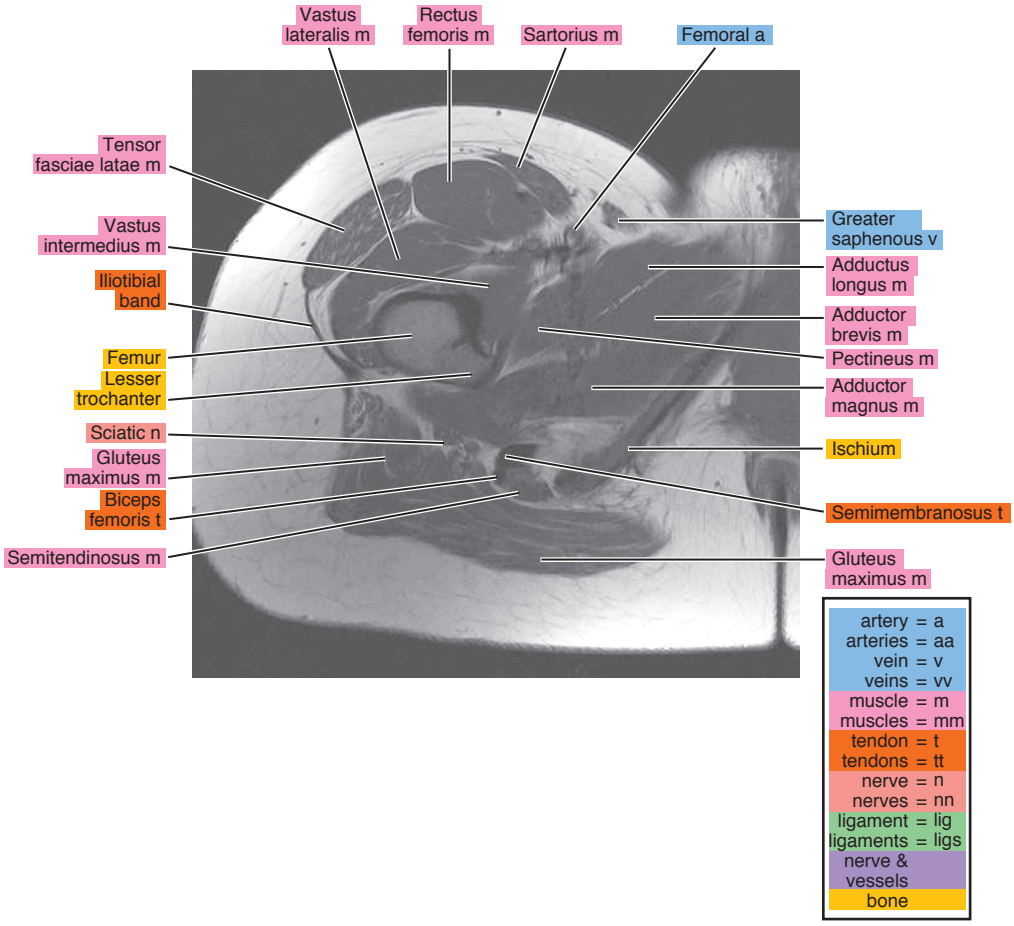
AXIAL

Figure 11.1.1





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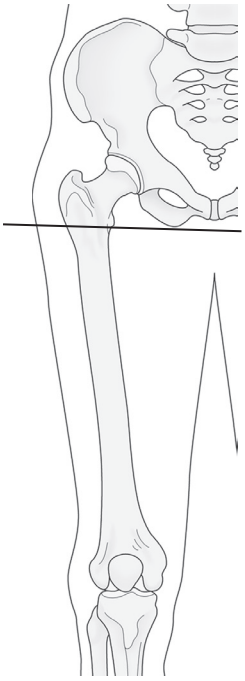

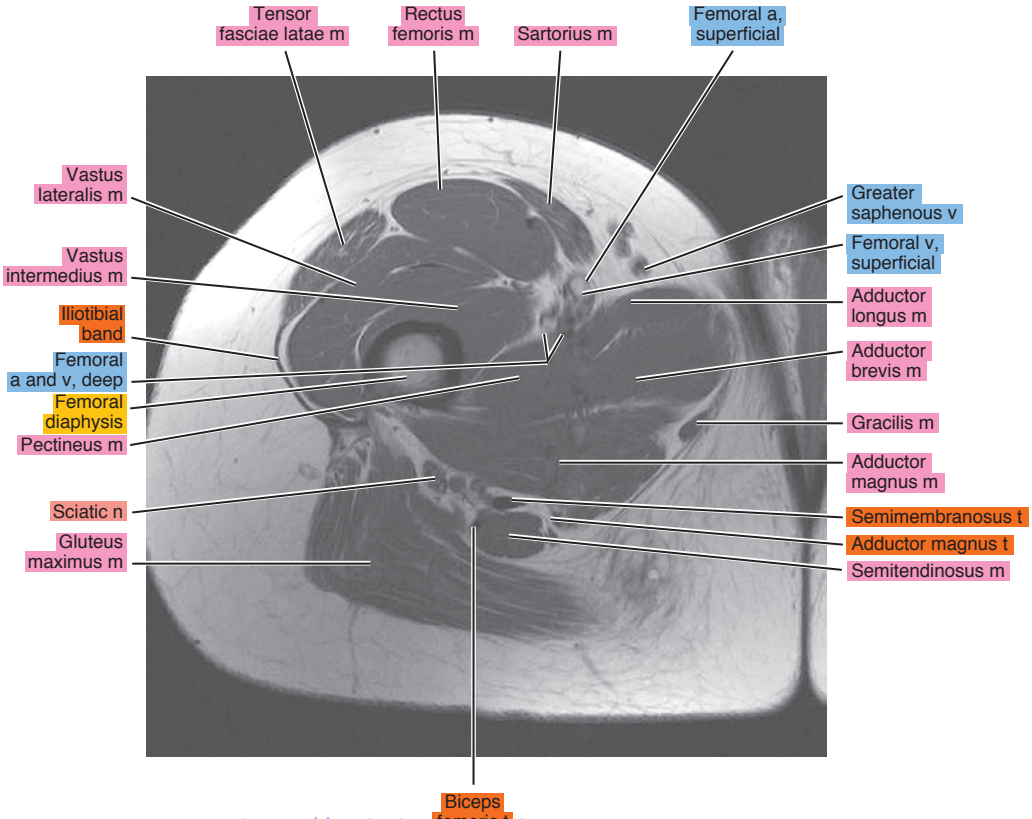

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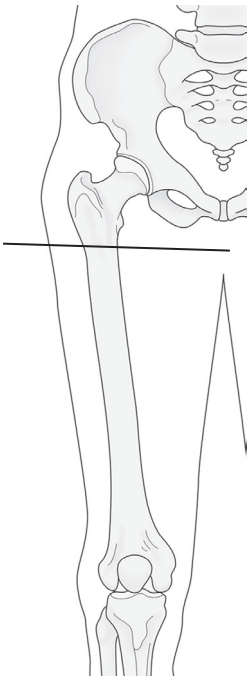
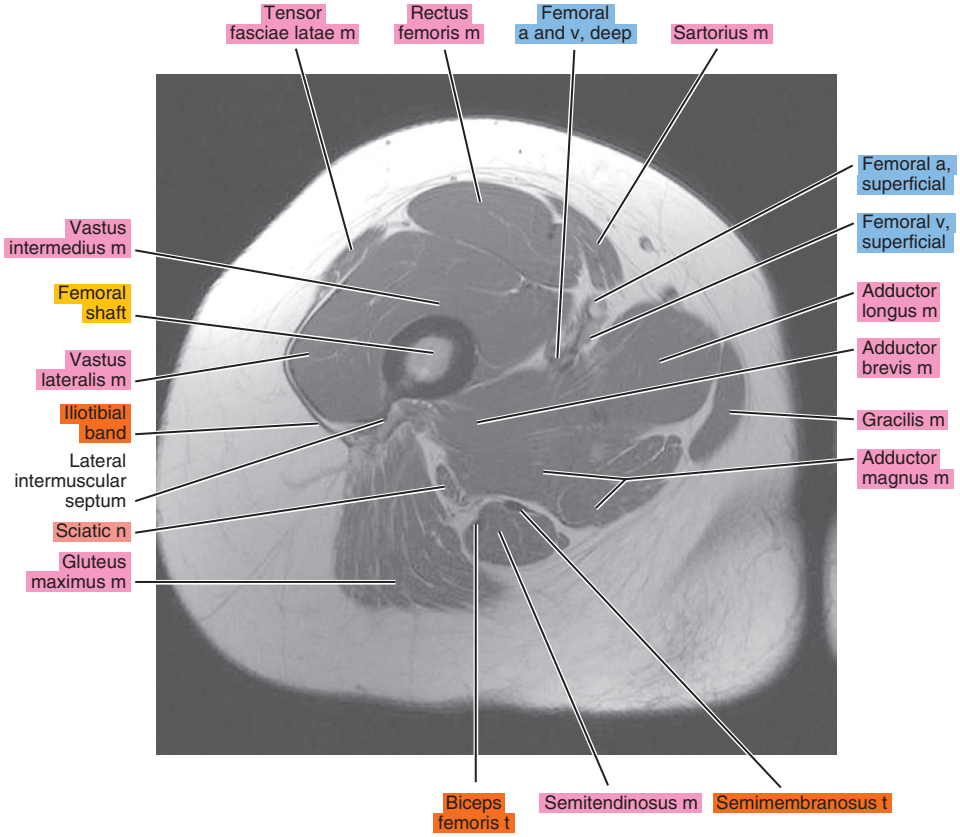
Figure 11.1.3





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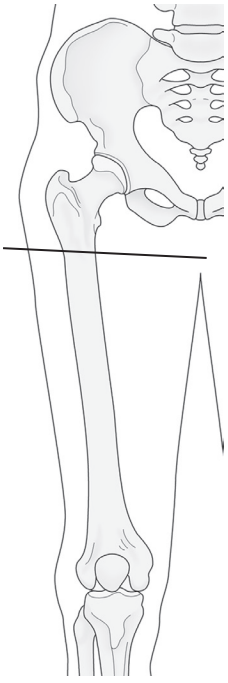

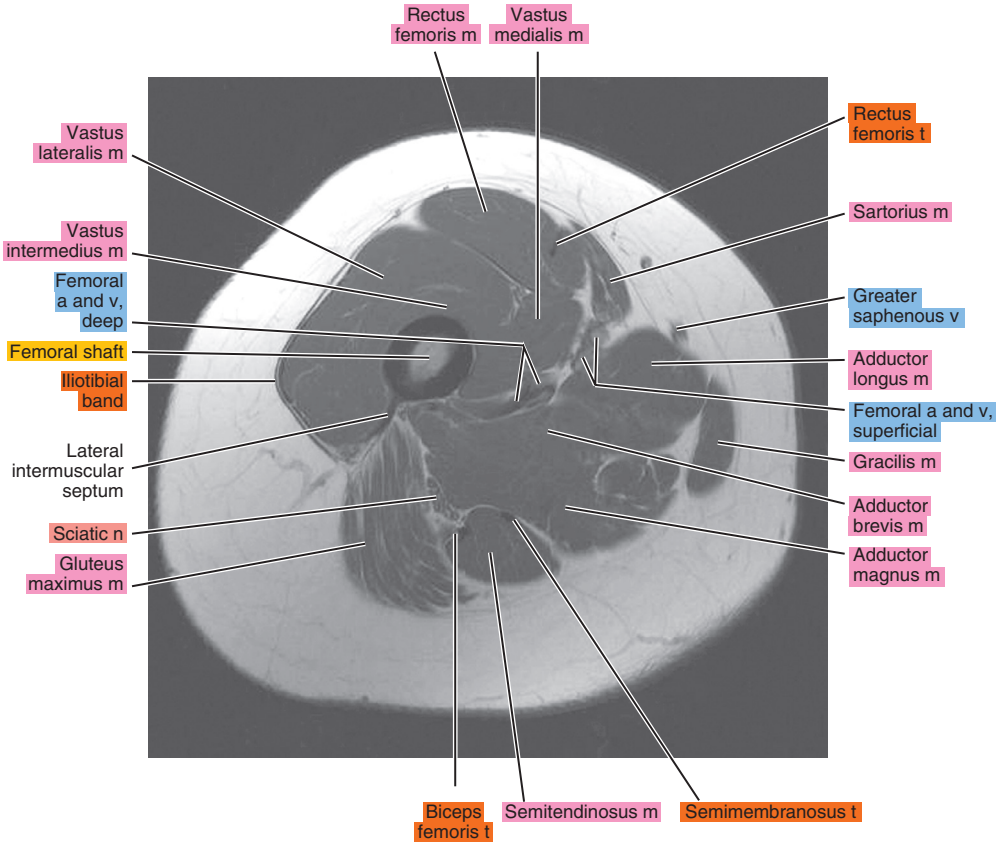

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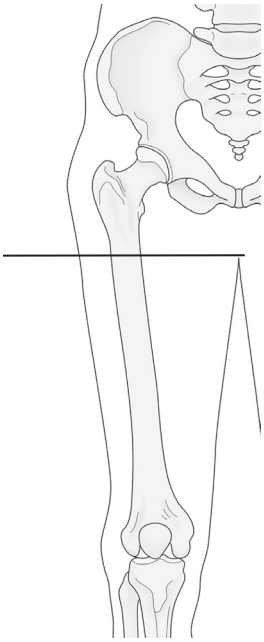

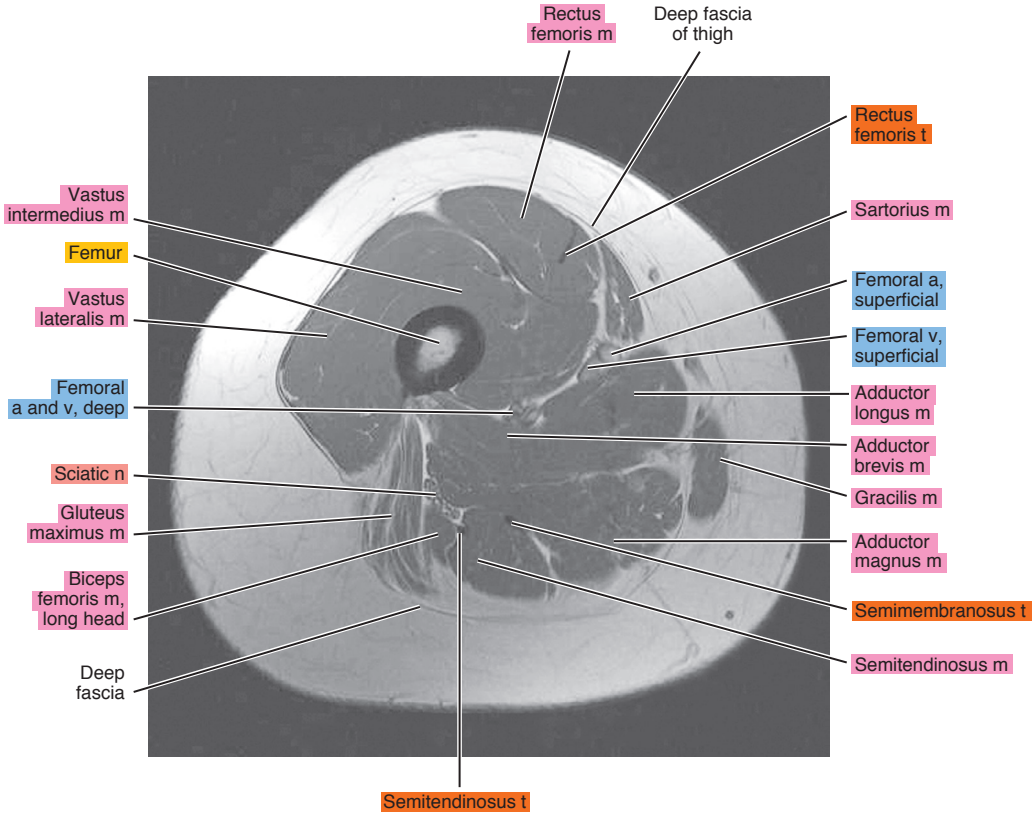

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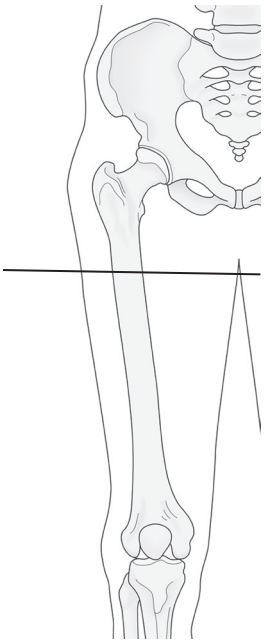

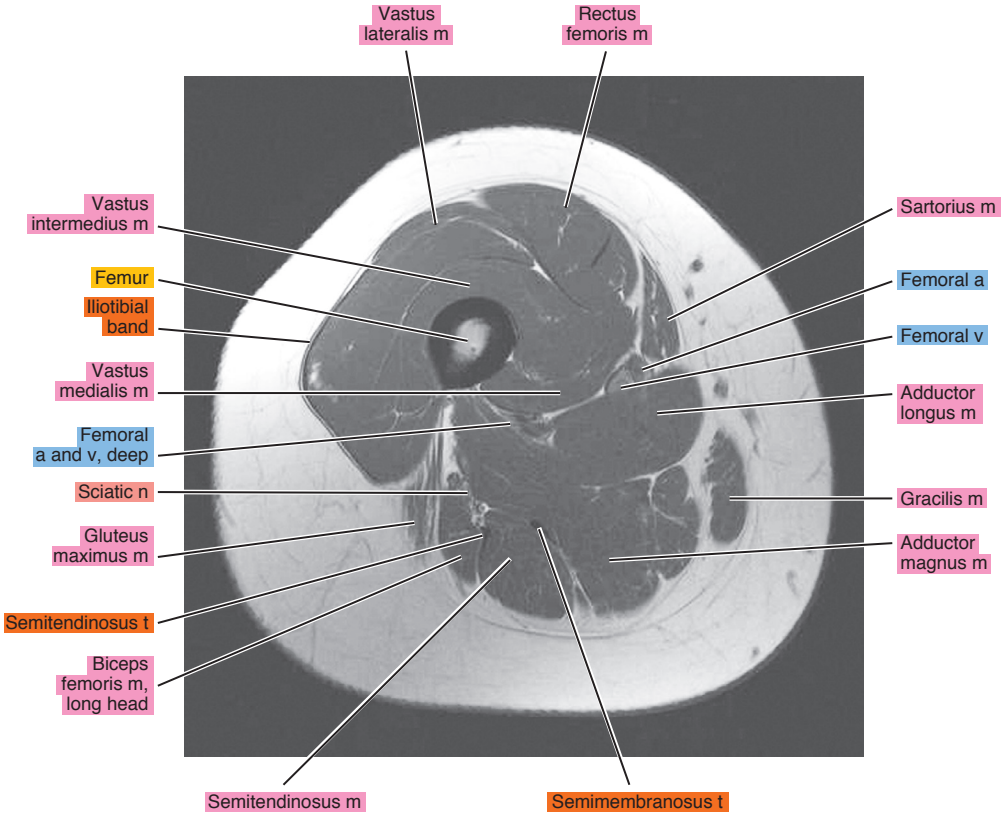

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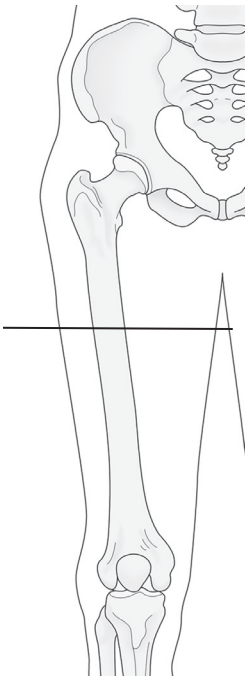

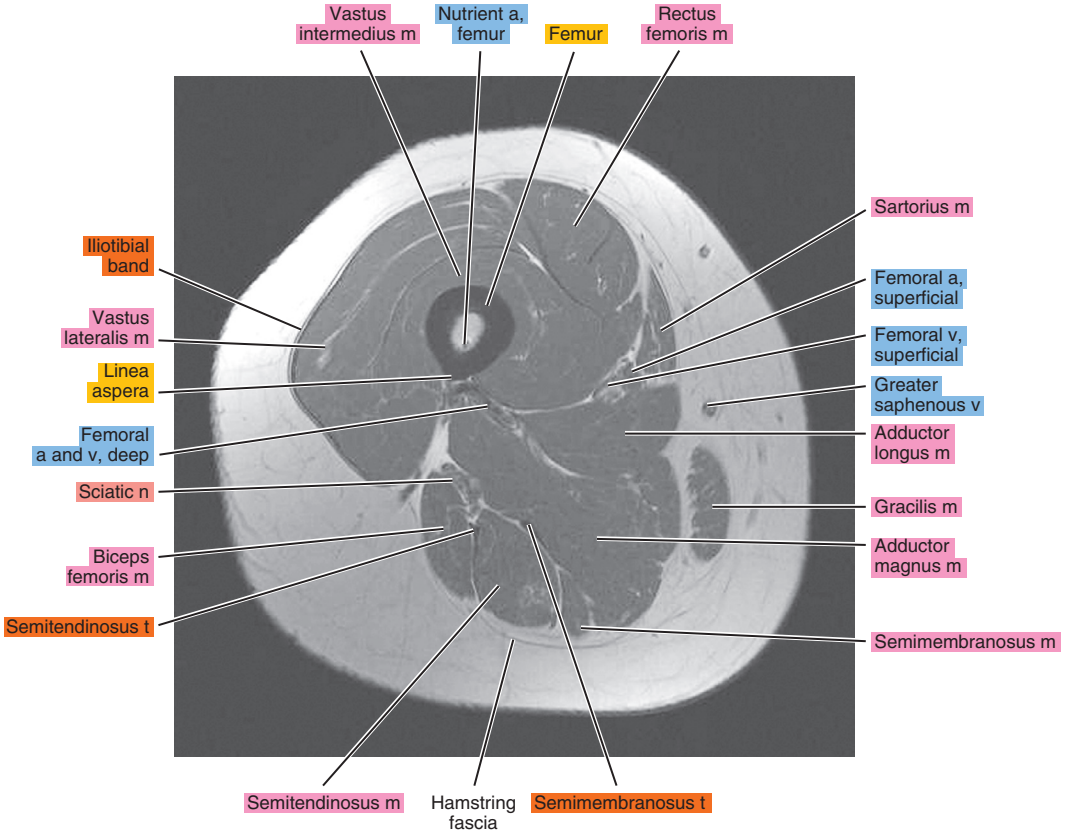

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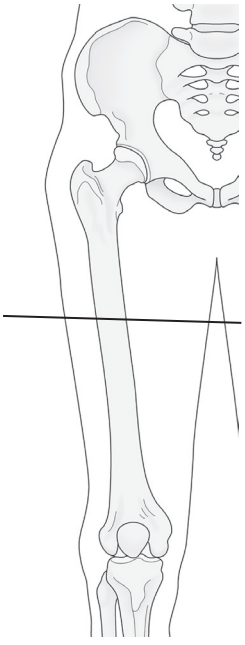

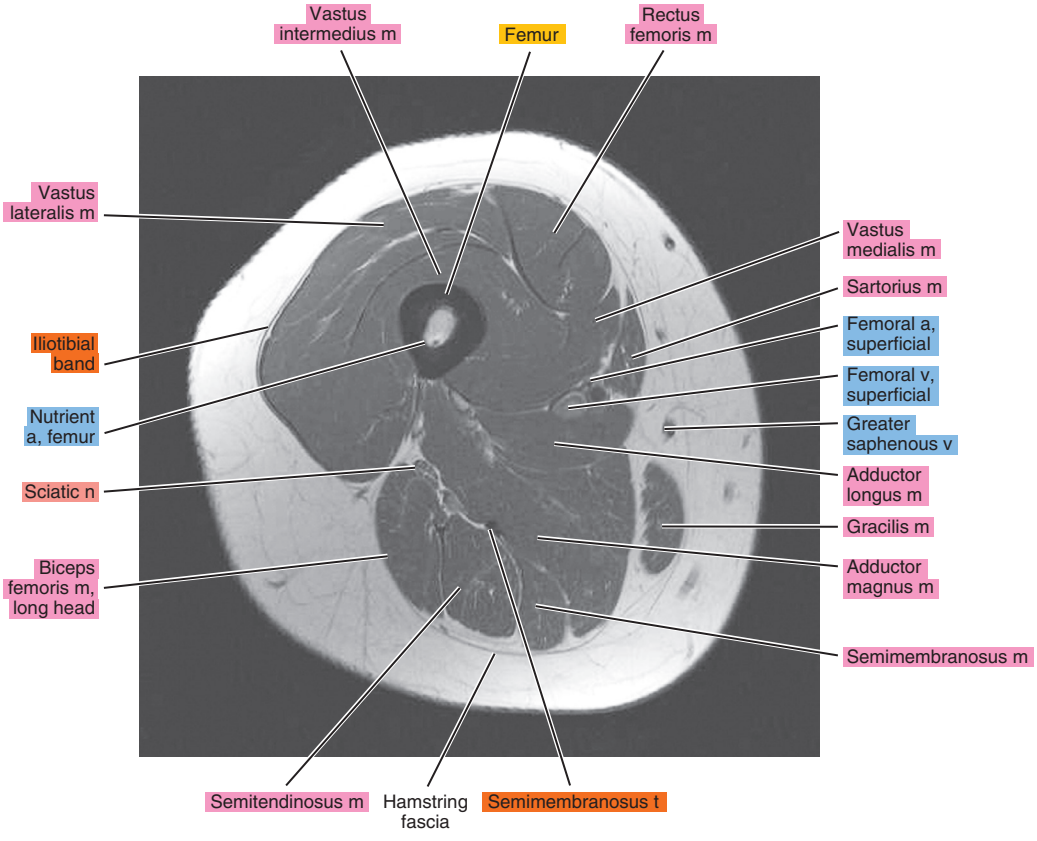

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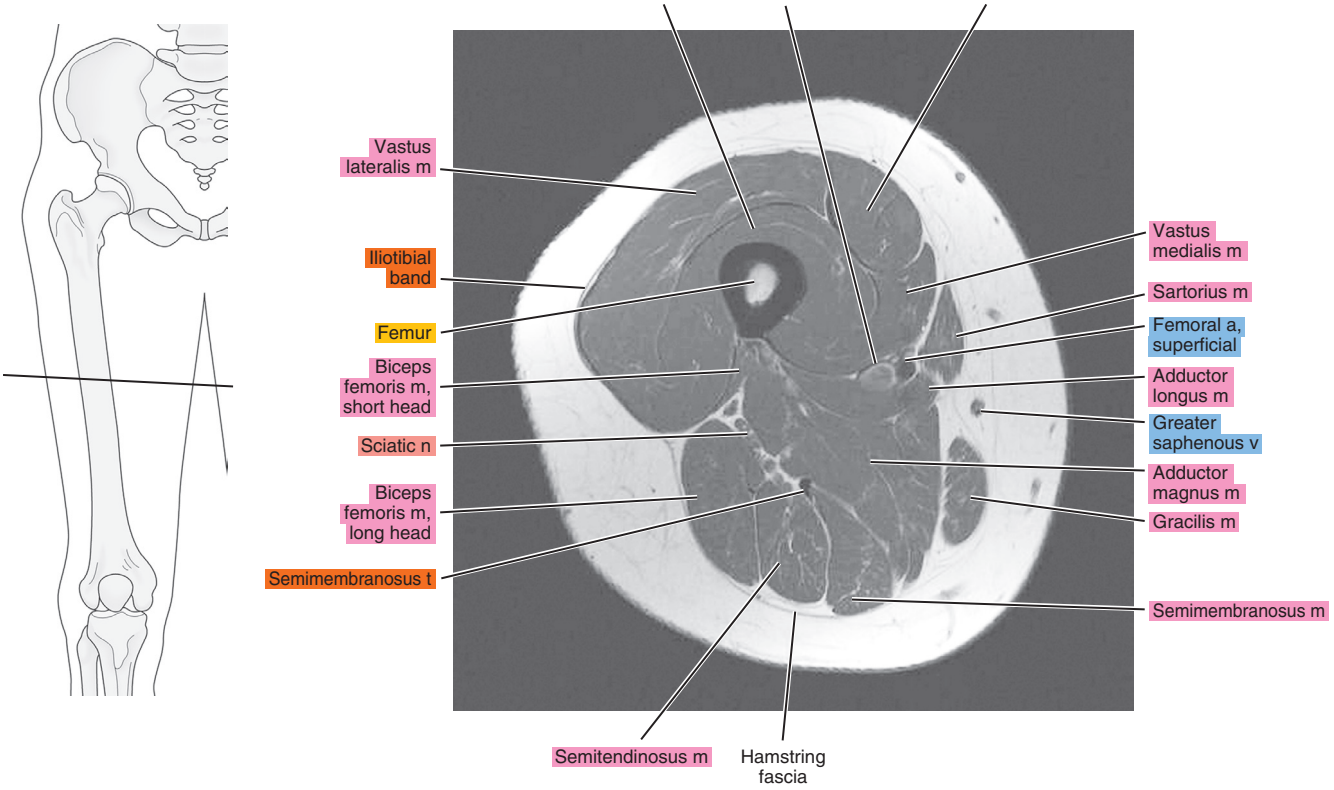

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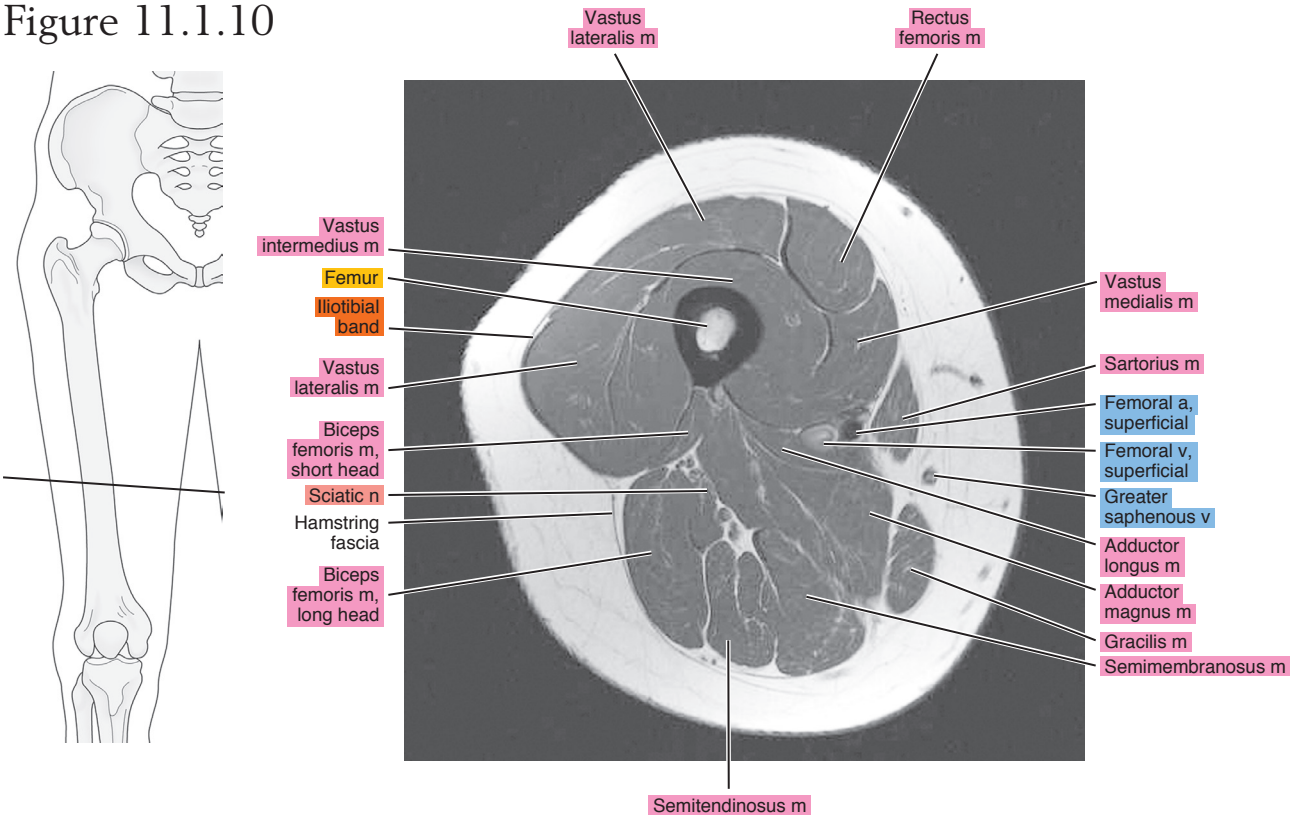

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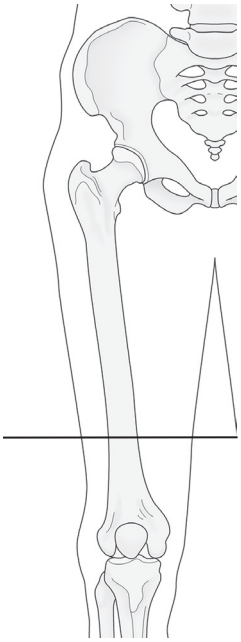

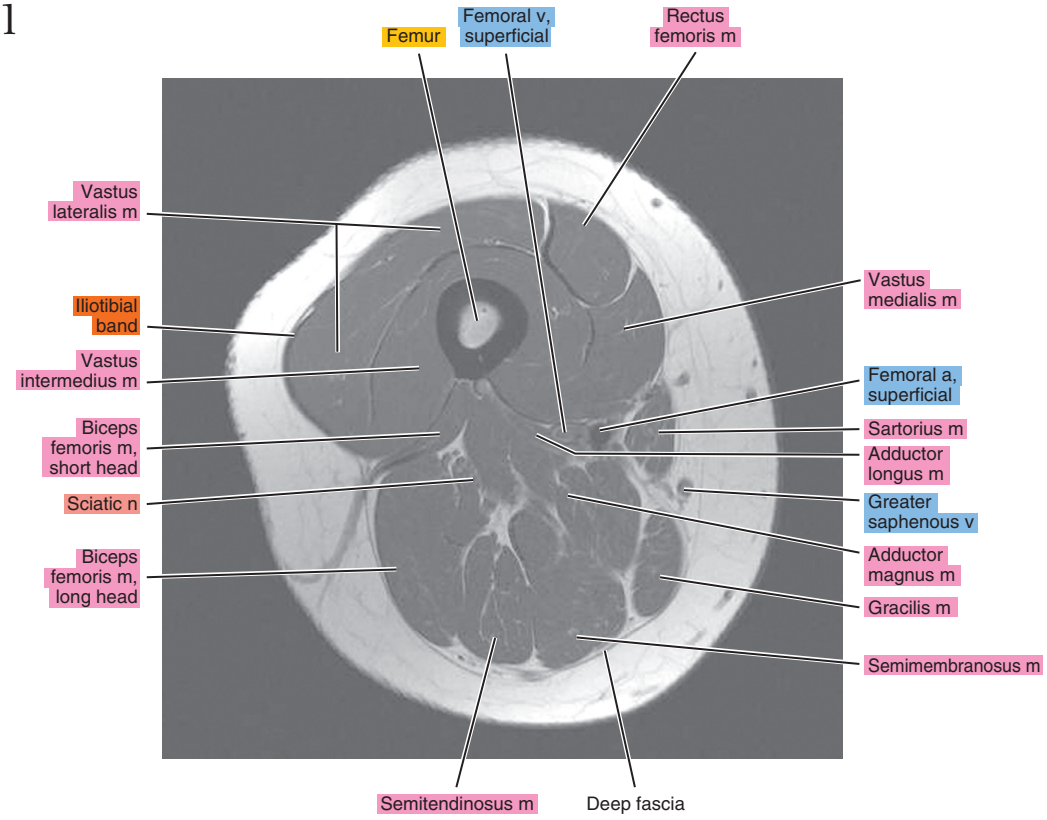

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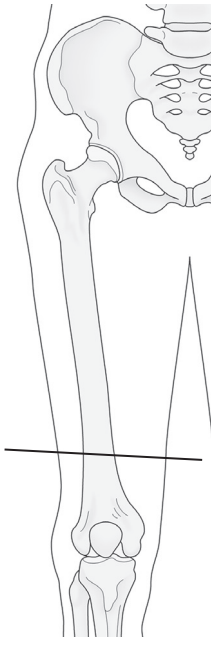

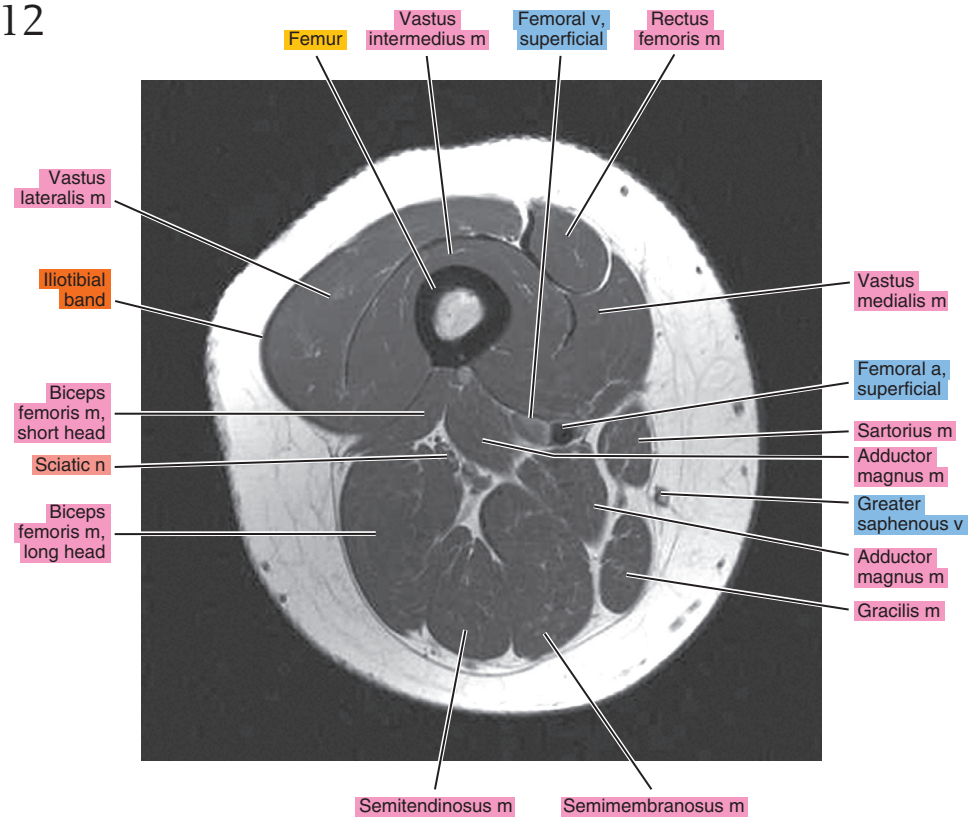

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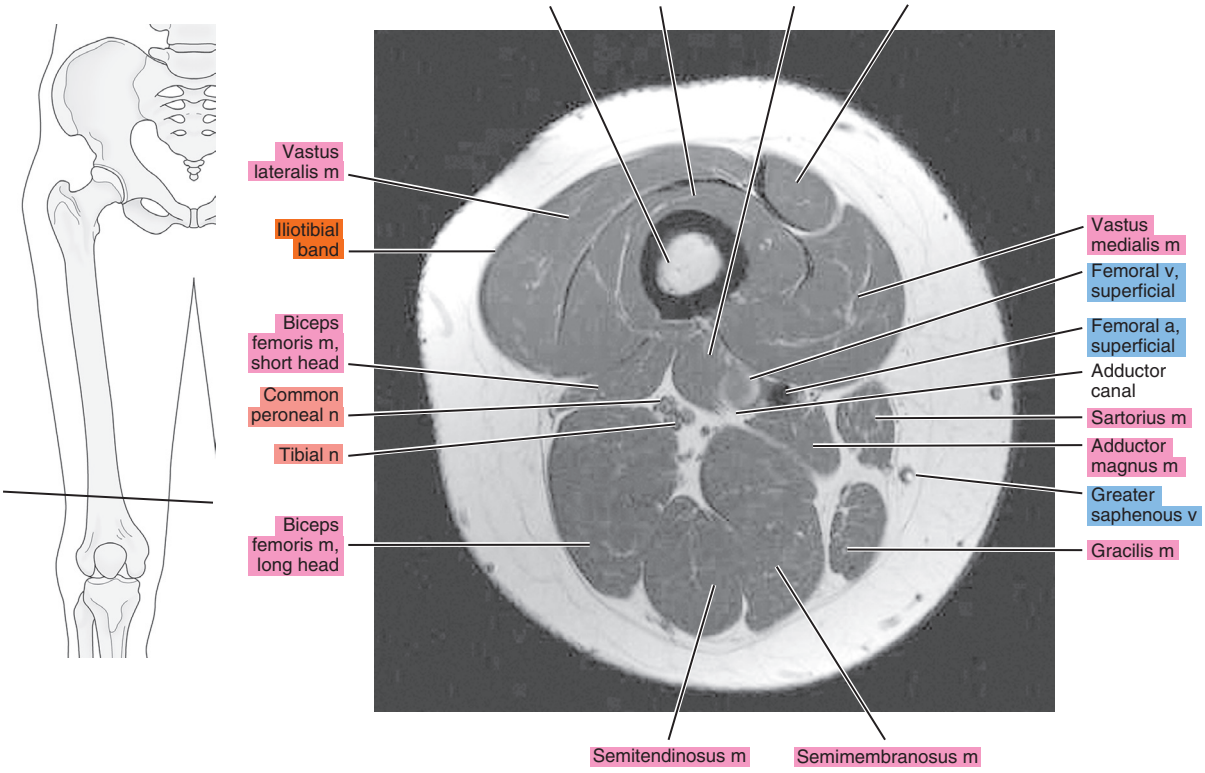

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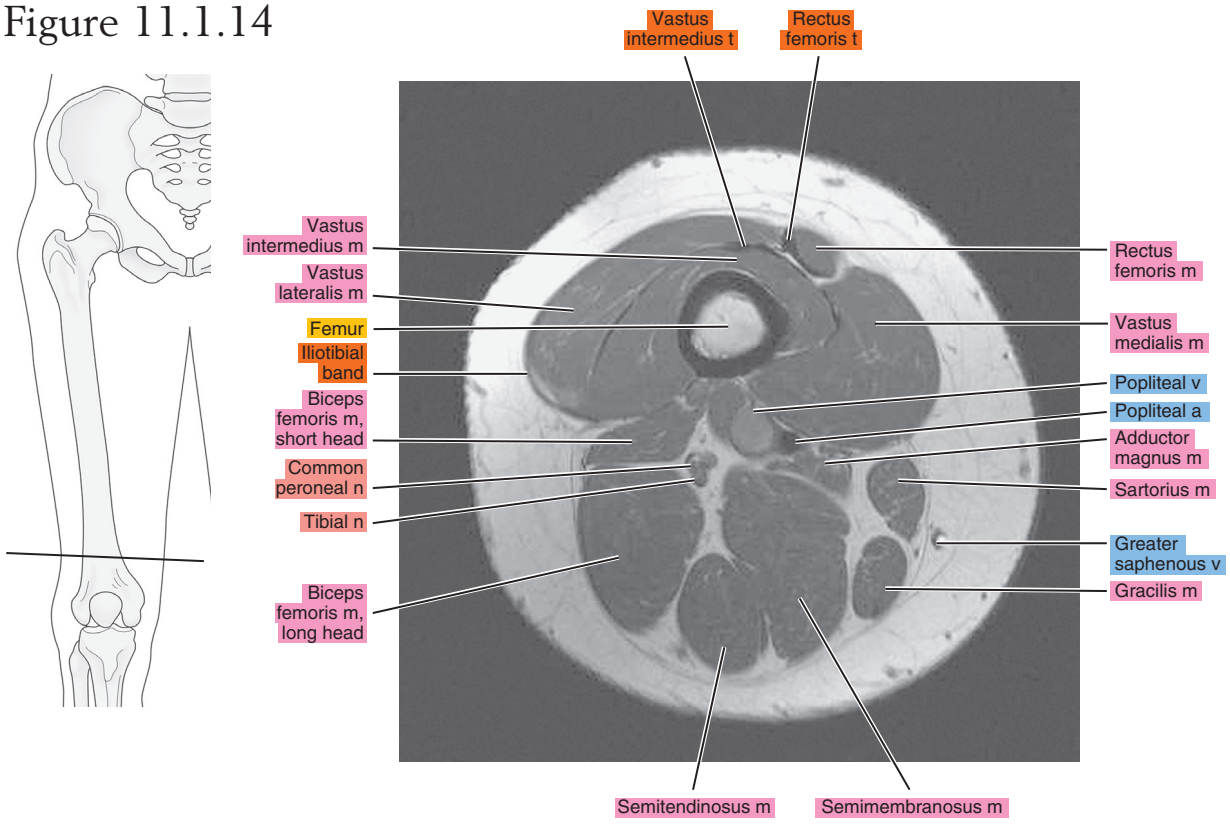

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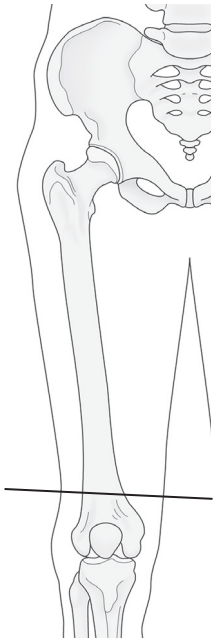

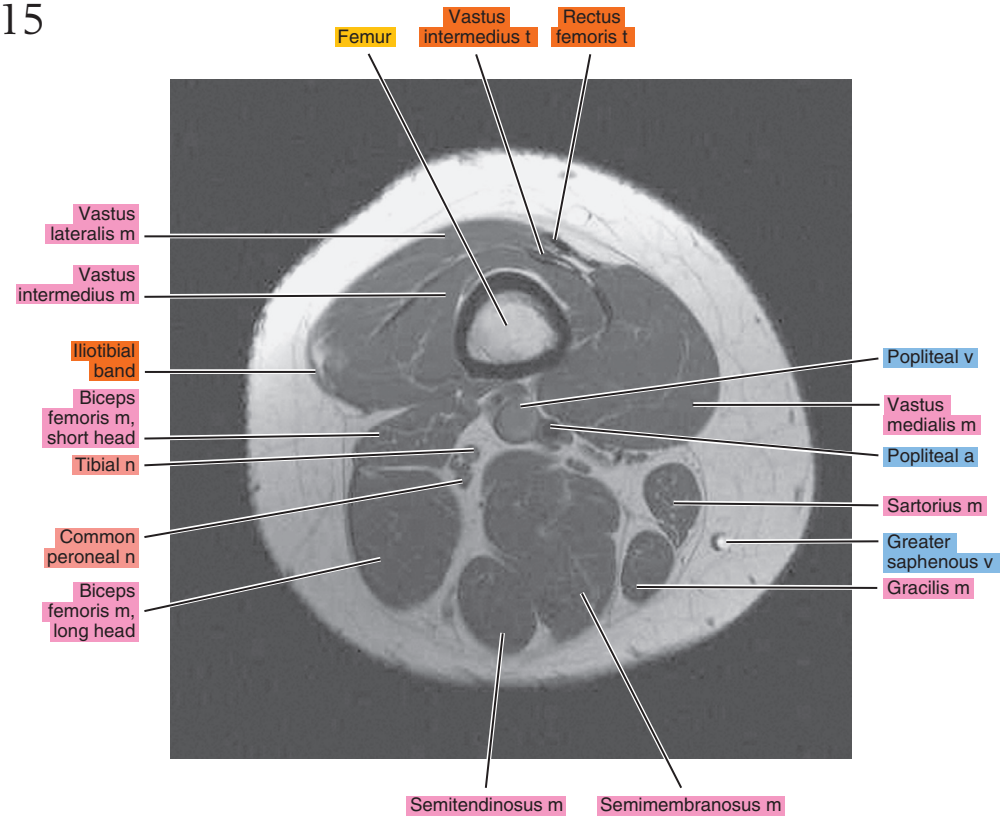

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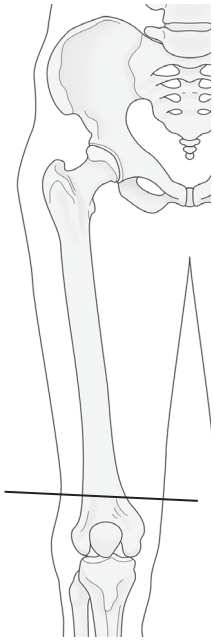

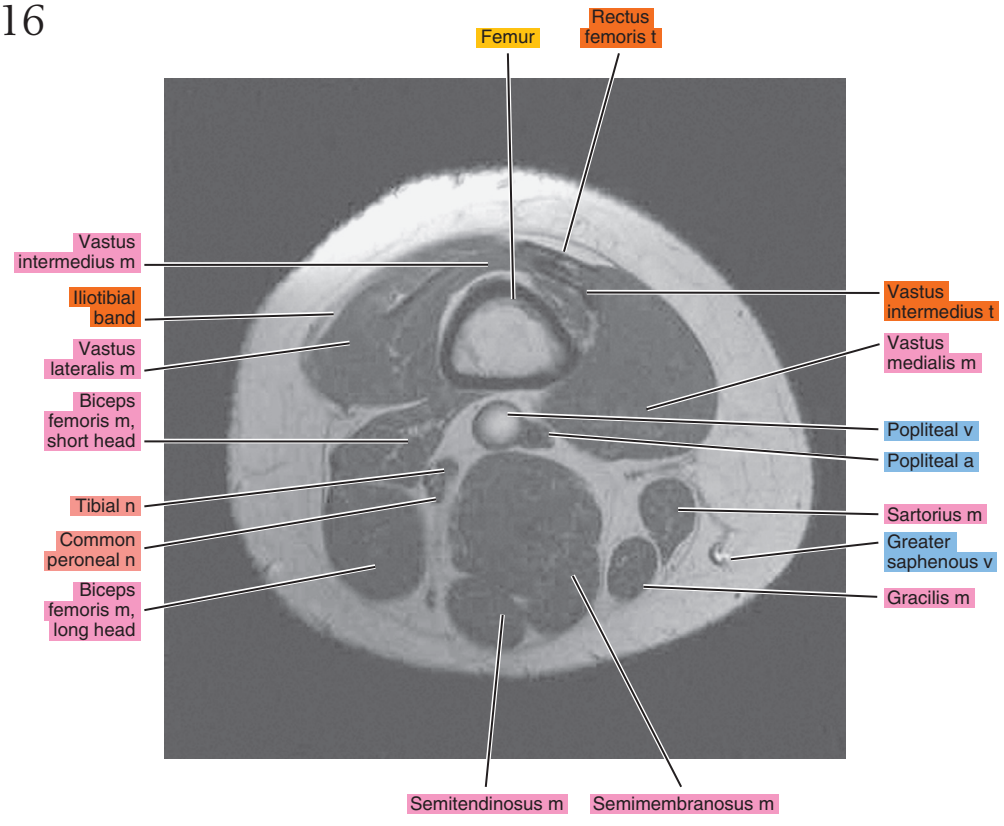

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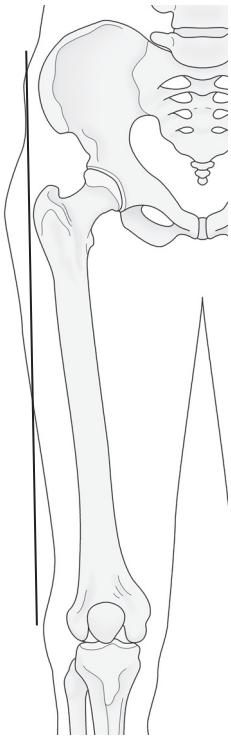

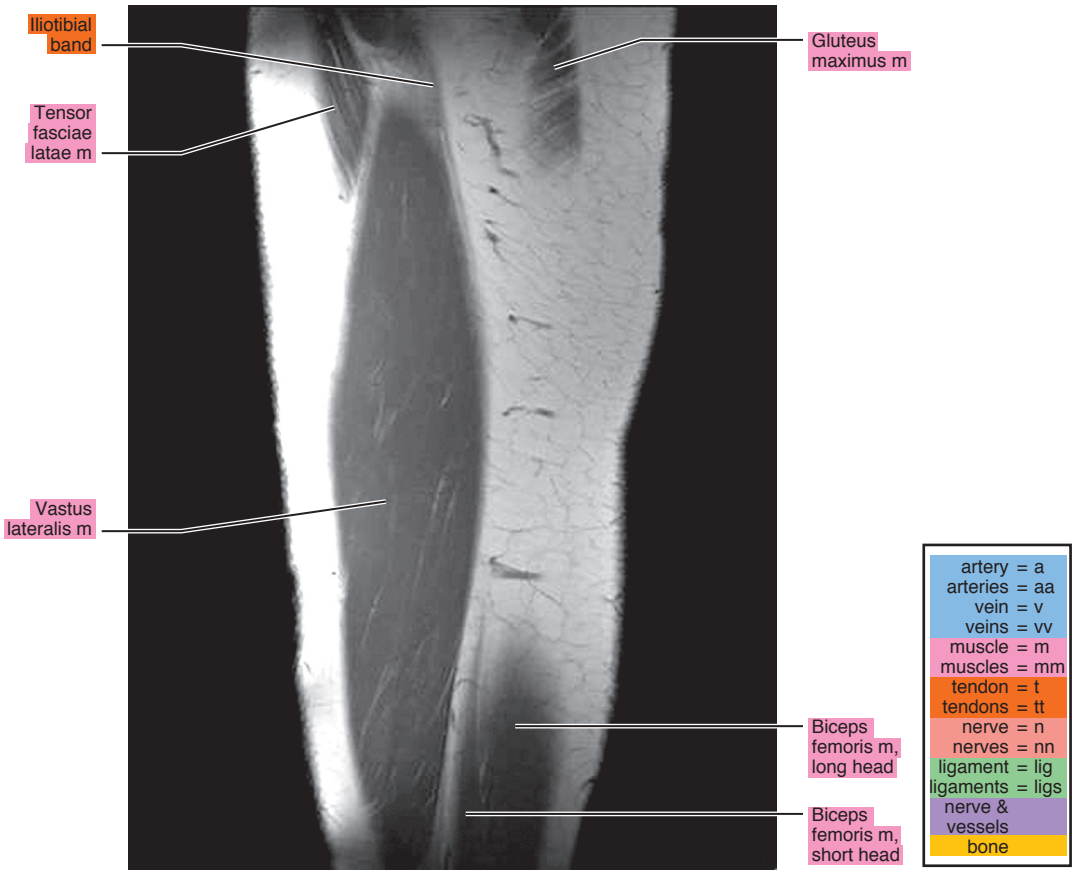

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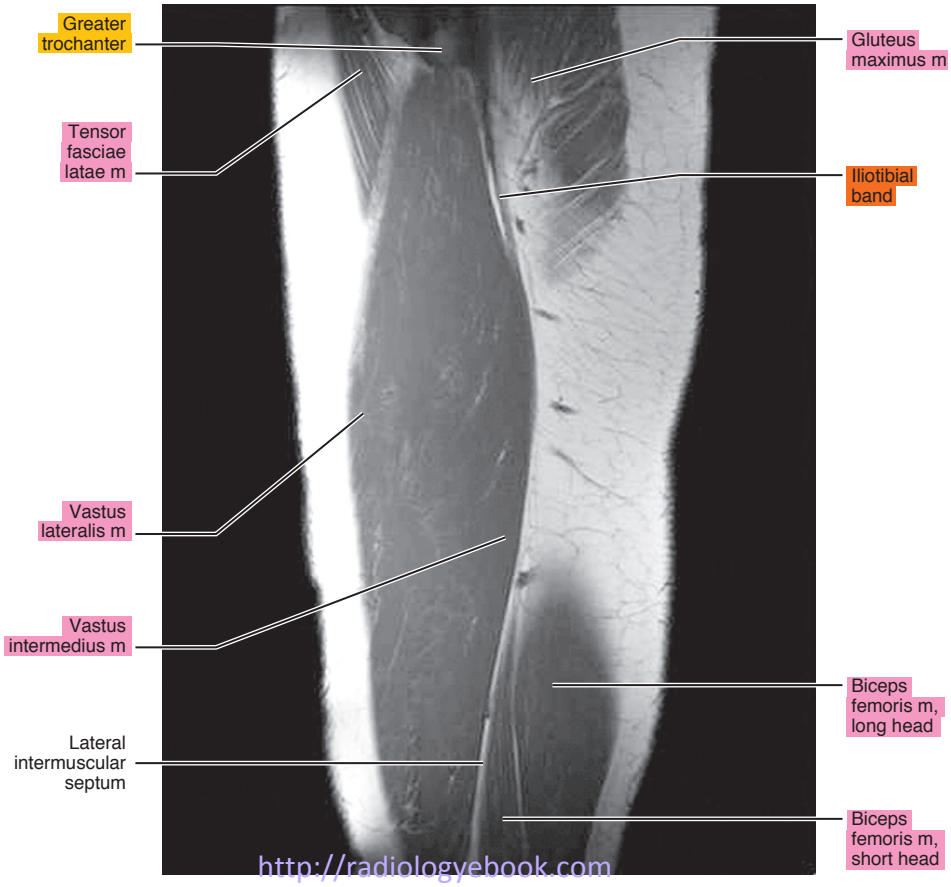

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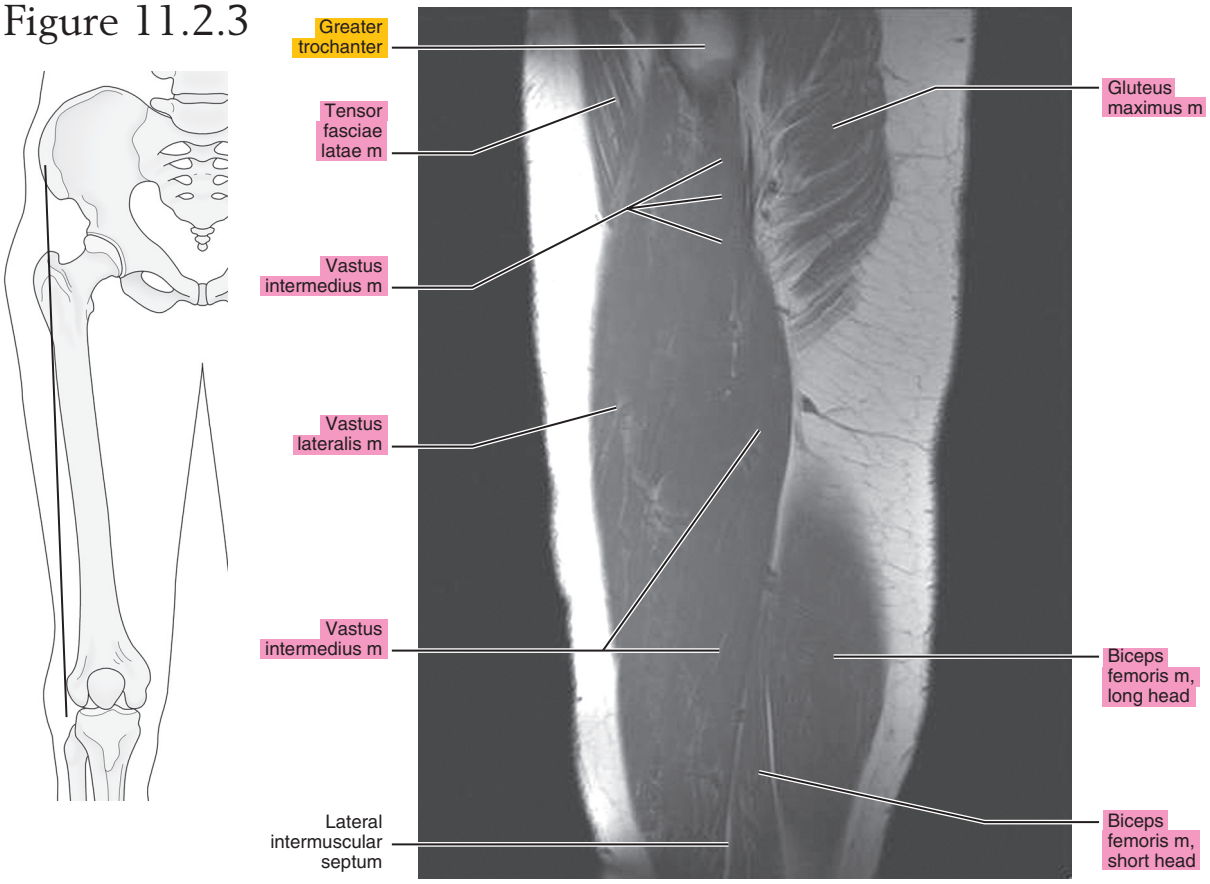

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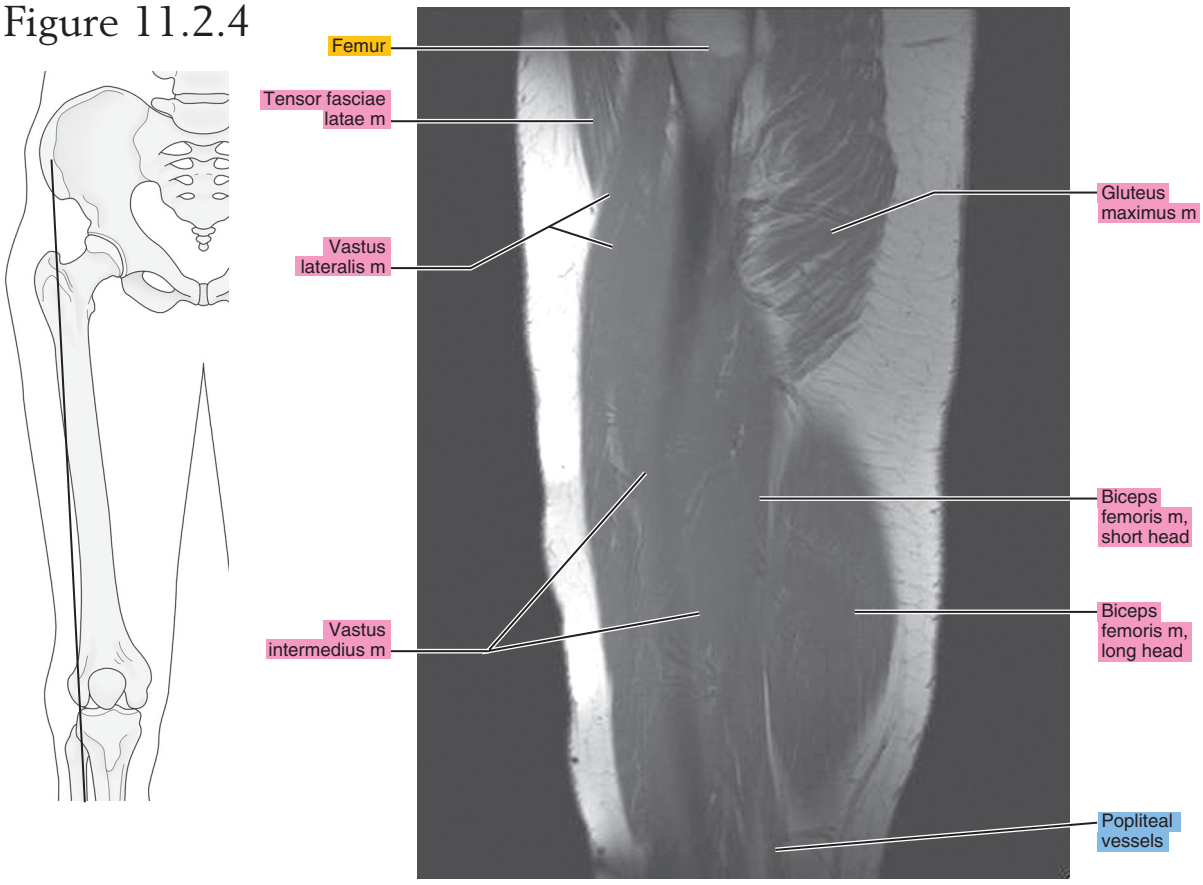

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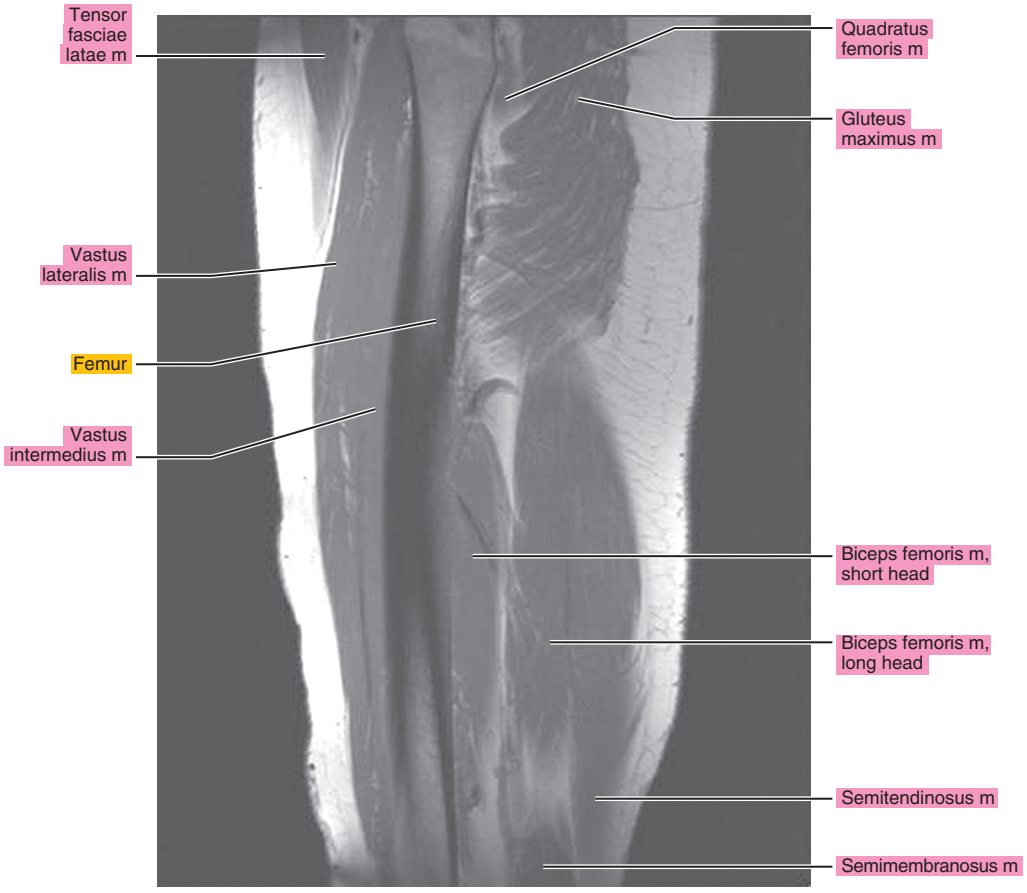

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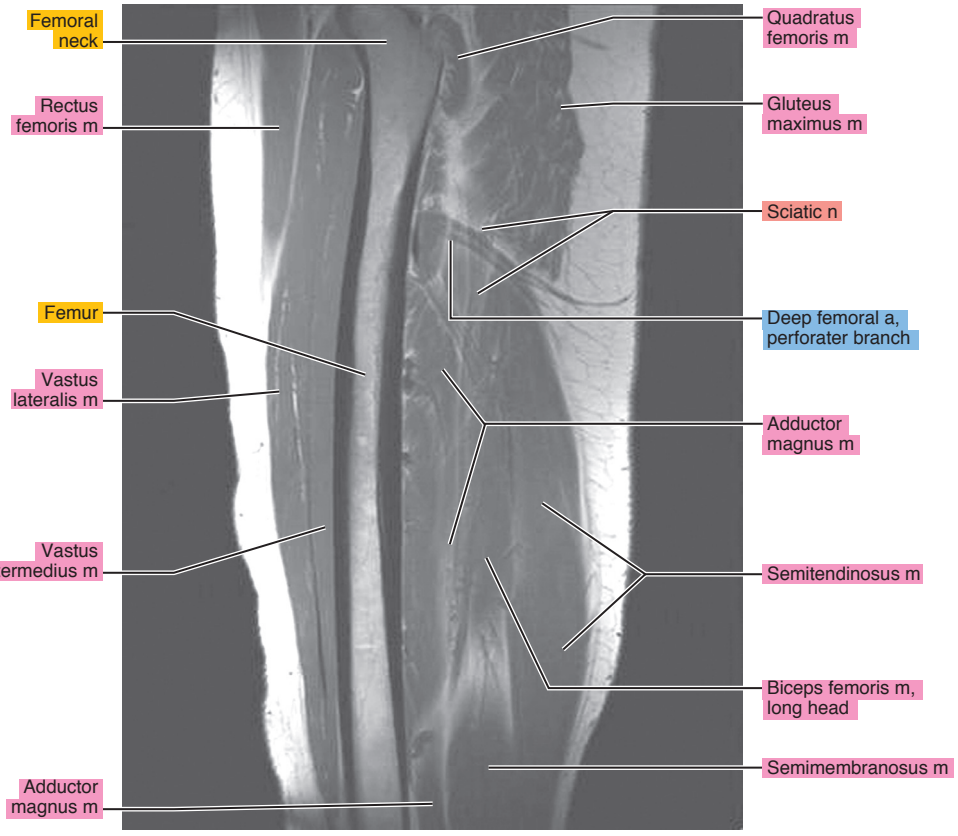

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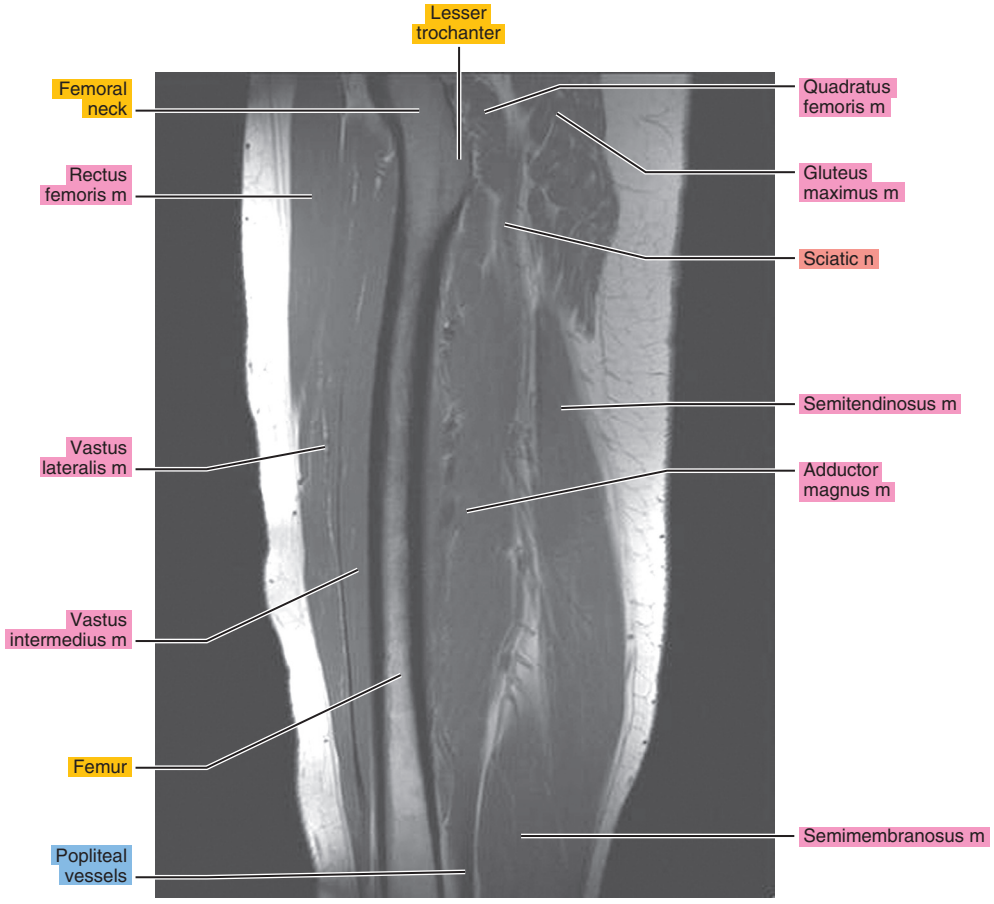

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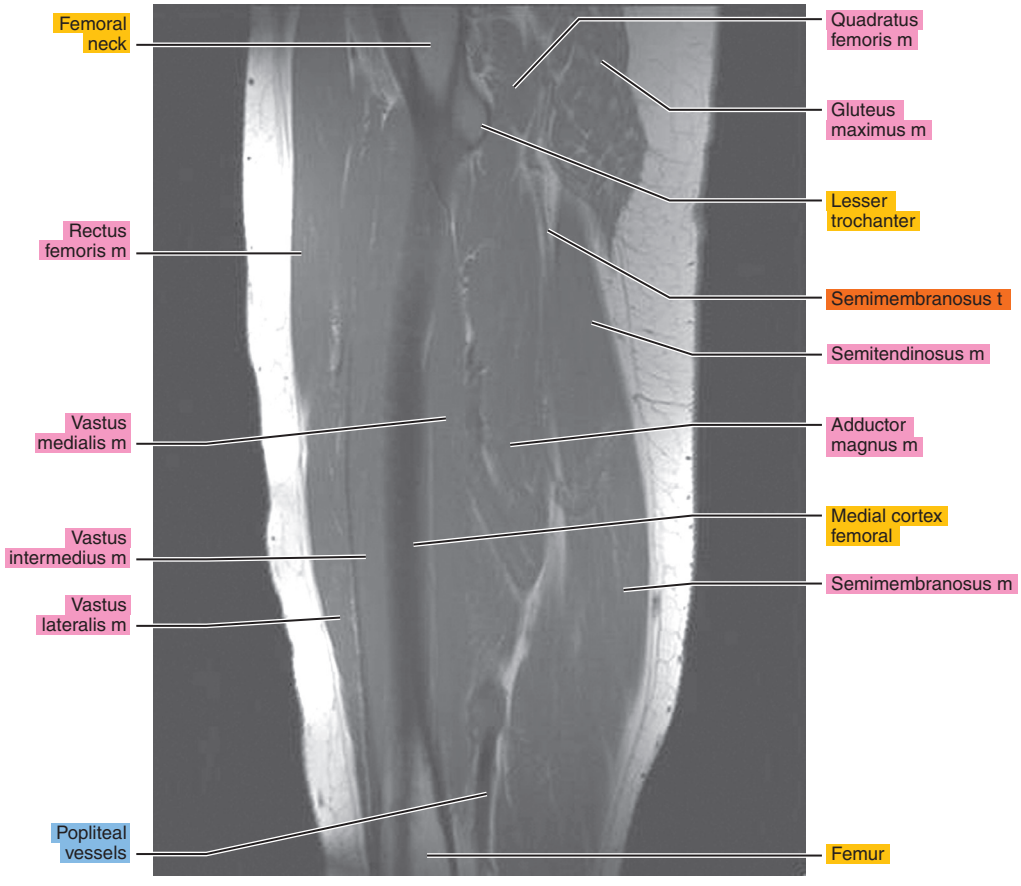

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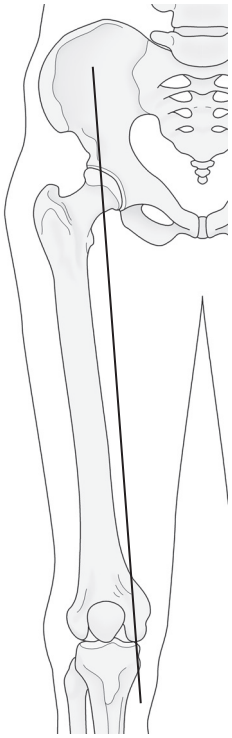

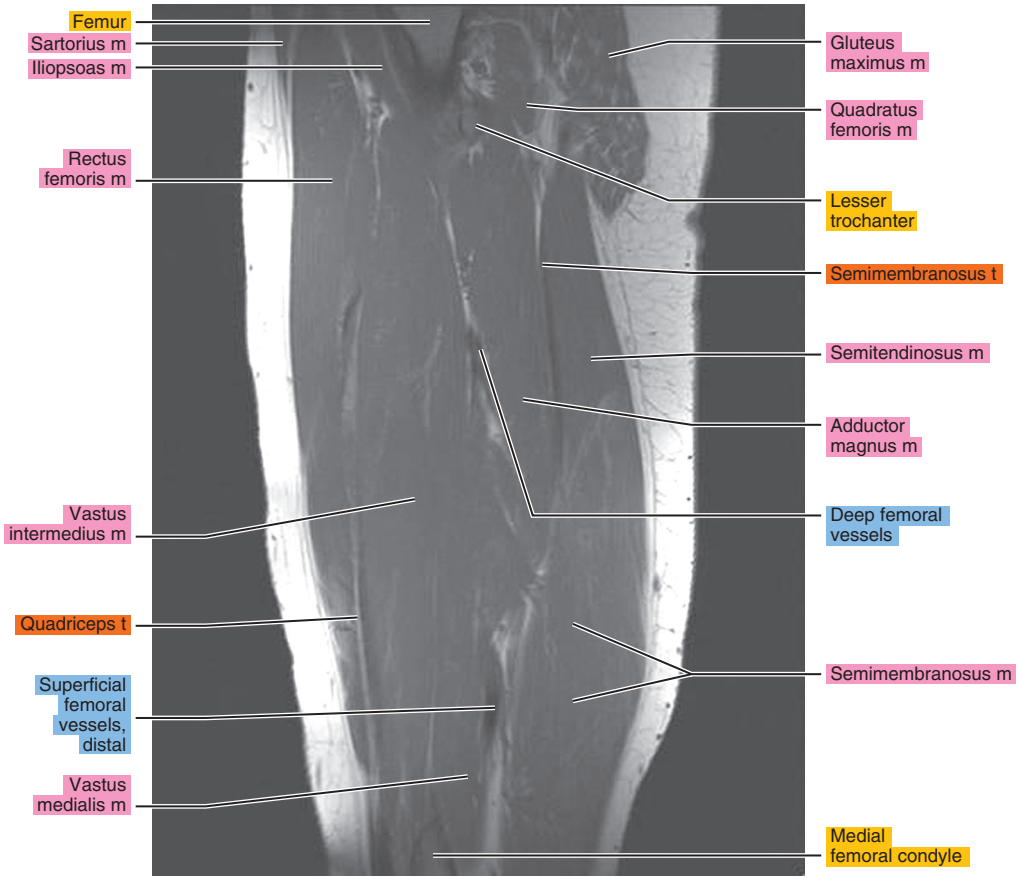

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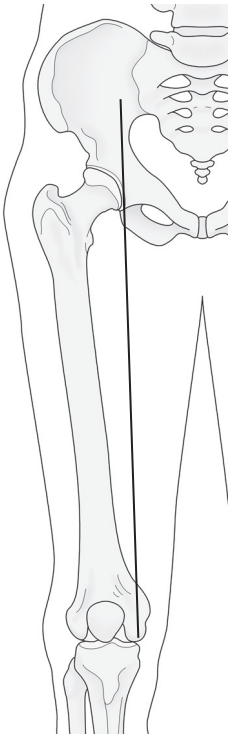

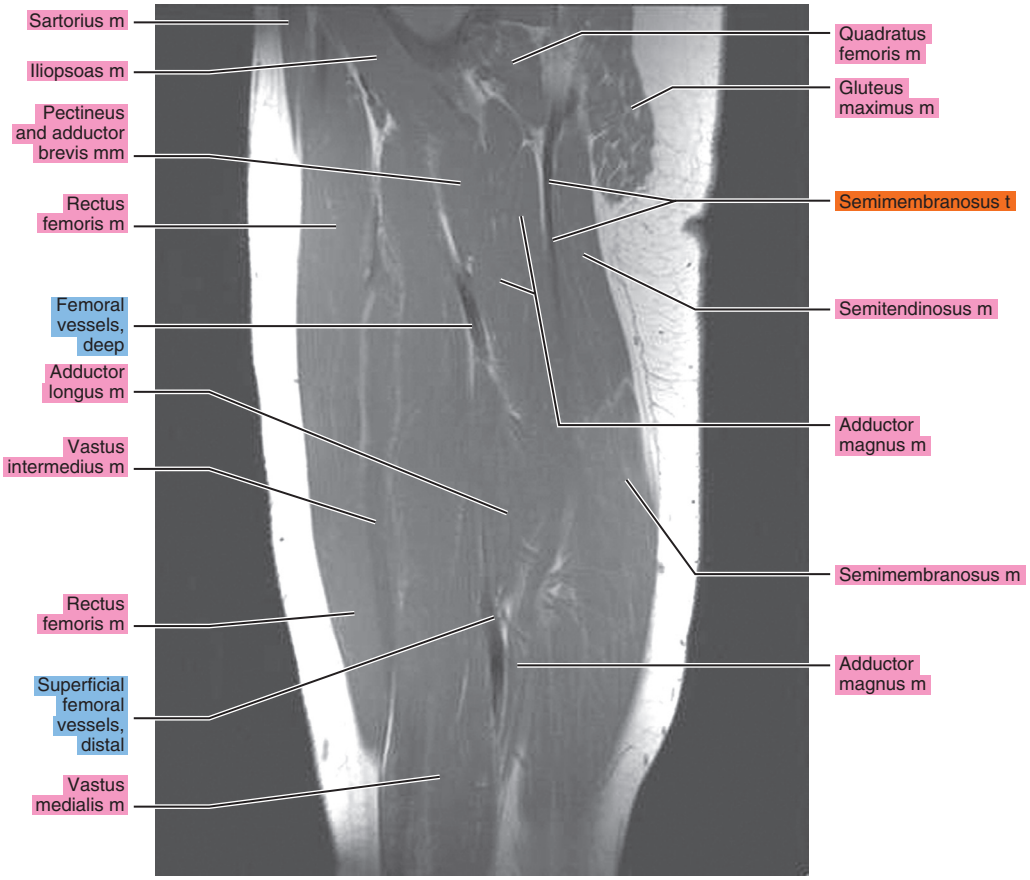

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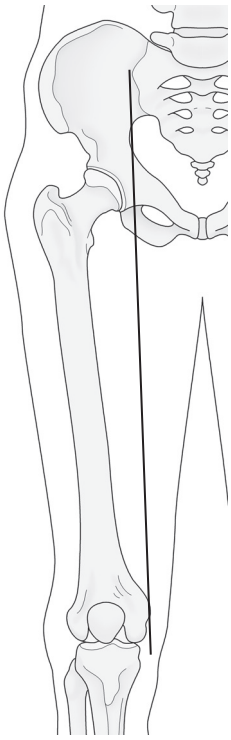

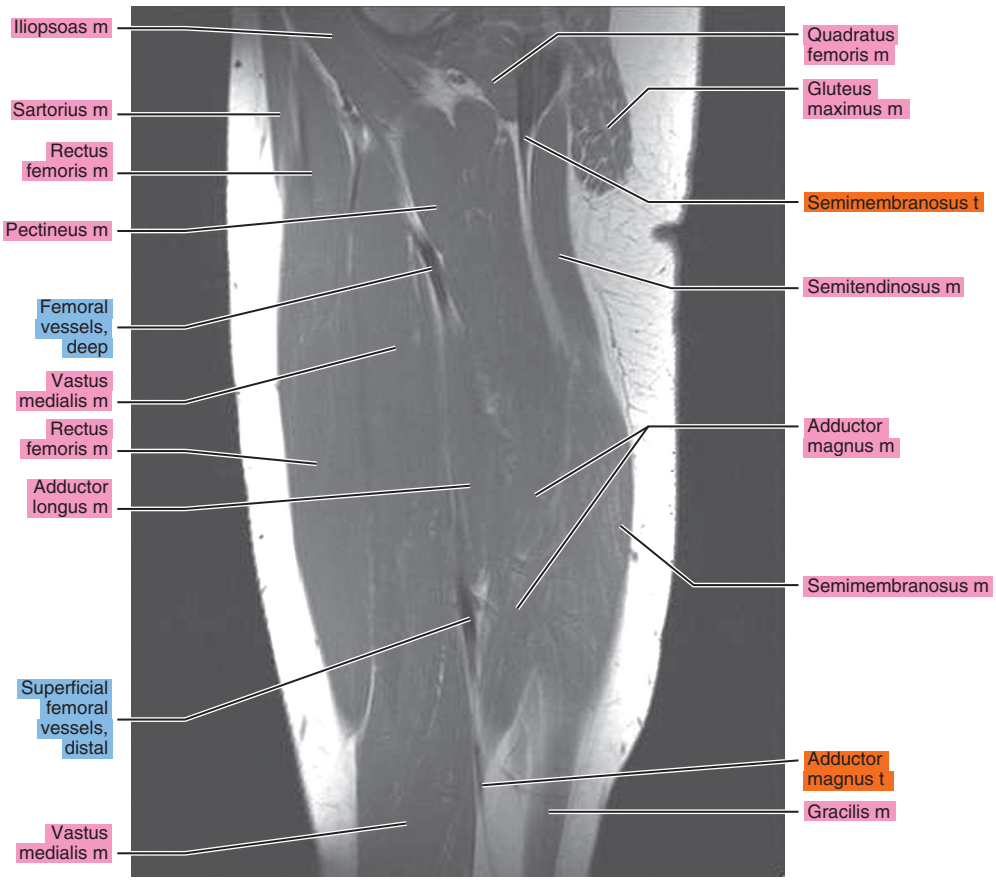

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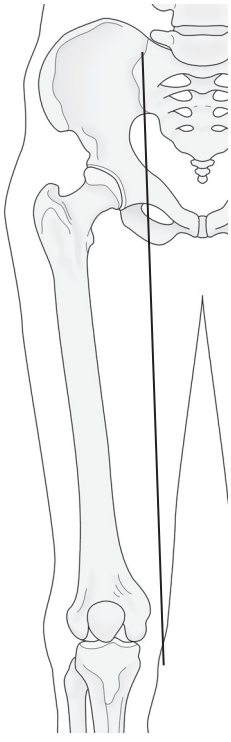

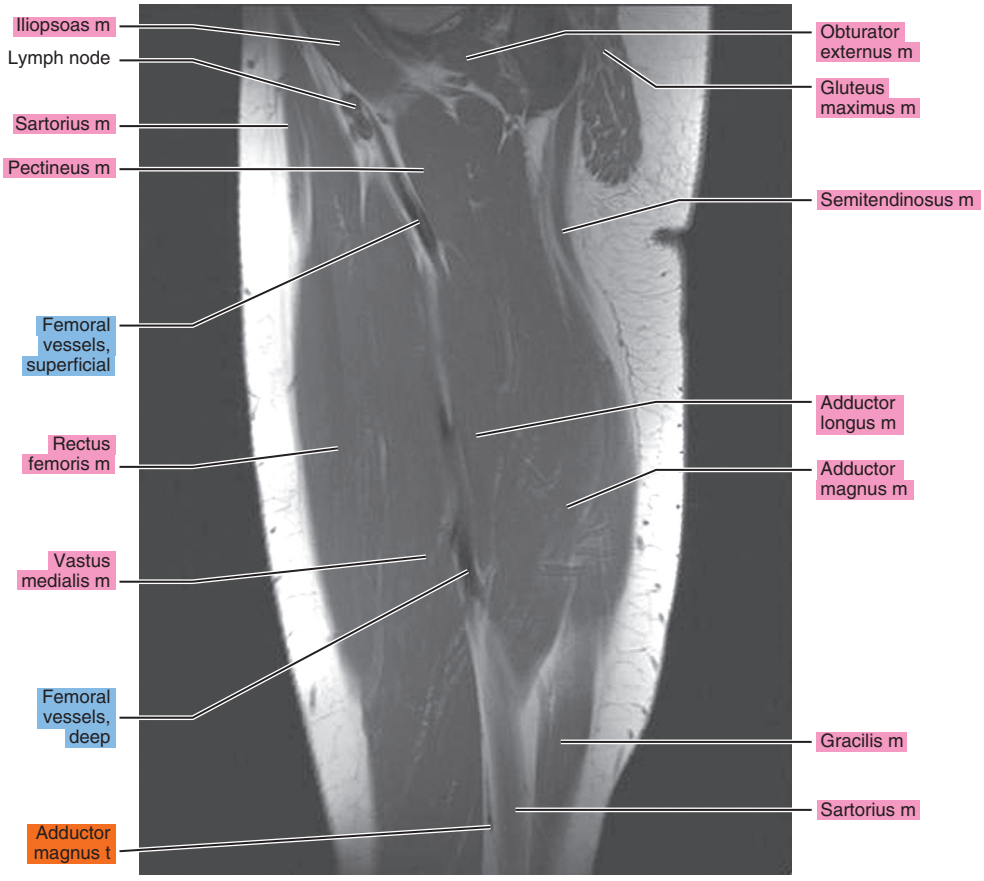

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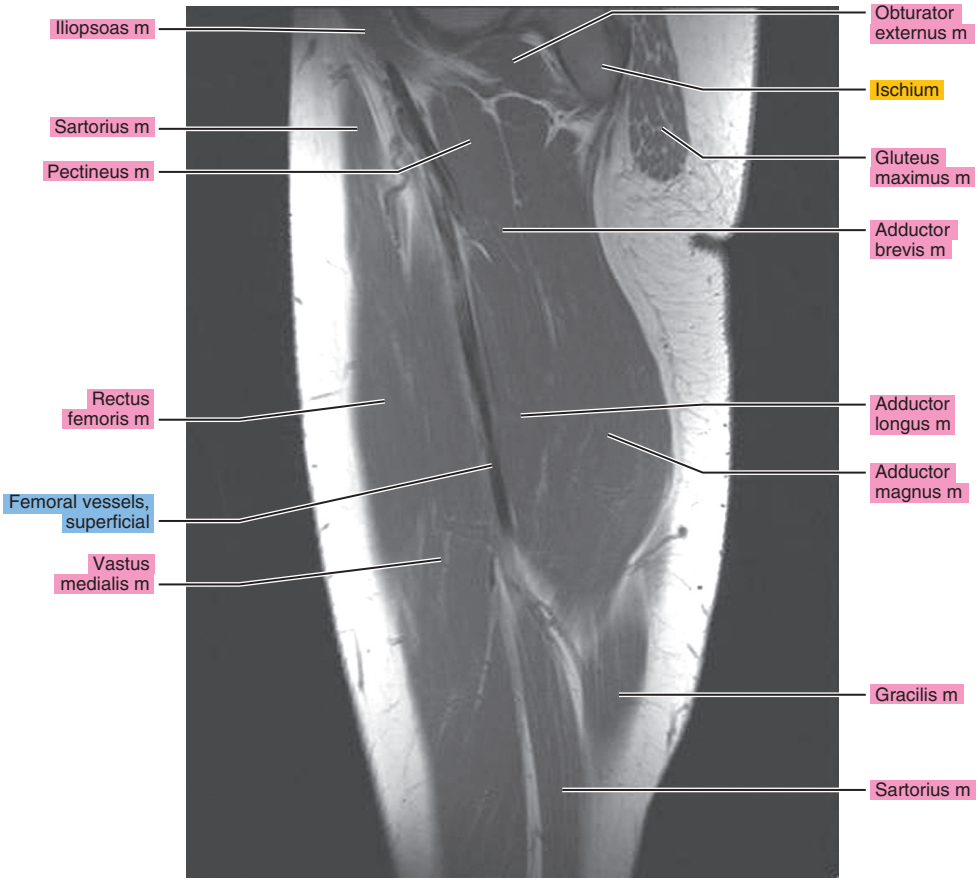

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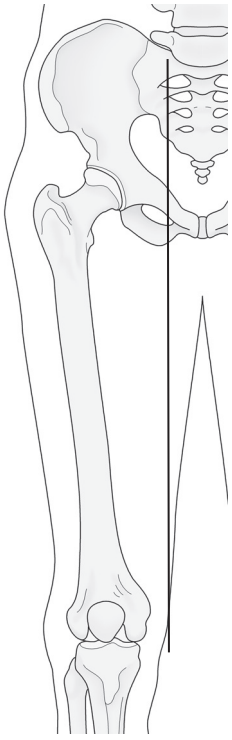

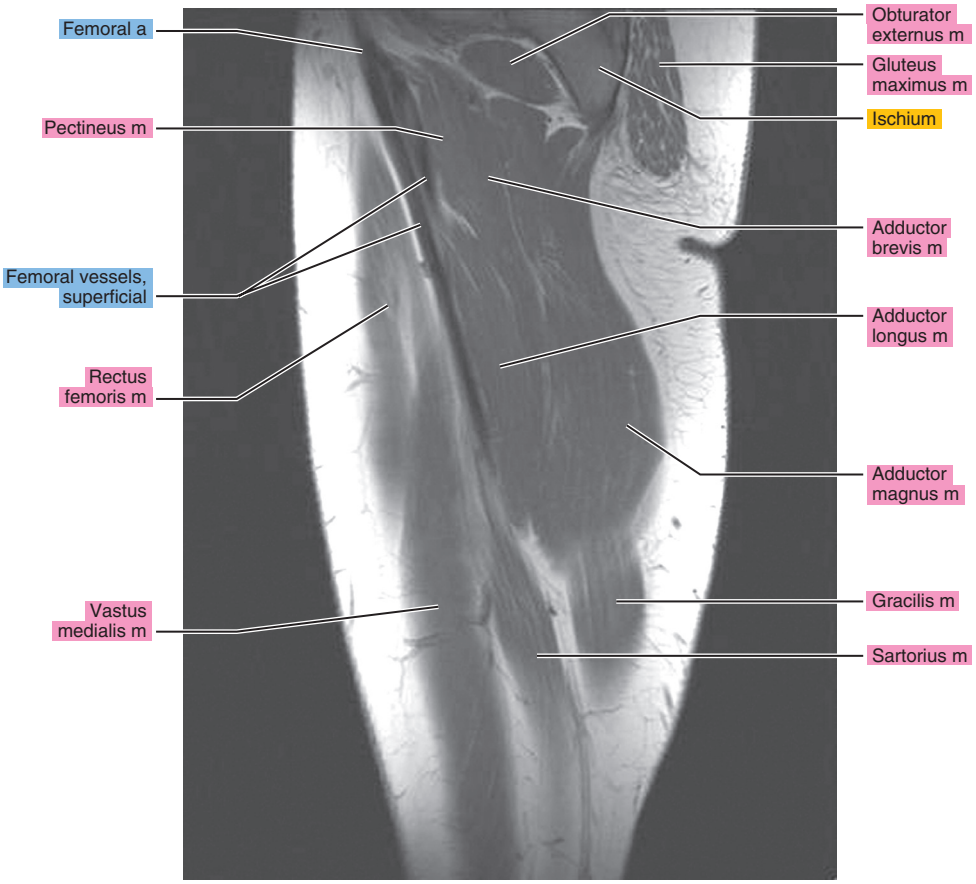

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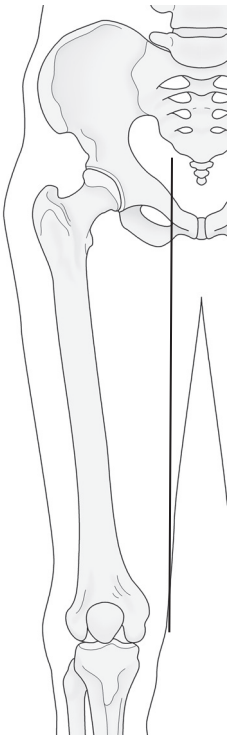

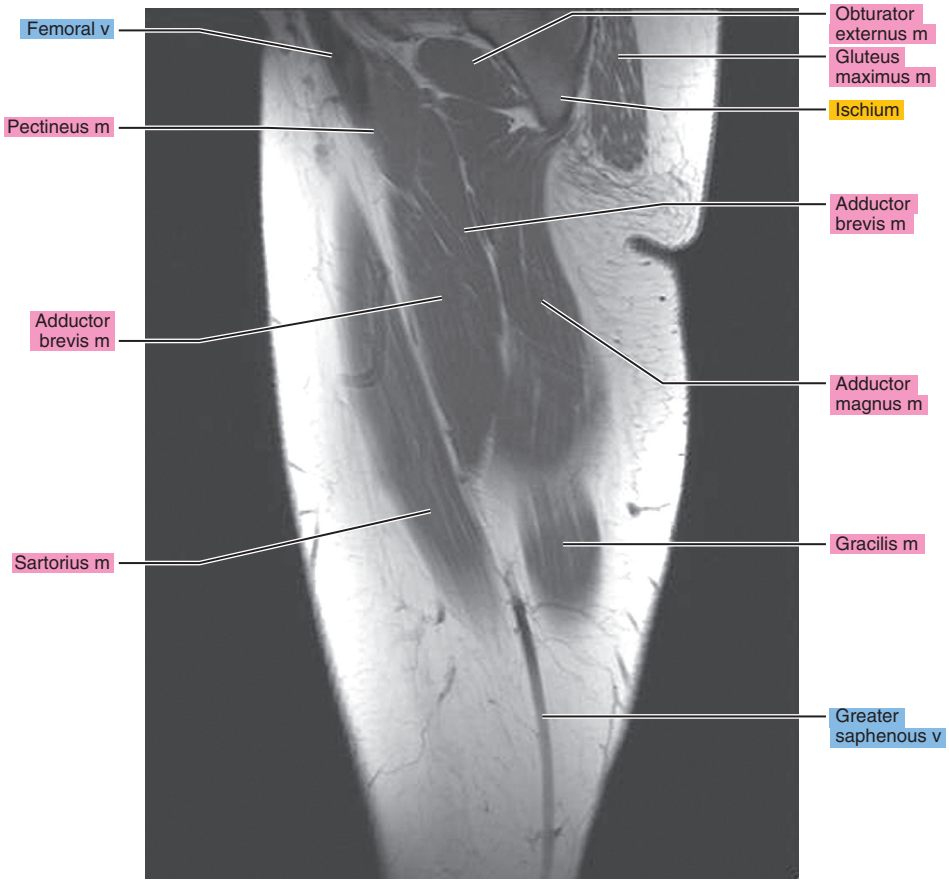

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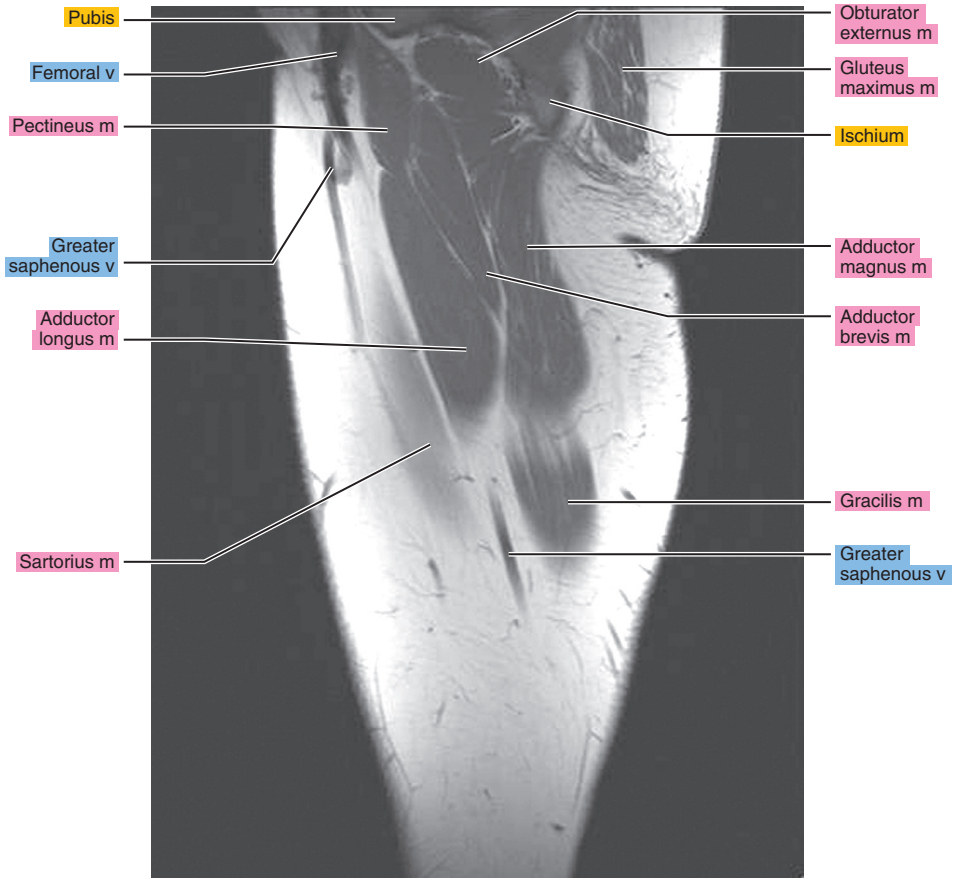

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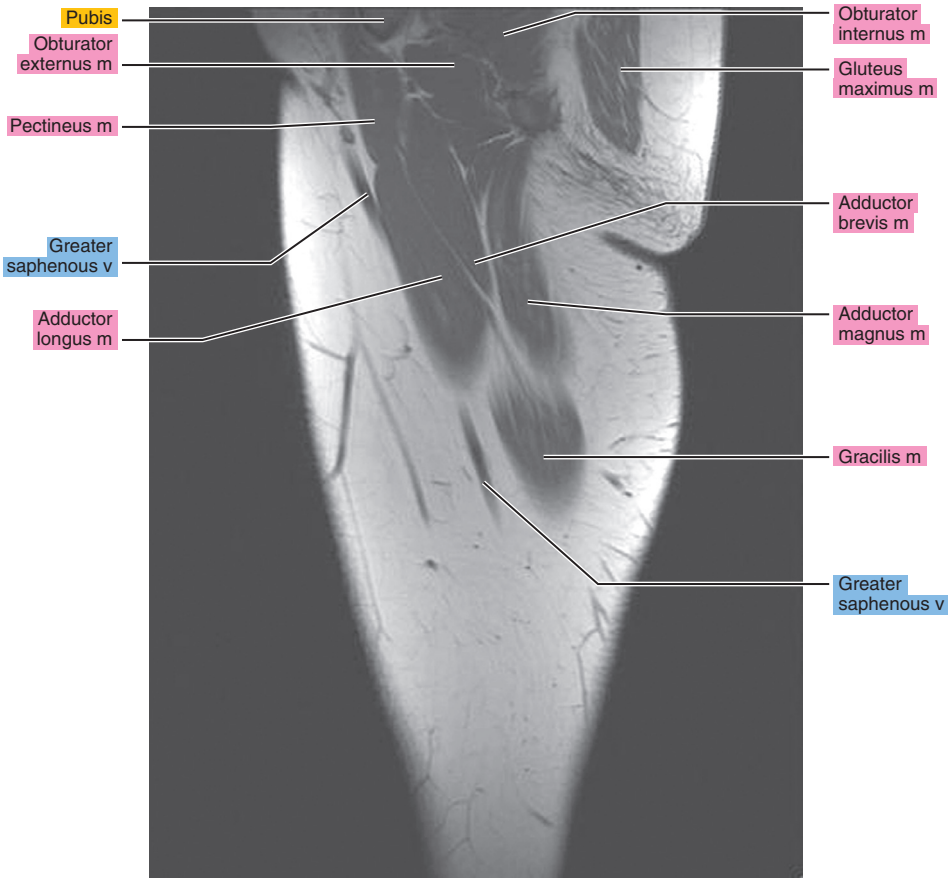

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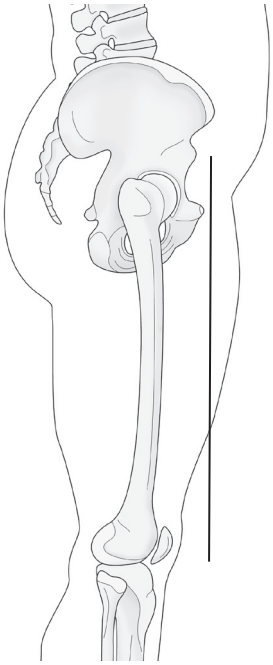
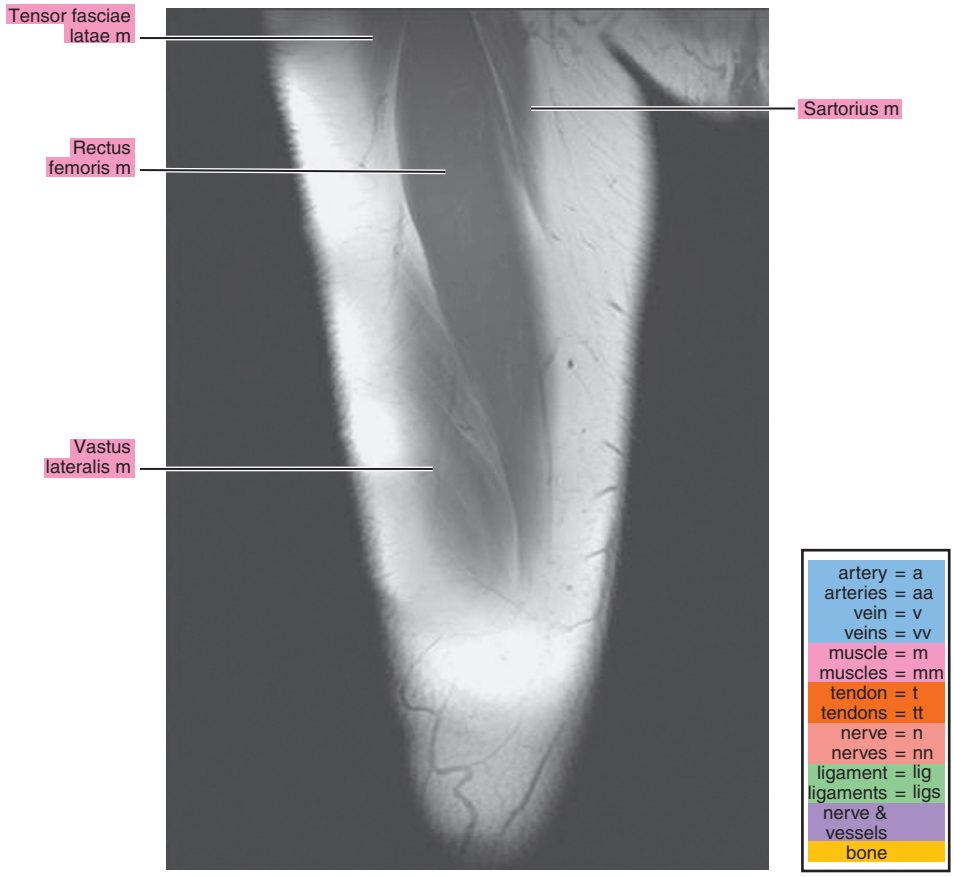
CORONAL

Figure 11.3.1





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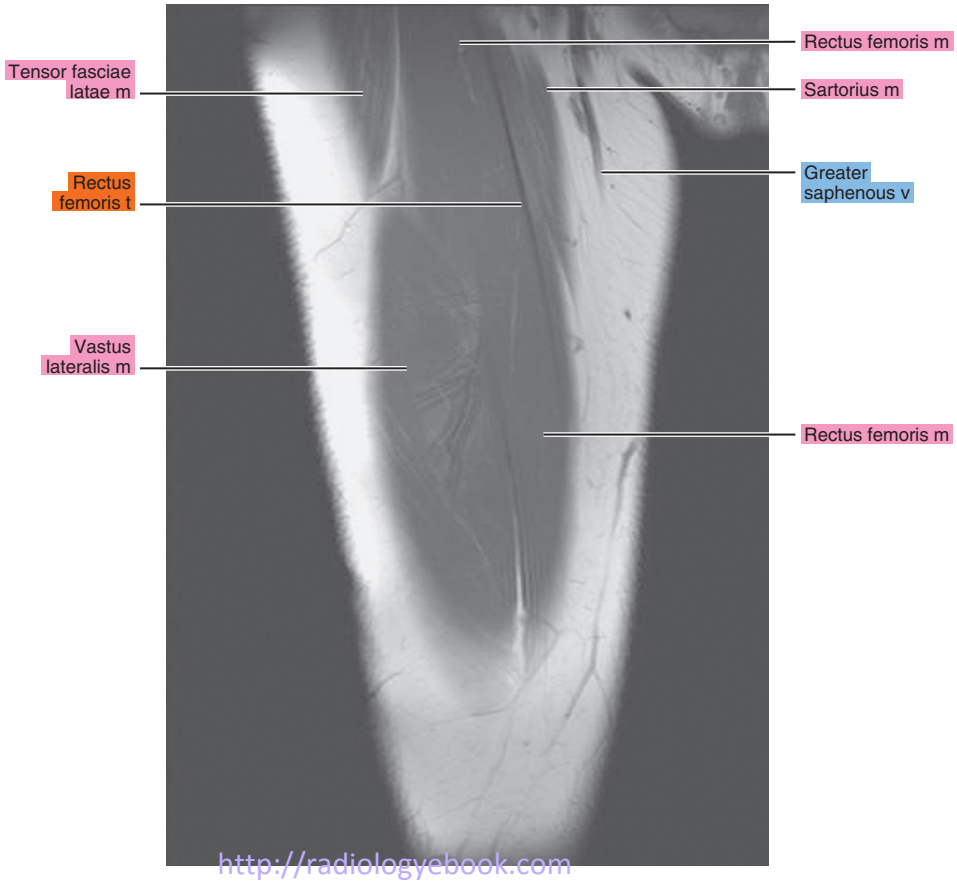

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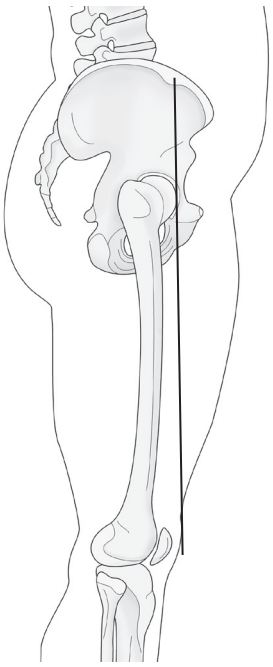

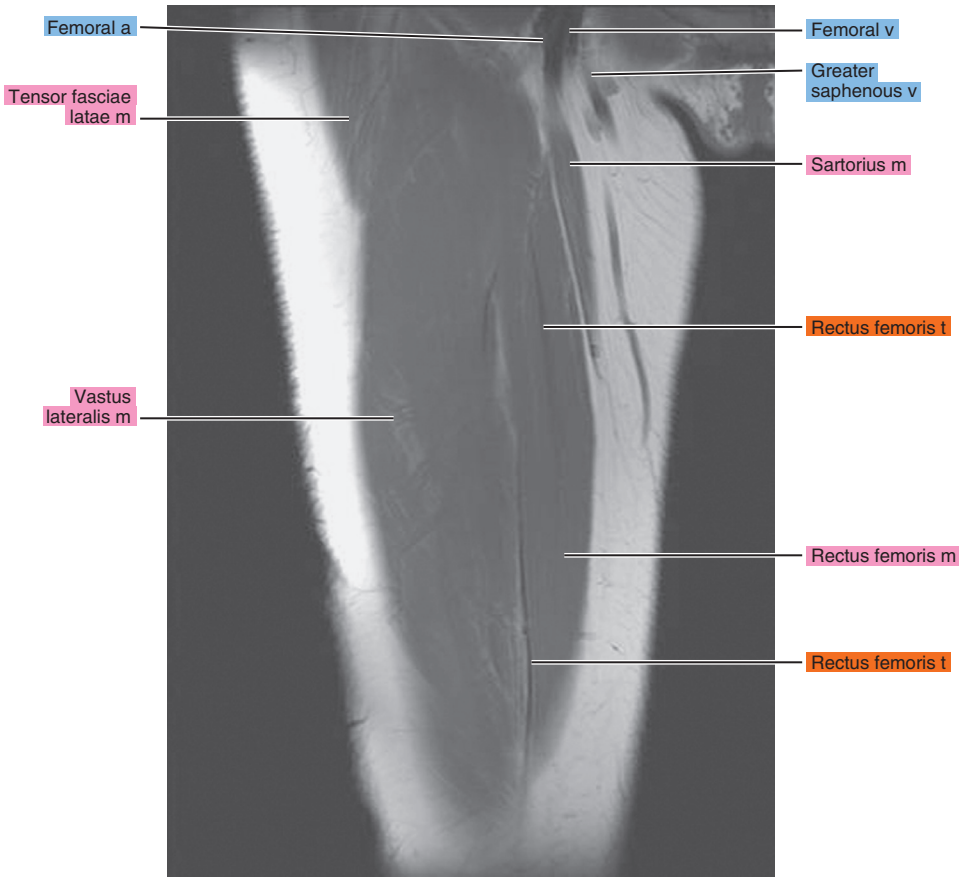

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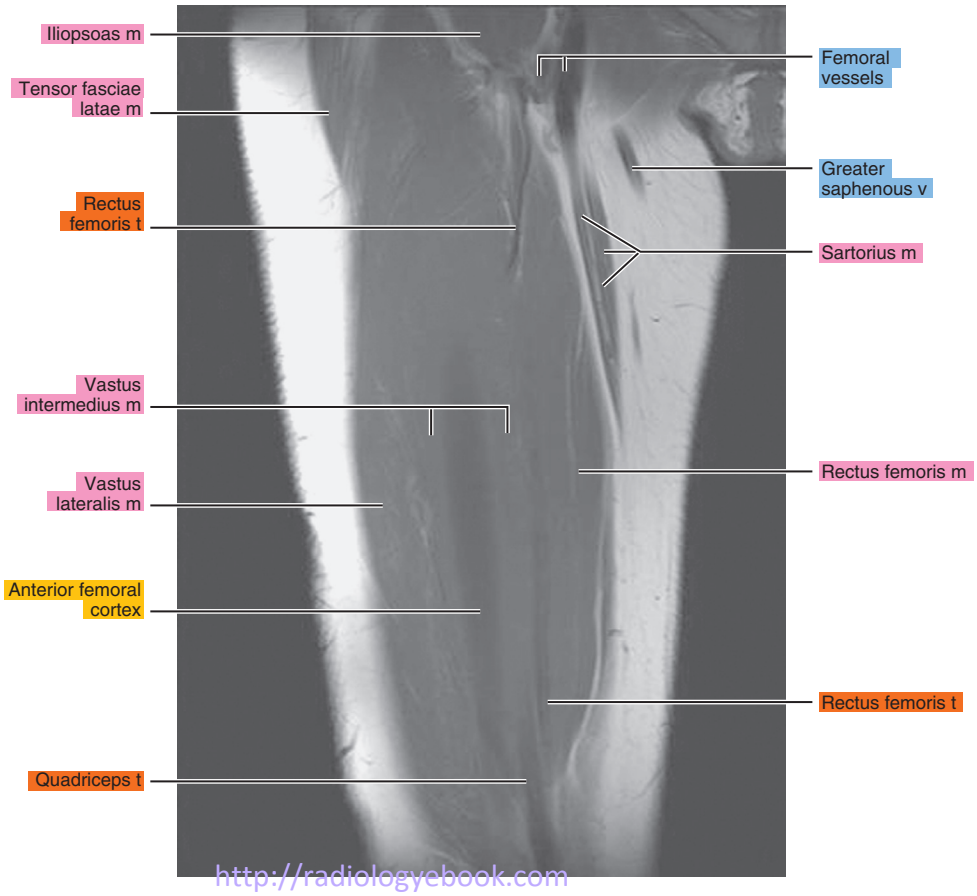

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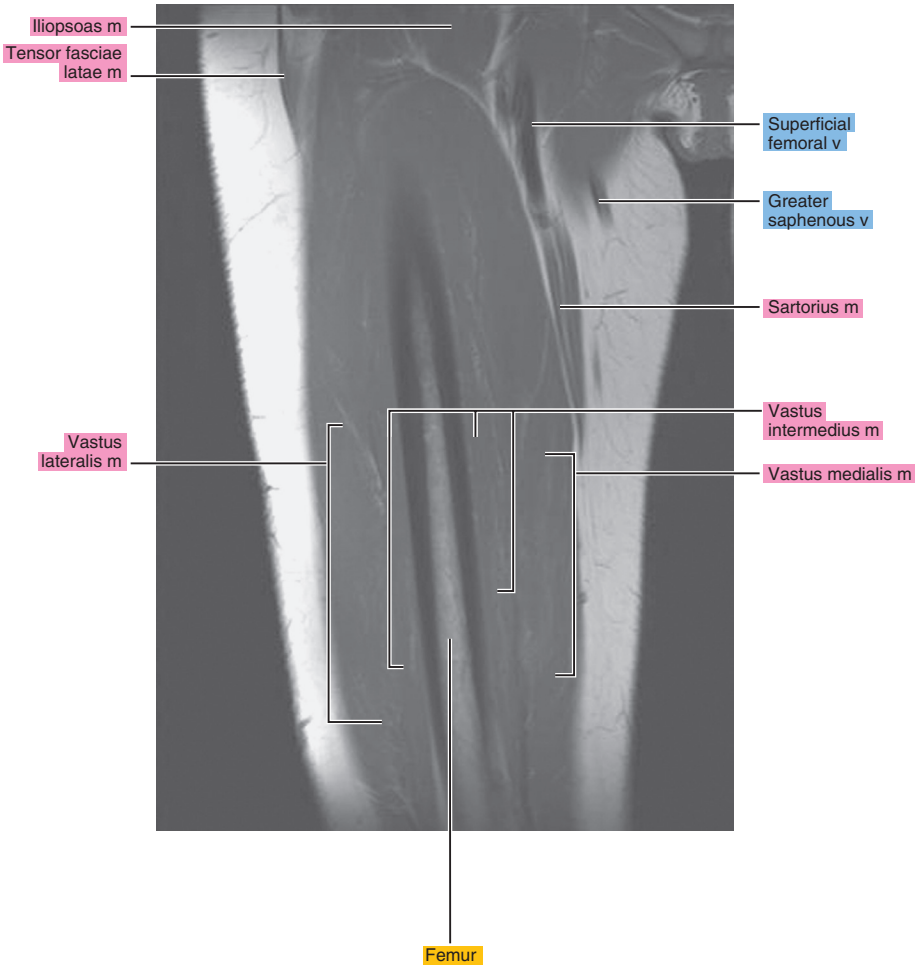

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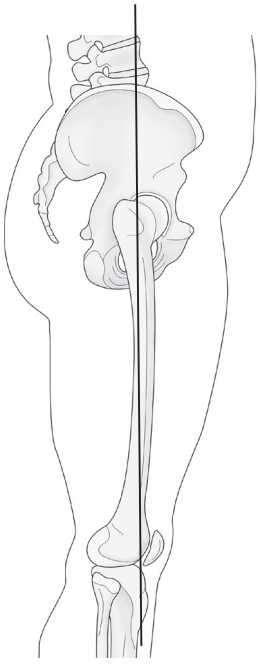

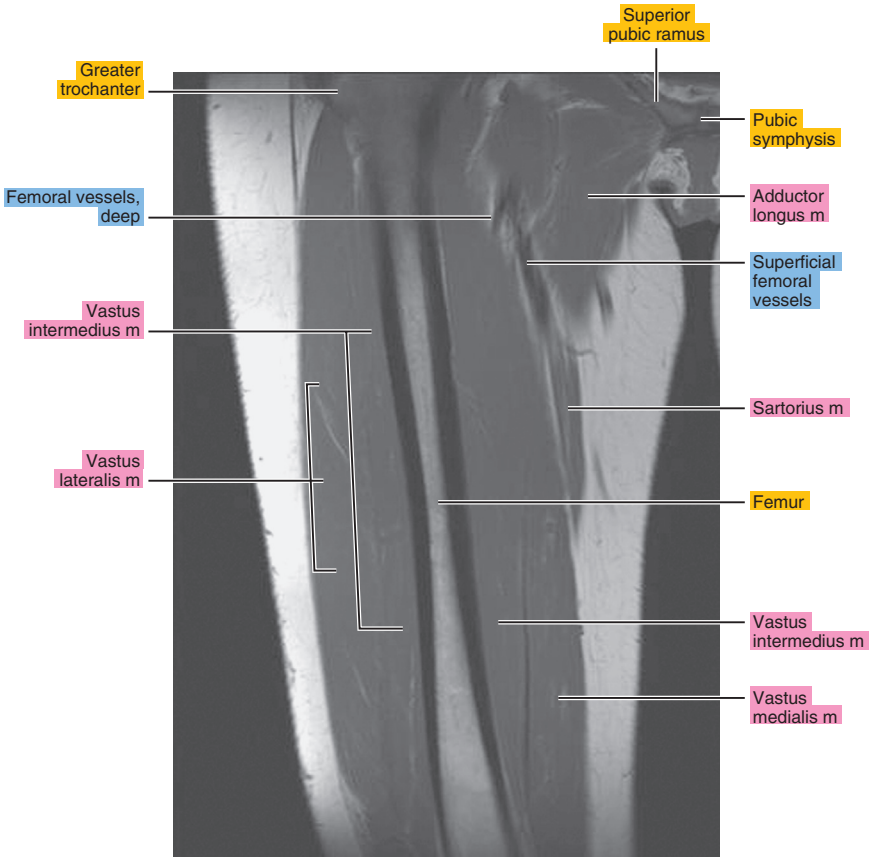

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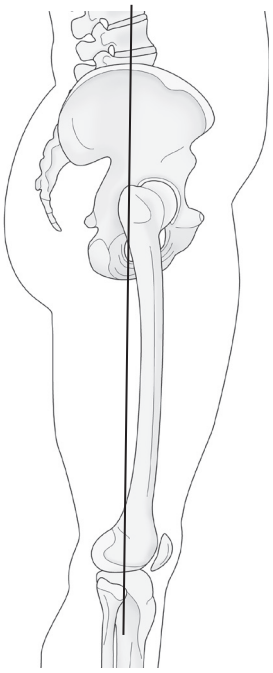

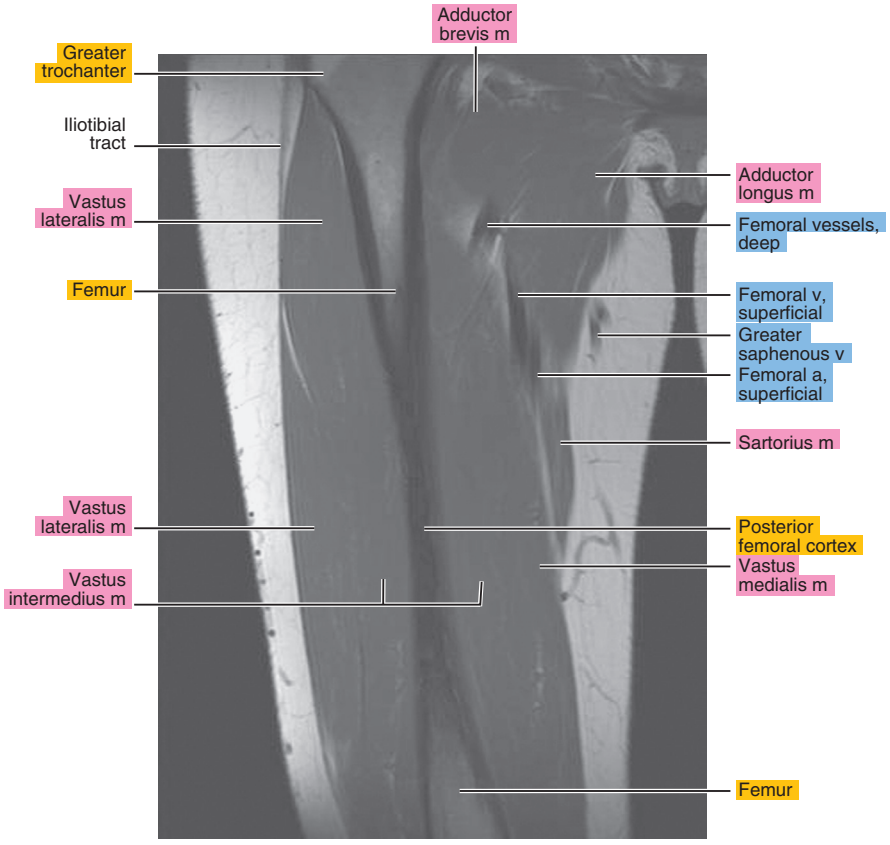

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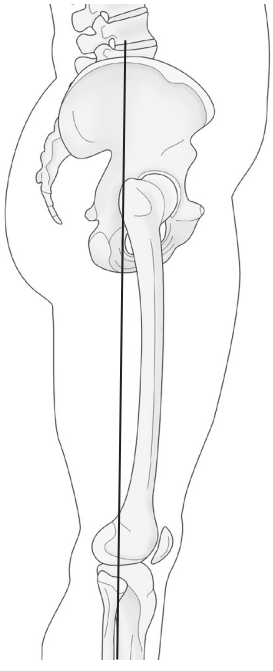

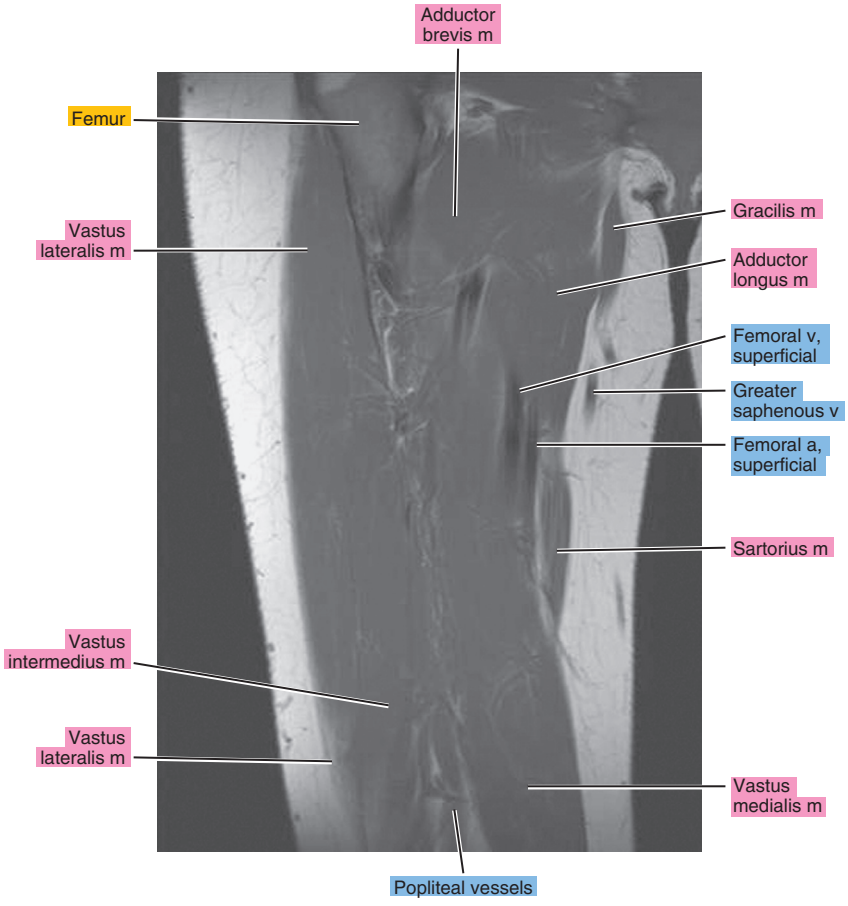

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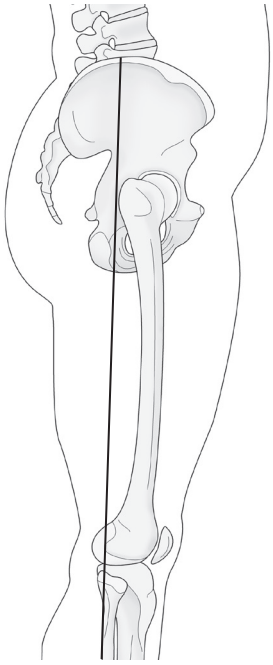

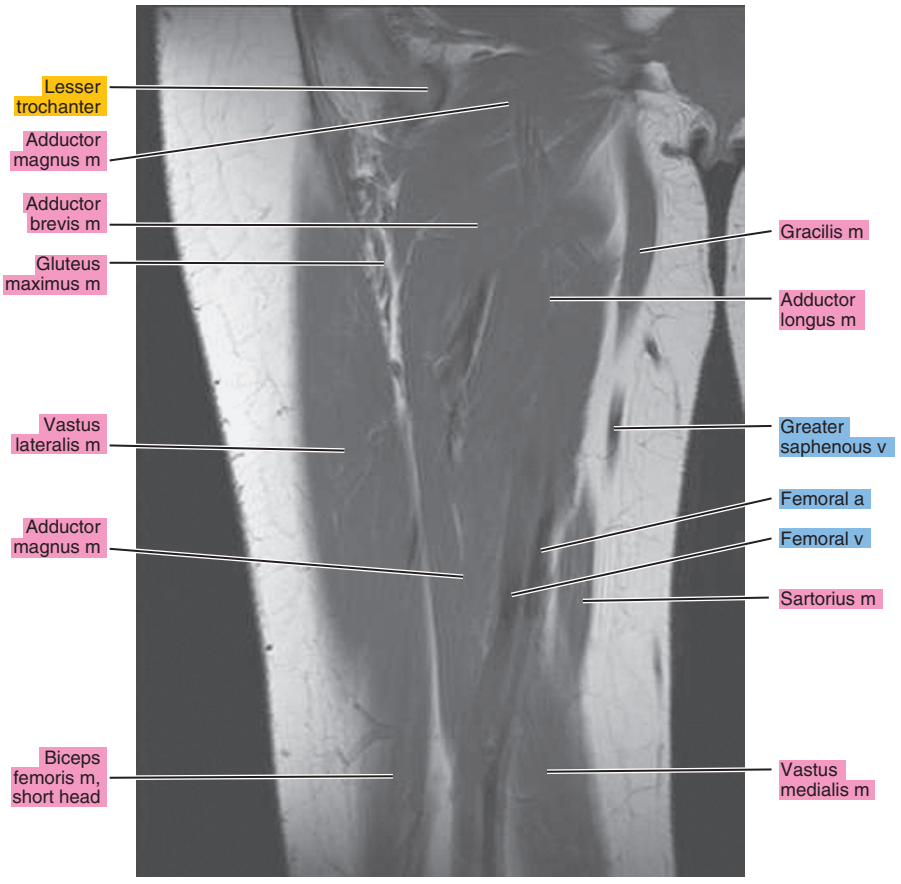

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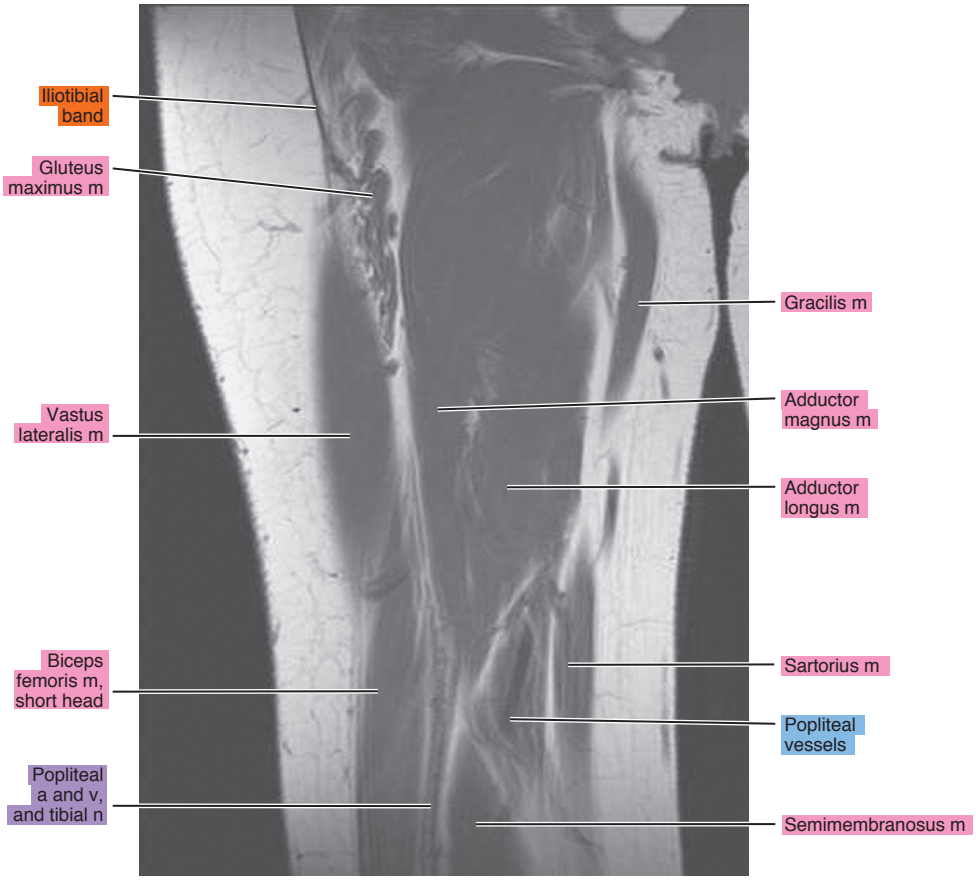

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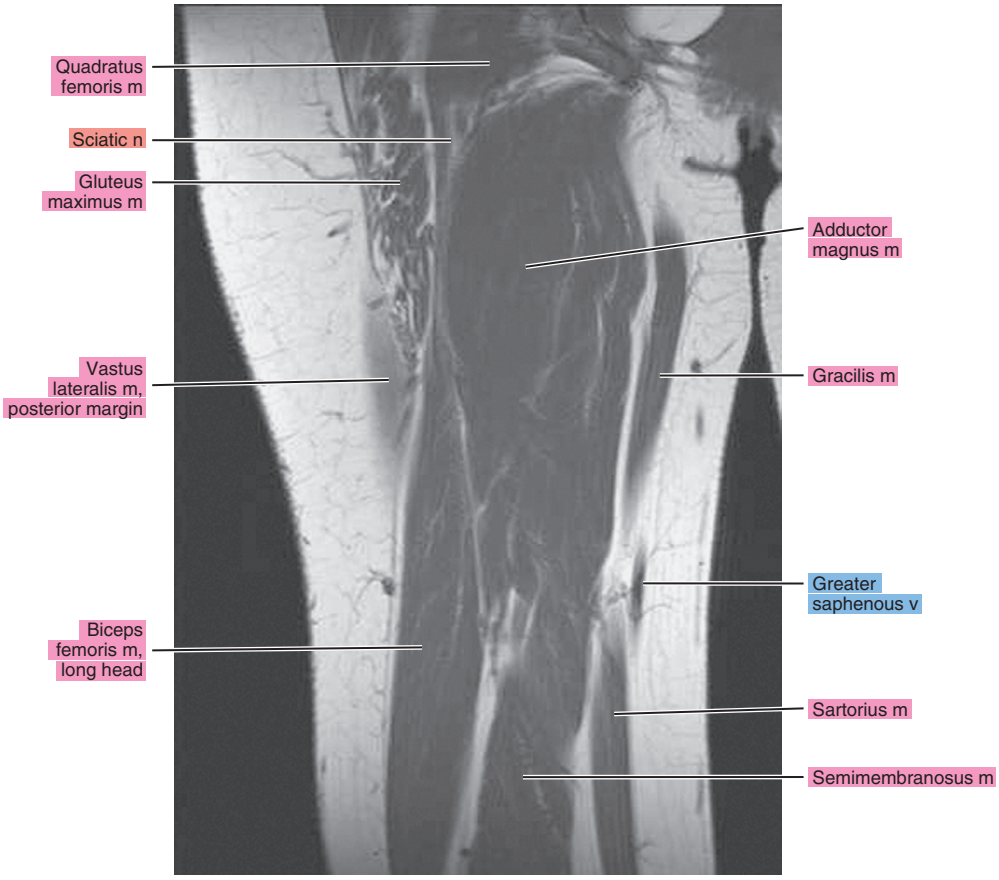

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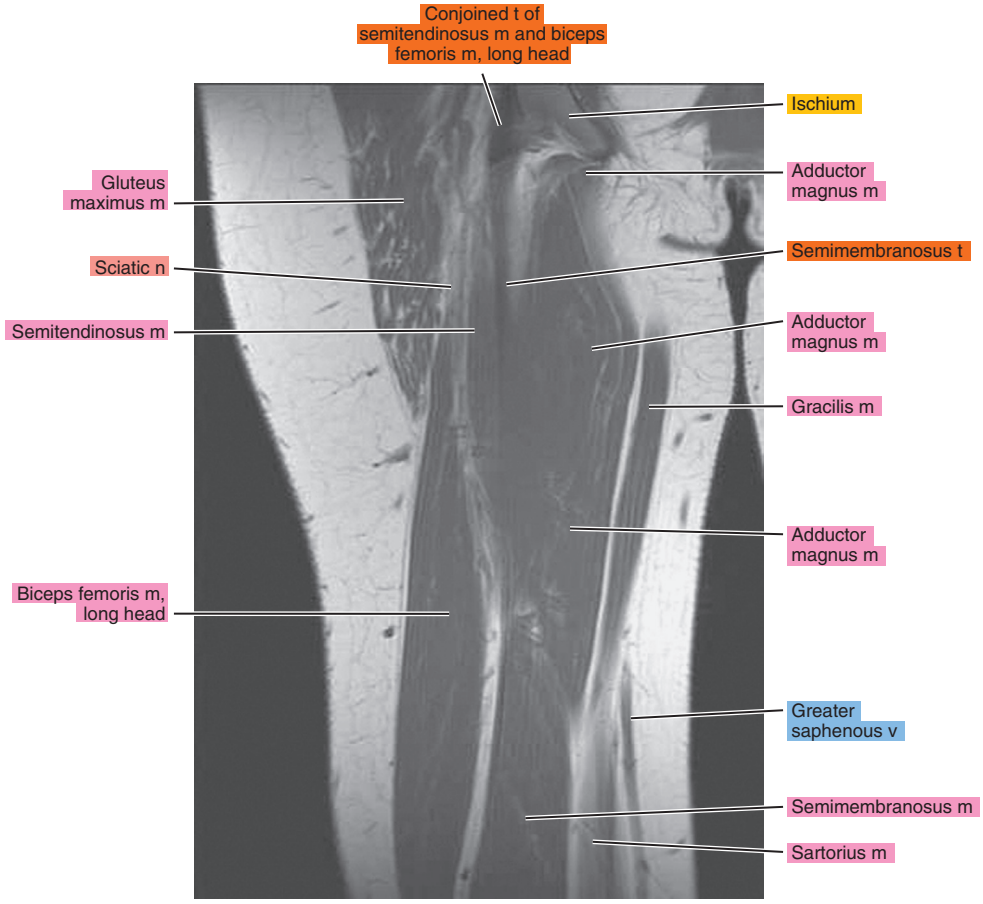

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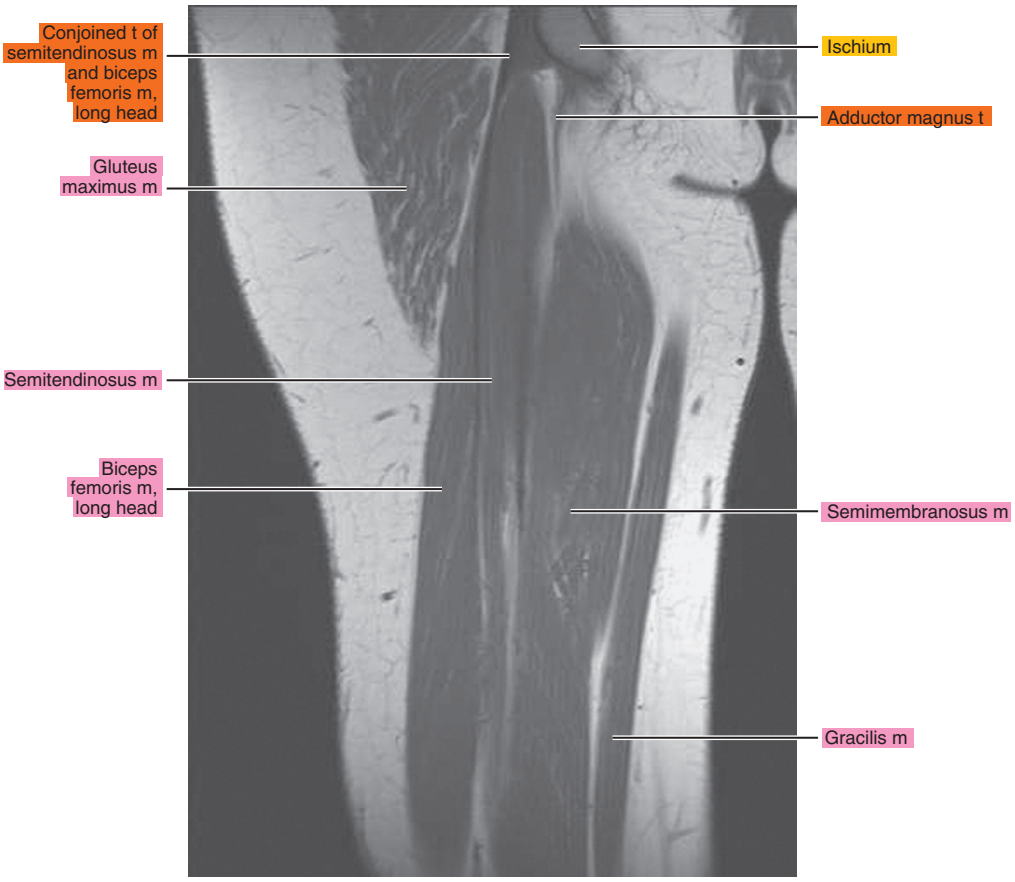

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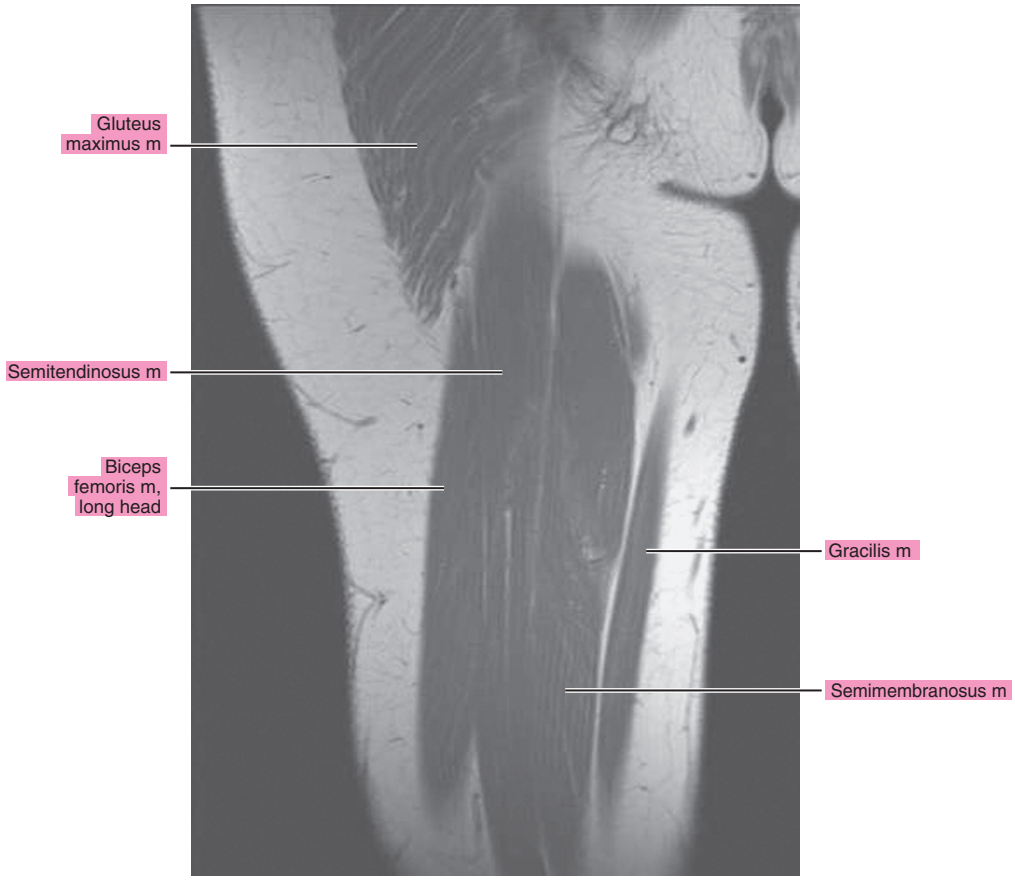

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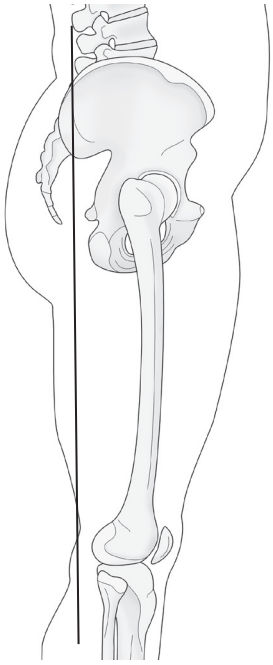

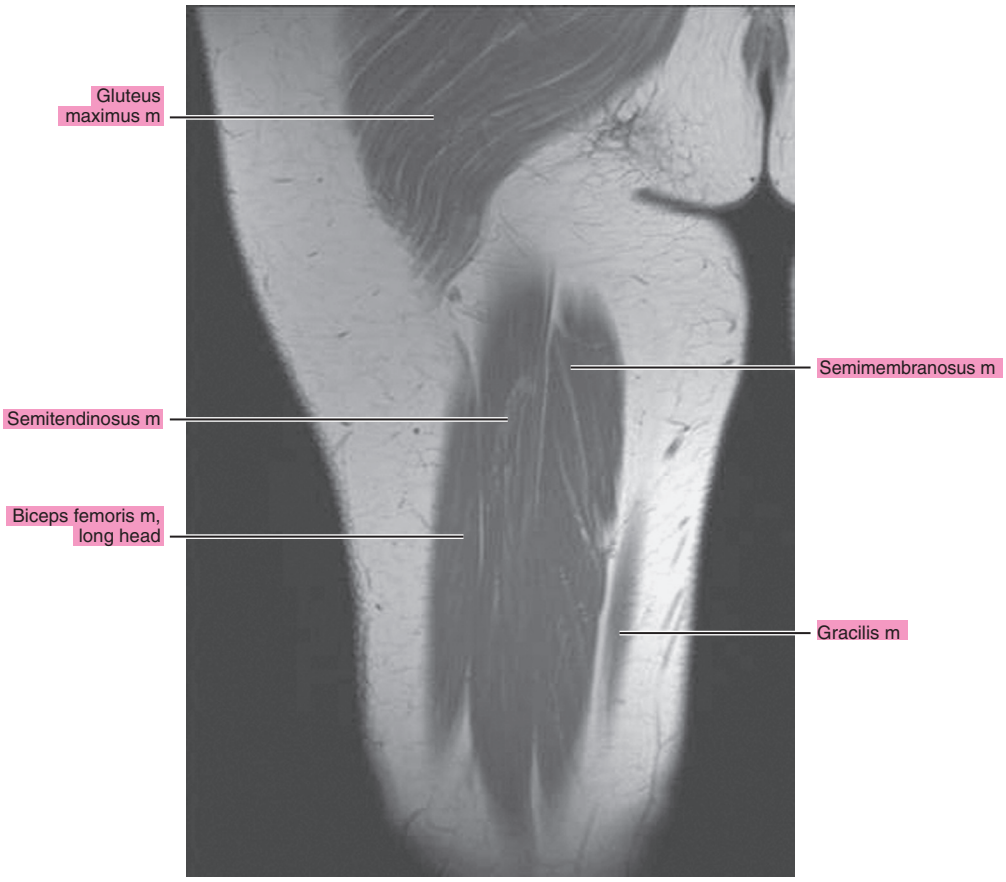

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Chapter

12

MRI of the Knee

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AXIAL

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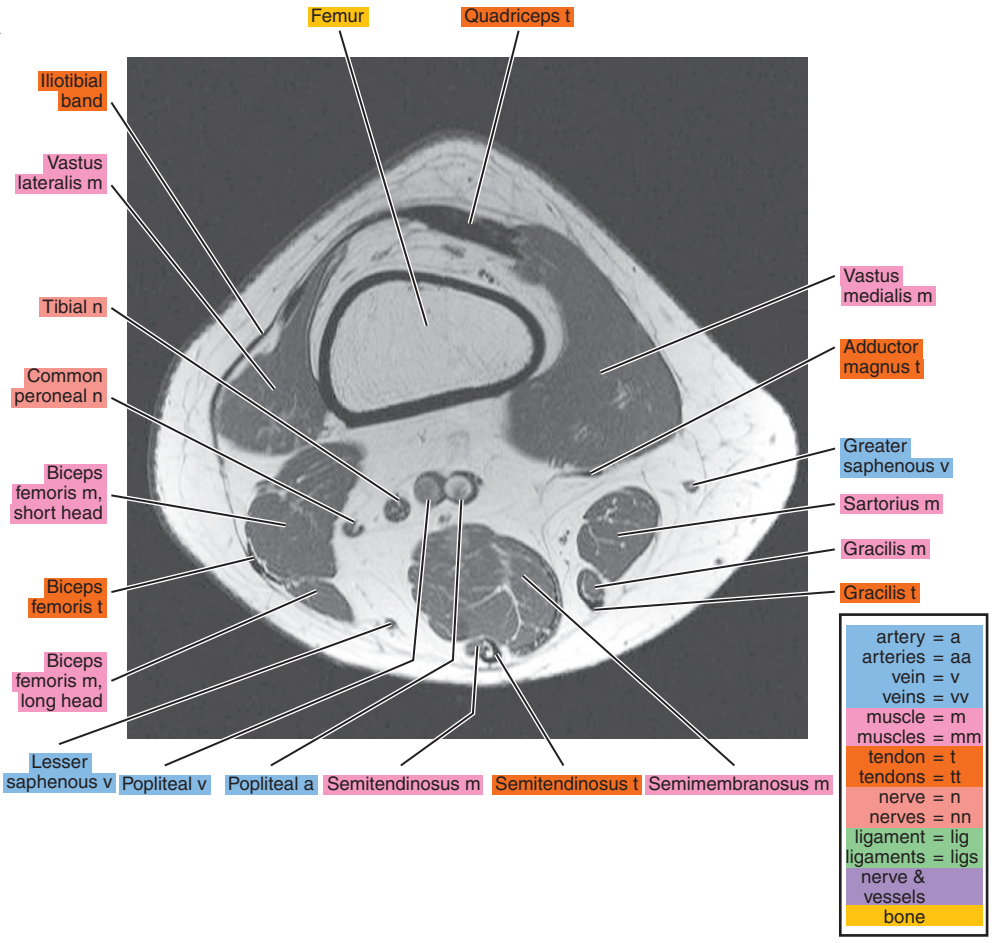

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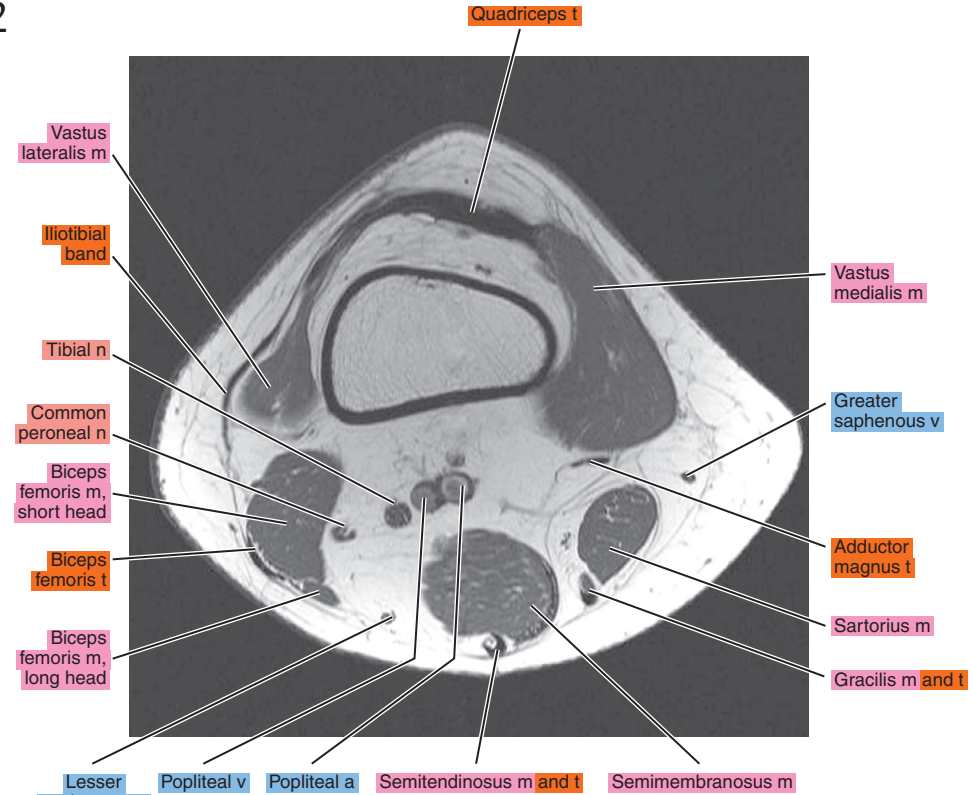

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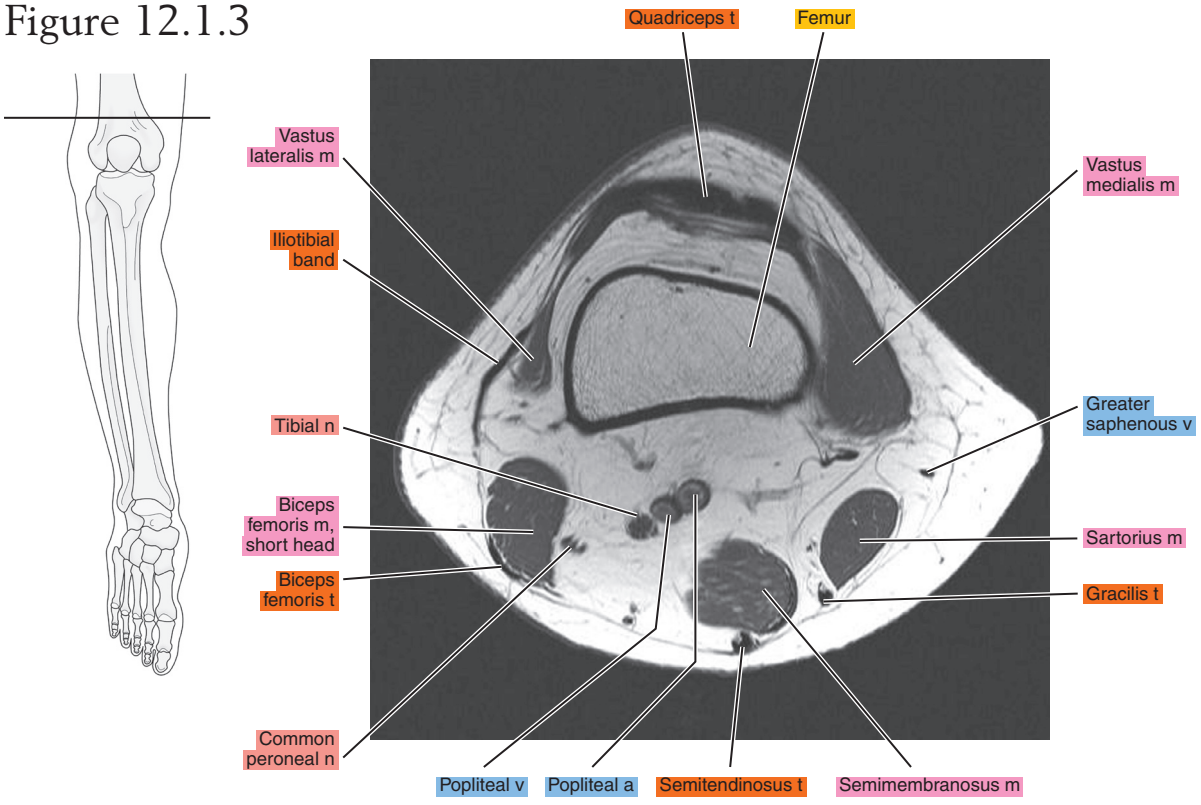

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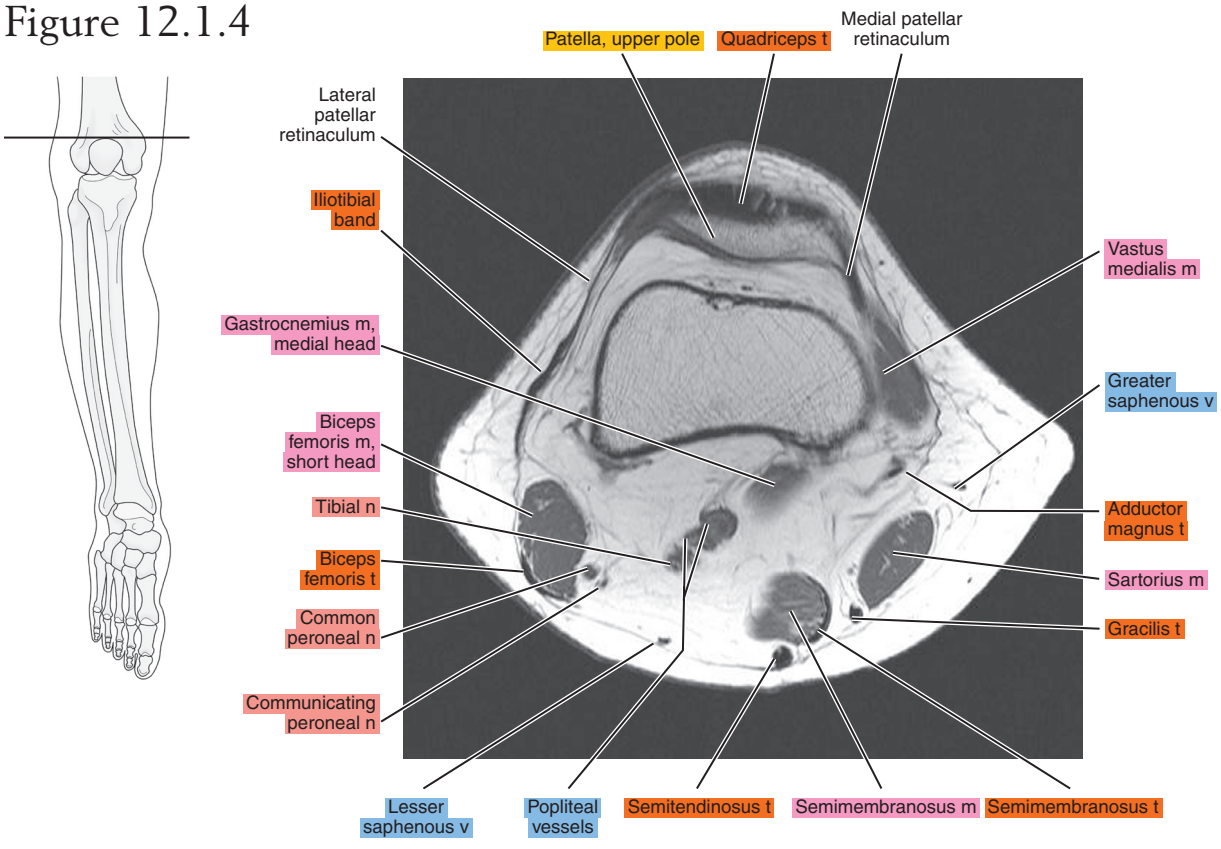

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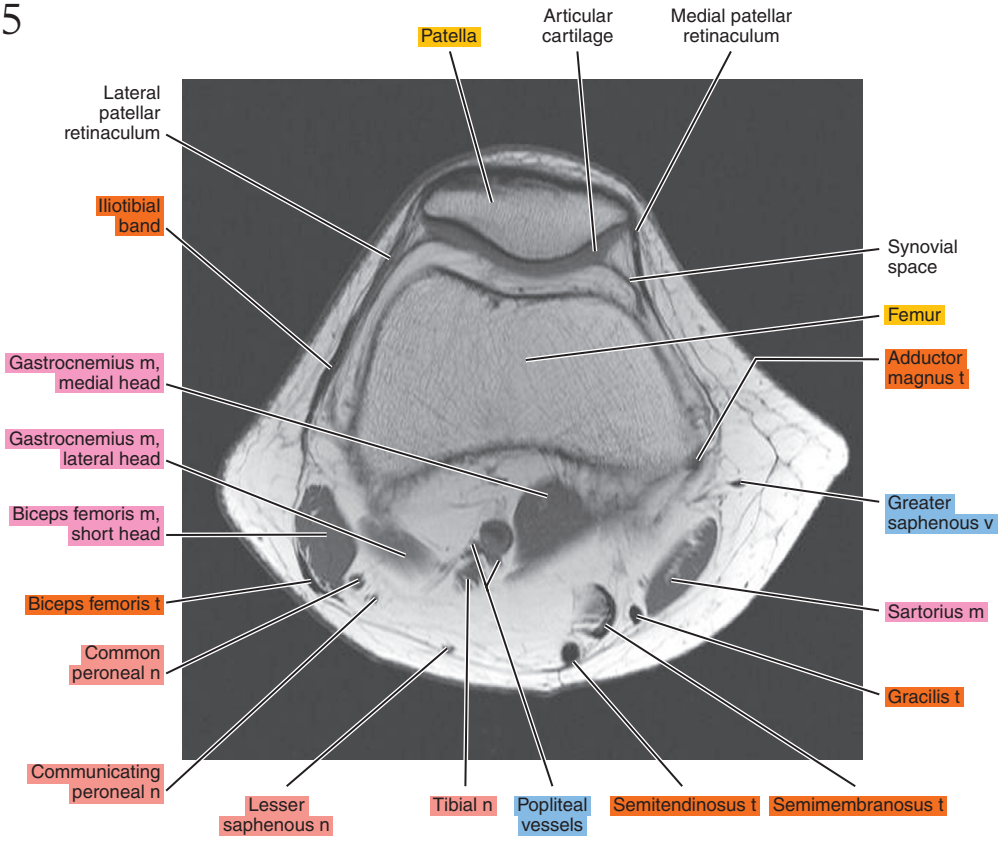

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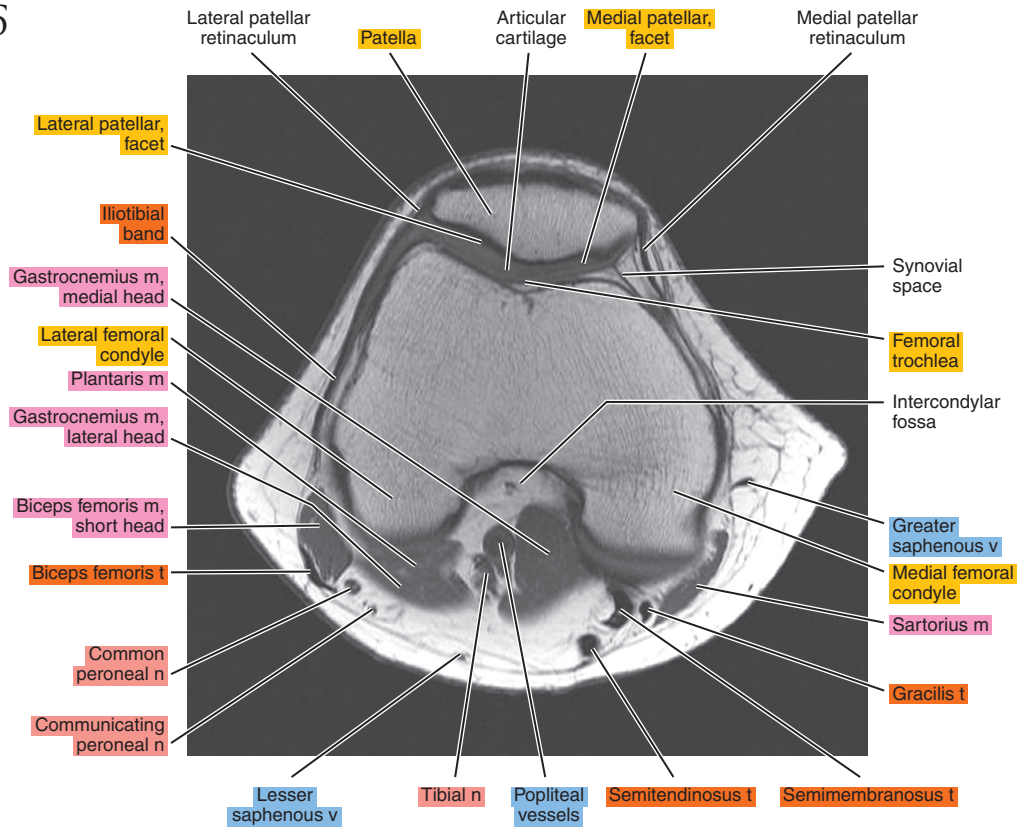

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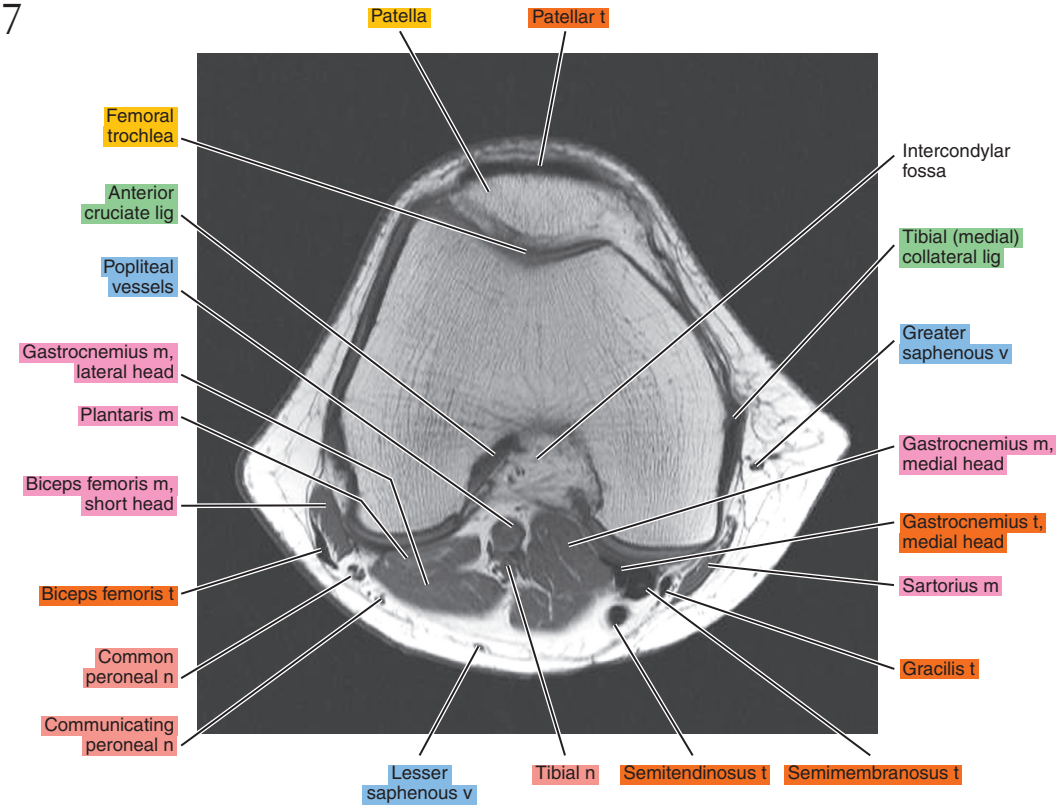

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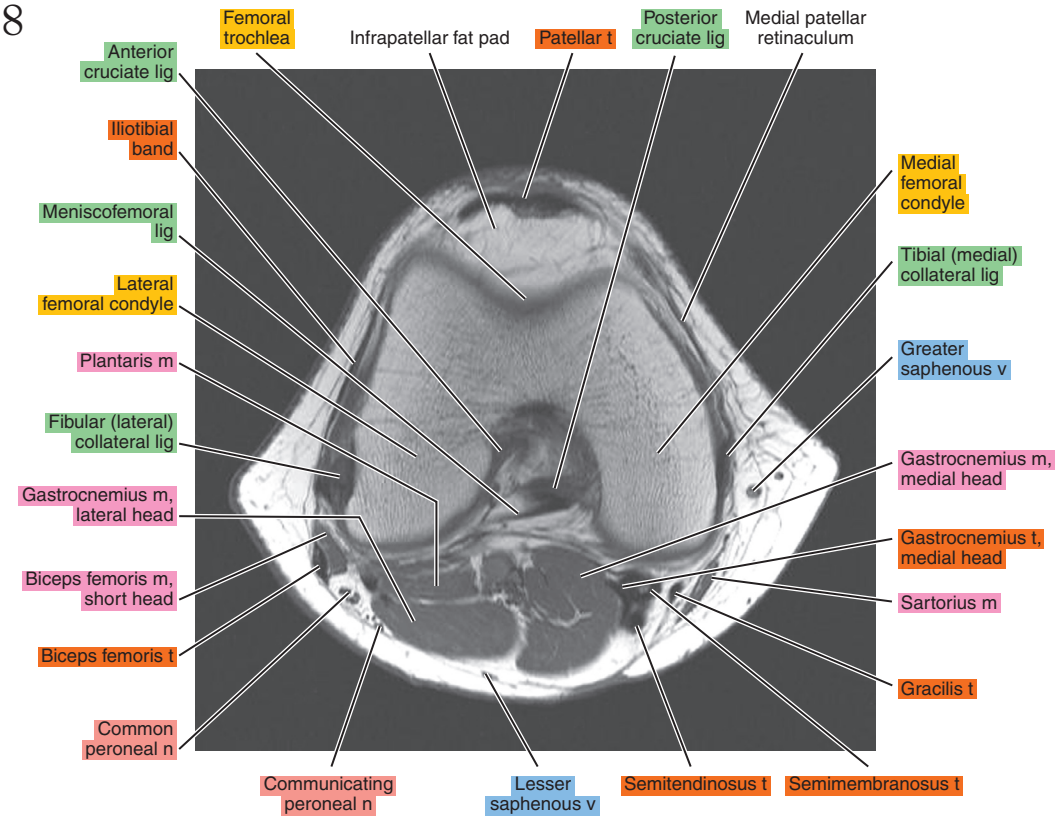

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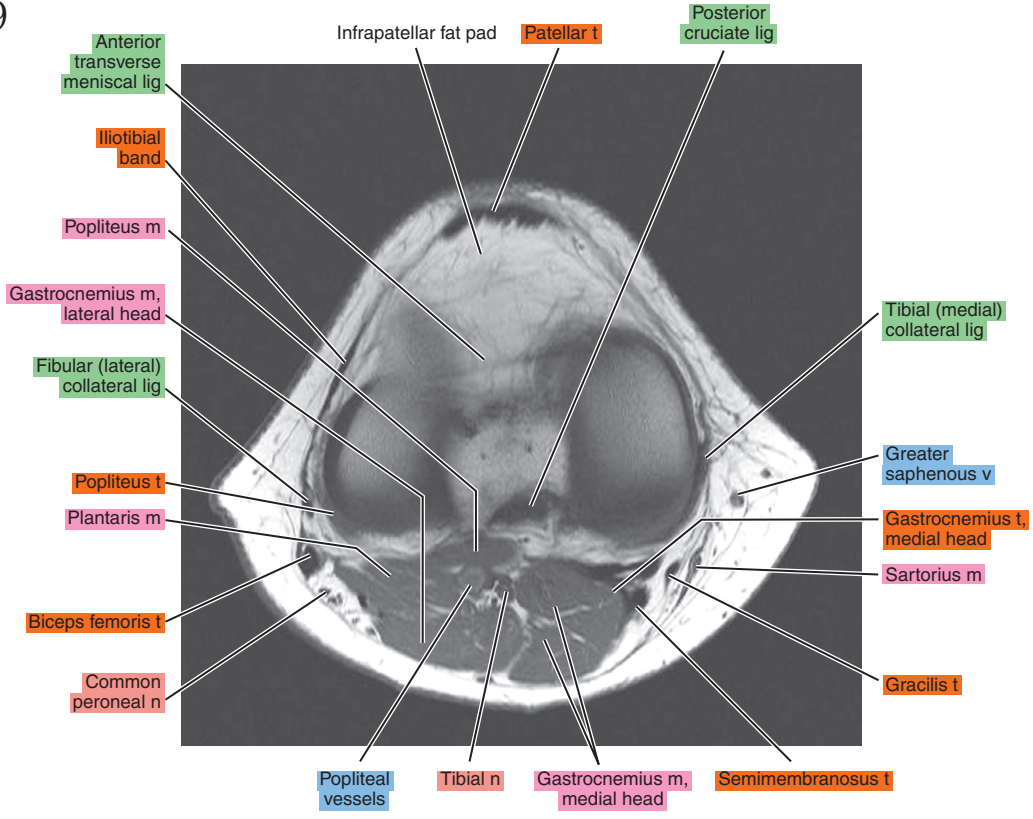

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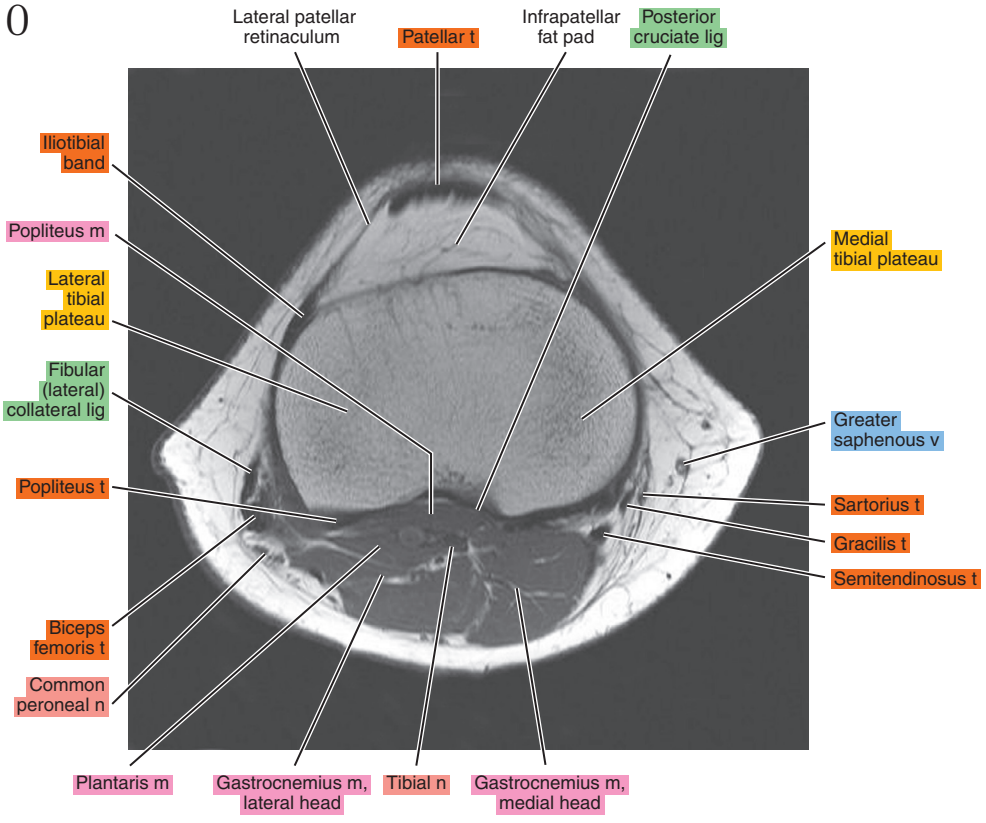

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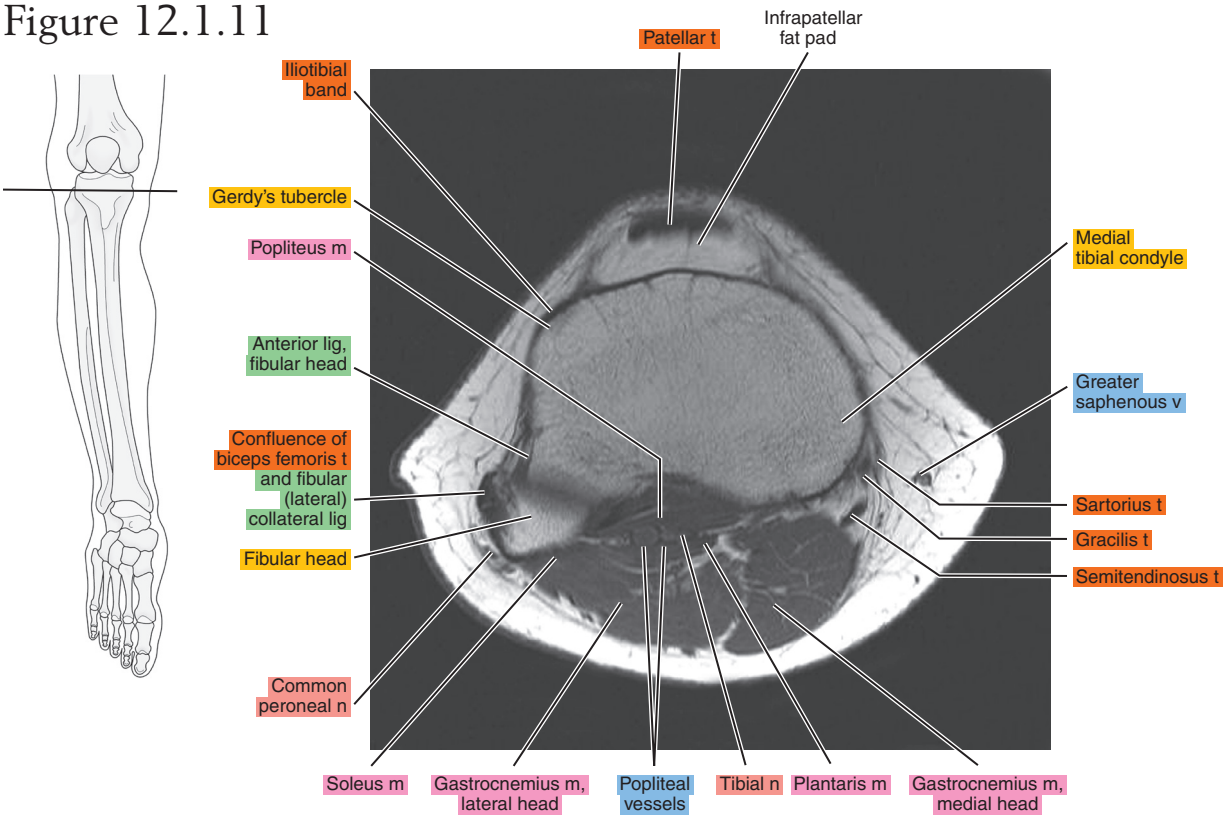

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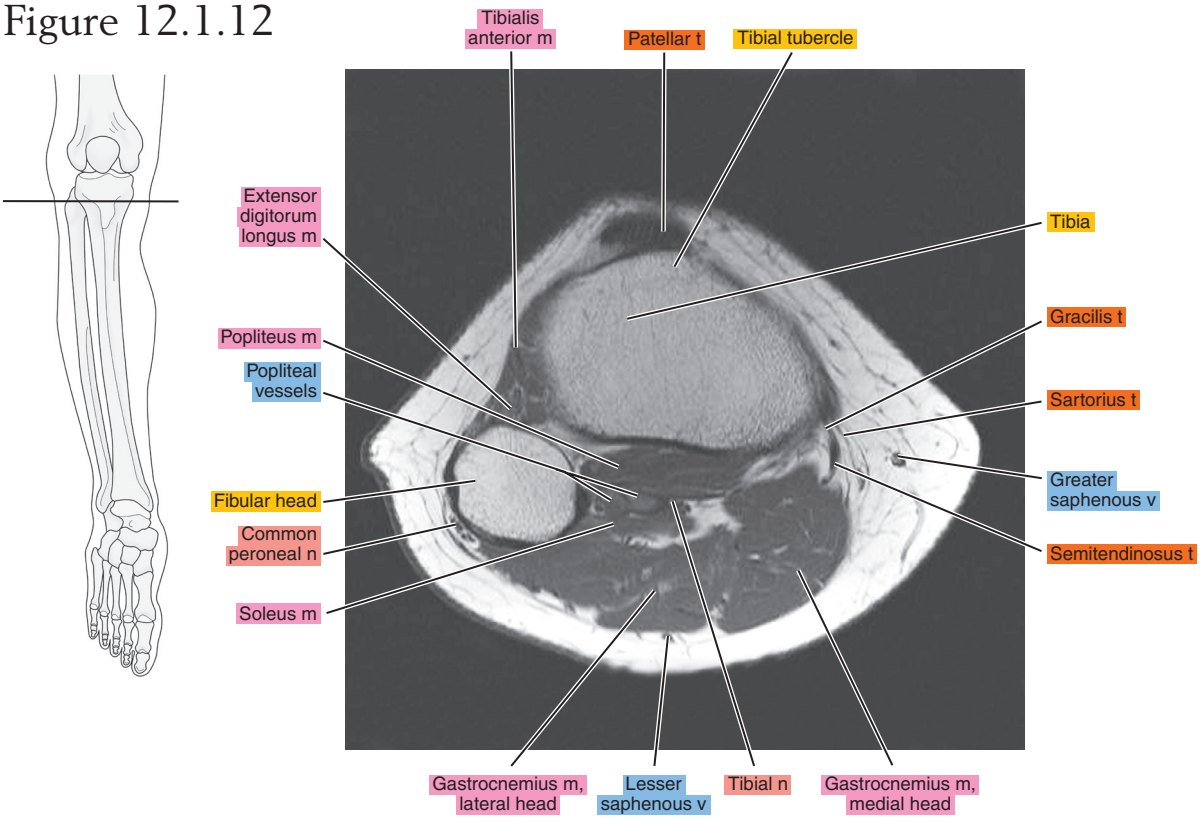

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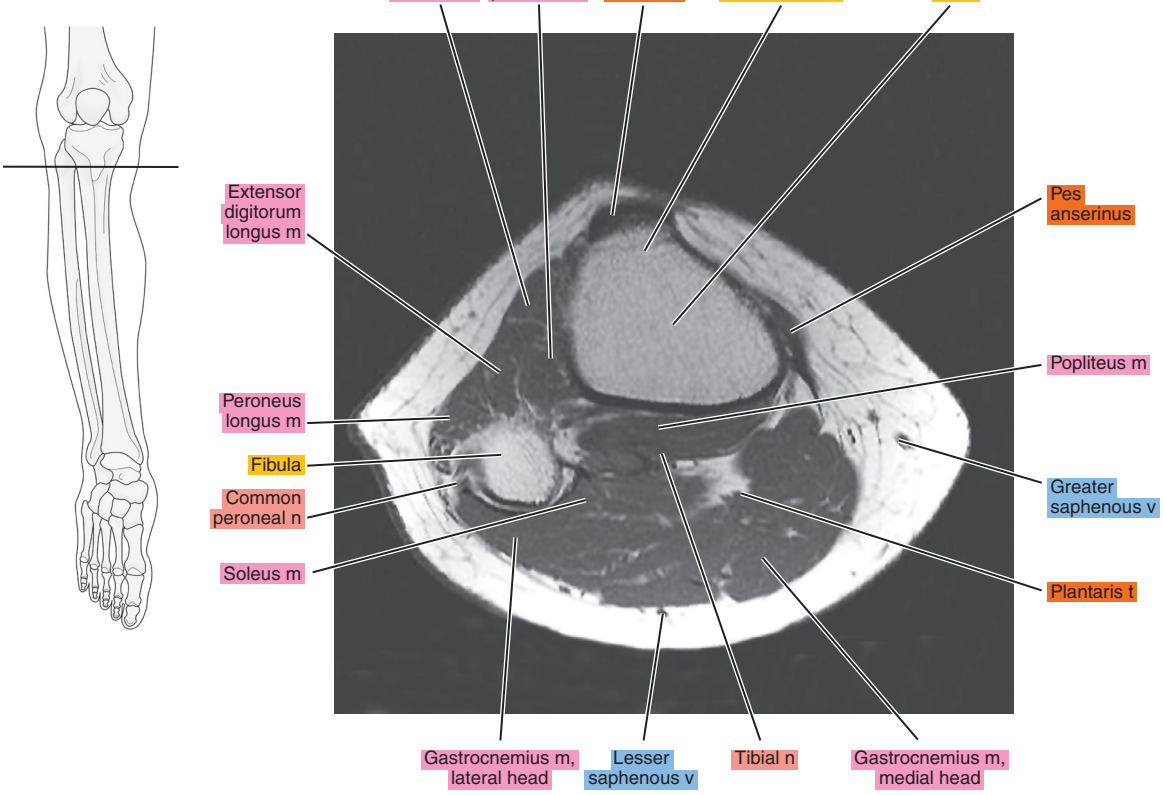

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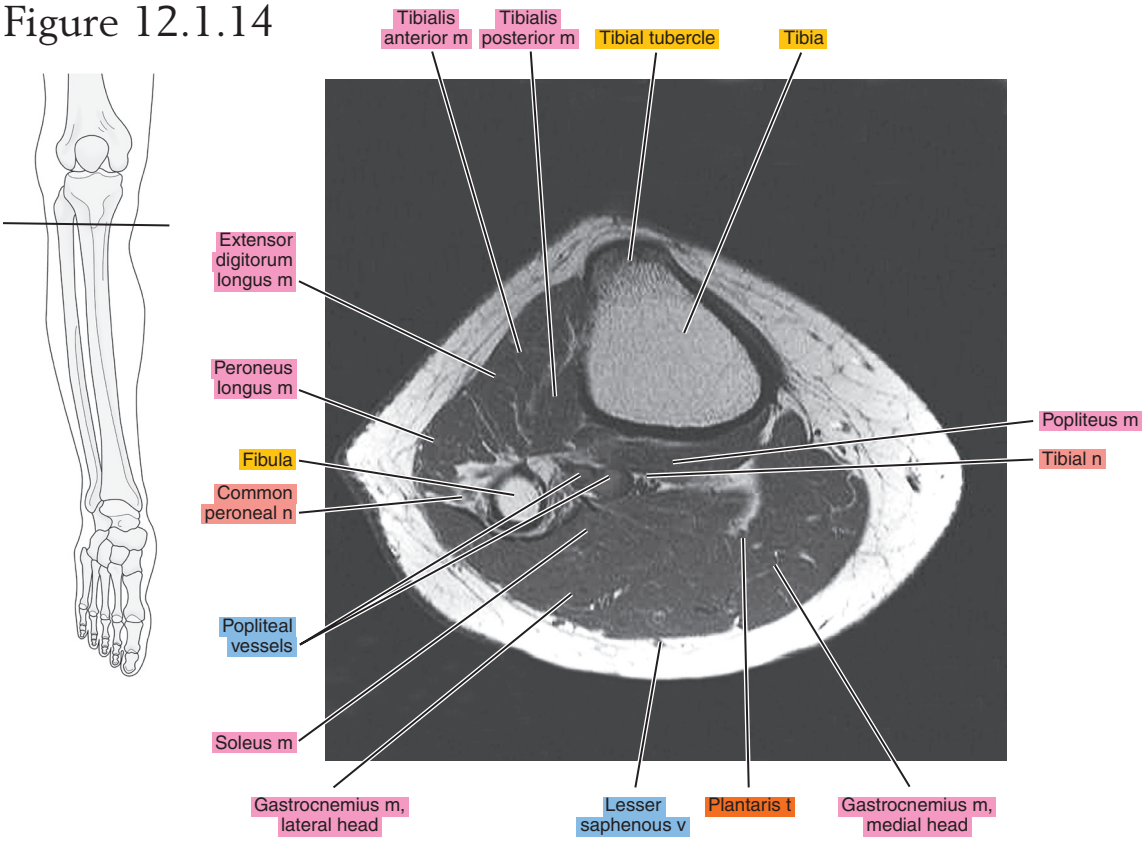

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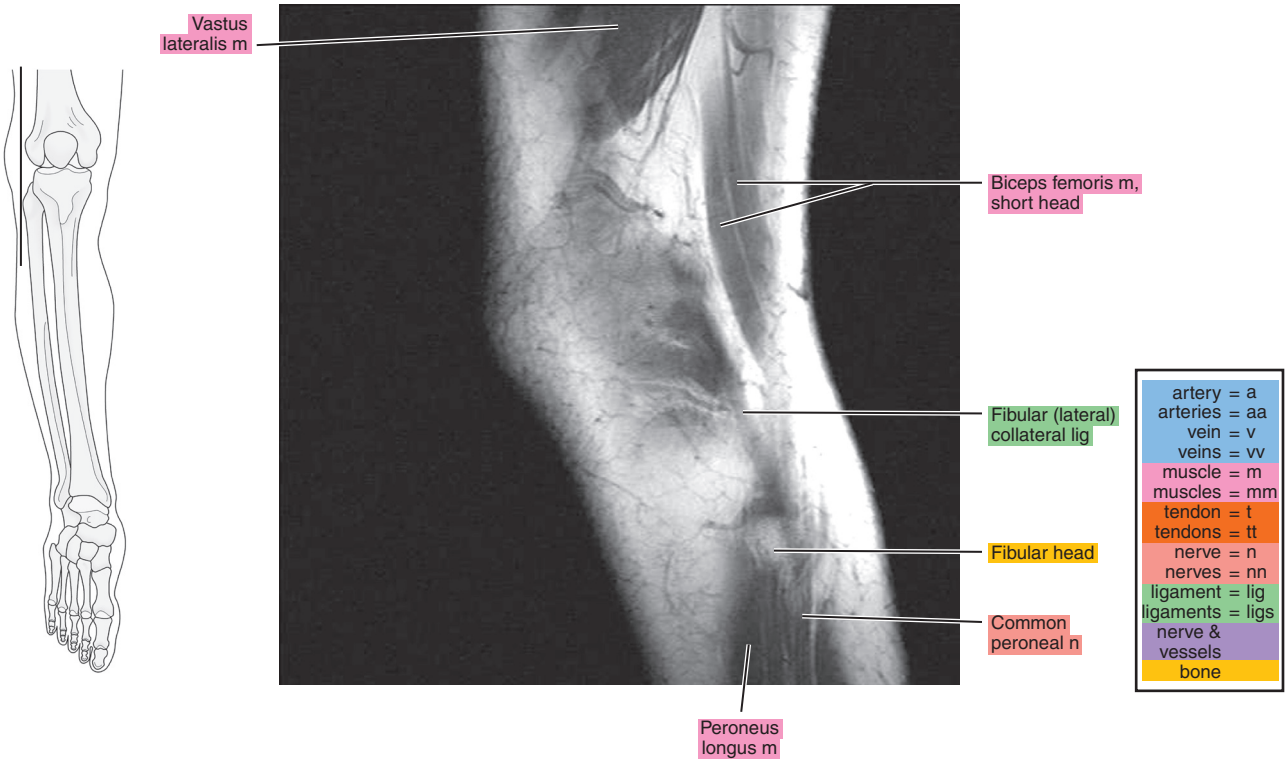

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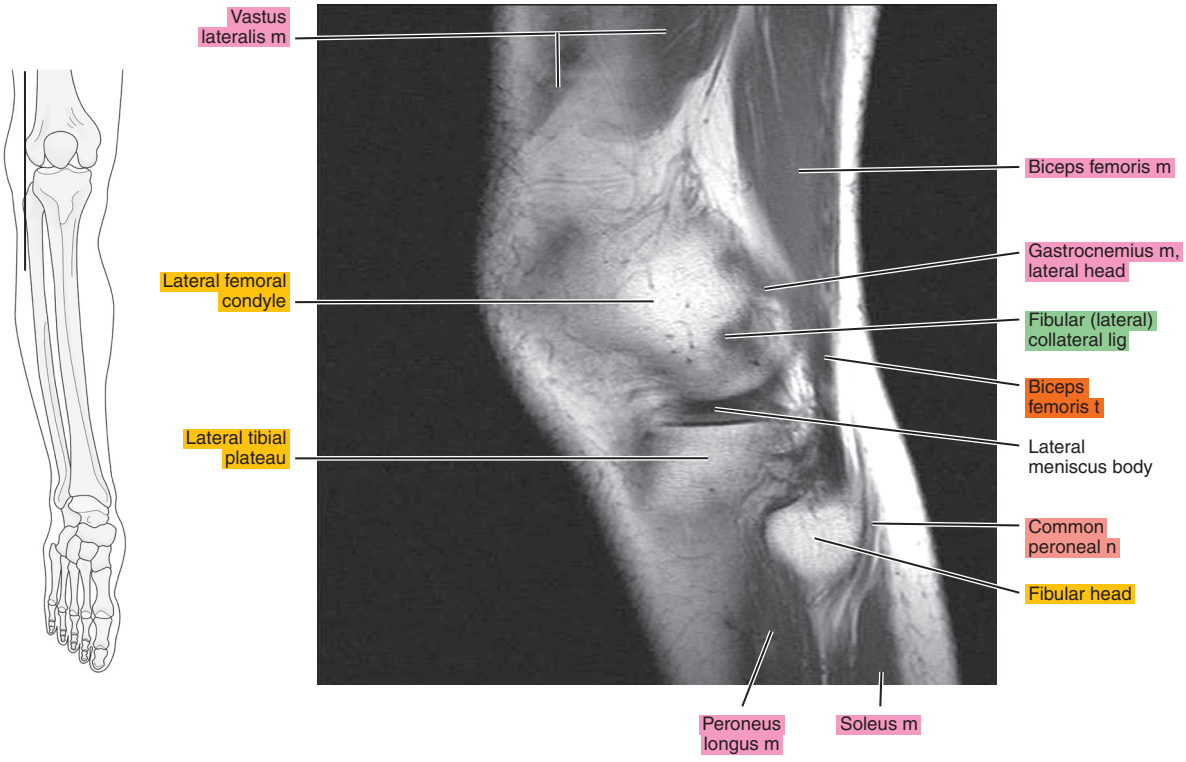

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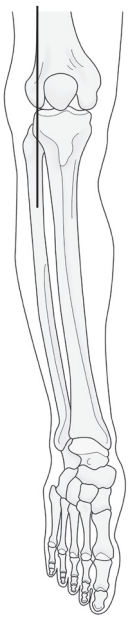

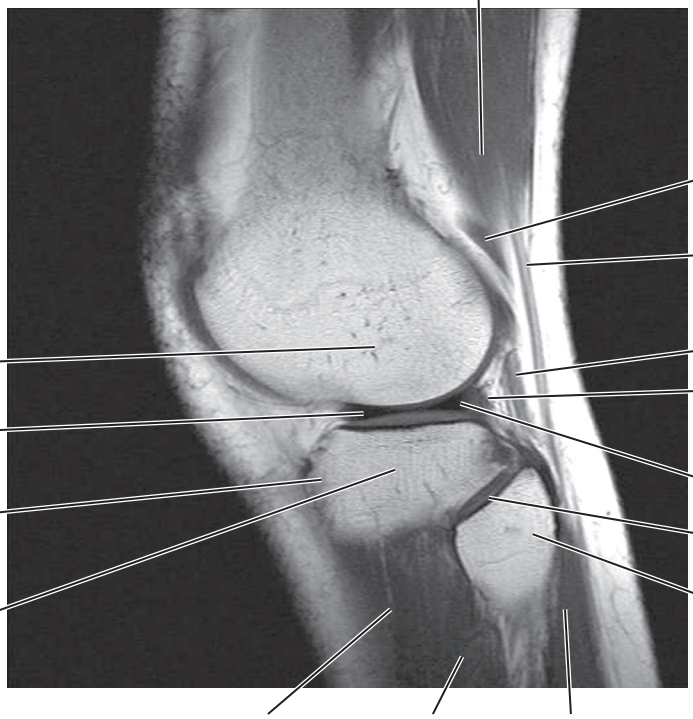

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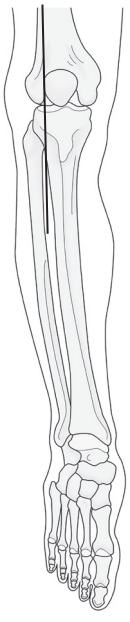

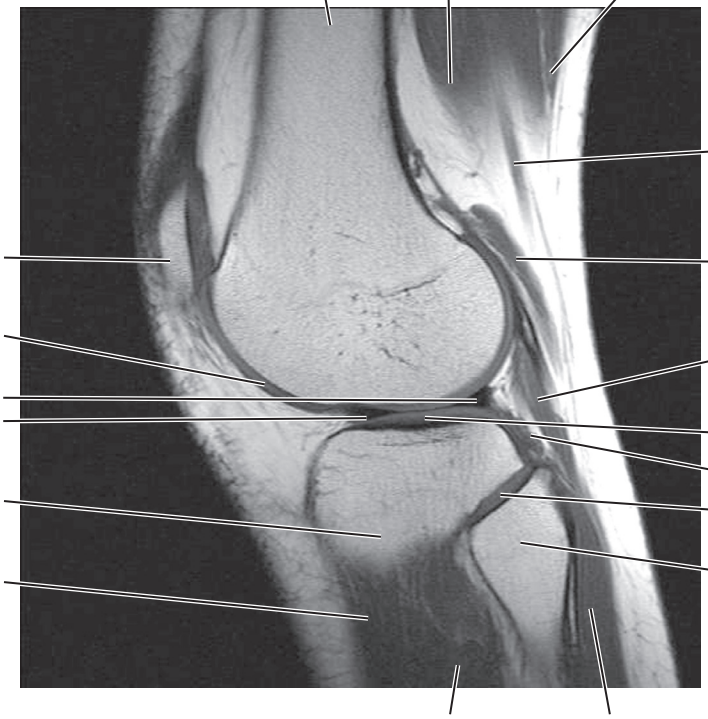

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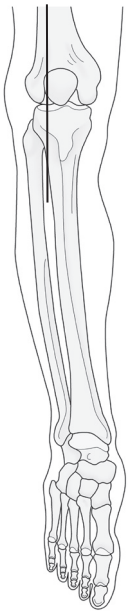

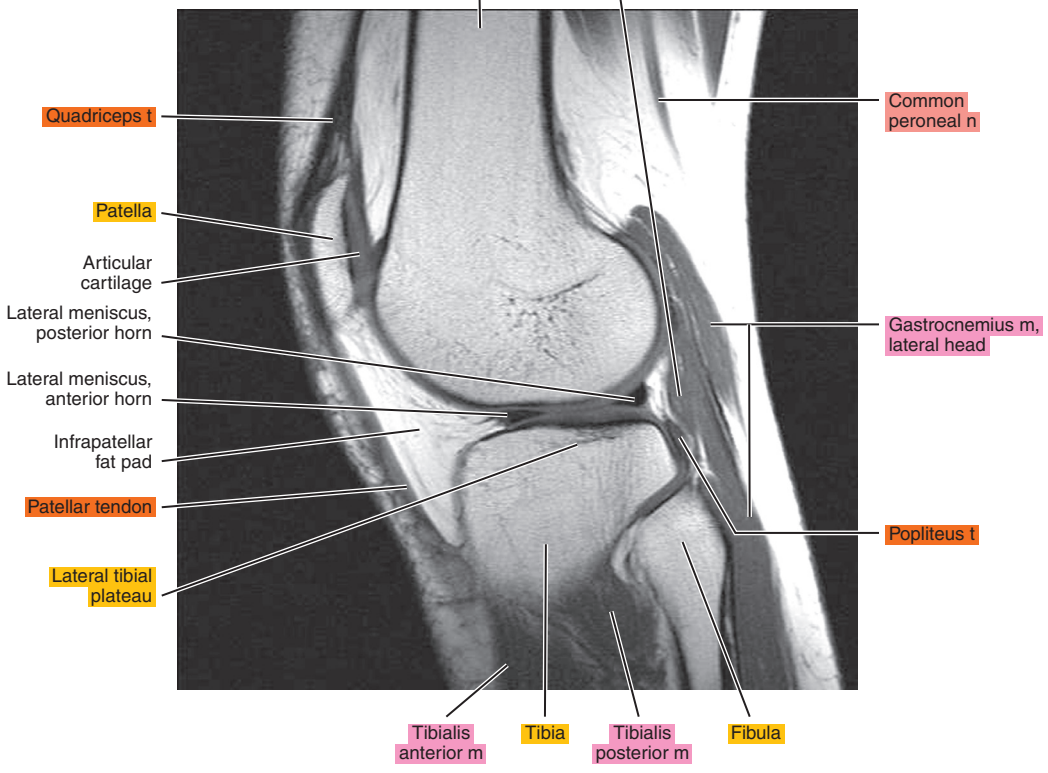

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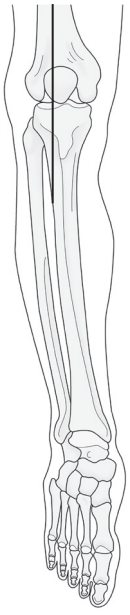

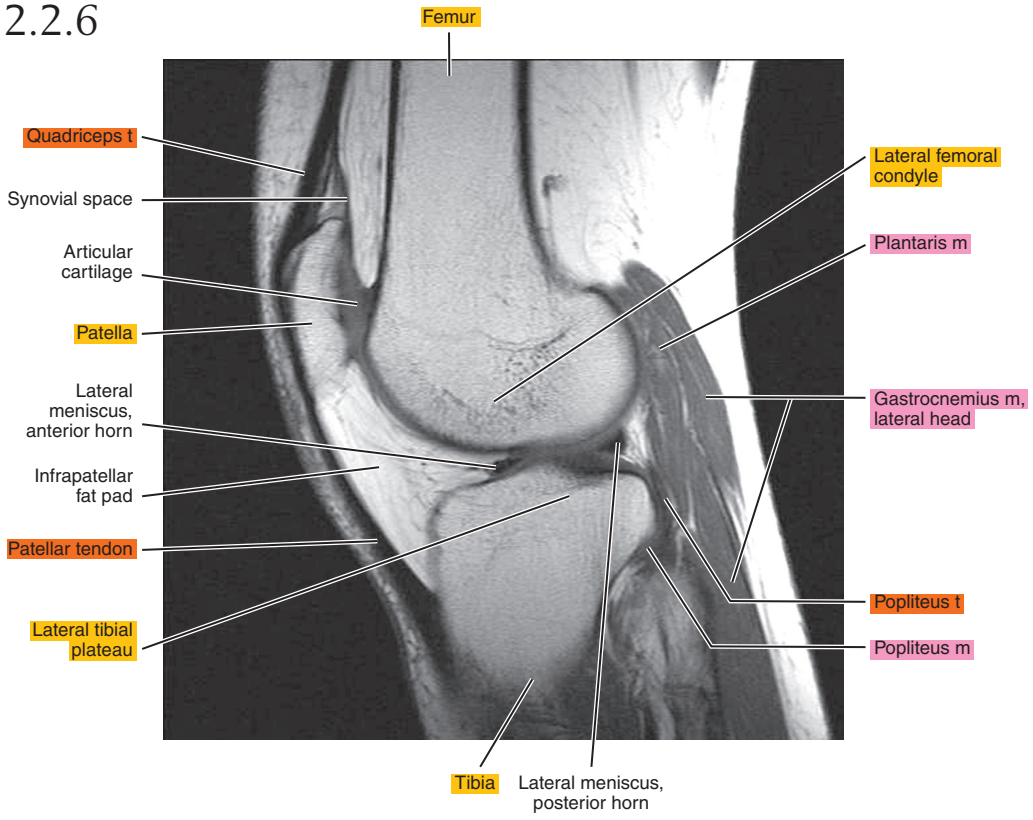

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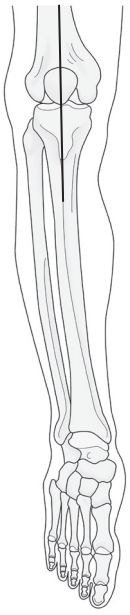

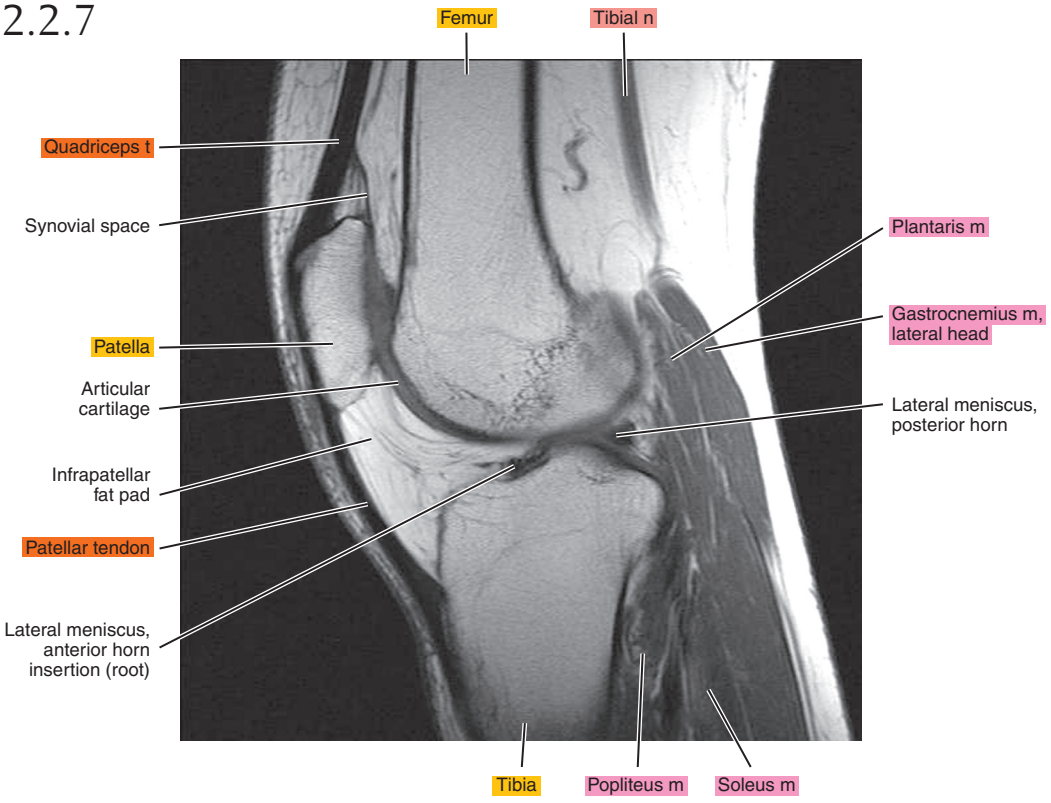

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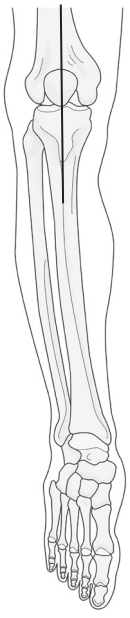

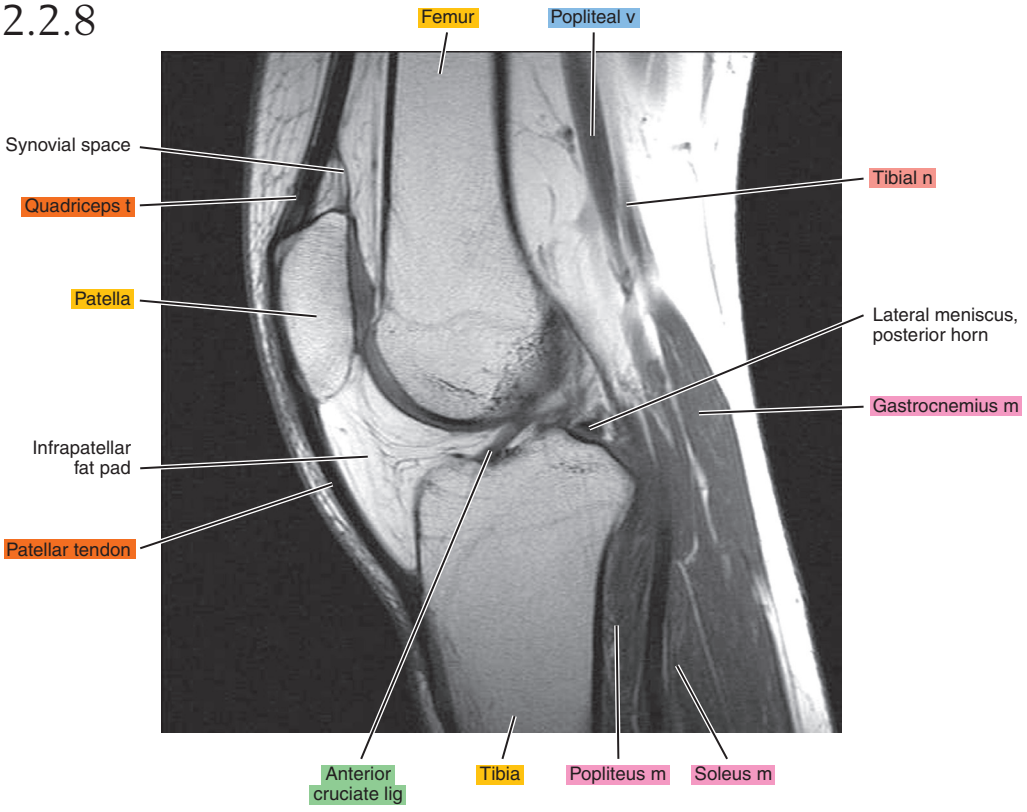

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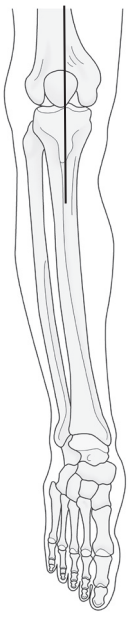

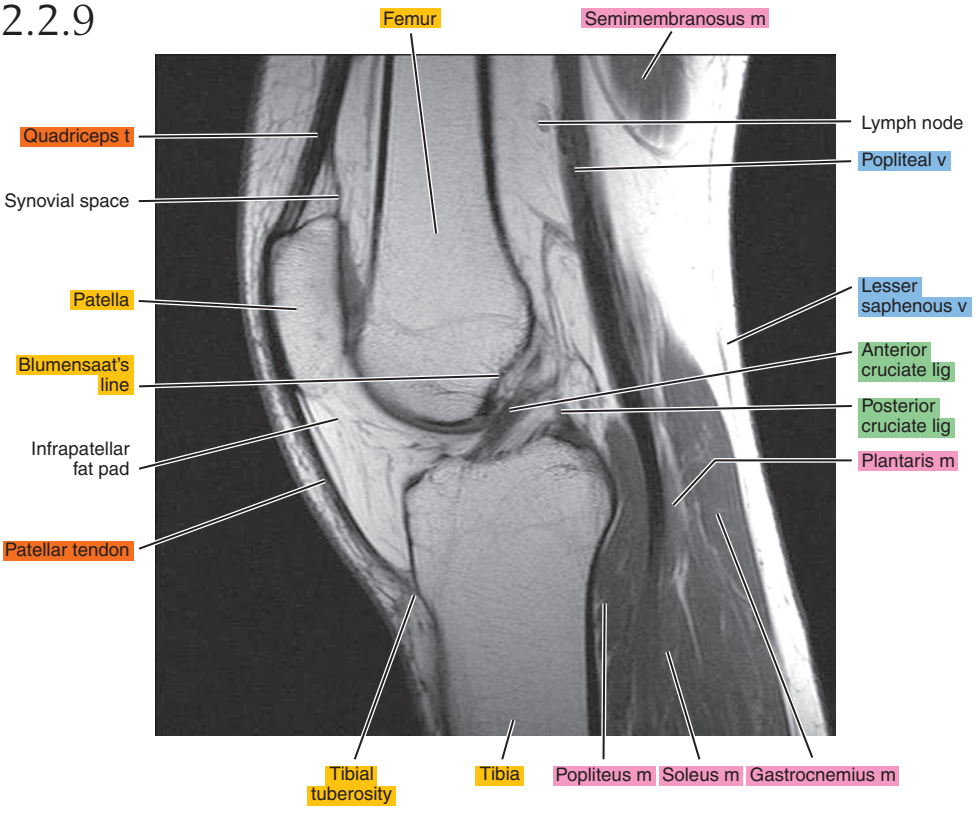

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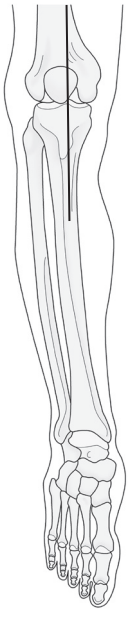

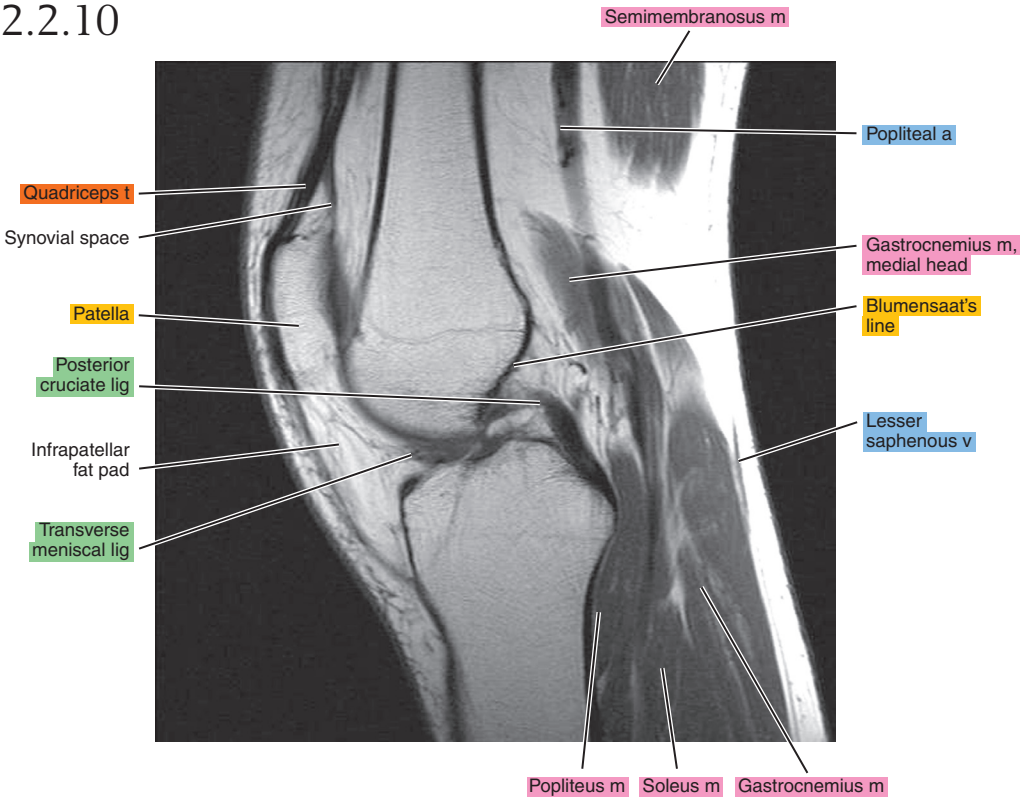

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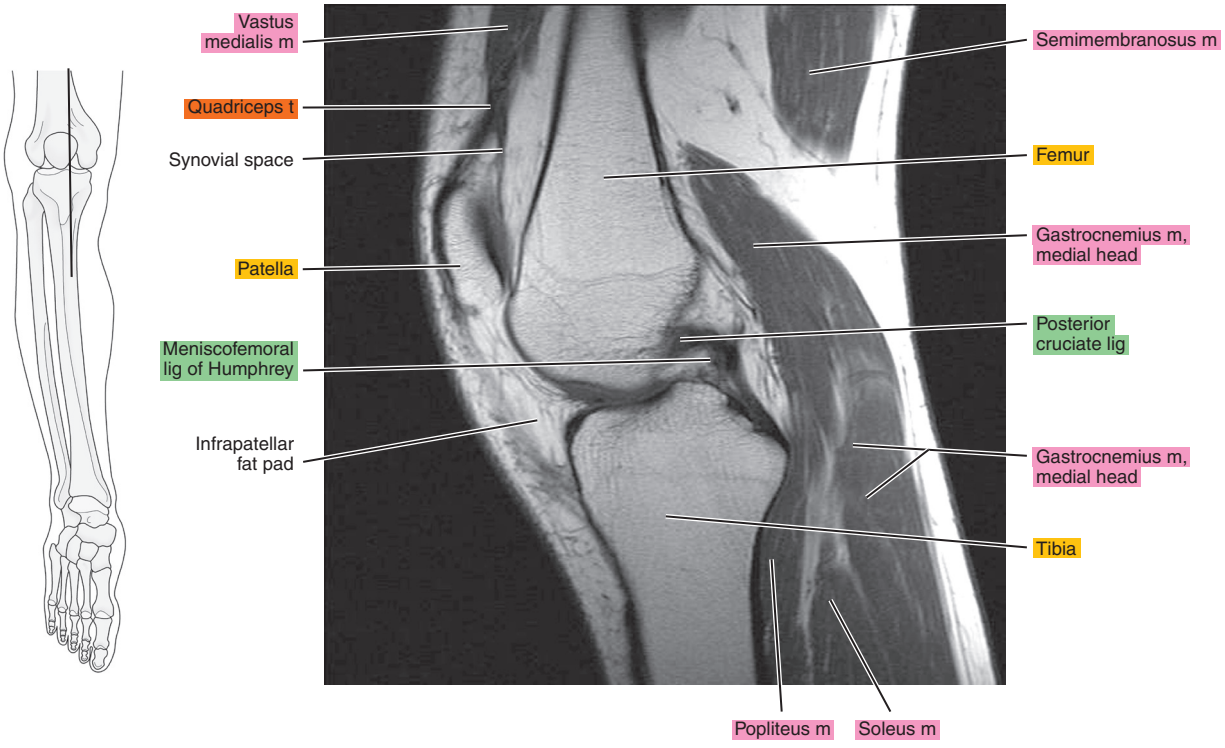

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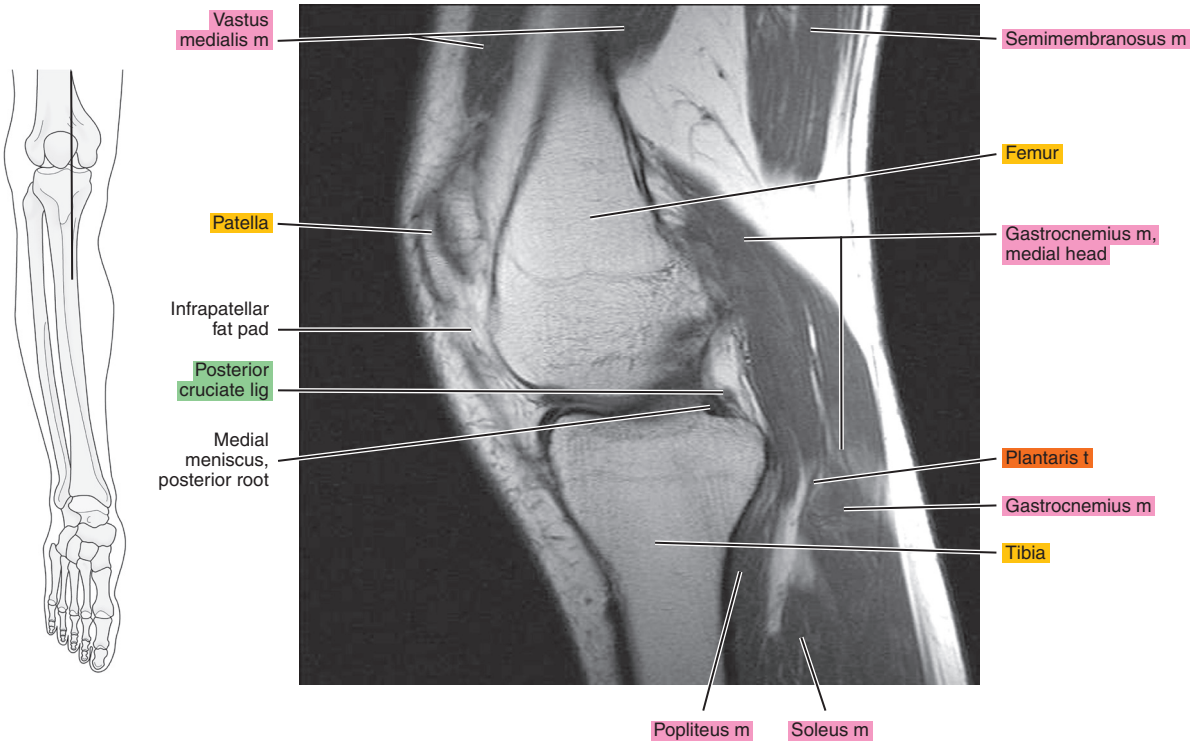

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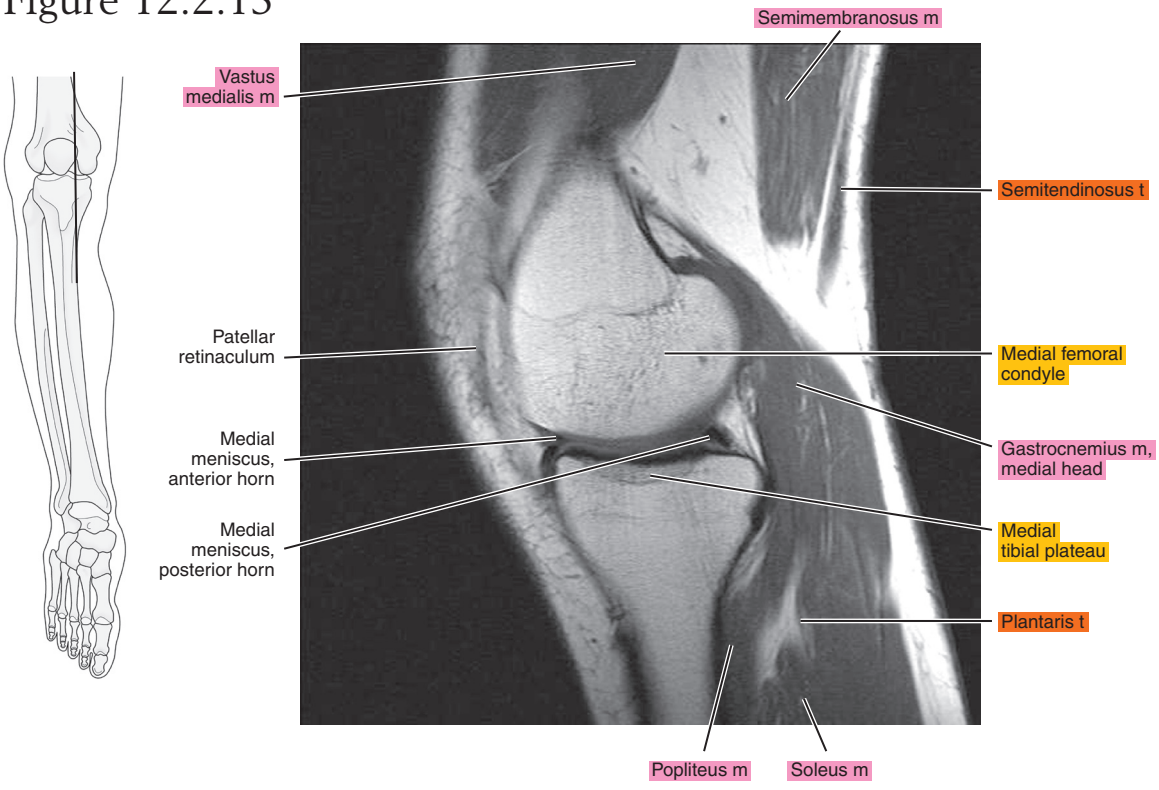

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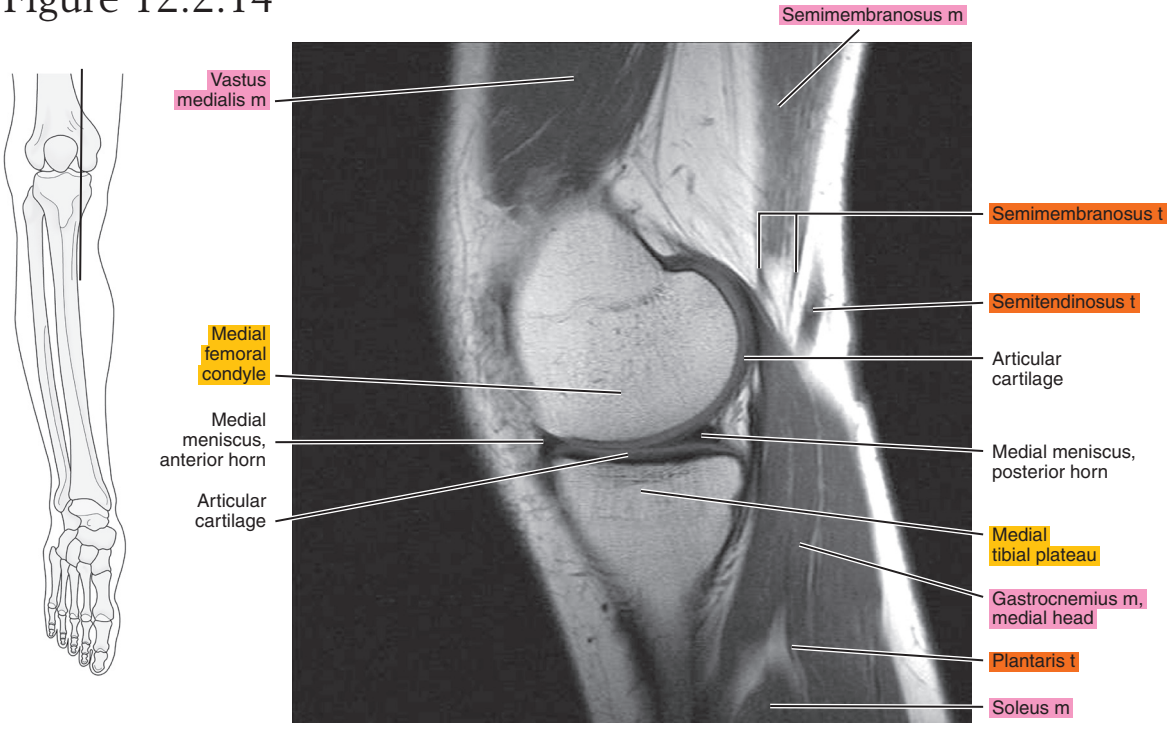

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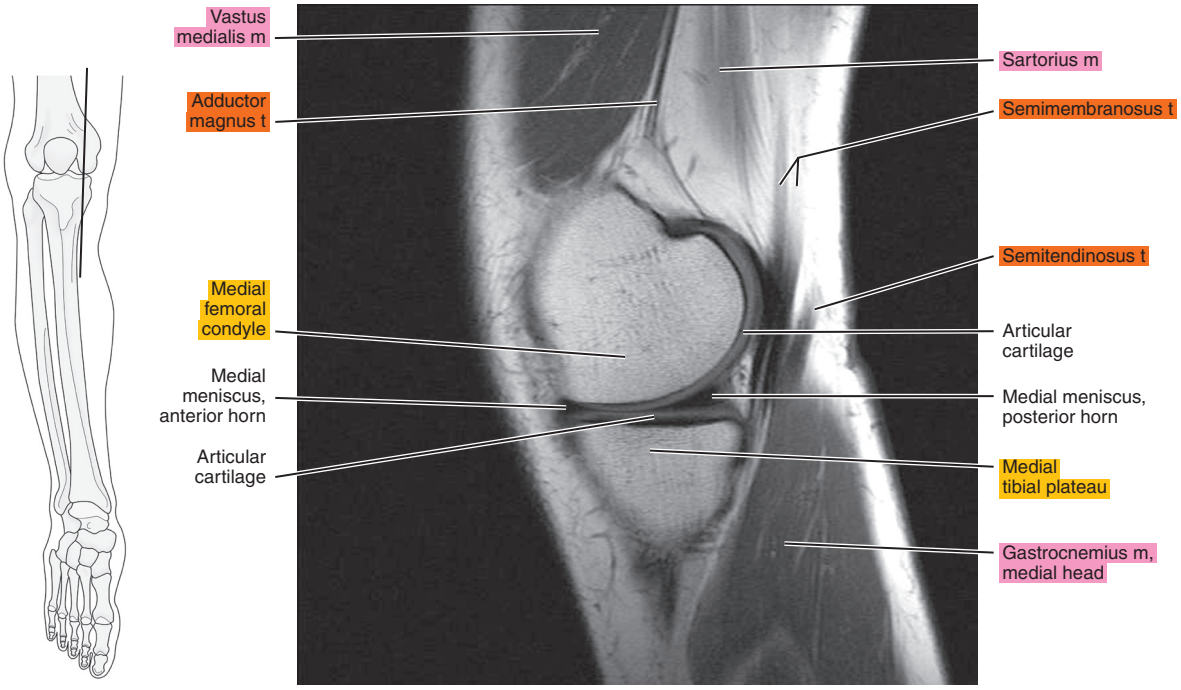

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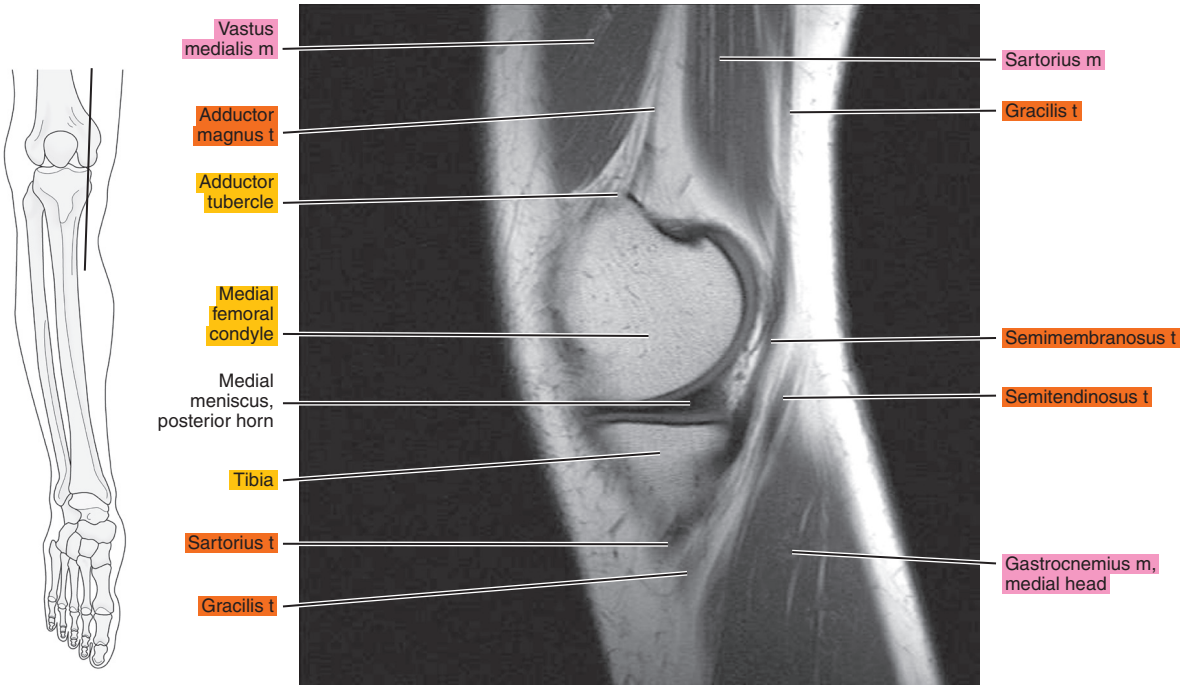

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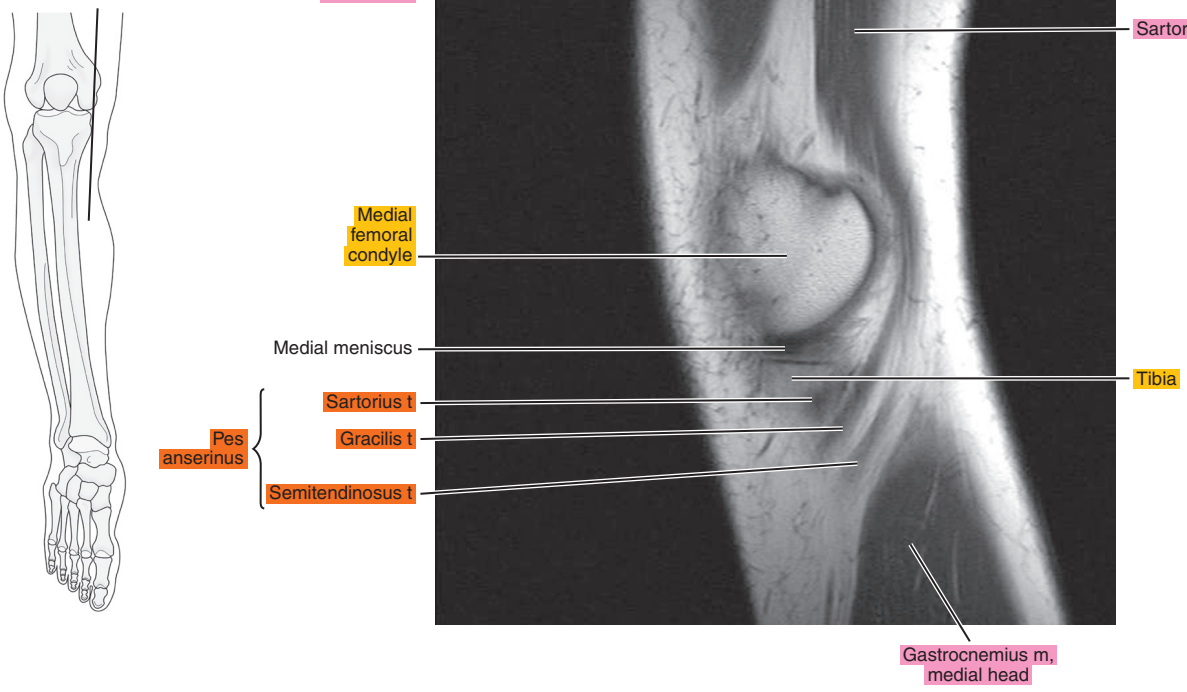

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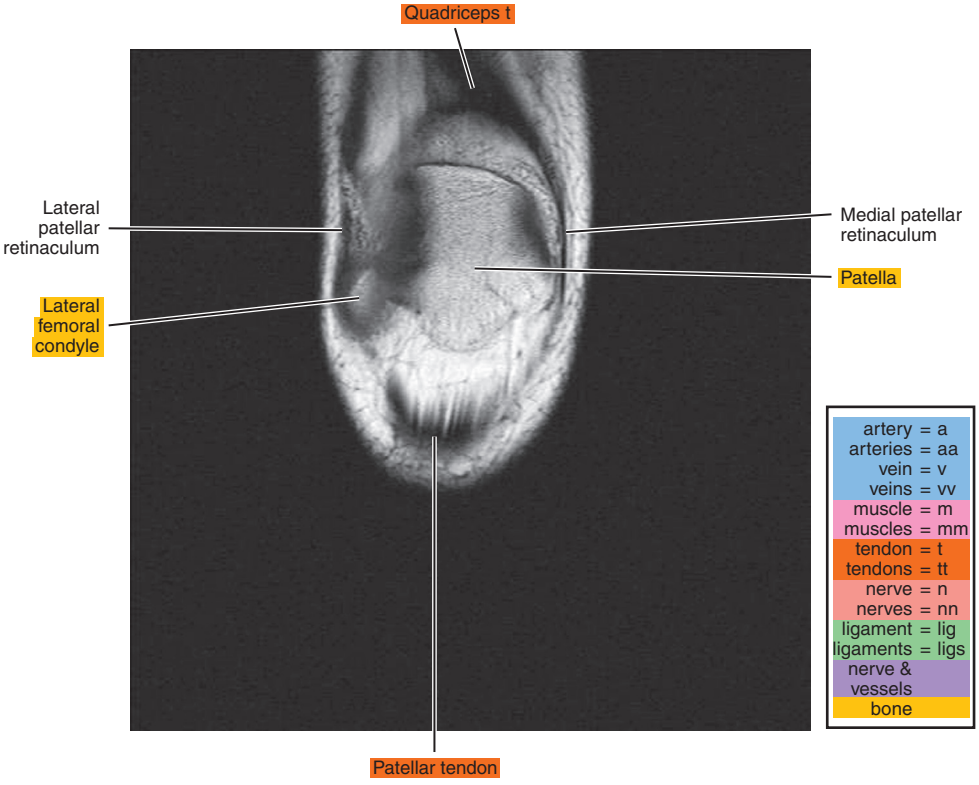

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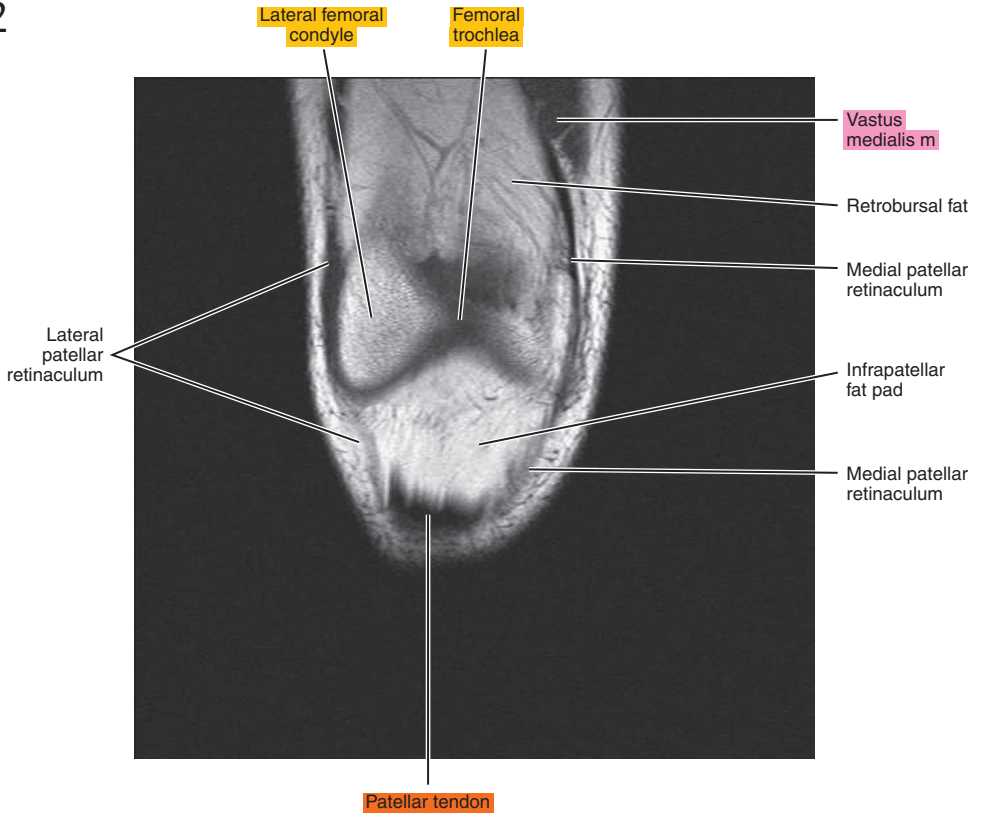

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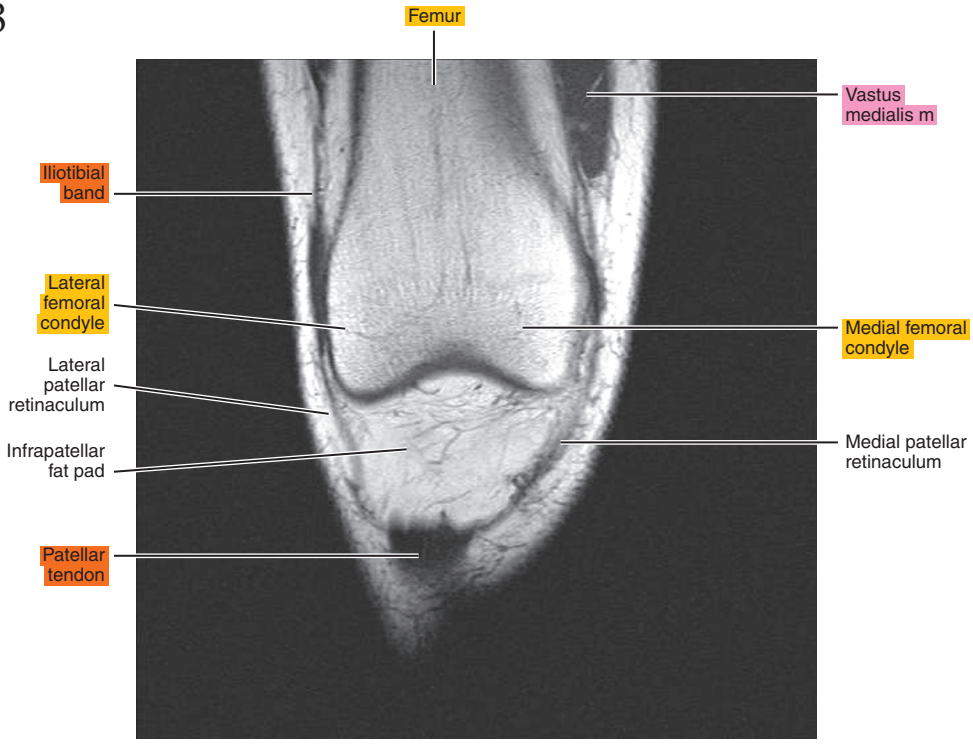

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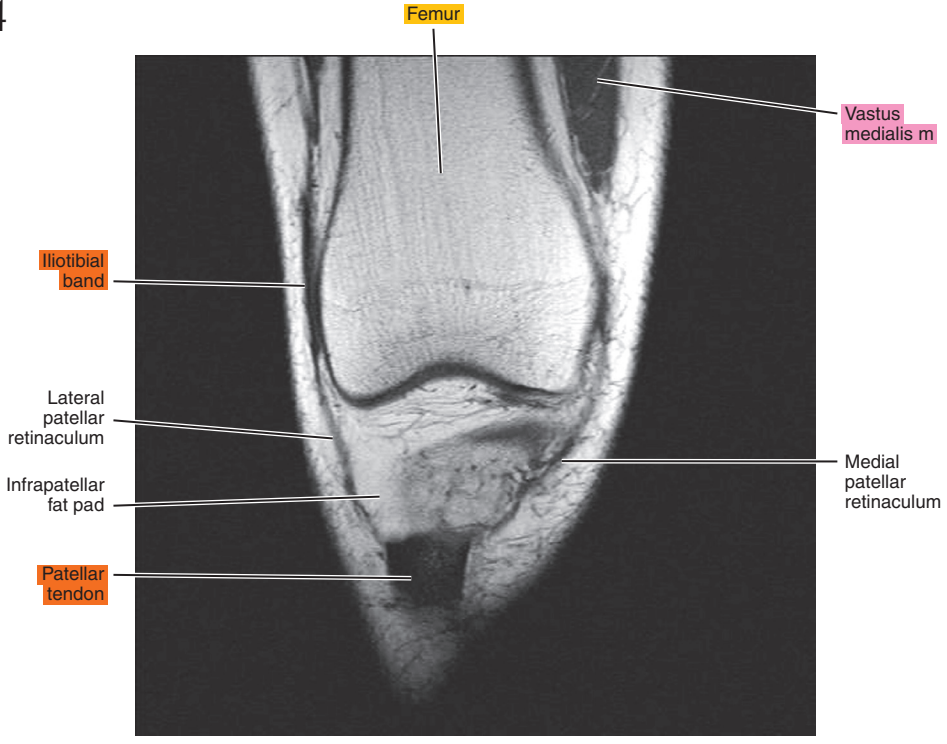

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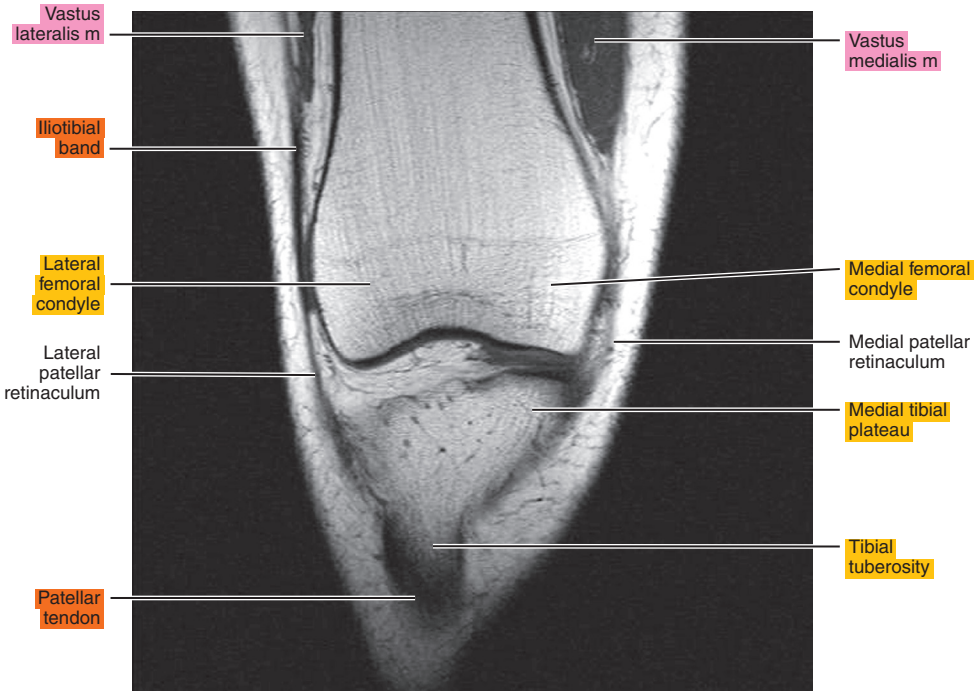

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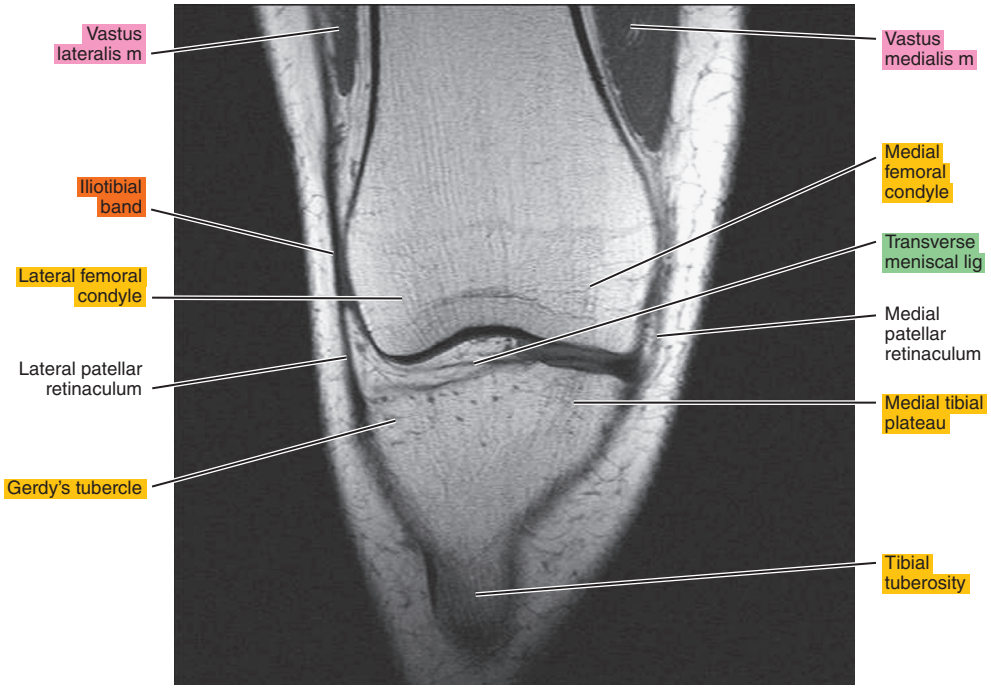

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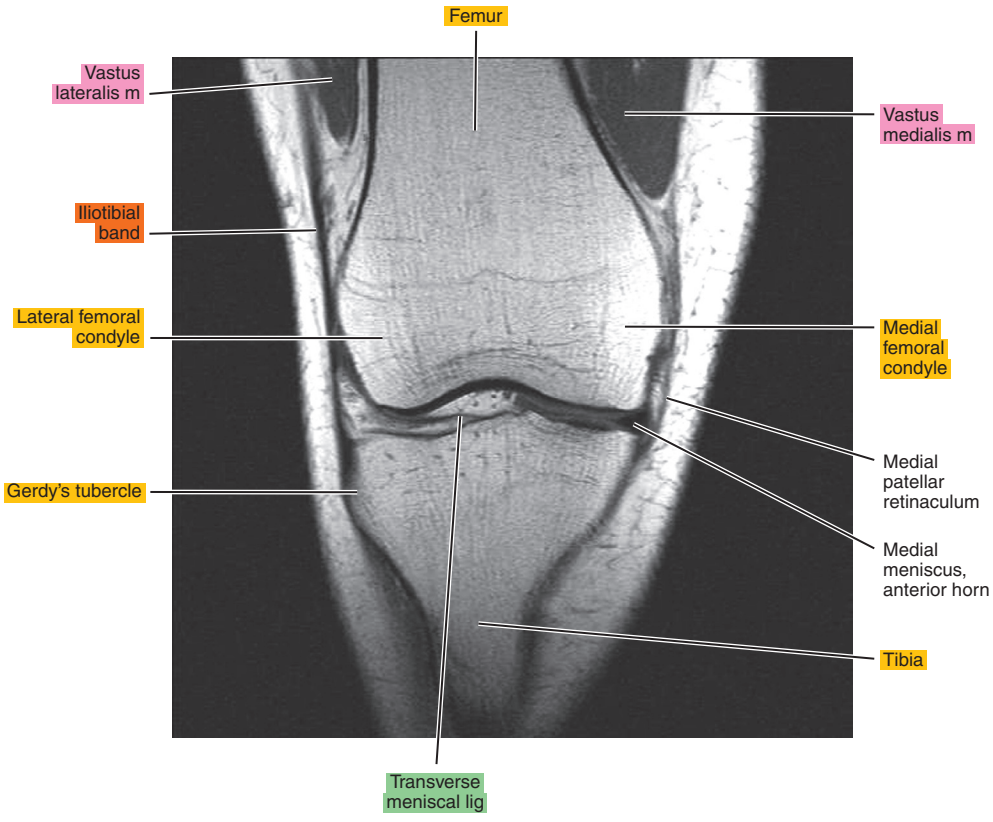

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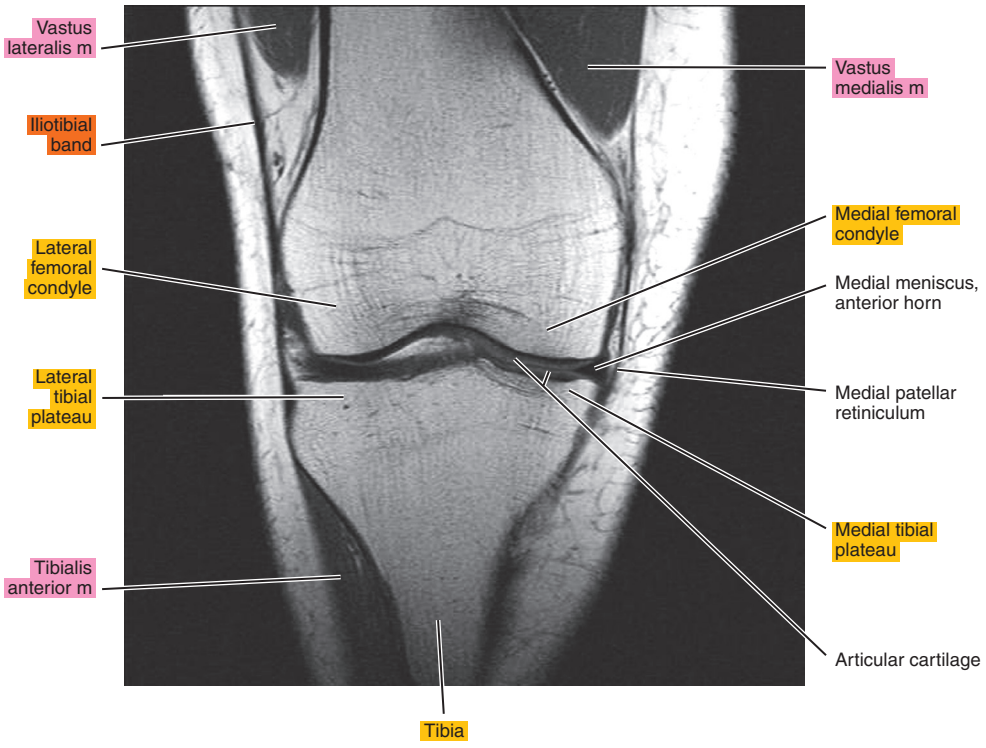

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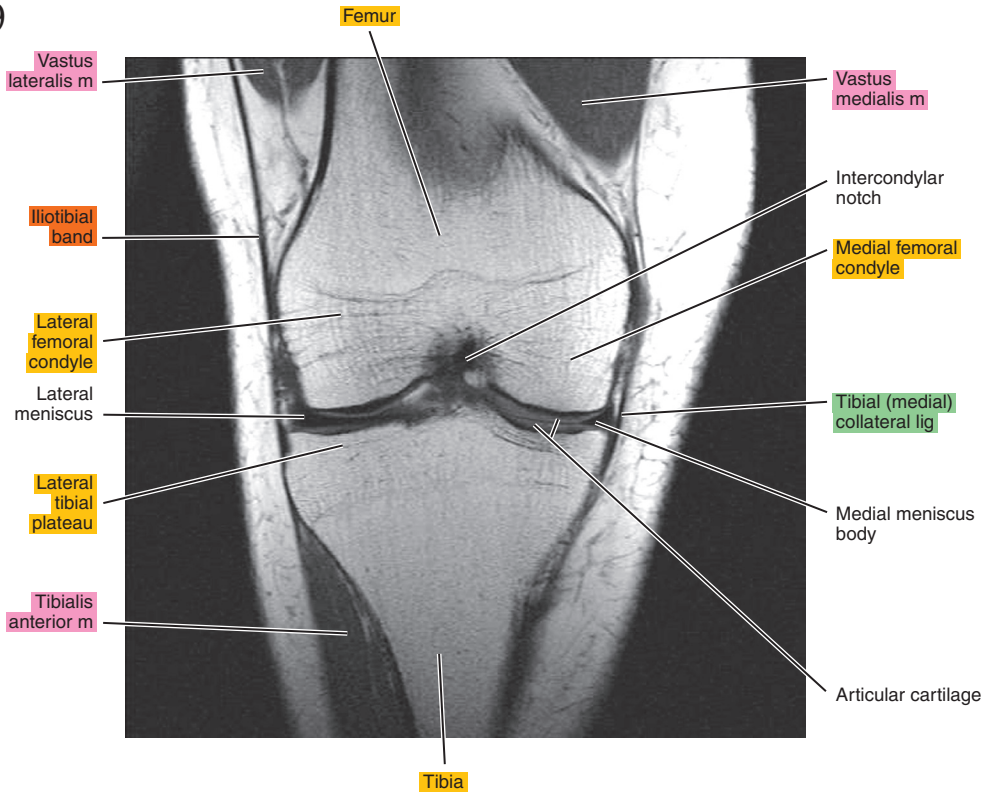

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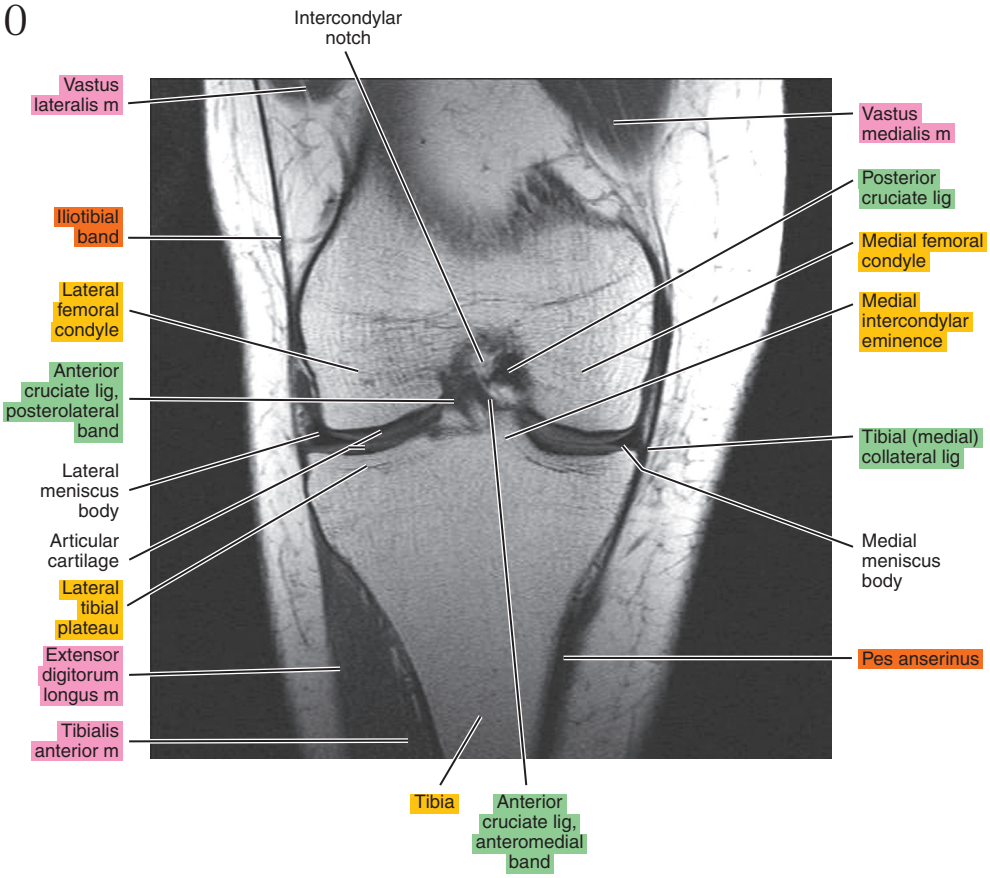

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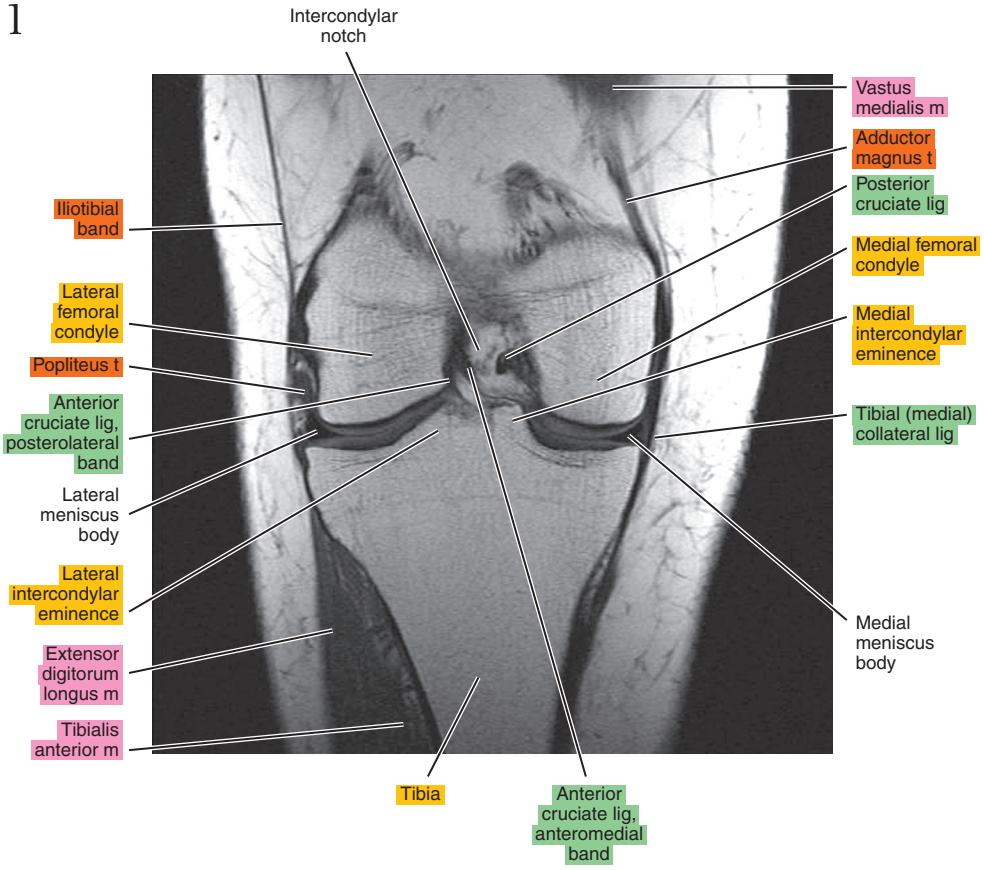

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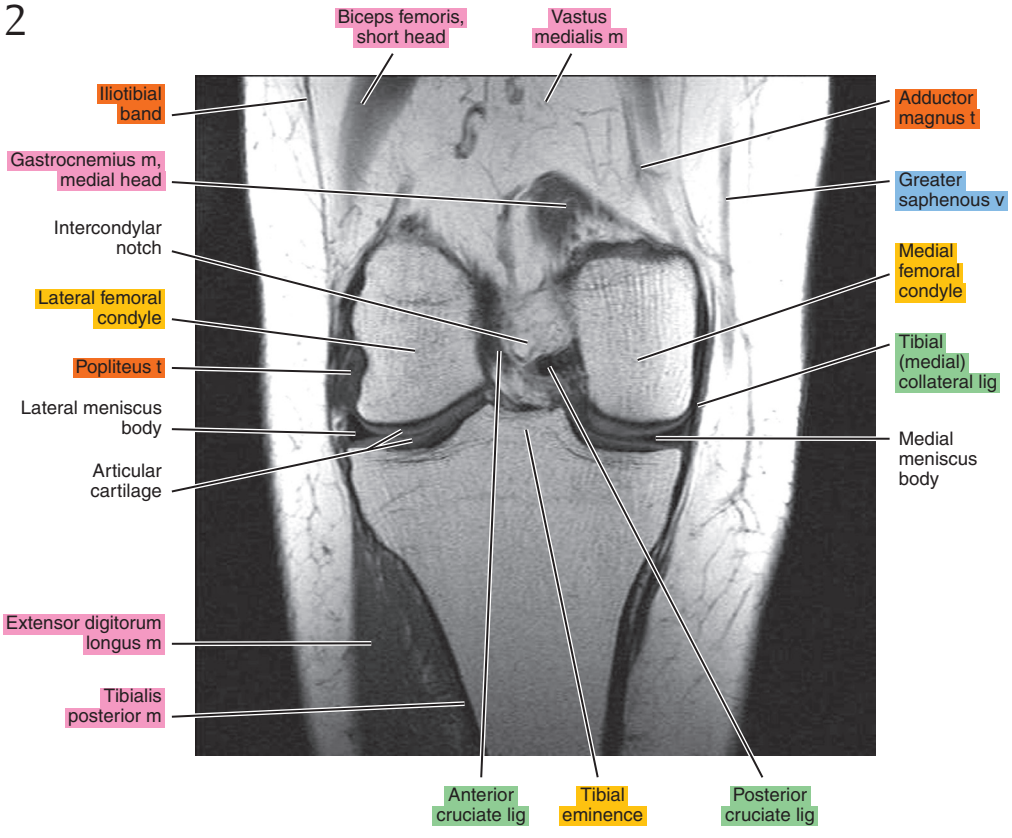

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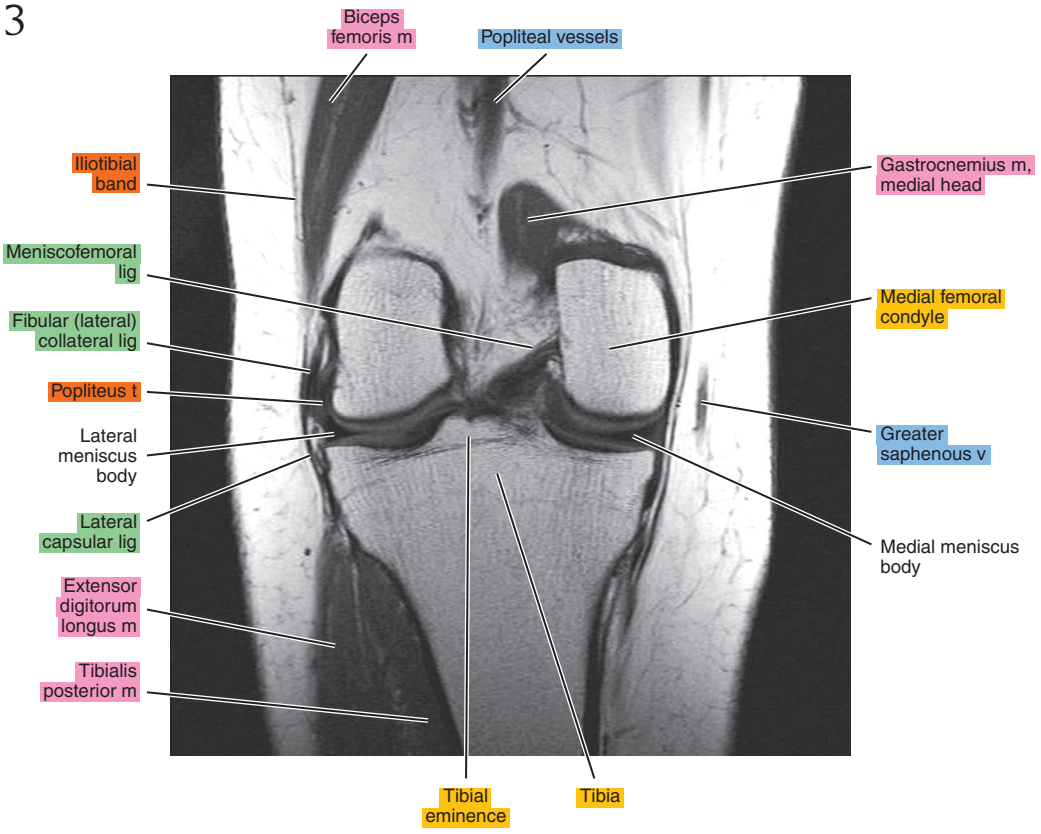

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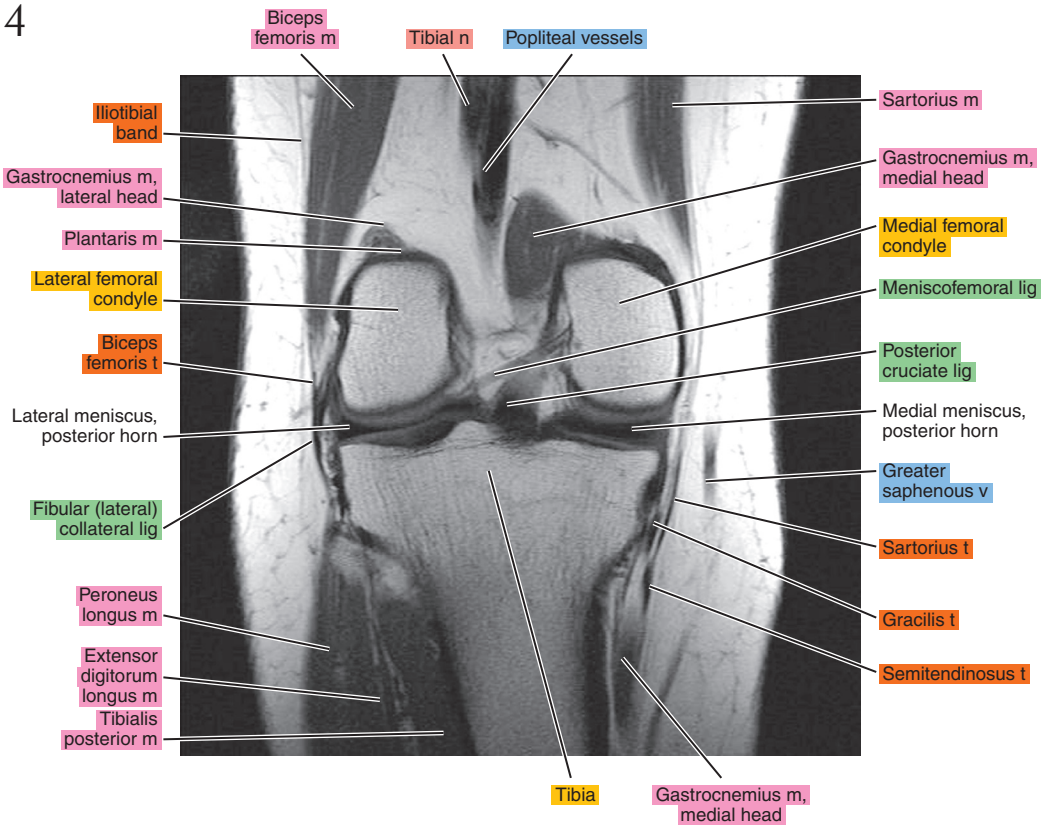

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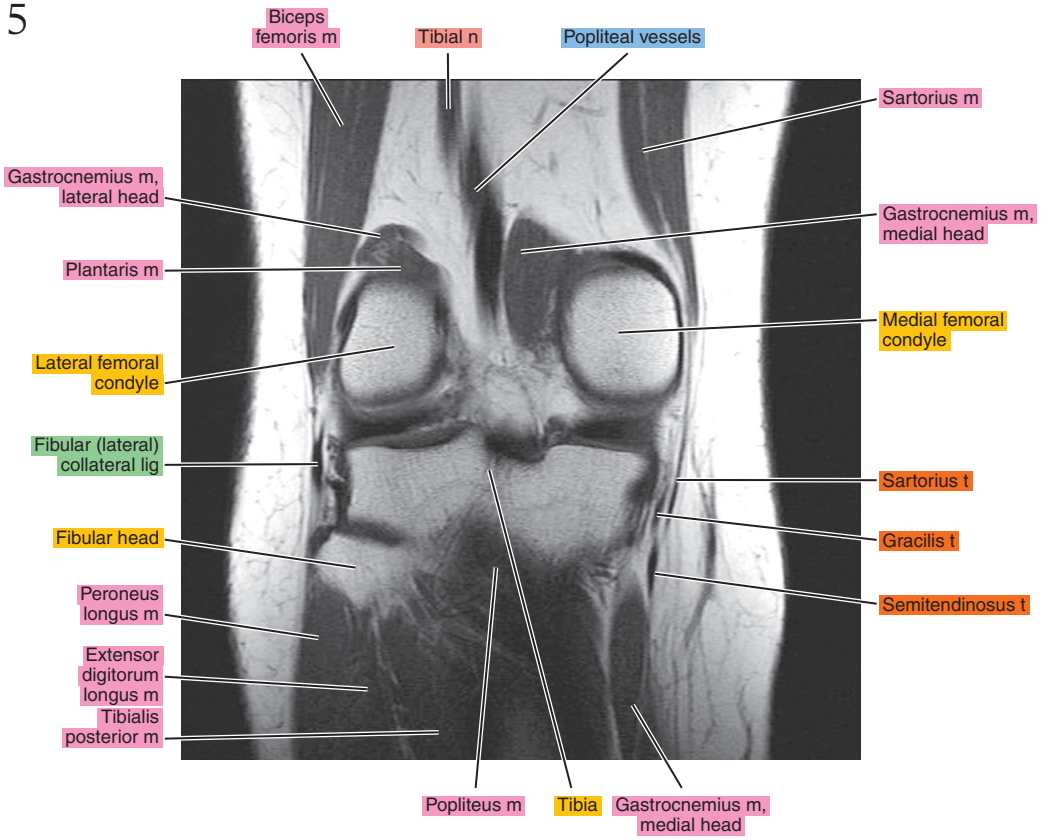

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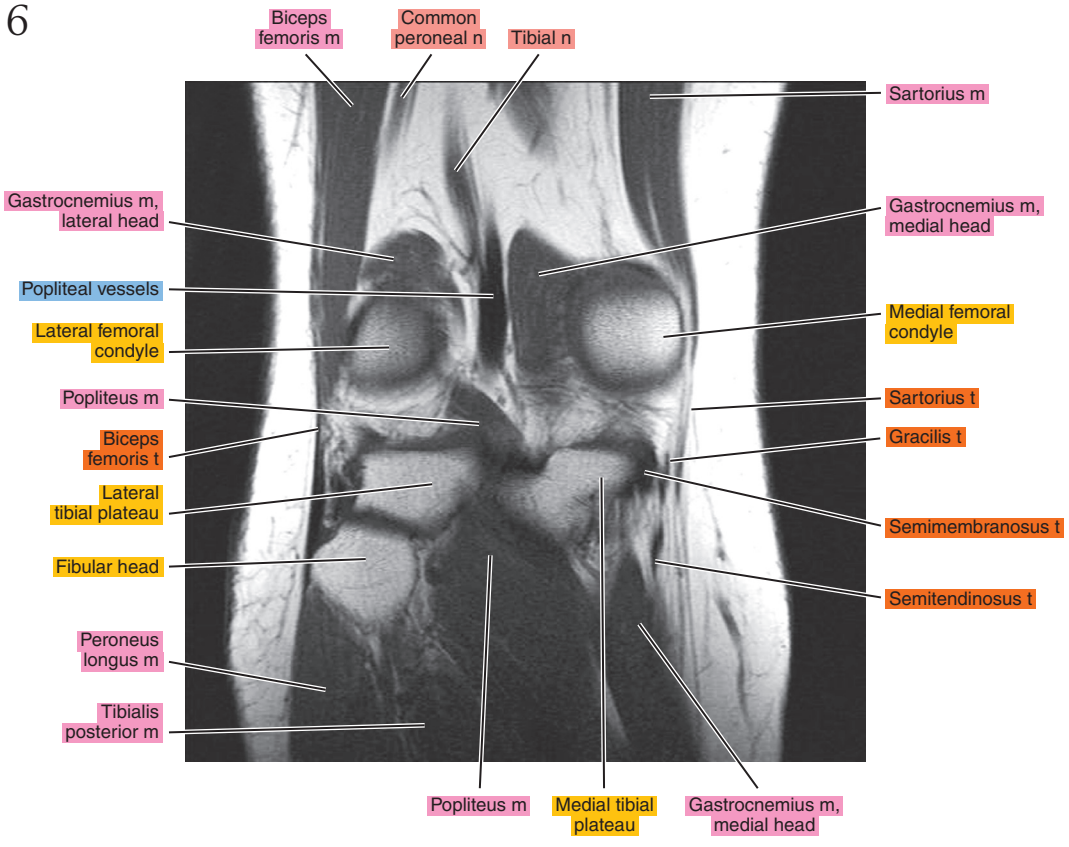

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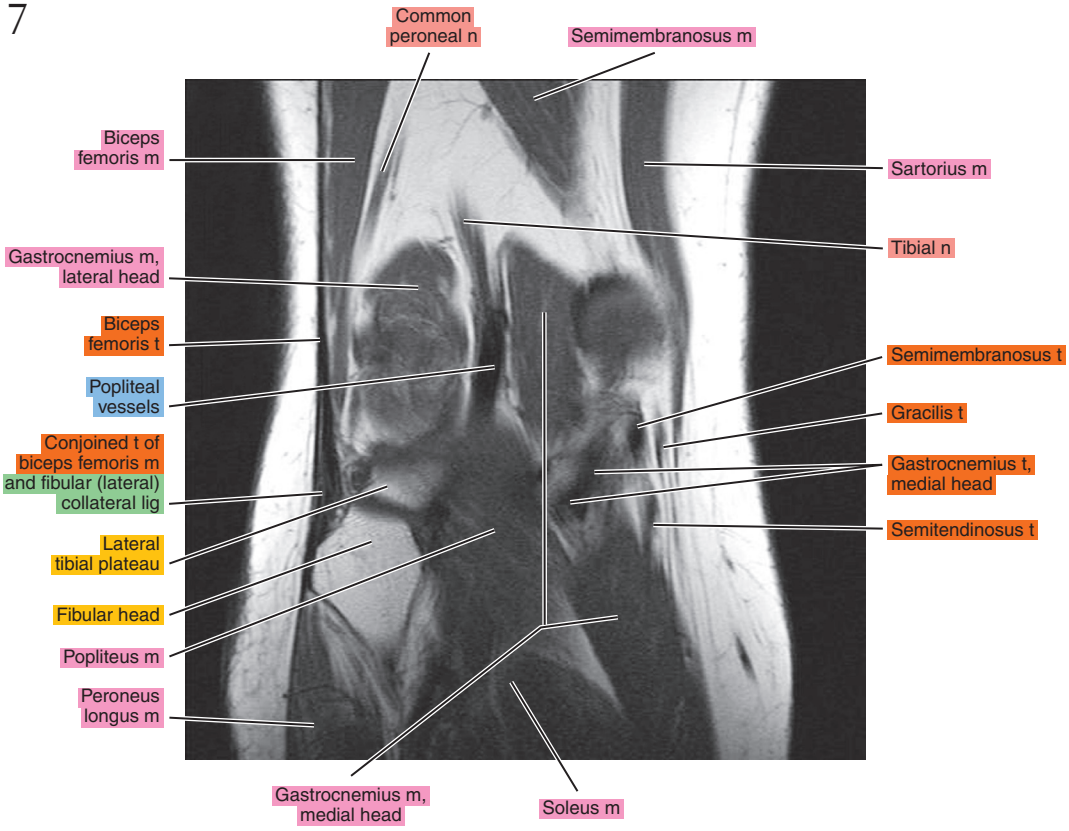

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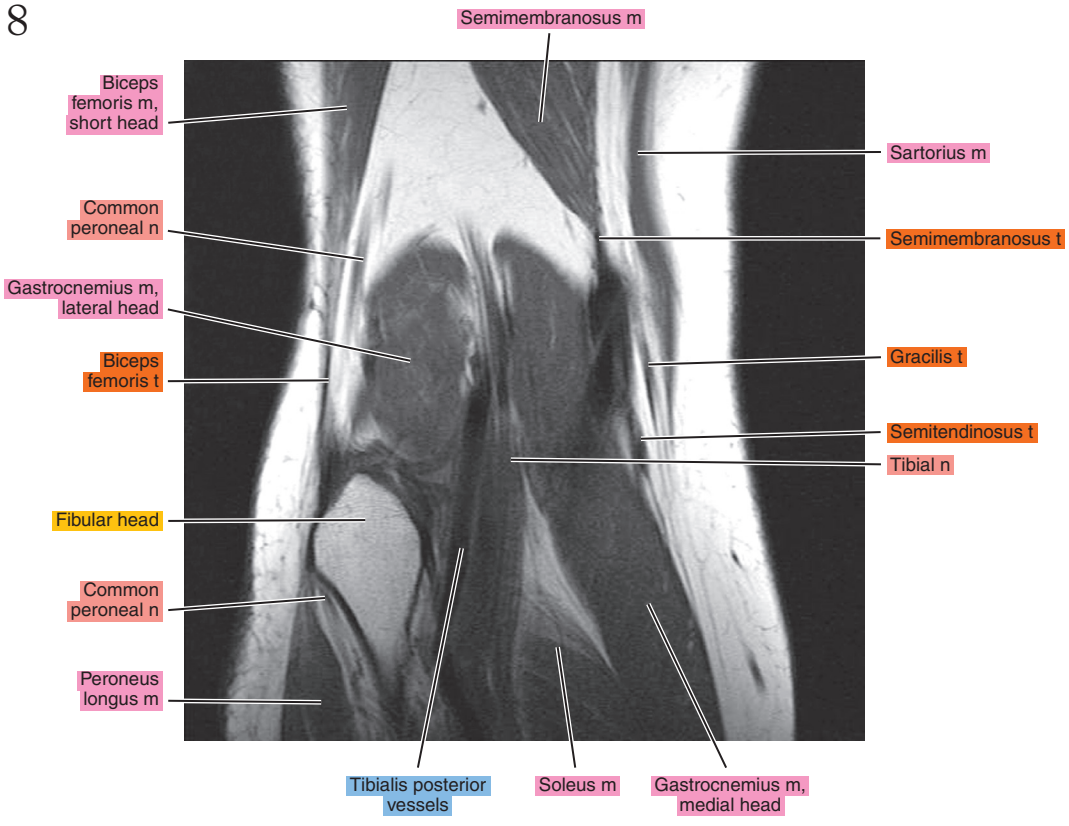

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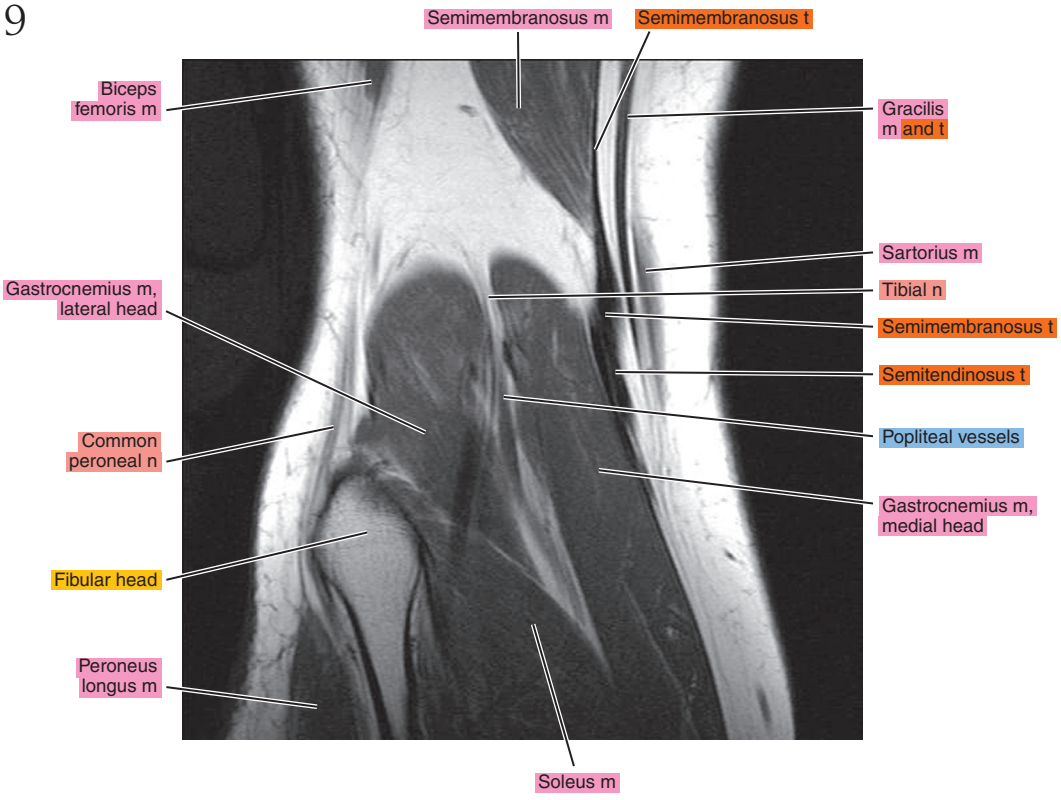

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Chapter

13

MRI of the Leg

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Table 13-1. Muscles of the Leg

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Tibialis anterior	Distal part of the lateral condyle of the tibia, lateral surface of the proximal half of the shaft of the tibia, adjacent interosseous membrane, overlying fascia near the condyle of the tibia, and intermuscular septum between it and the extensor digitorum longus	Medial surface of the first cuneiform and the base of the first metatarsal	Branch from the common peroneal and another from the deep peroneal
Extensor digitorum longus	Lateral condyle of the tibia, anterior crest of the fibula intermuscular membrane between it and the tibialis anterior, lateral margin of the interosseous membrane, the septum between it and the peroneus longus, and fascia of the leg near the tibial origin	Each tendon, located on the dorsal surface of the toe to which it goes, divides into three fasciculi: the intermediate, attached to the dorsum of the base of the middle phalanx; and two lateral, which converge to the dorsum of the base on the distal phalanx. The margins of each tendon are bound to the sides of the back of the proximal phalanx	By two branches of the deep peroneal
Peroneus tertius	Distal one third of the anterior surface of the fibula, neighboring interosseous membrane, and anterior intermuscular septum	Onto the base of the fifth metatarsal and often onto the base of the fourth	The more distal nerve to the extensor digitorum supplies this muscle (deep peroneal)
Extensor hallucis longus	Middle half of the anterior surface of the fibula near the interosseous crest and distal half of the interosseous membrane	At the base of the dorsal aspect of the great toe	Deep peroneal
Peroneus longus	Proximal two thirds of the lateral surface of the fibula	Inferior surface of the first cuneiform and on the adjacent part of the inferolateral border and the base of the first metatarsal	Usually, the common peroneal, sometimes partially by superficial peroneal
Peroneus brevis	Middle one third of the lateral surface of the fibula, from the septum that separate it from the anterior and posterior groups of muscles	Dorsal aspect of the tuberosity of the fifth metatarsal	Superficial peroneal or a branch to peroneus longus
Popliteus	Facet at the anterior end of the groove on the lateral aspect of the femoral condyle	Proximal lip of the popliteal line of the tibia and the shaft of the tibia proximal to this line	Tibial: a branch that arises independently, or with the nerve to the posterior tibial muscle
Flexor digitorum longus	Popliteal line, medial side of the second quarter of the dorsal surface of the tibia, fibrous septum between the muscle and the tibialis fascia posterior, and the covering its proximal extremity	Onto the bases of the terminal phalanges of the second to fourth toes	Tibial: in company with nerves to other muscles of this group
Flexor hallucis longus	Distal two thirds of the posterior surface of the fibula, the septa between it and the tibialis posterior, and peroneal muscles	Onto the base of the terminal phalanx of the great toe	Tibial: often in company with the nerve to the flexor digitorum longus or other muscles of this group

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Table 13-1. Muscles of the Leg—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Tibialis posterior	Lateral half of the popliteal line and lateral half of the middle one third of the posterior surface of the tibia, medial side of the head and part of the body of the fibula next to the interosseous membrane in the proximal two thirds, the entire proximal and lateral portion of the lateral part of the posterior surface of the interosseous membrane, and the septum between its proximal portion and the long flexor muscles	The tendon divides into two parts: the deep part becomes attached primarily to the tubercle of the navicular bone, and usually to the first cuneiform; the superficial part attaches to the third cuneiform and the base of the fourth metatarsal, and also, in part, to the second cuneiform, to the capsule of the naviculocuneiform joint, to the sulcus of the cuboid, and usually also to the origin of the short flexor of the big toe and base of the second metatarsal; slip may extend to other structures	Tibial: in company with nerves to other muscles of this group
Gastrocnemius	Medial head: posterior surface of the medial condyle of the femur above the articular surface; lateral head: a facet on the proximal part of the posterolateral surface of the lateral condyle of the femur	Via the Achilles tendon onto the posterior surface of the calcaneus	Sciatic, tibial part
Soleus	By a fibular head from the back of the head and the proximal one third of the posterior surface of the shaft of the fibula; intermuscular septum between it and the peroneus longus, by a tibial head from the popliteal line and the middle one third of the medial border of the tibia	Via the calcaneal tendon onto the posterior surface of the calcaneus	Sciatic, tibial part
Plantaris	Distal part of the lateral line of the bifurcation of the linea aspera, in close association with the lateral head of the gastrocnemius	Via a flat narrow tendon running along the medial edge of the Achilles tendon to the posterior surface of the calcaneus	Sciatic, tibial part

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AXIAL

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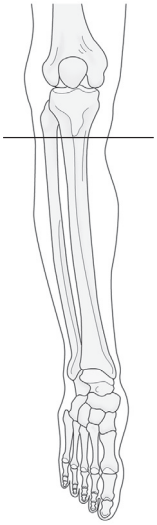

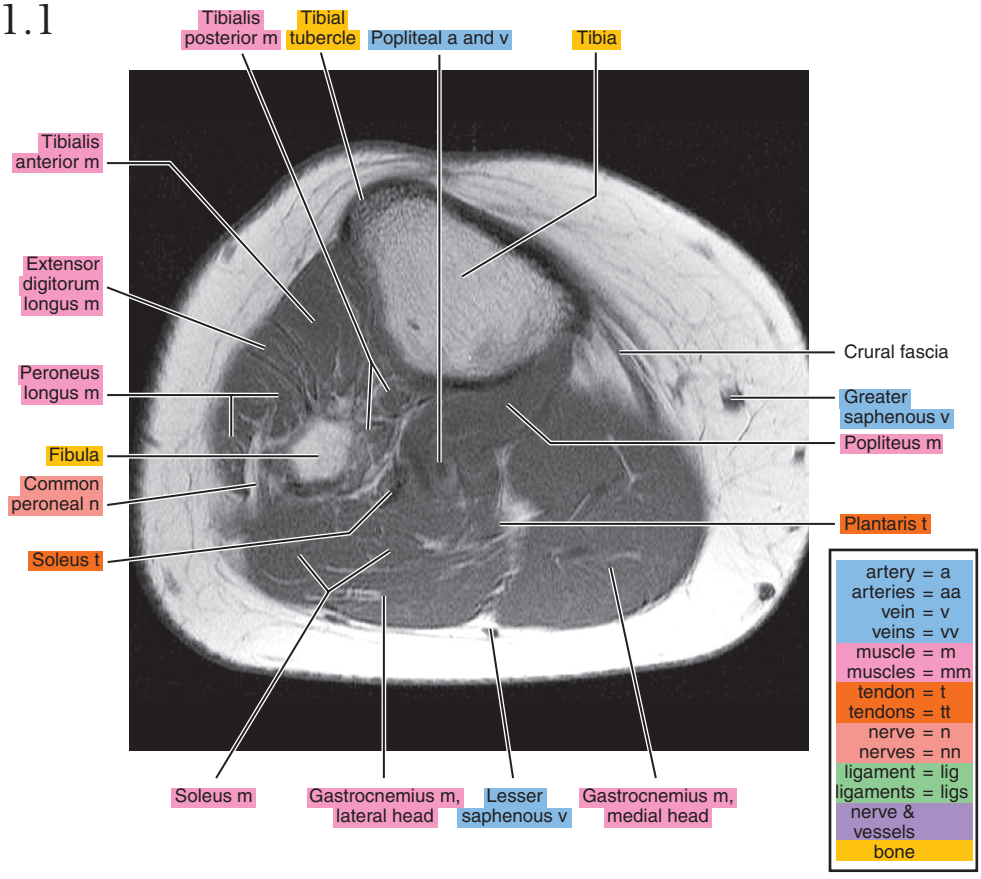

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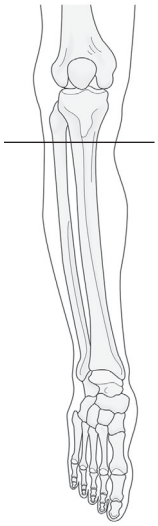

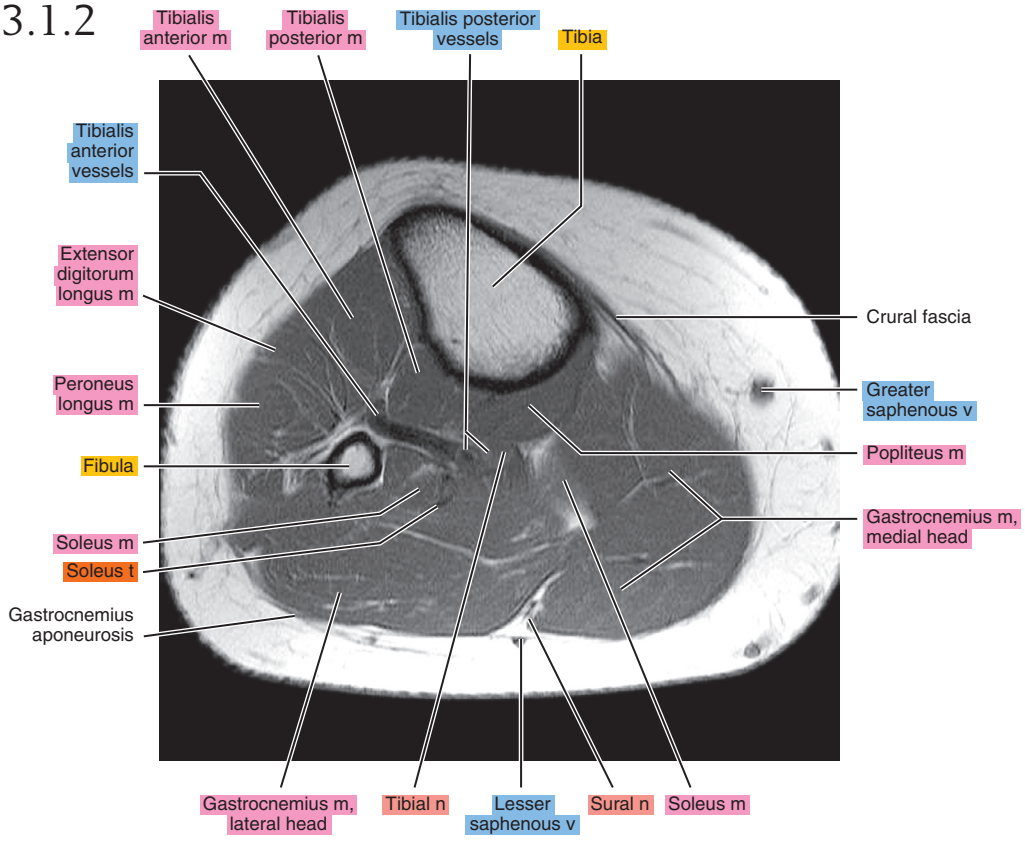

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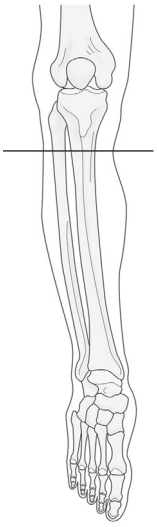

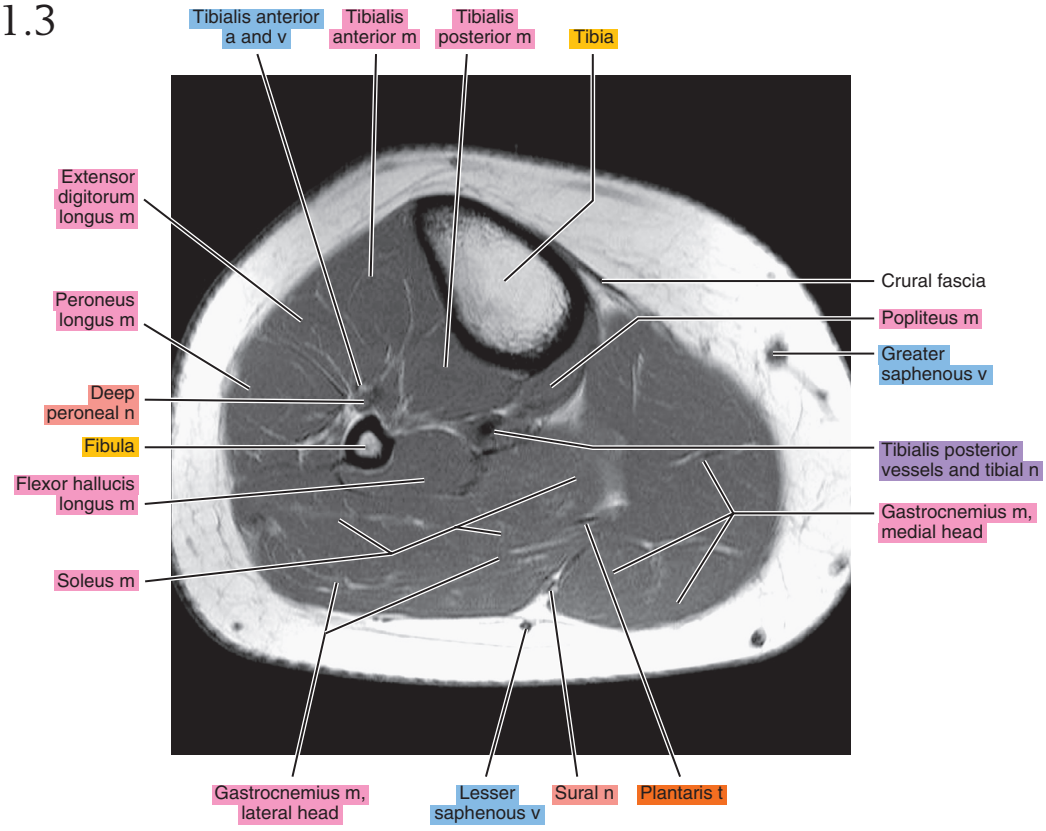

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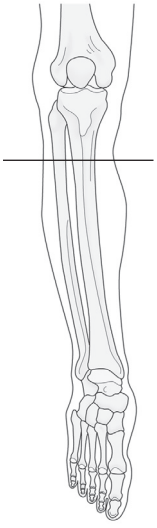

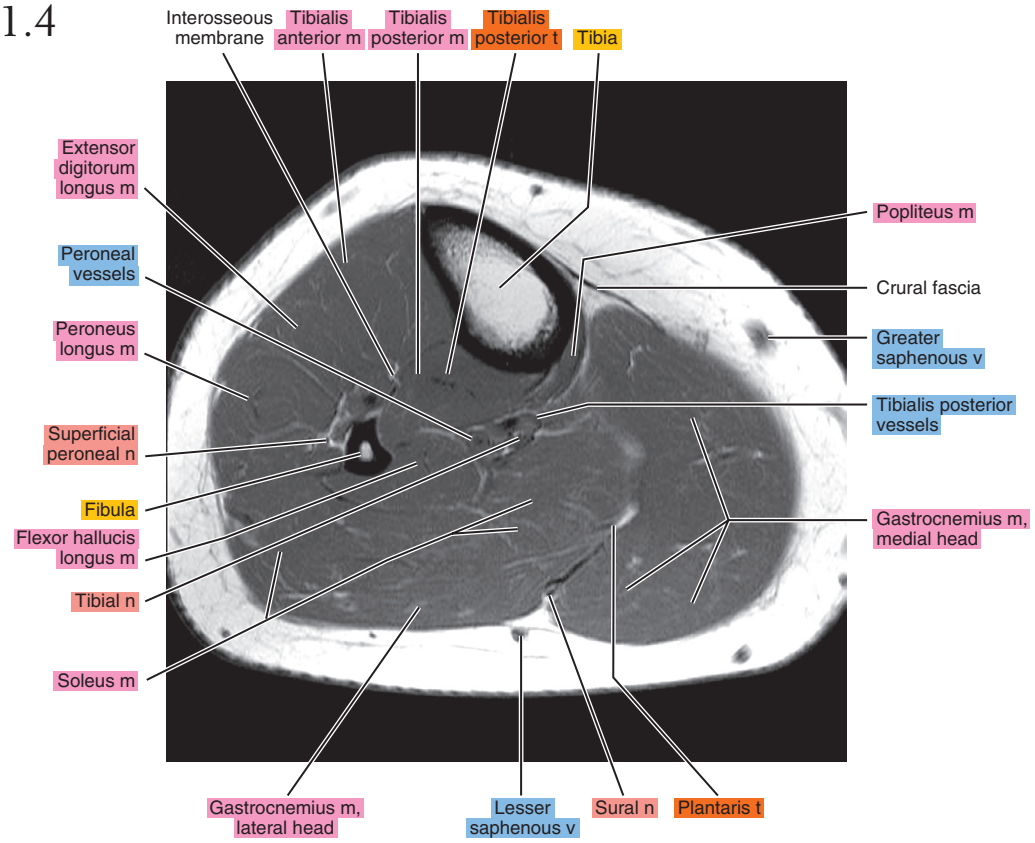

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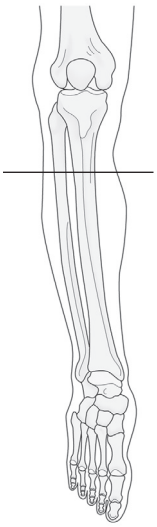

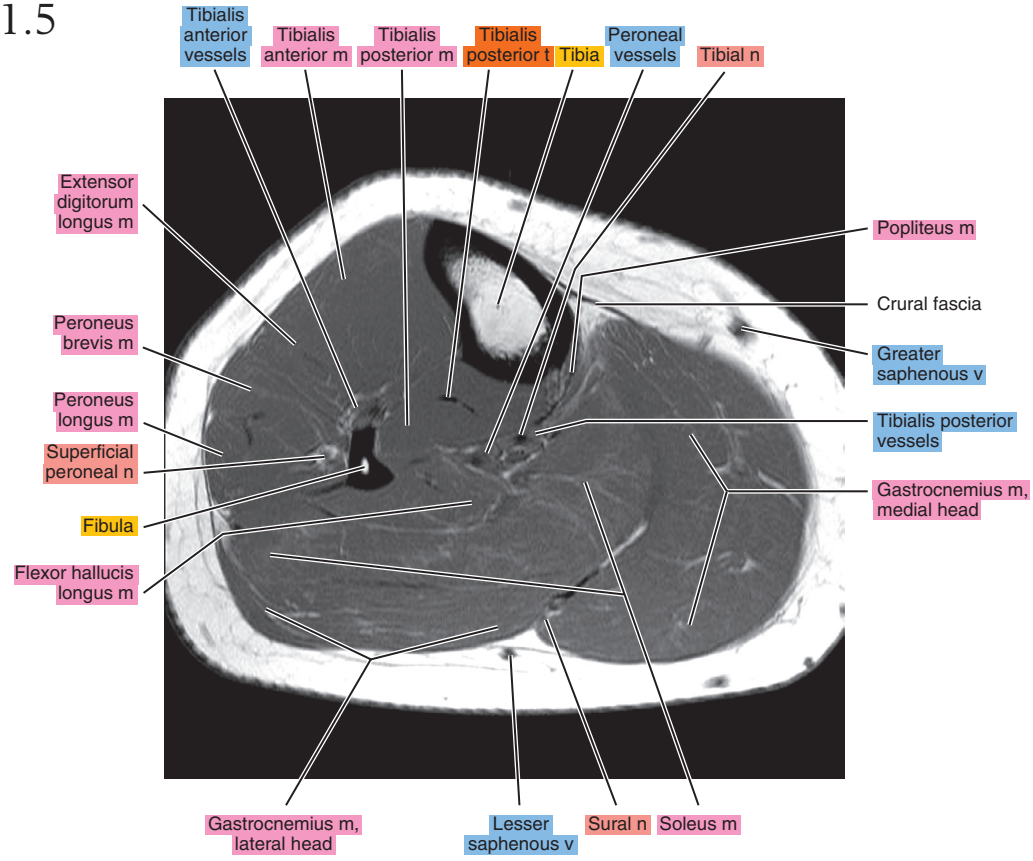

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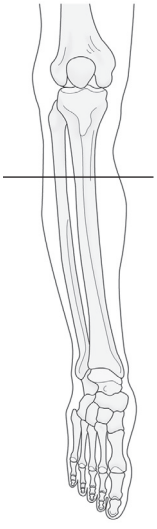

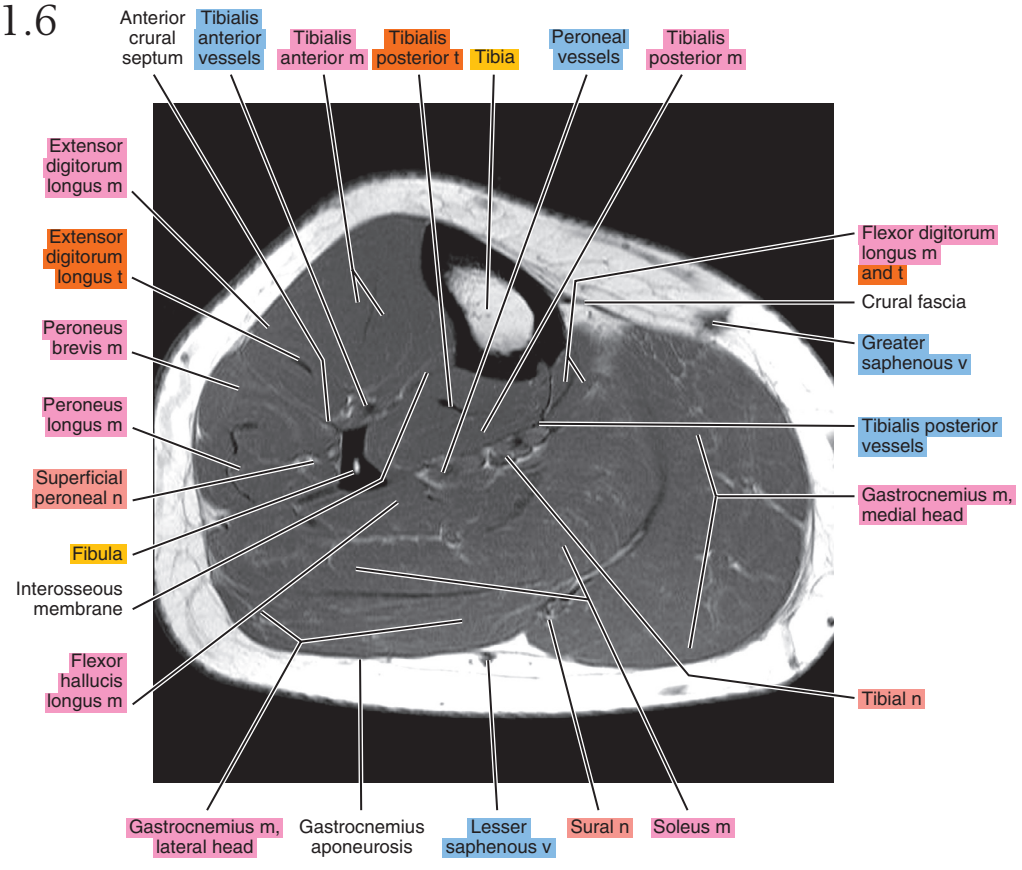

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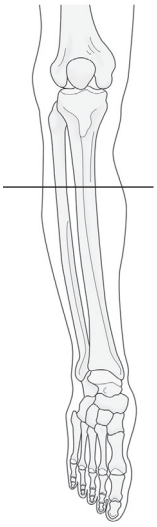

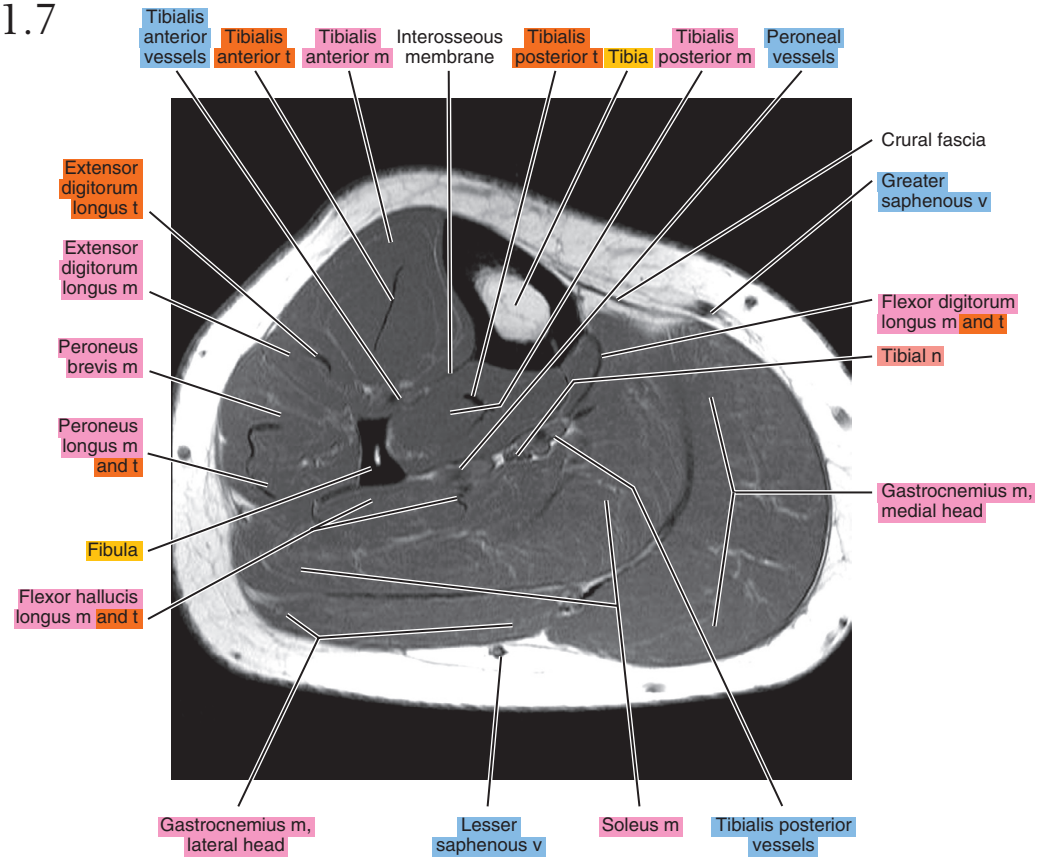

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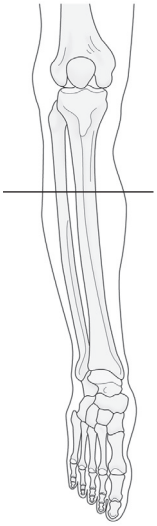

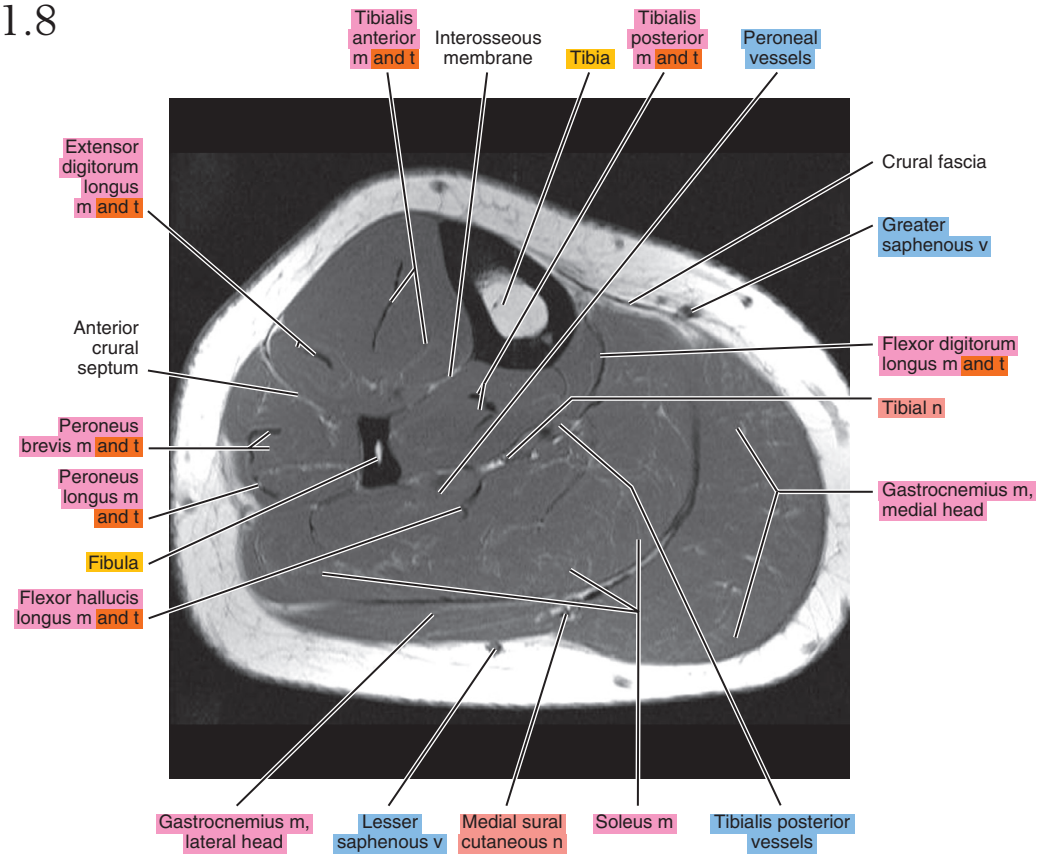

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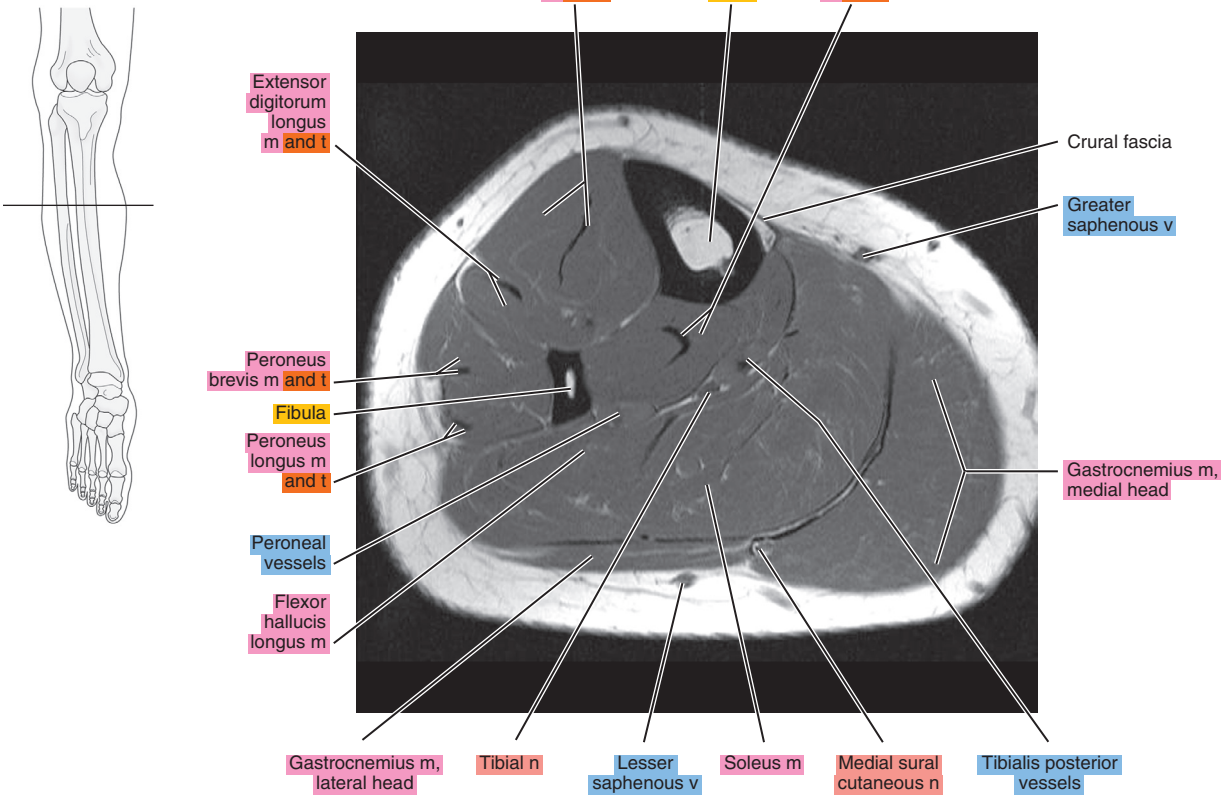

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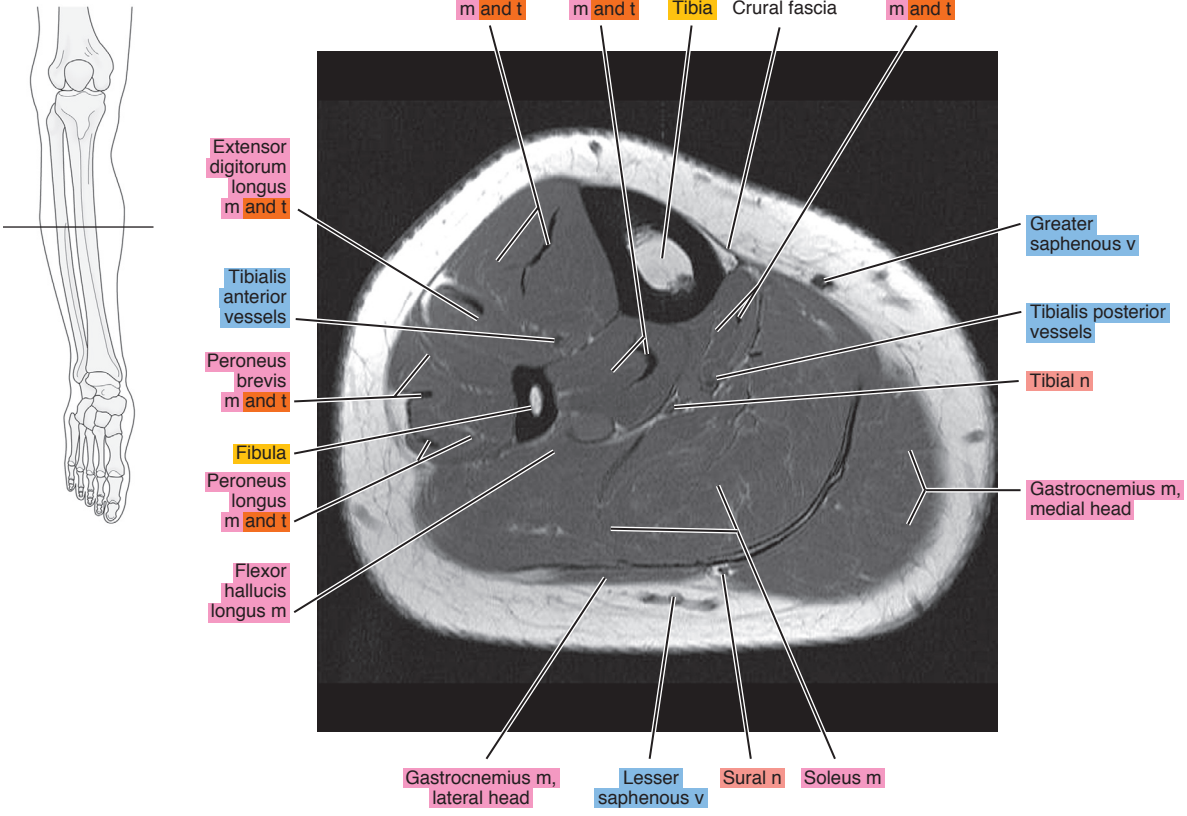

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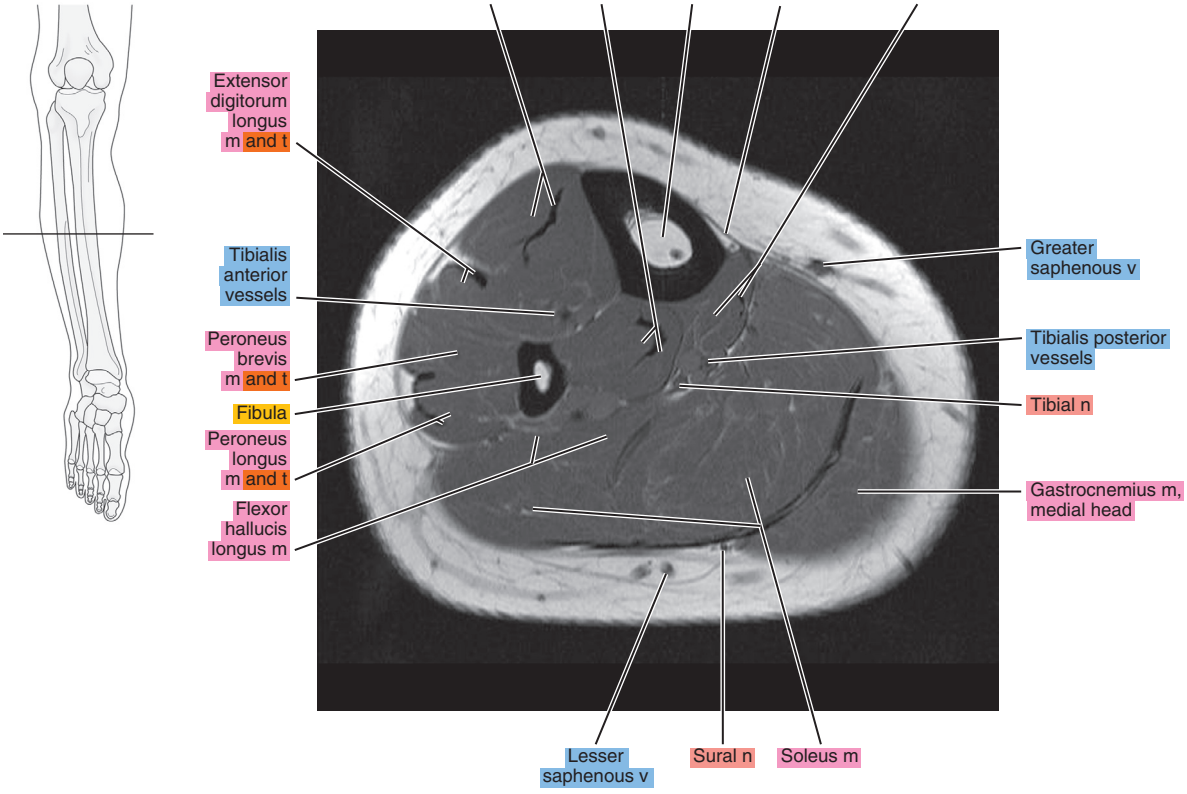

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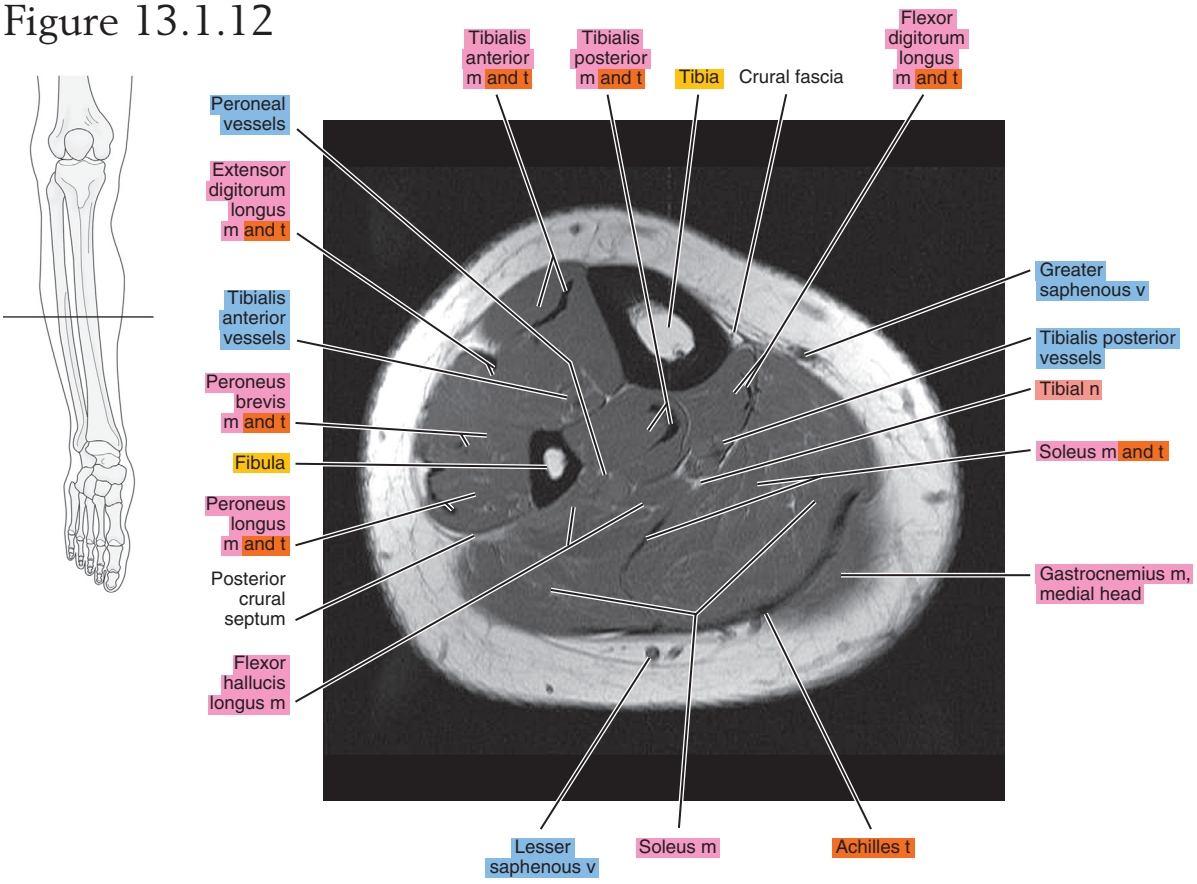

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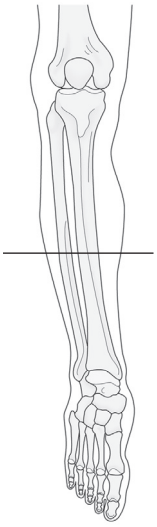

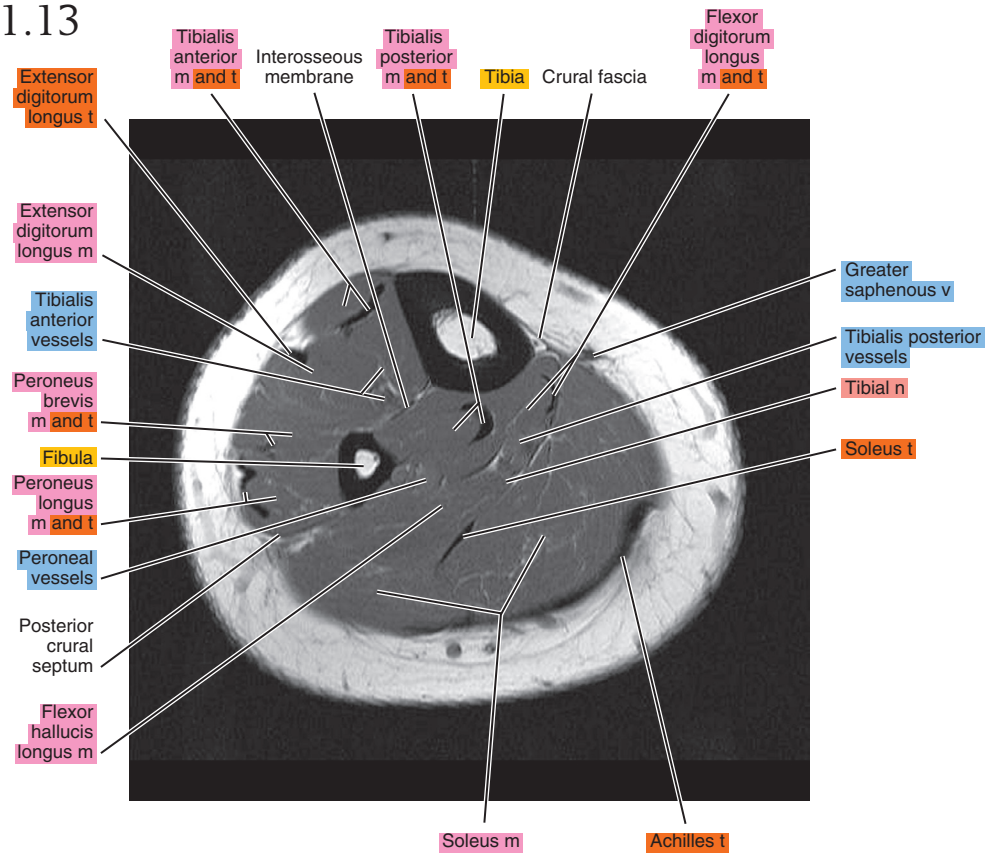

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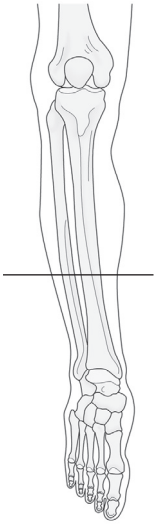

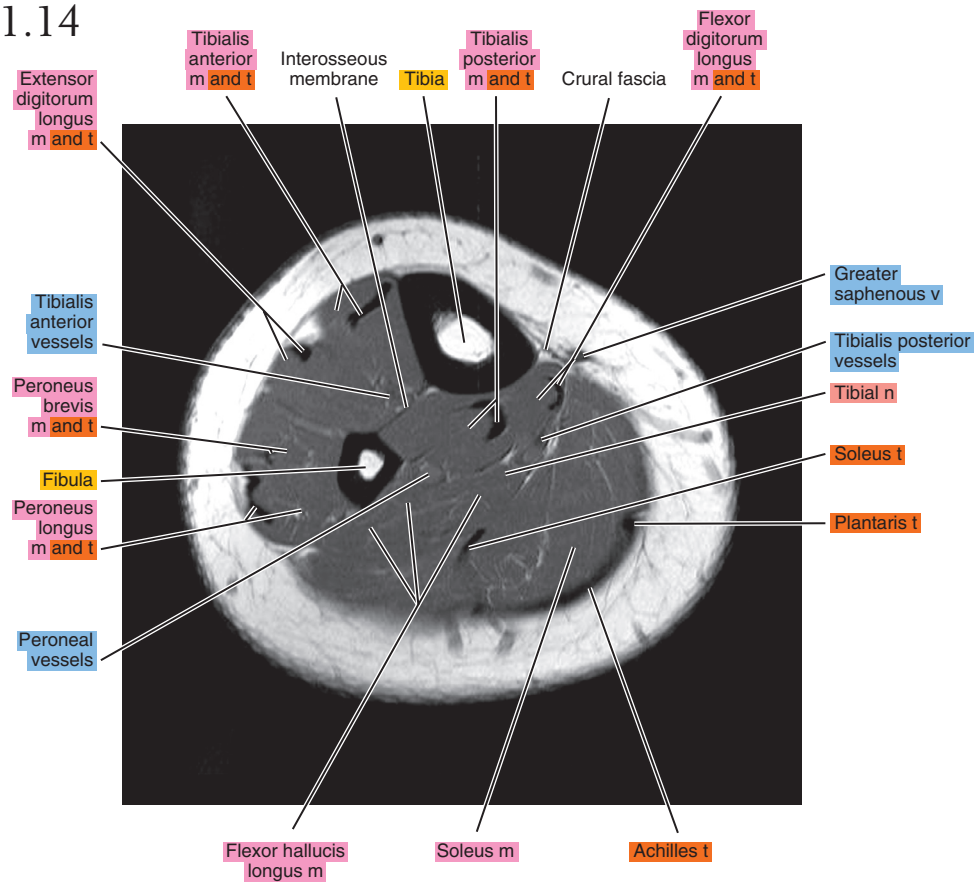

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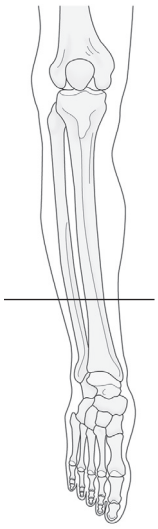

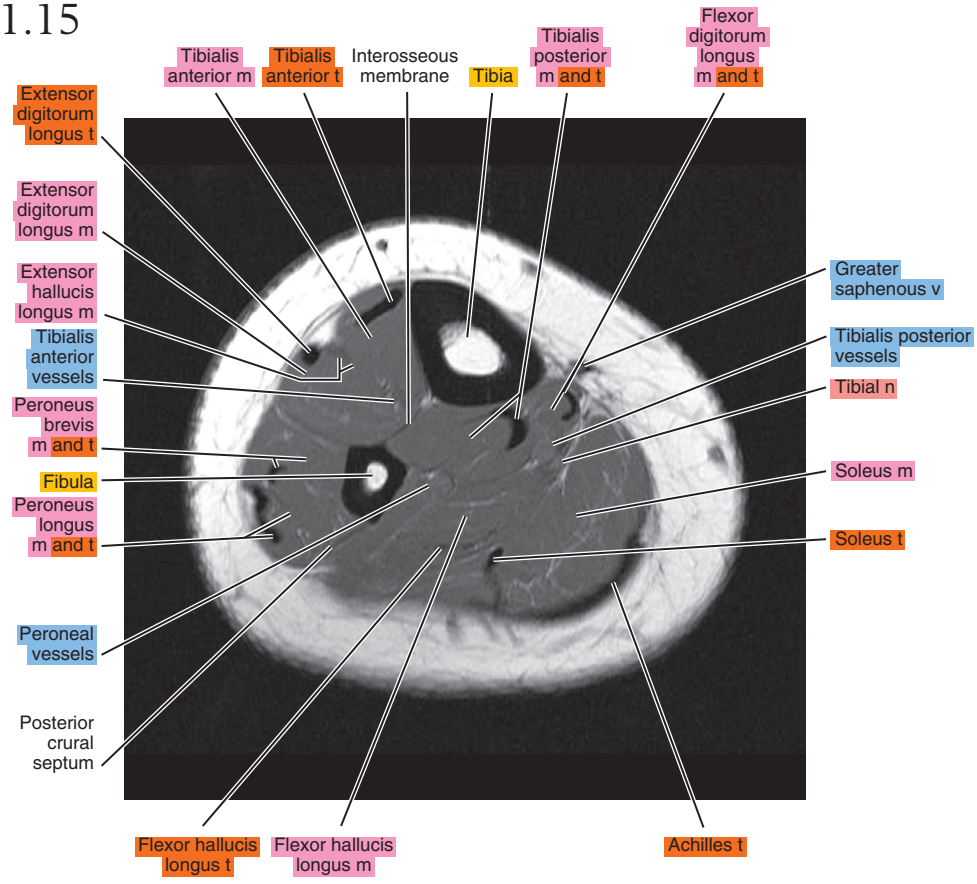

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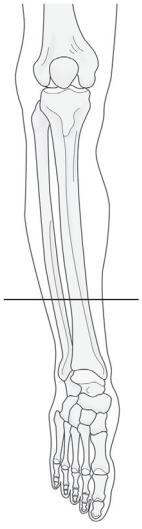

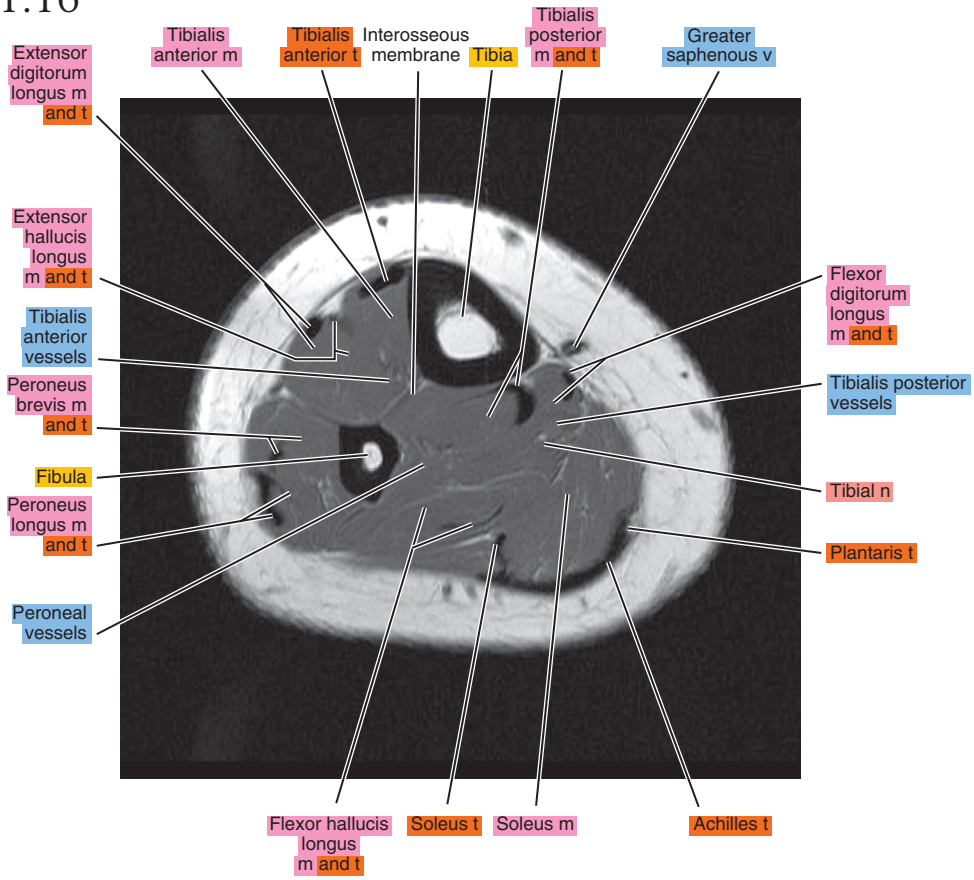

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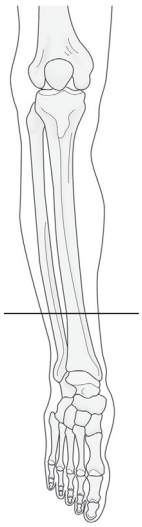

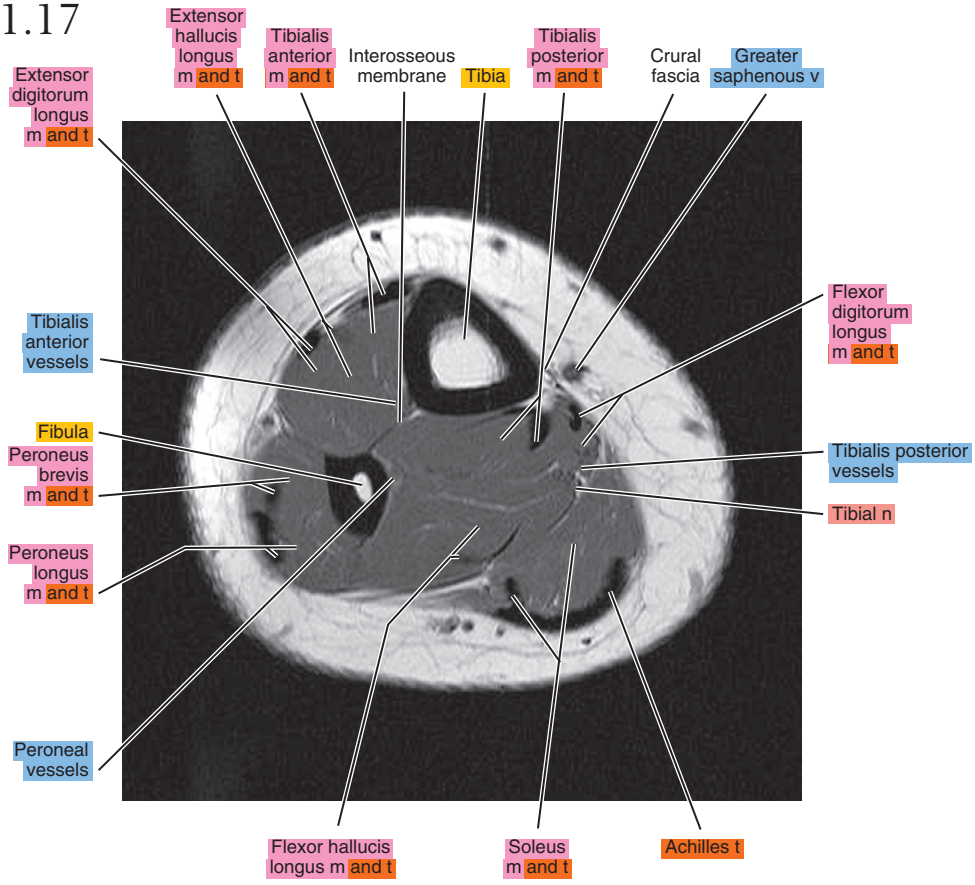

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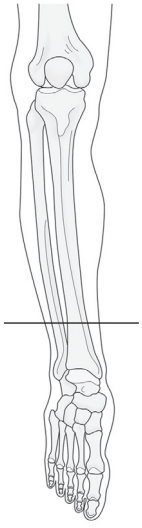

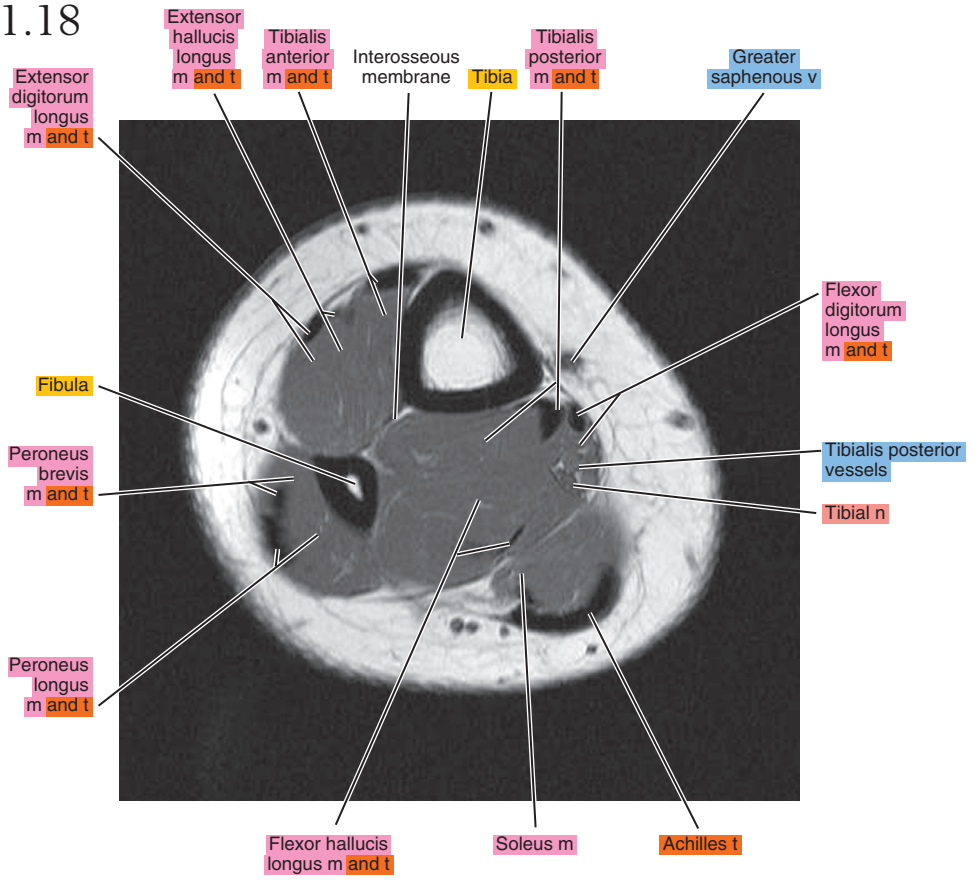

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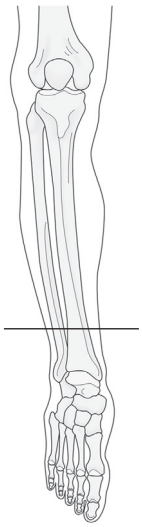

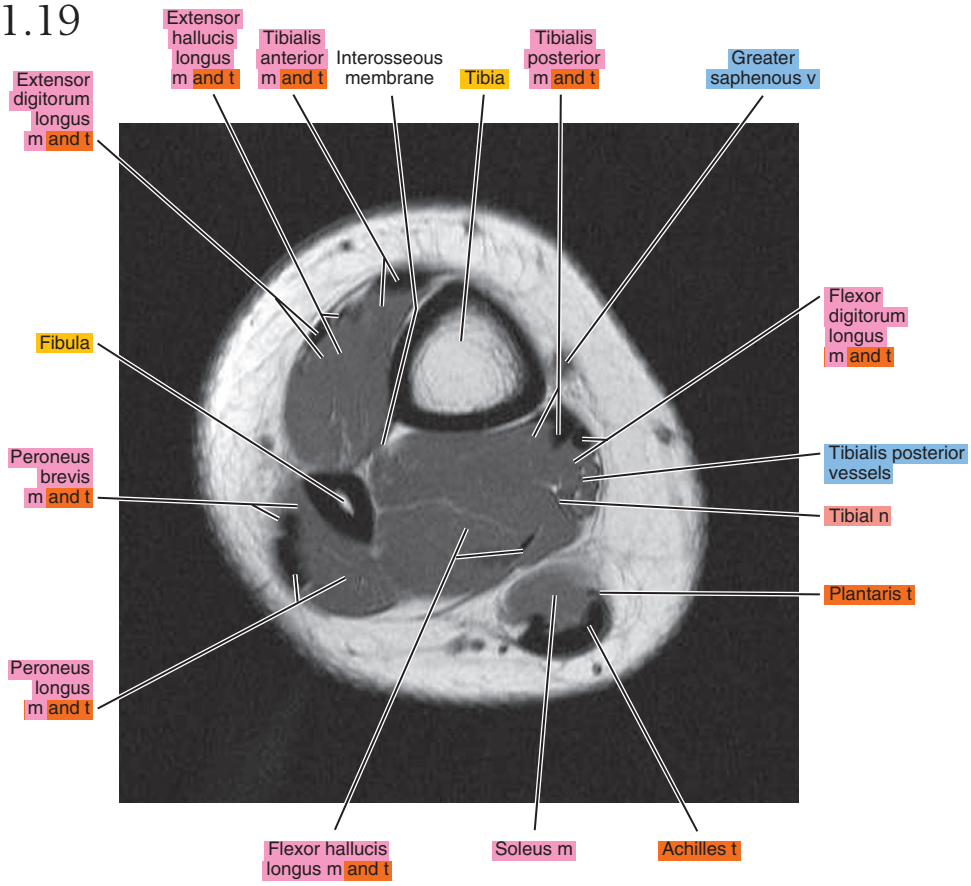

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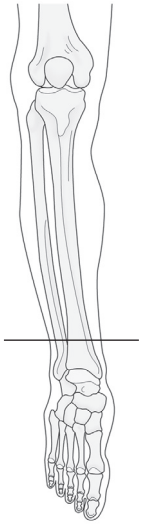

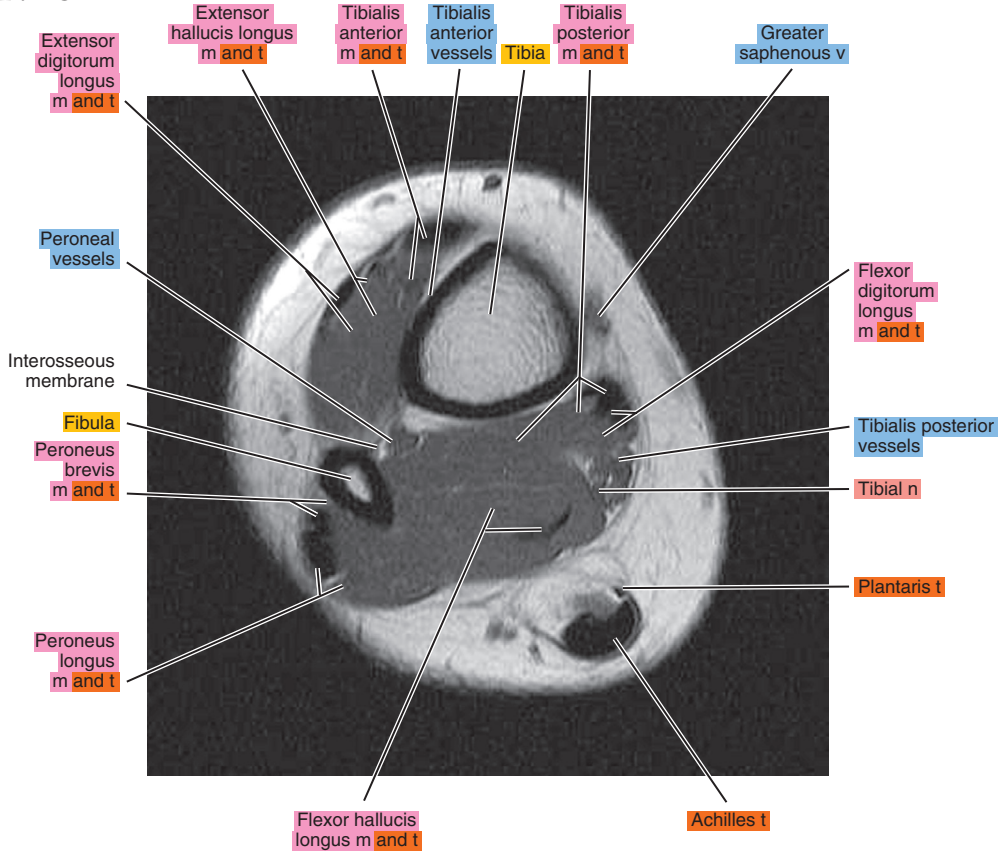

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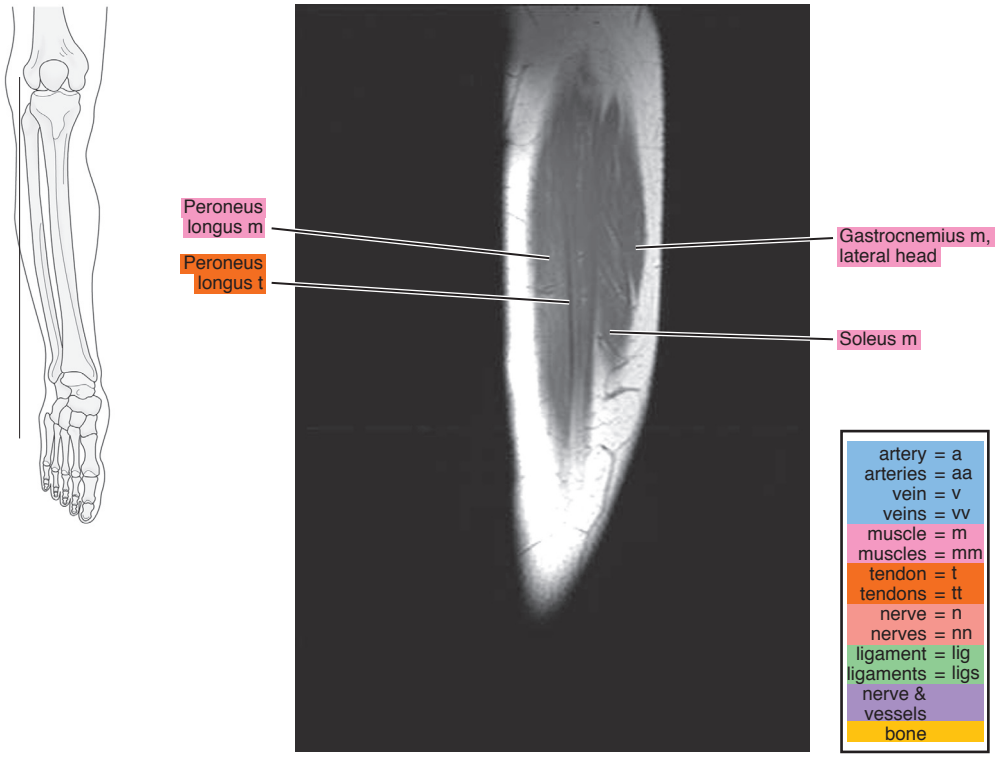

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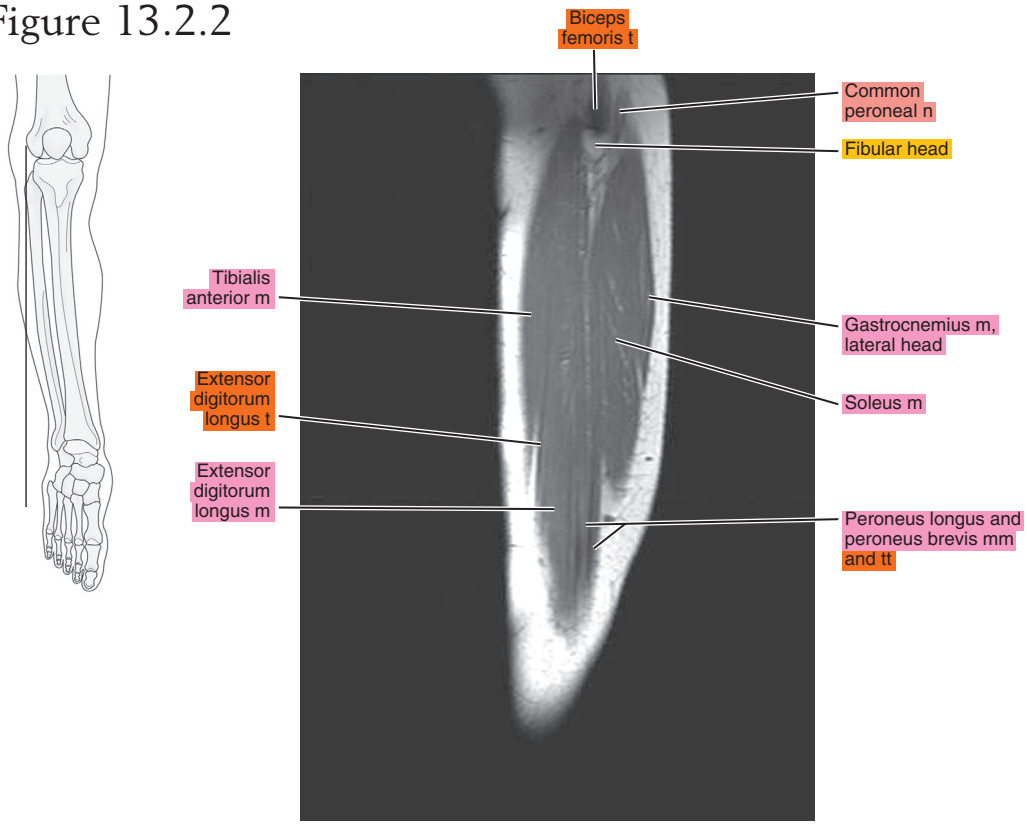

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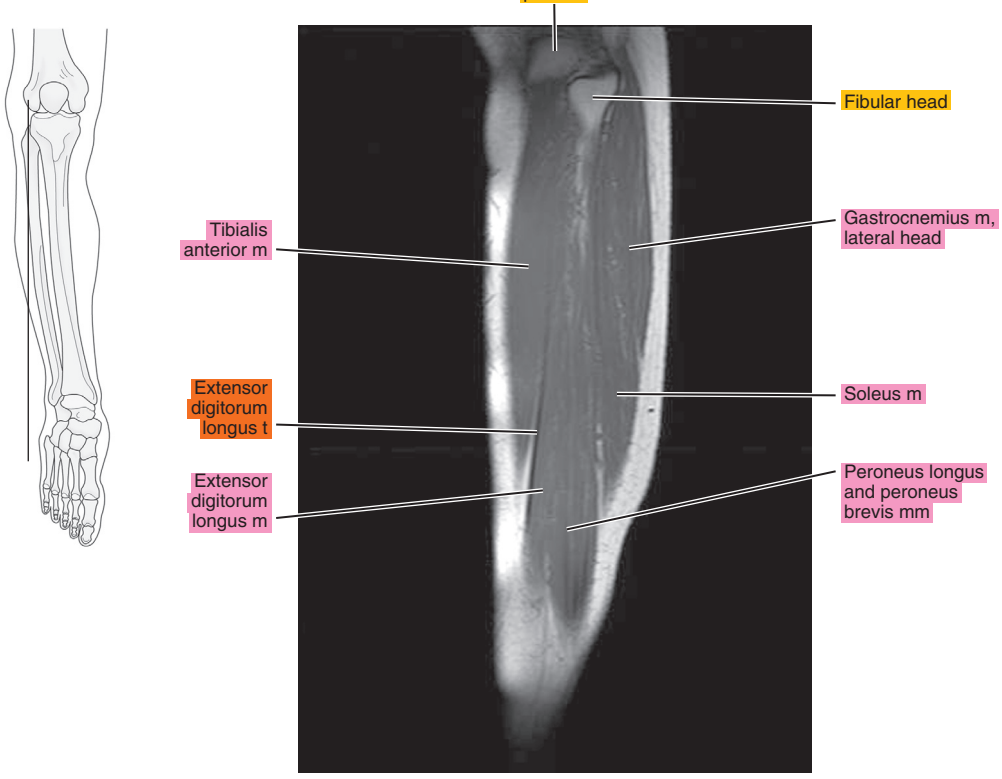

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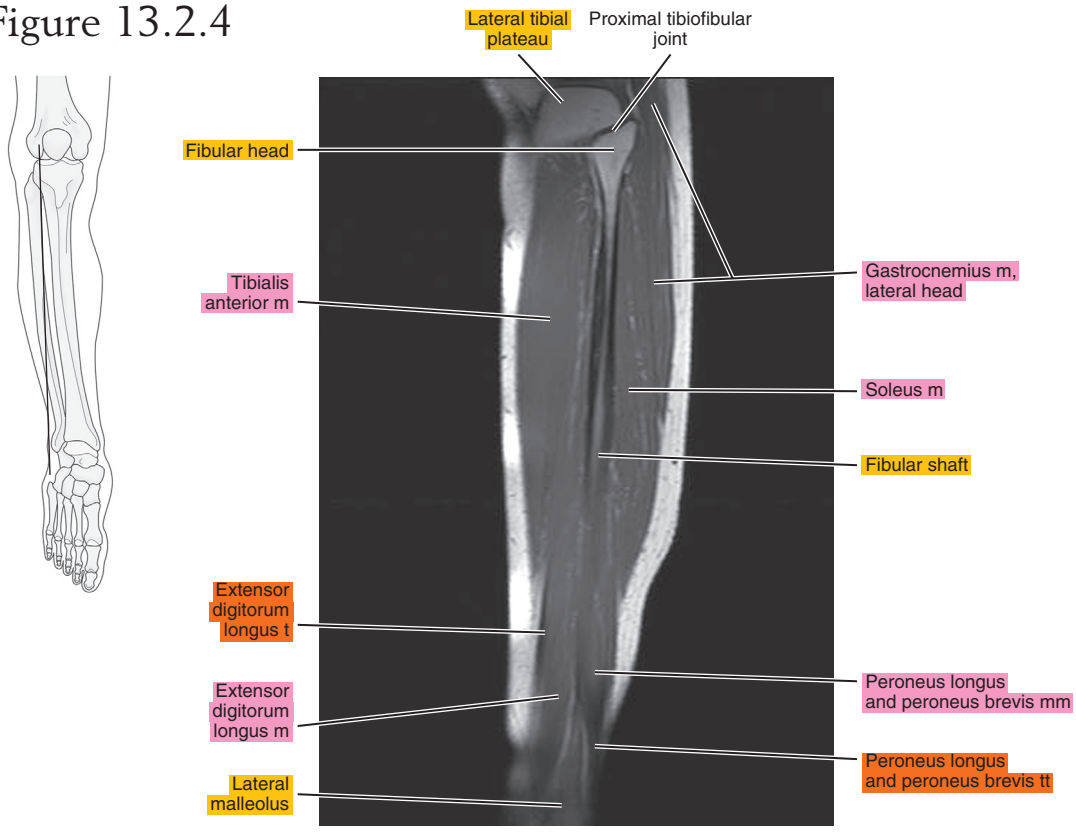

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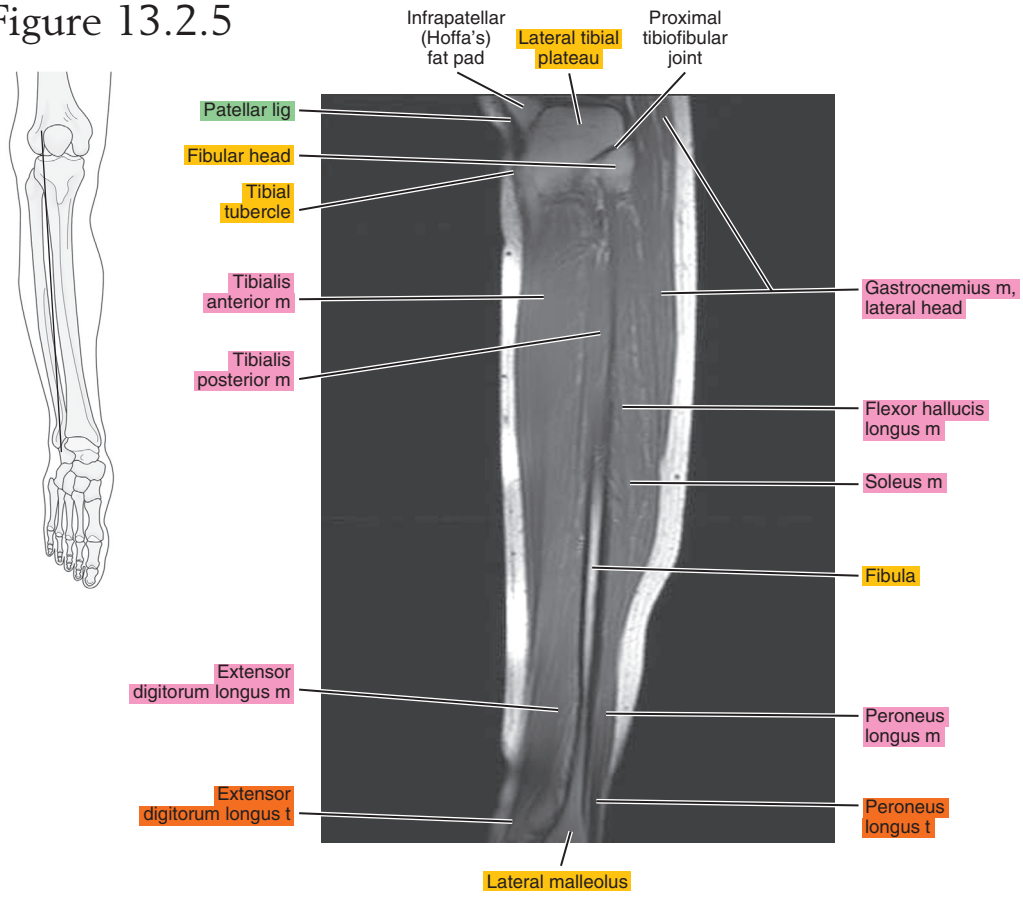

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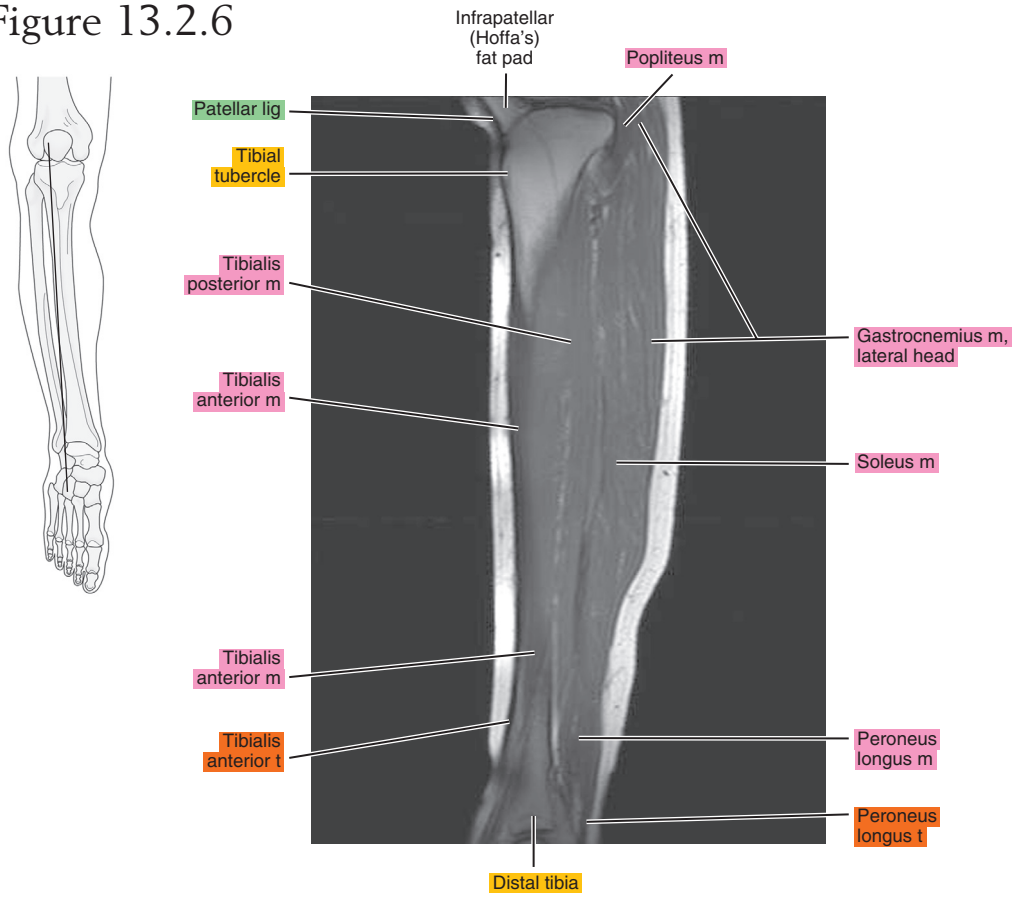

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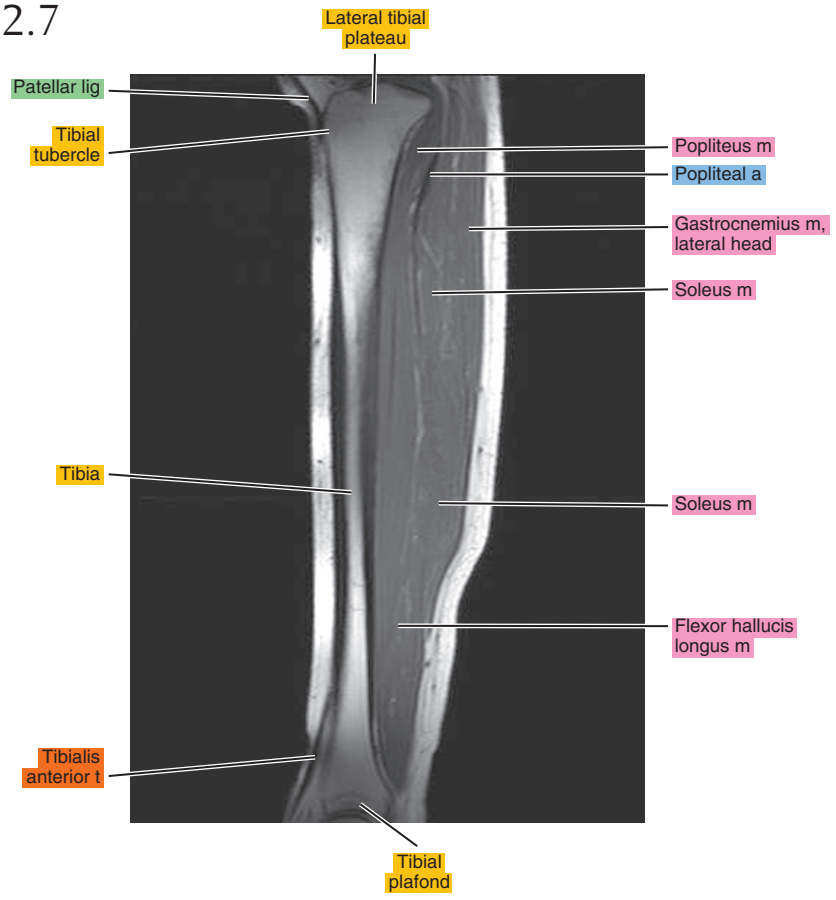

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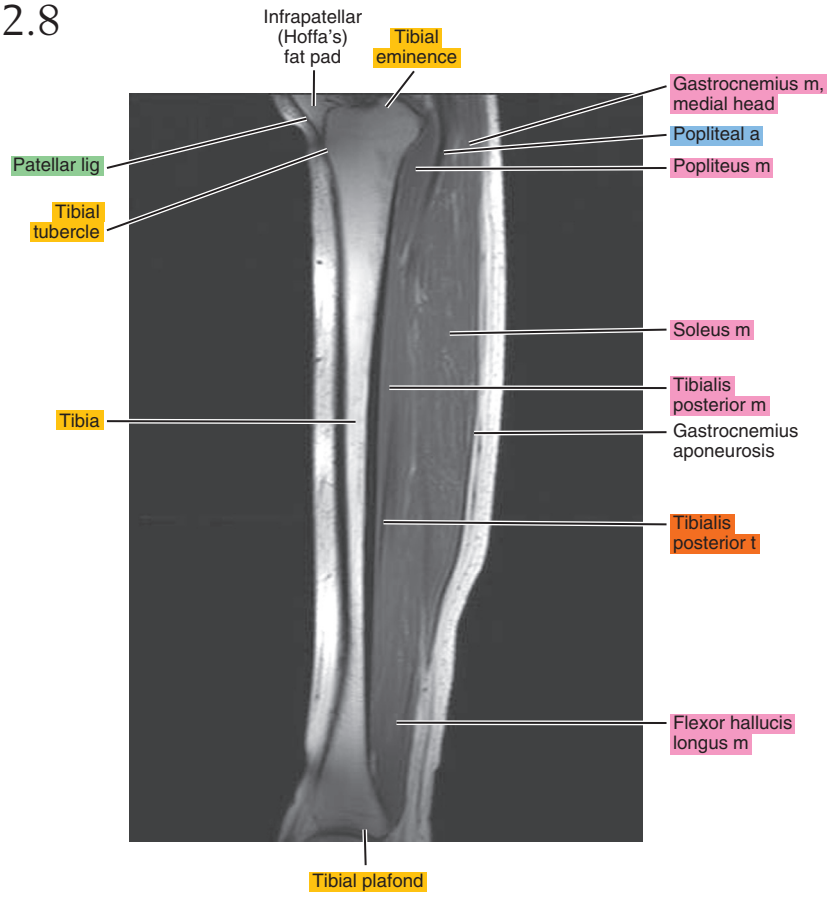

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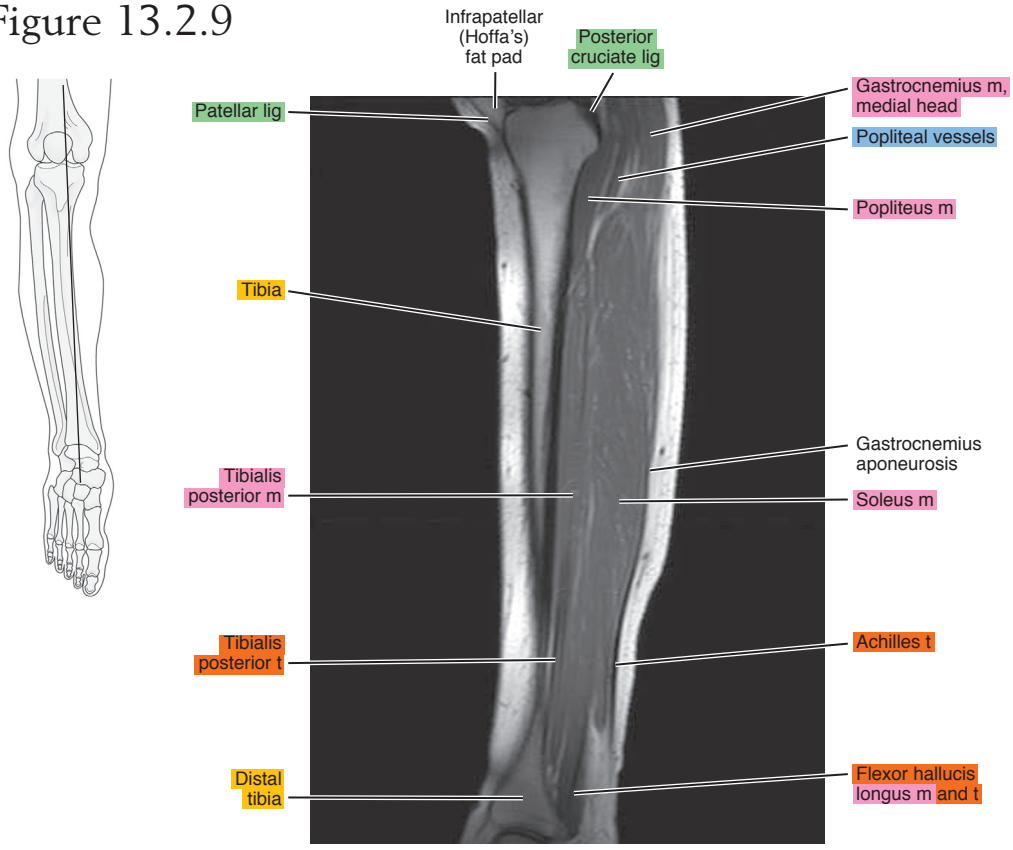

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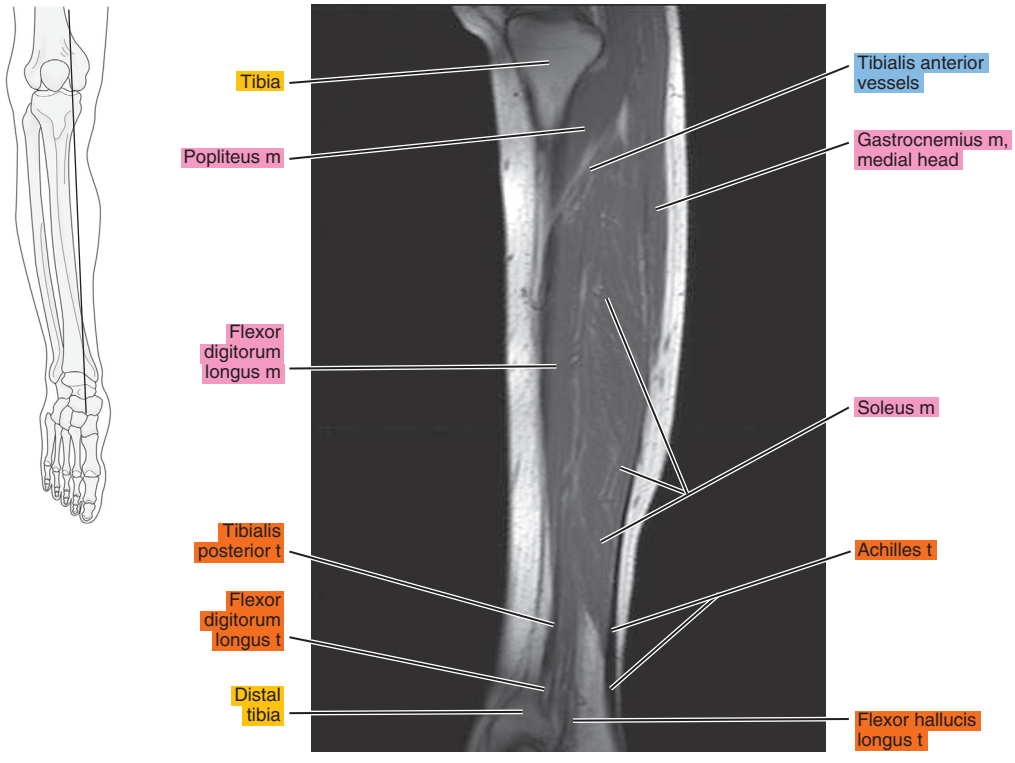

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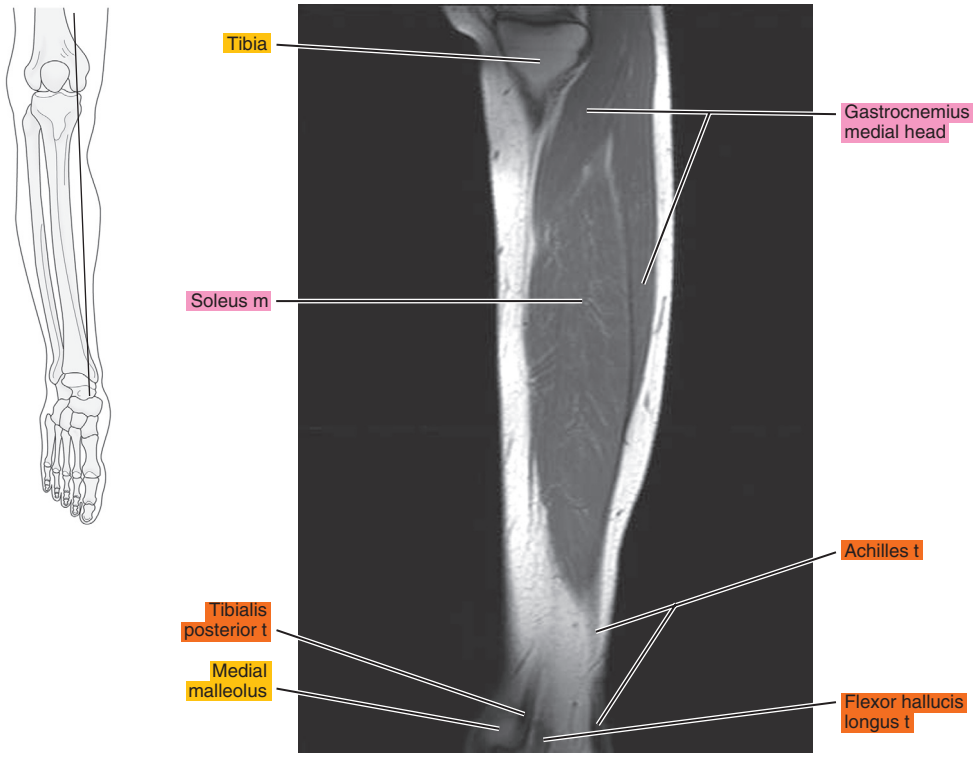

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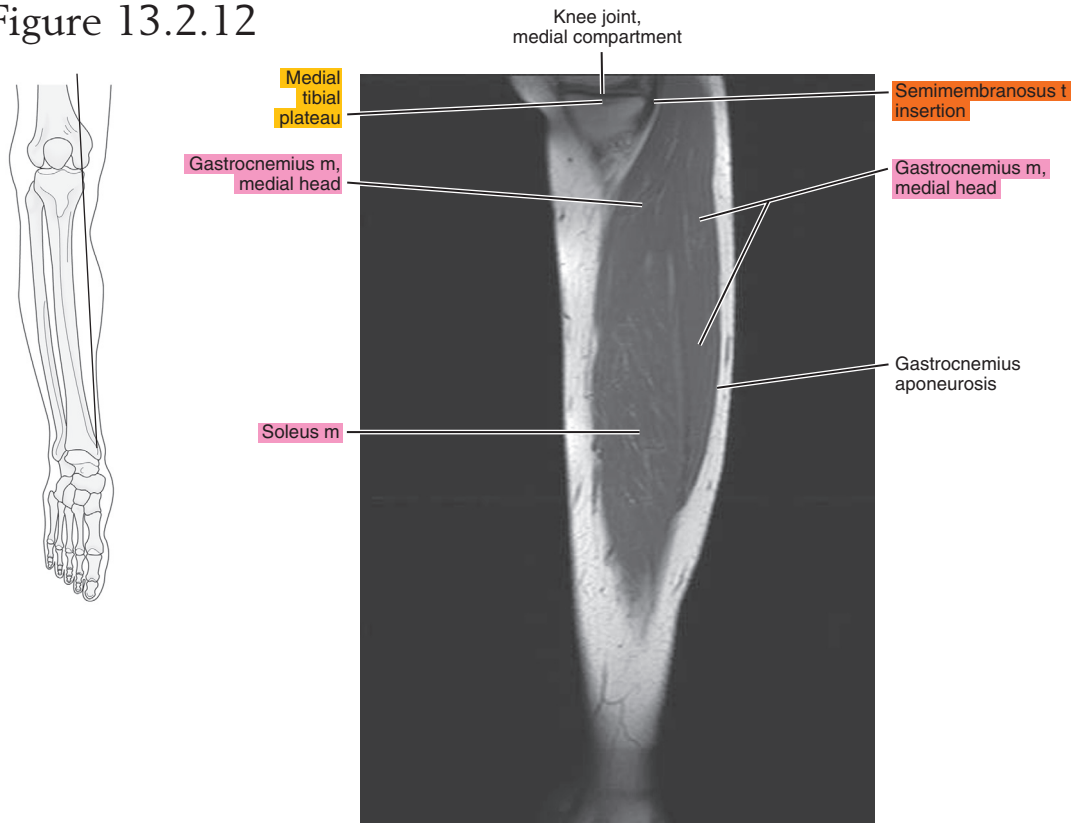

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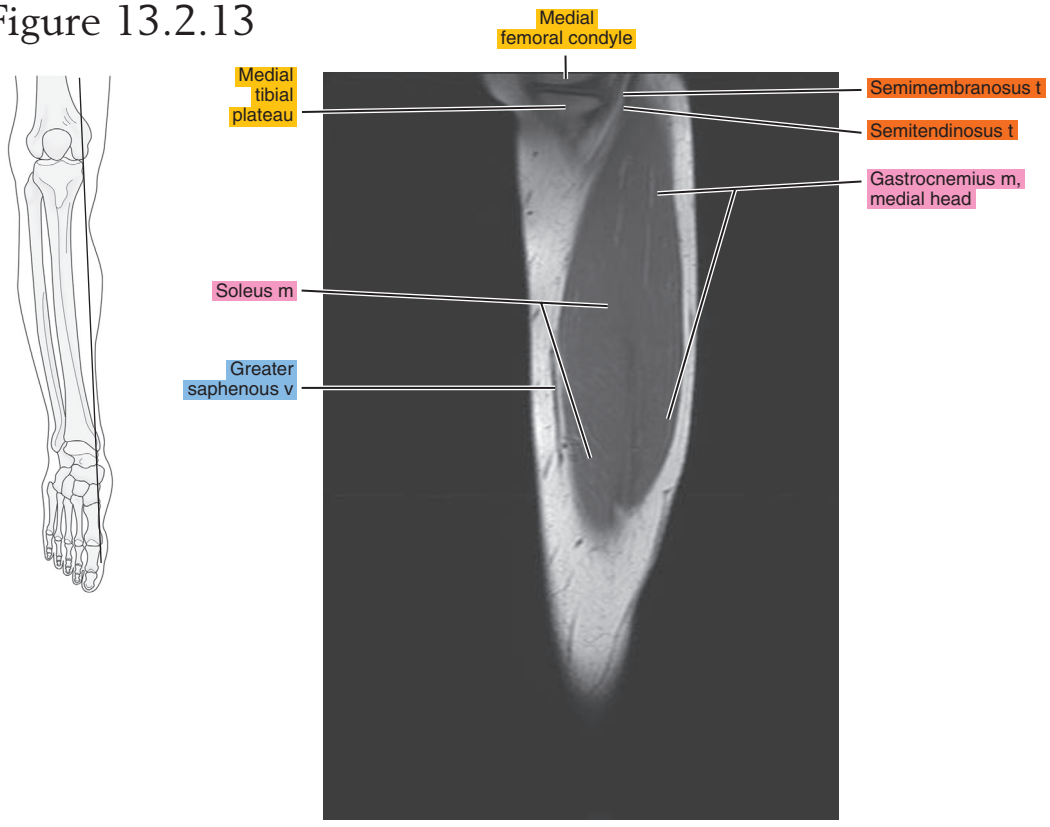

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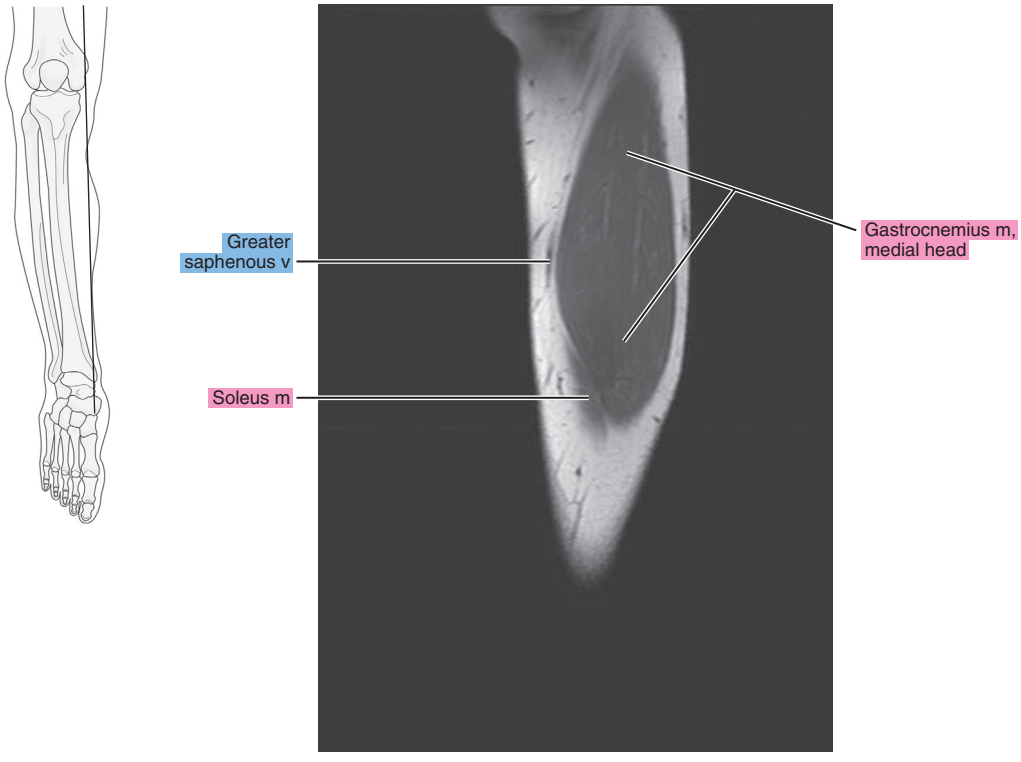

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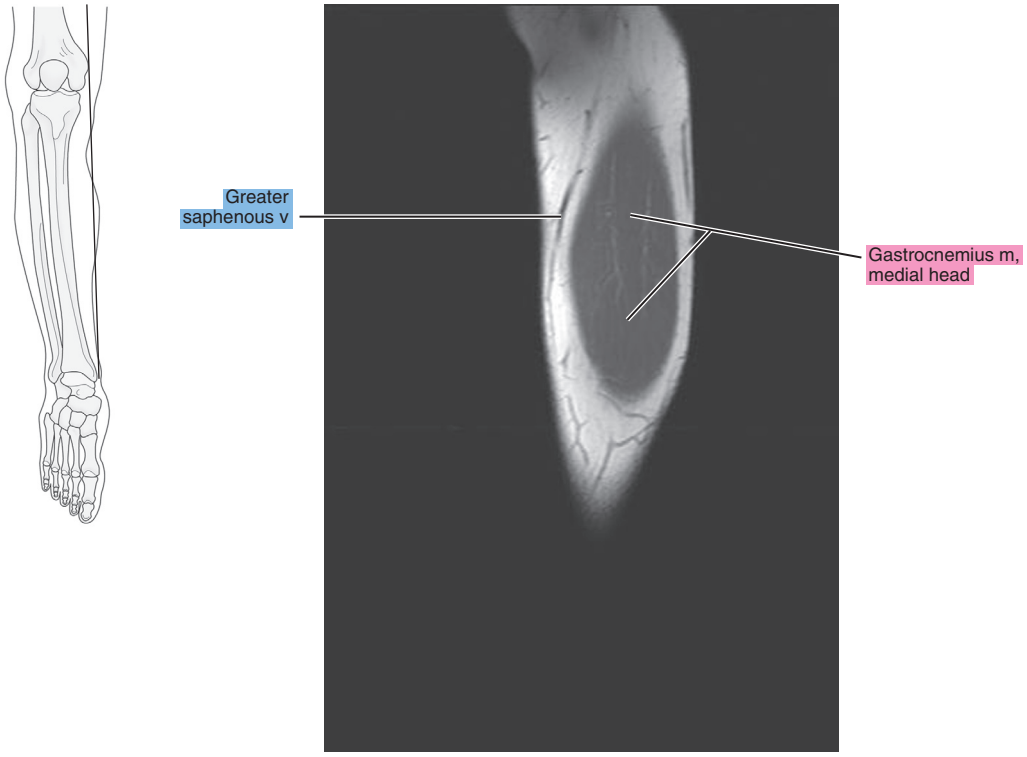

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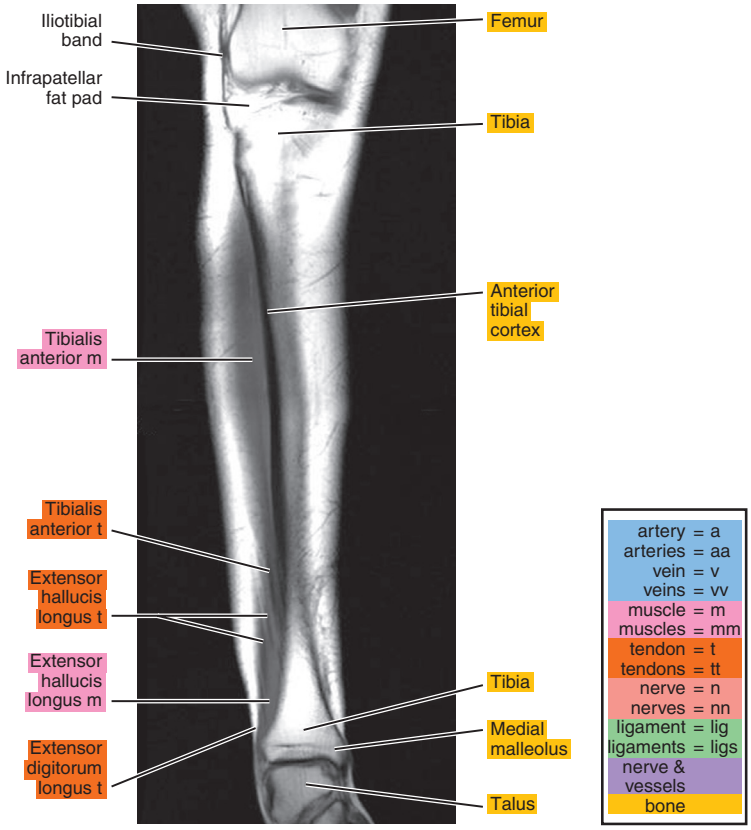

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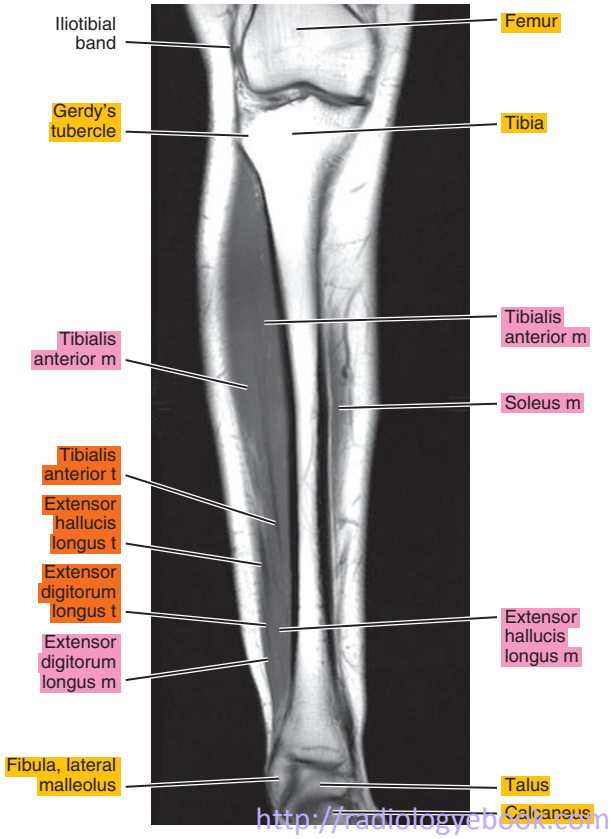

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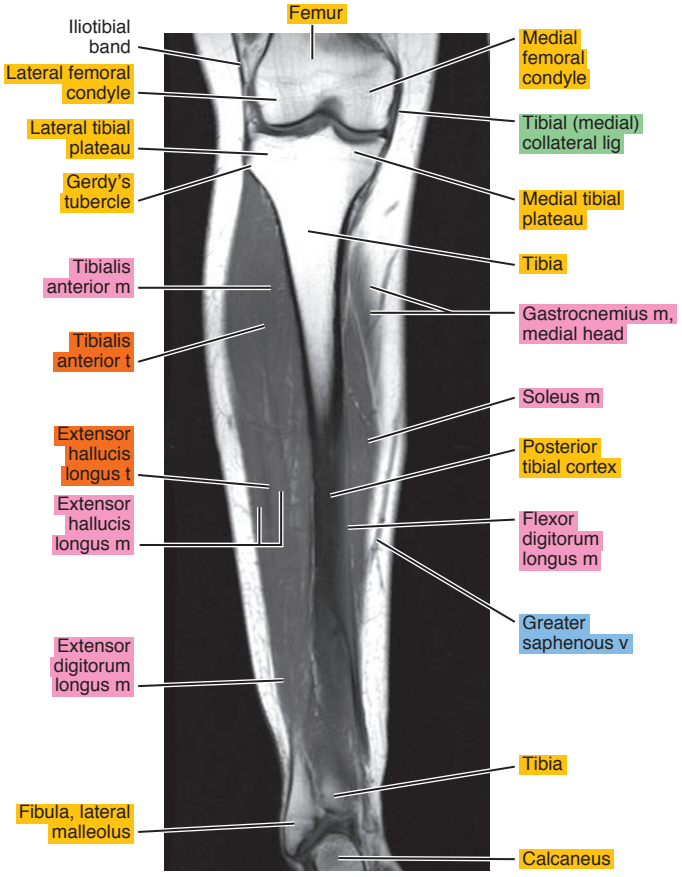

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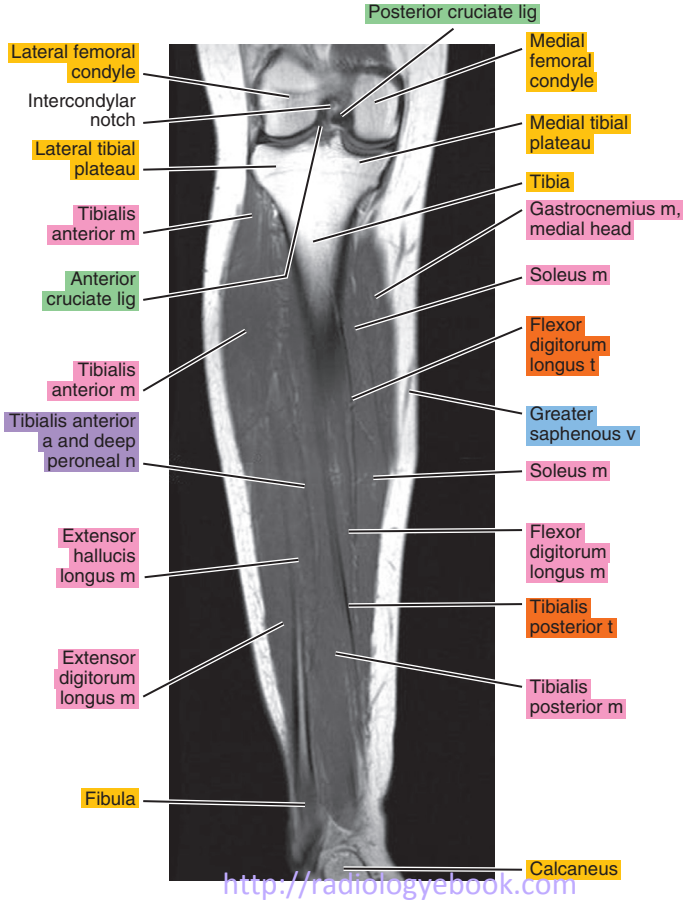

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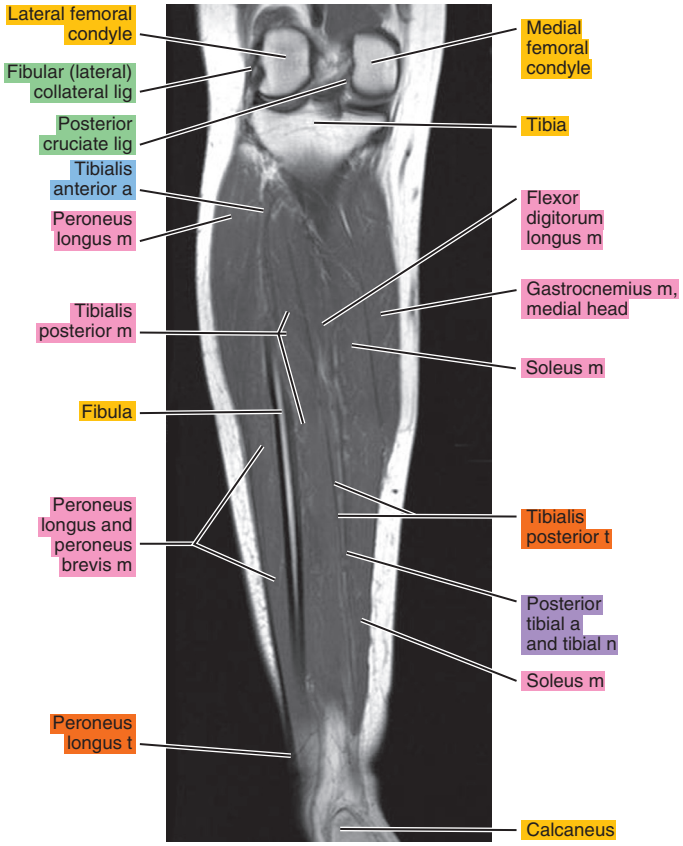

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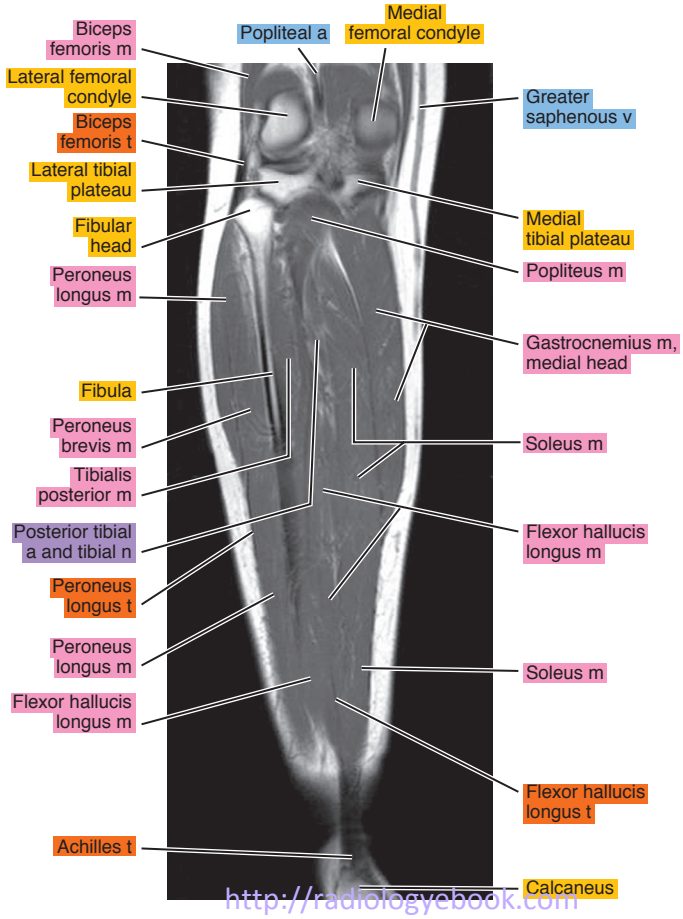

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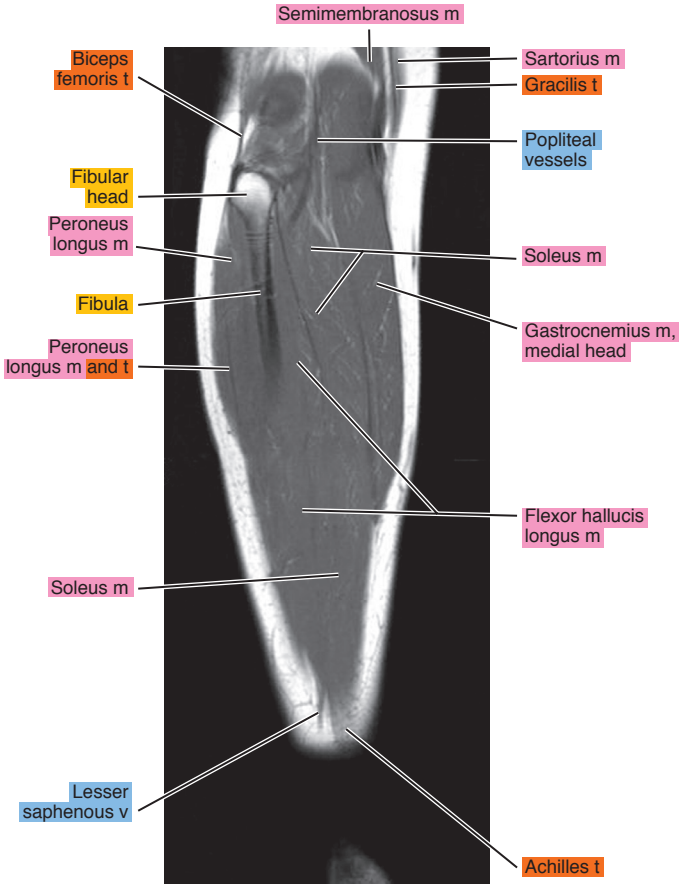

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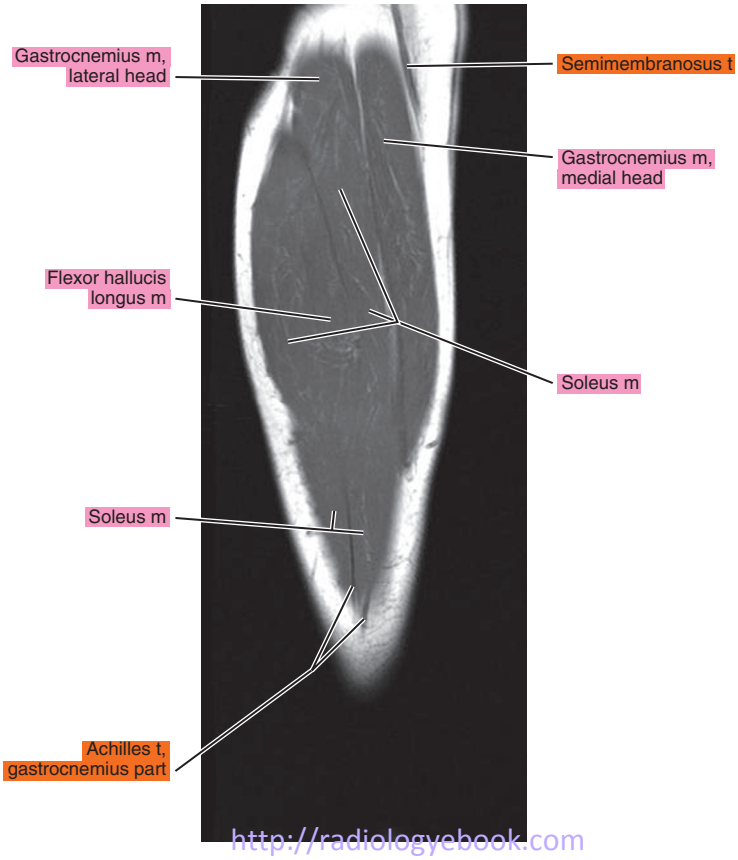

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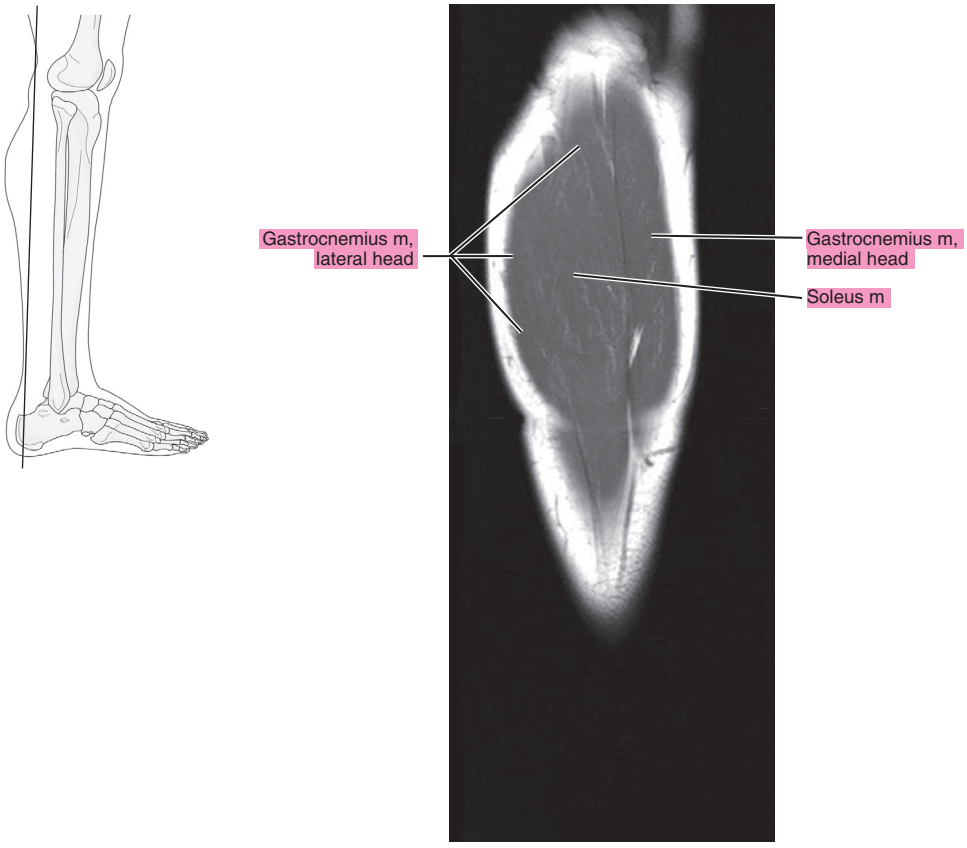

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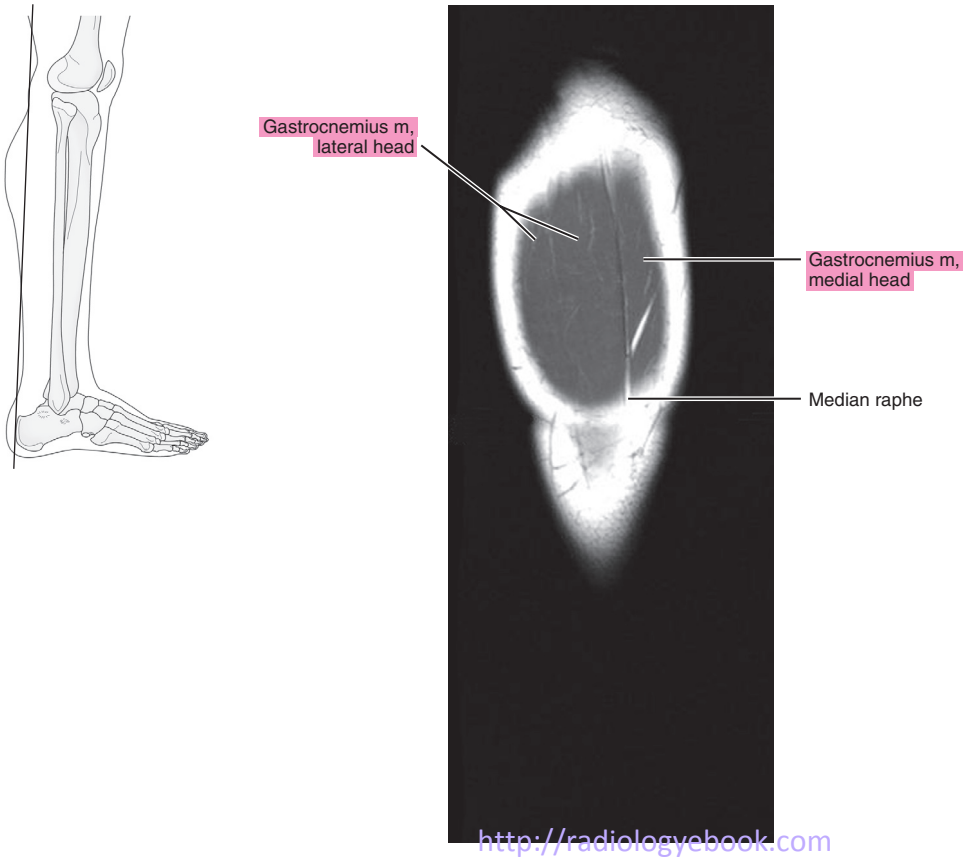

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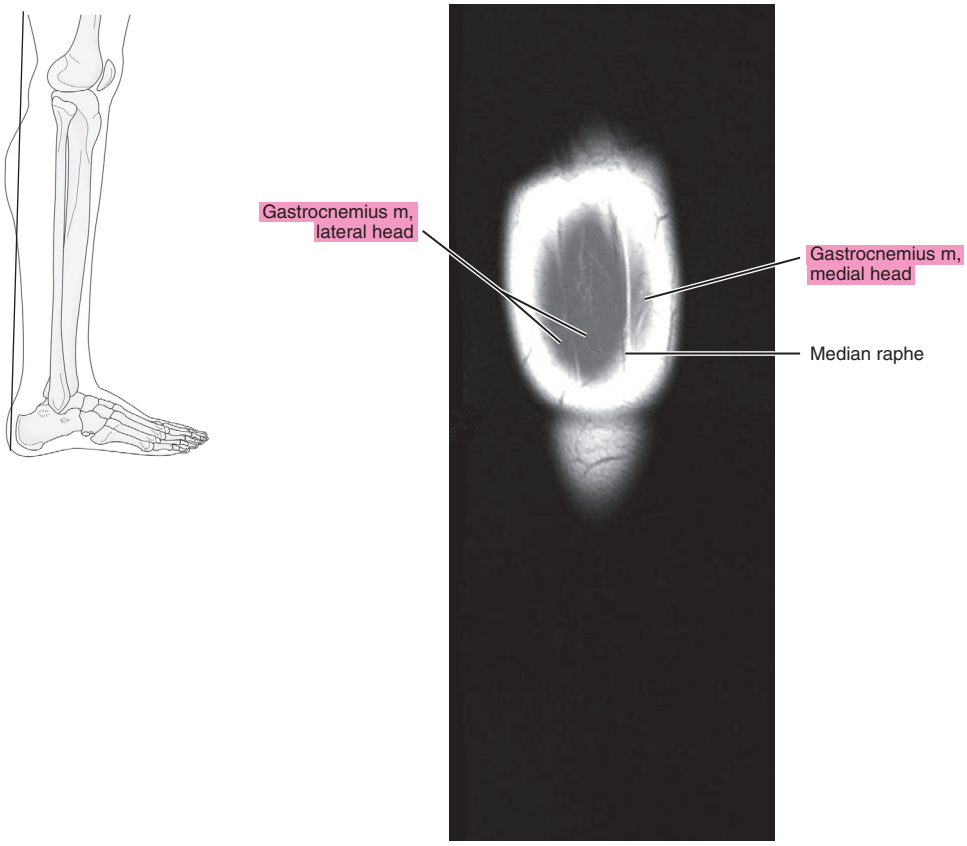

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Chapter

14

MRI of the Ankle

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AXIAL

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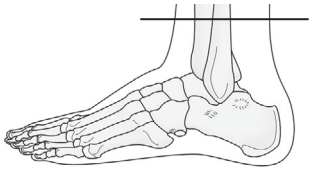

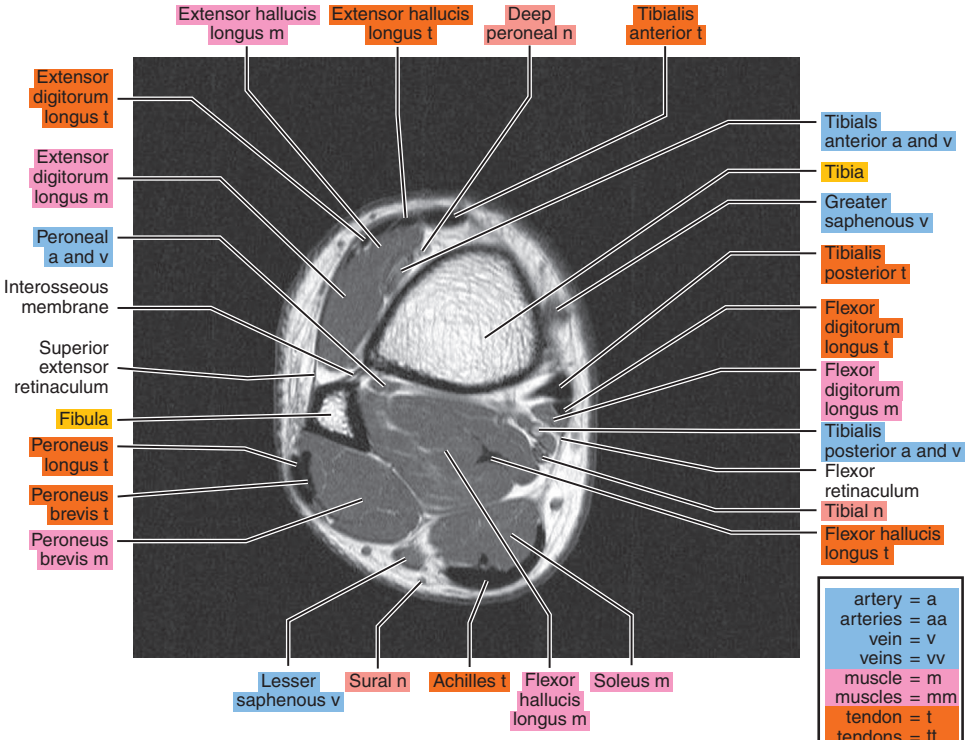

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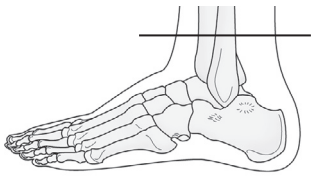

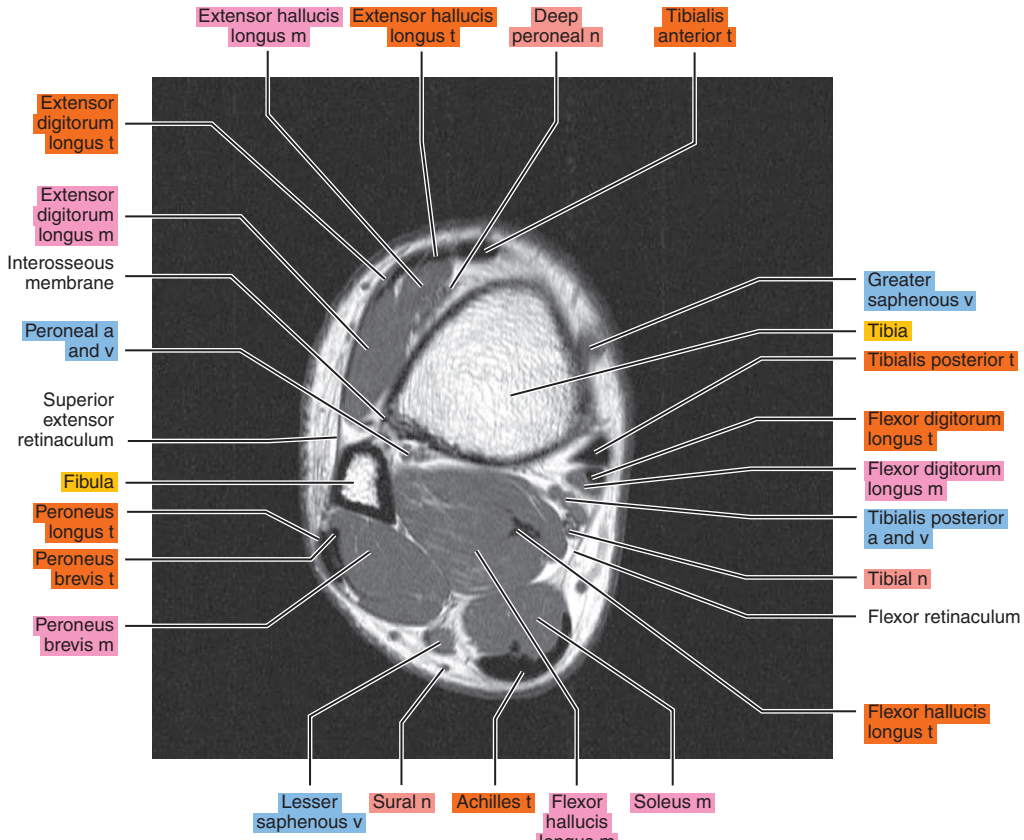

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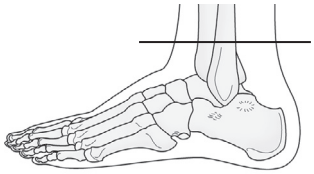

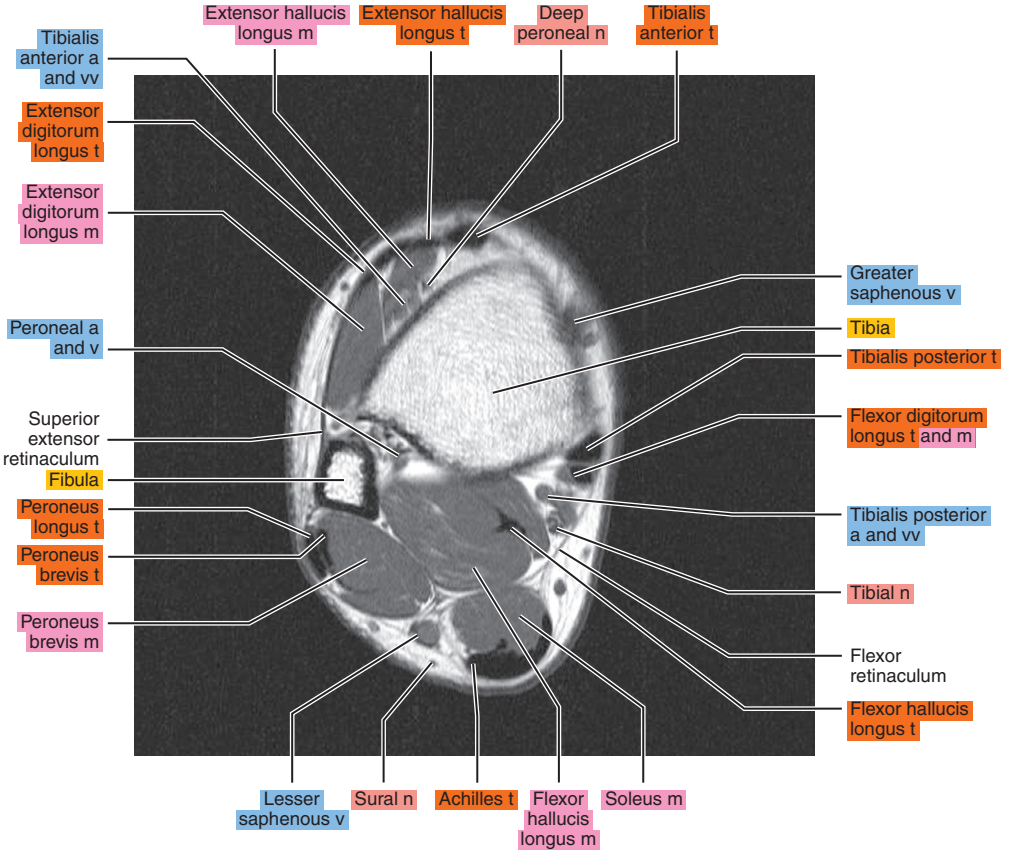

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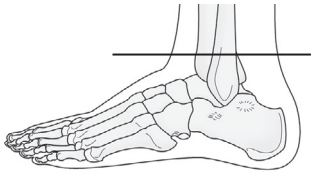

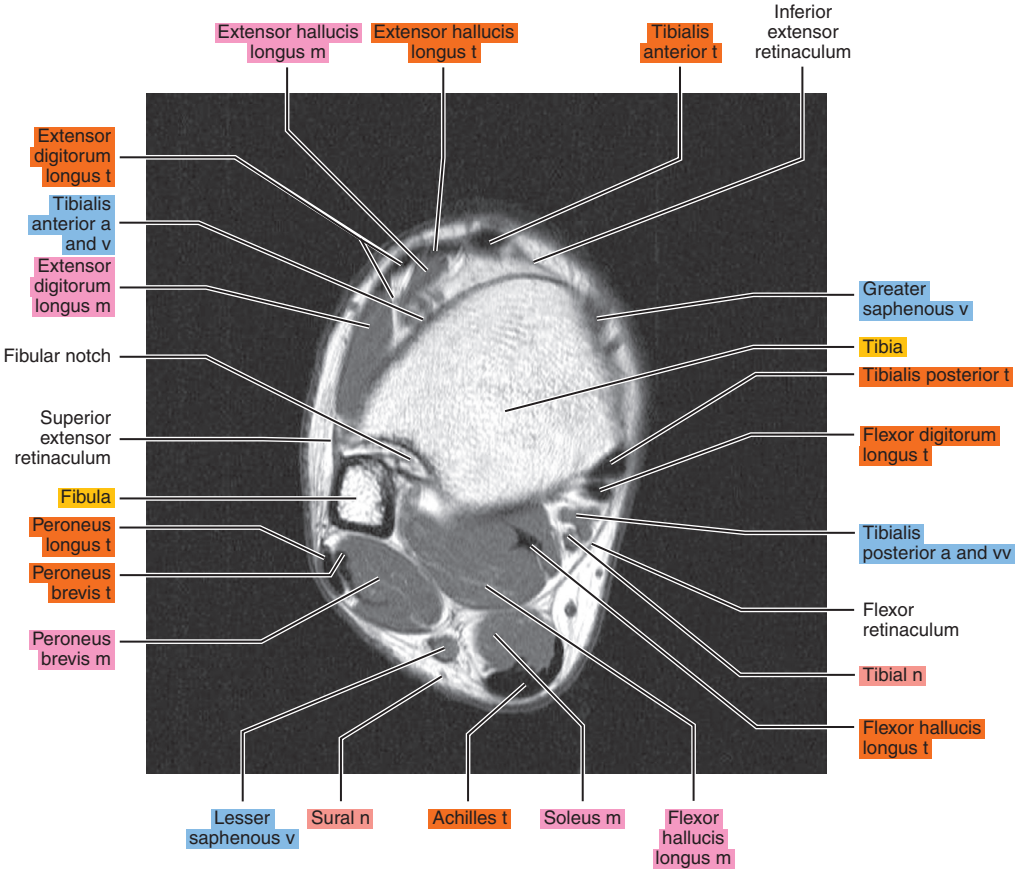

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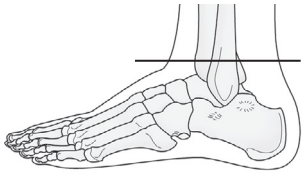

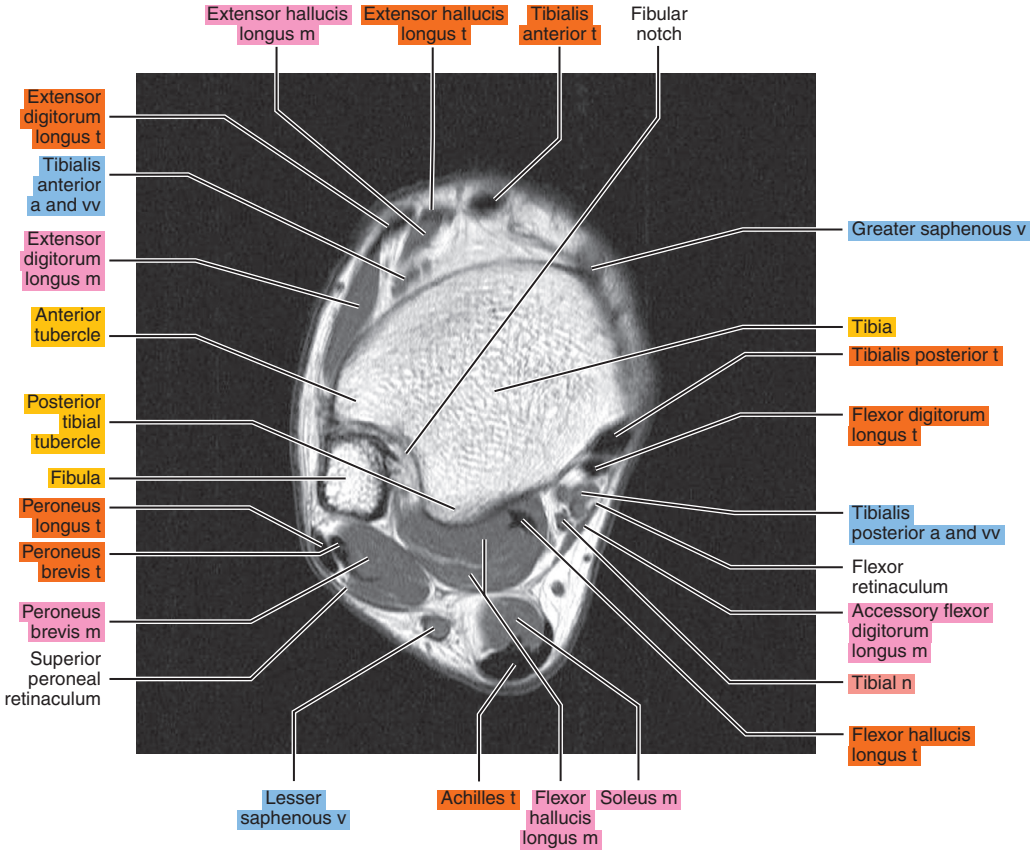

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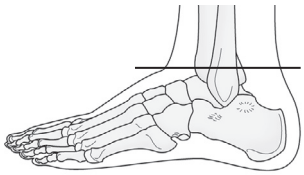

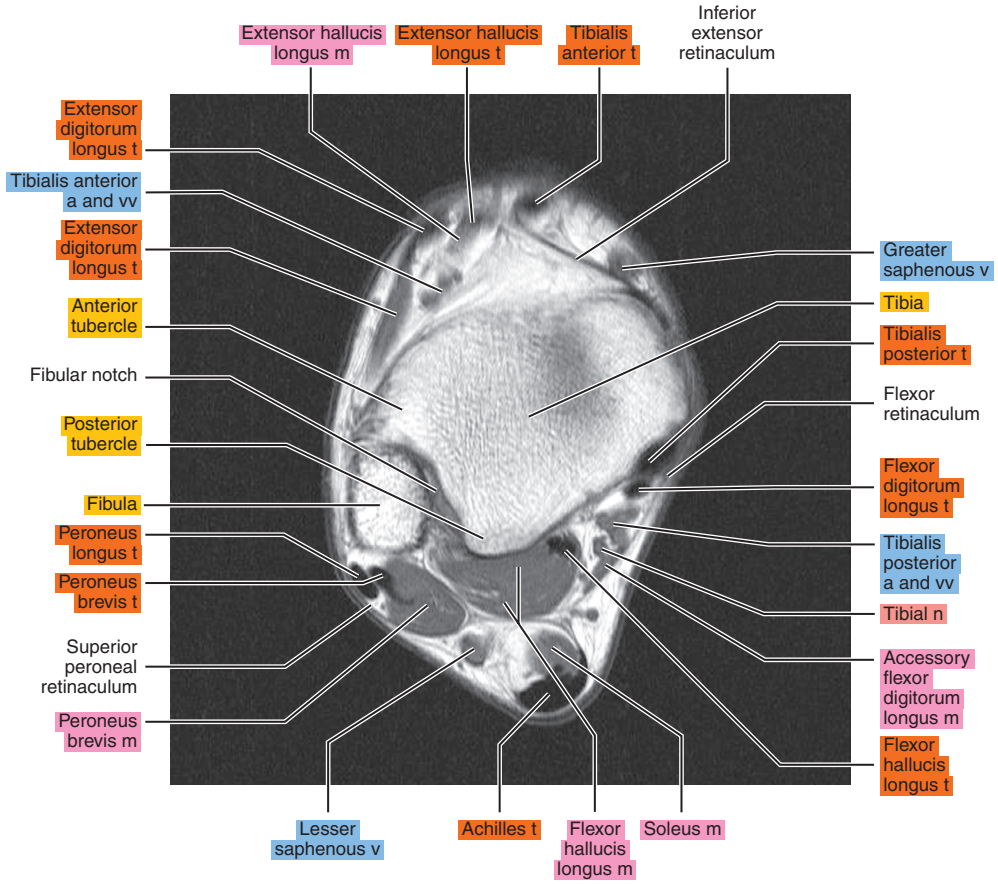

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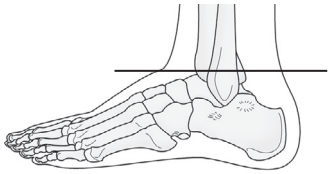

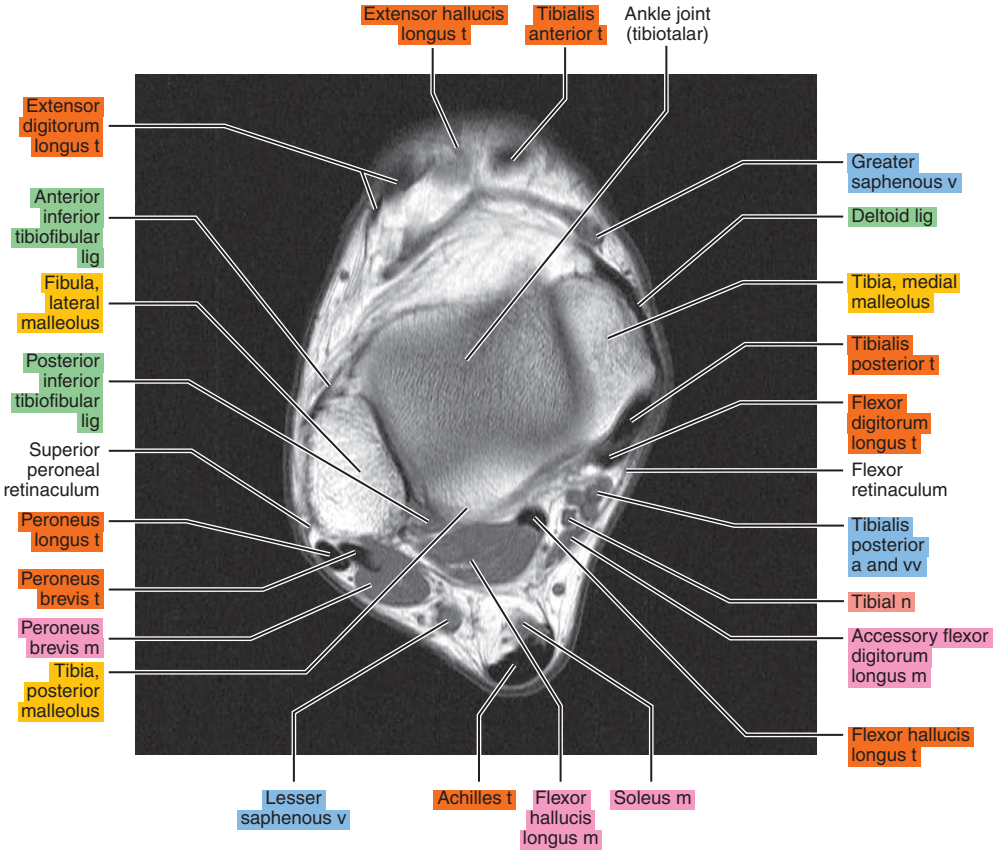

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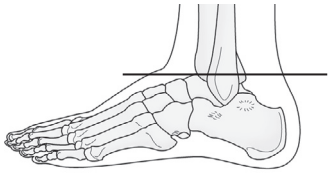

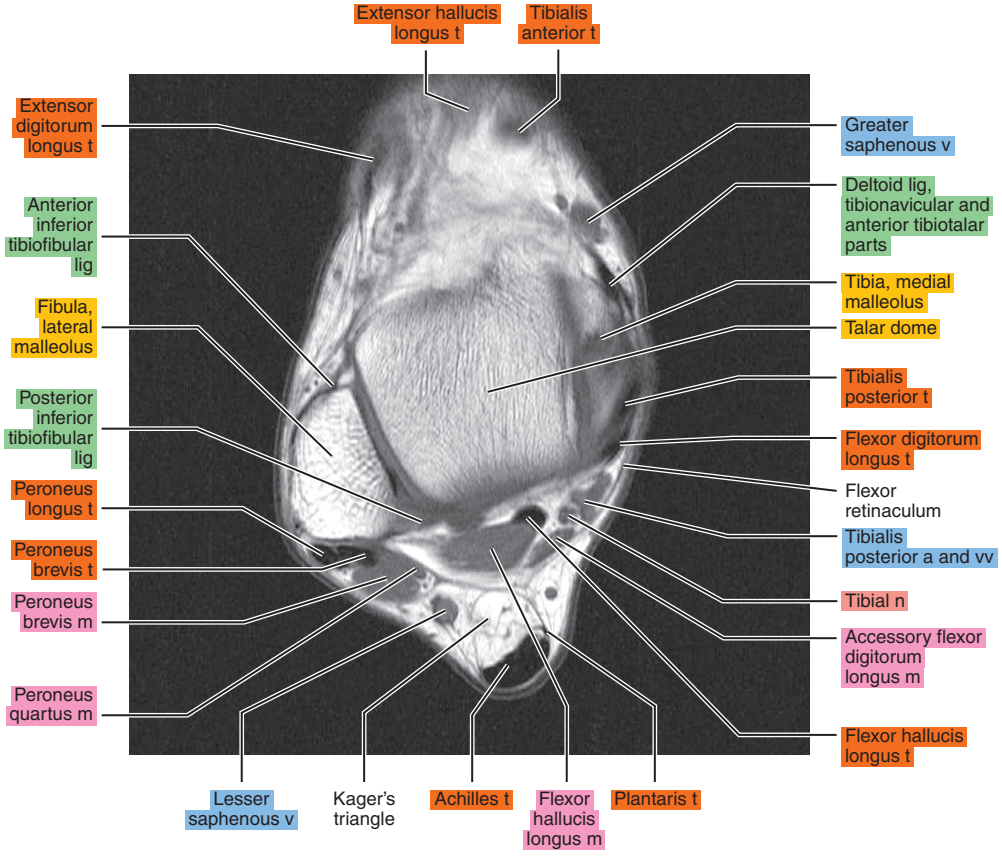

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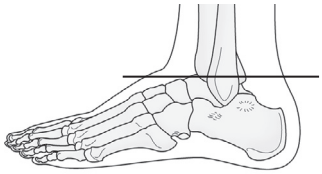
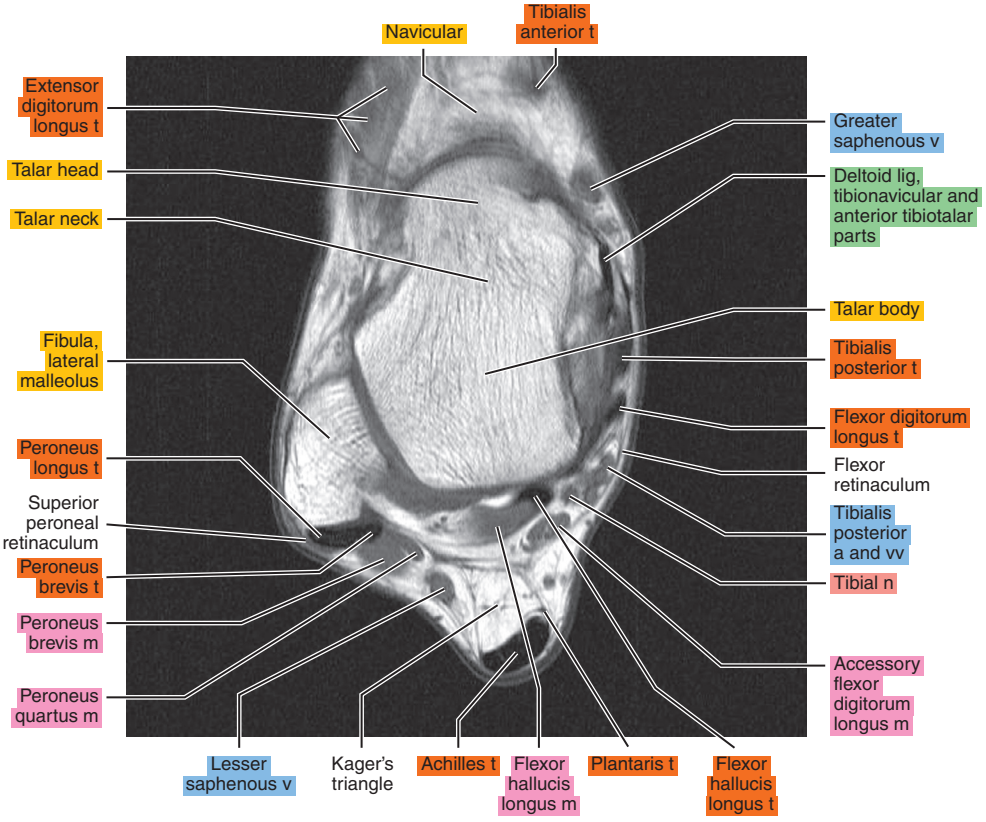
Figure 14.1.9





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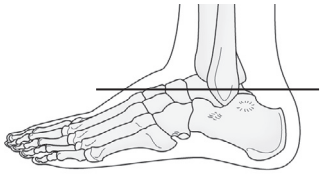

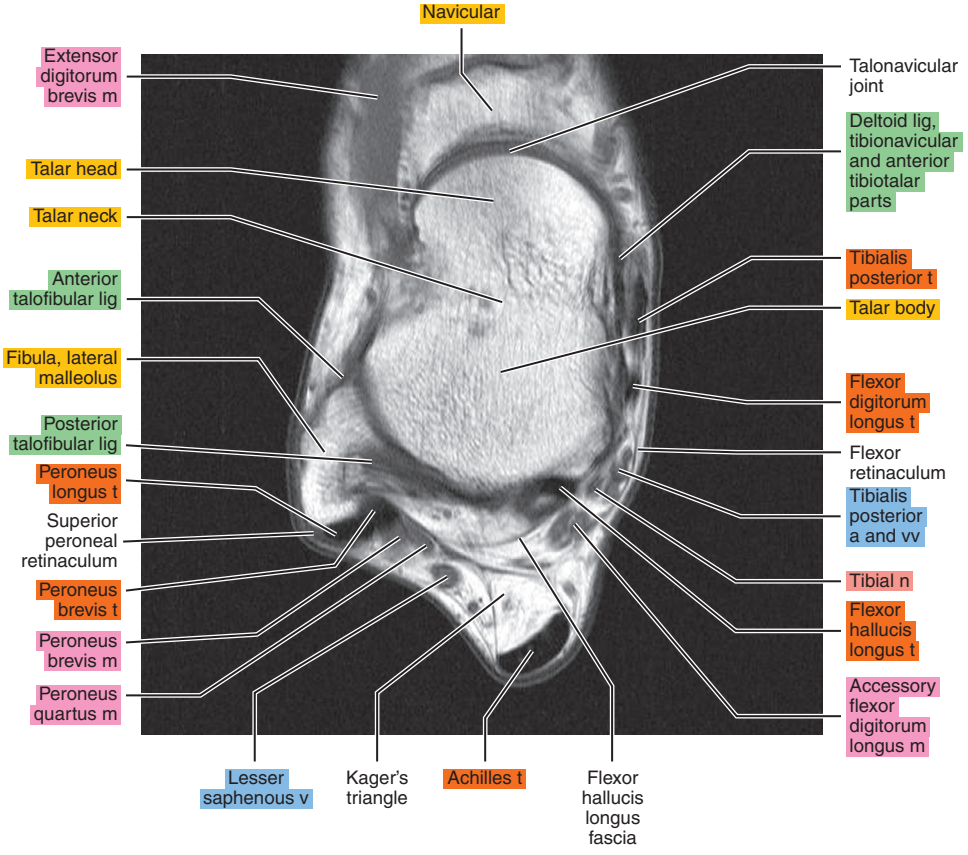

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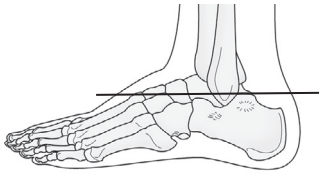

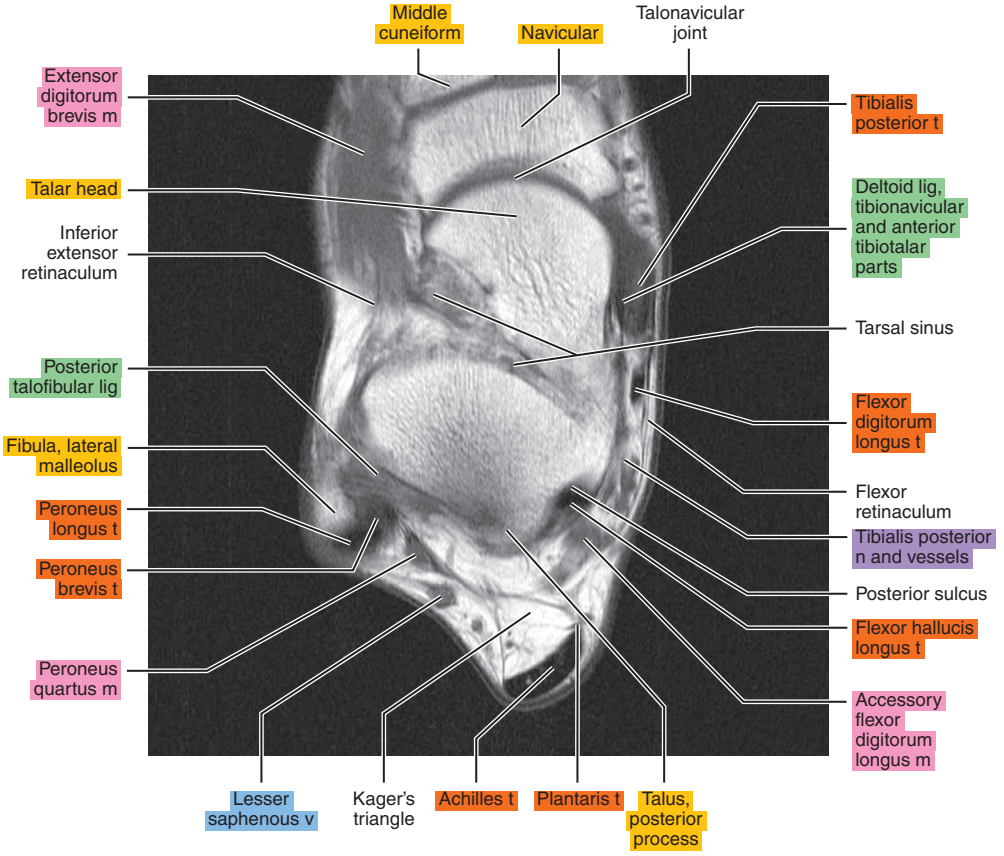

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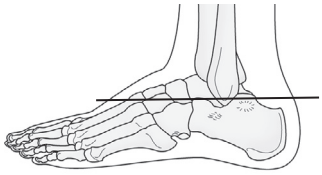

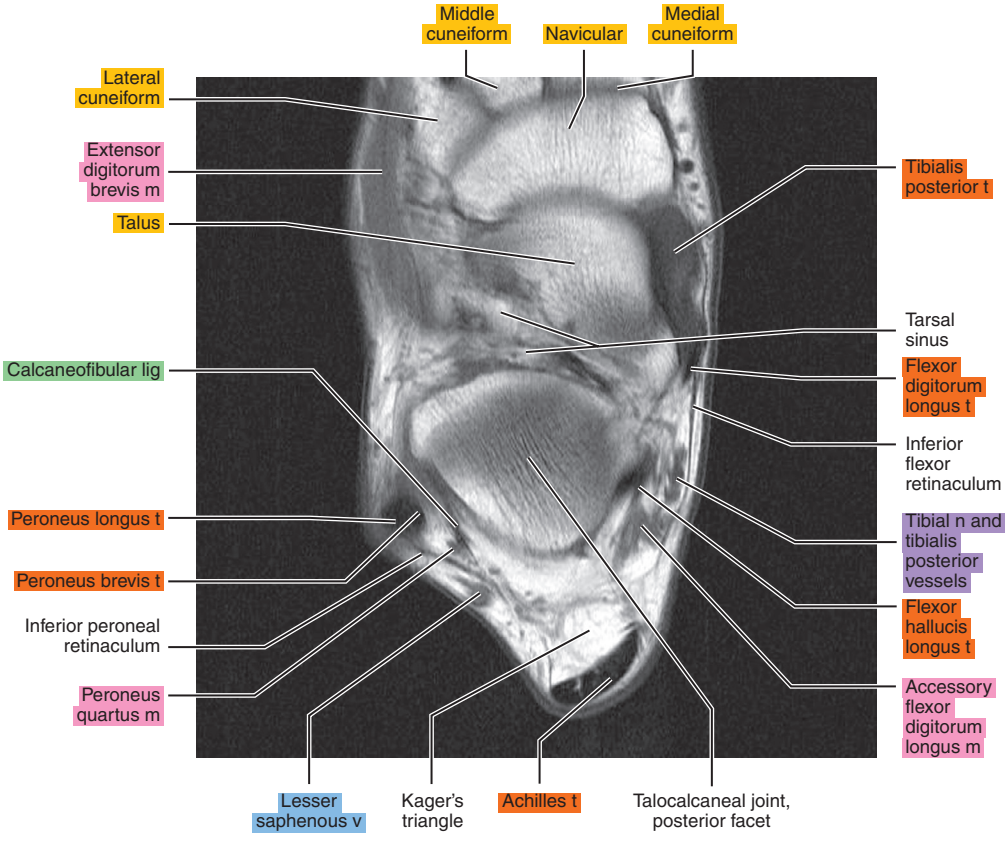

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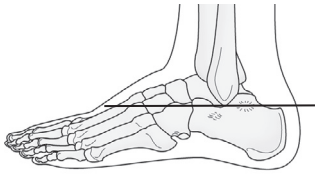

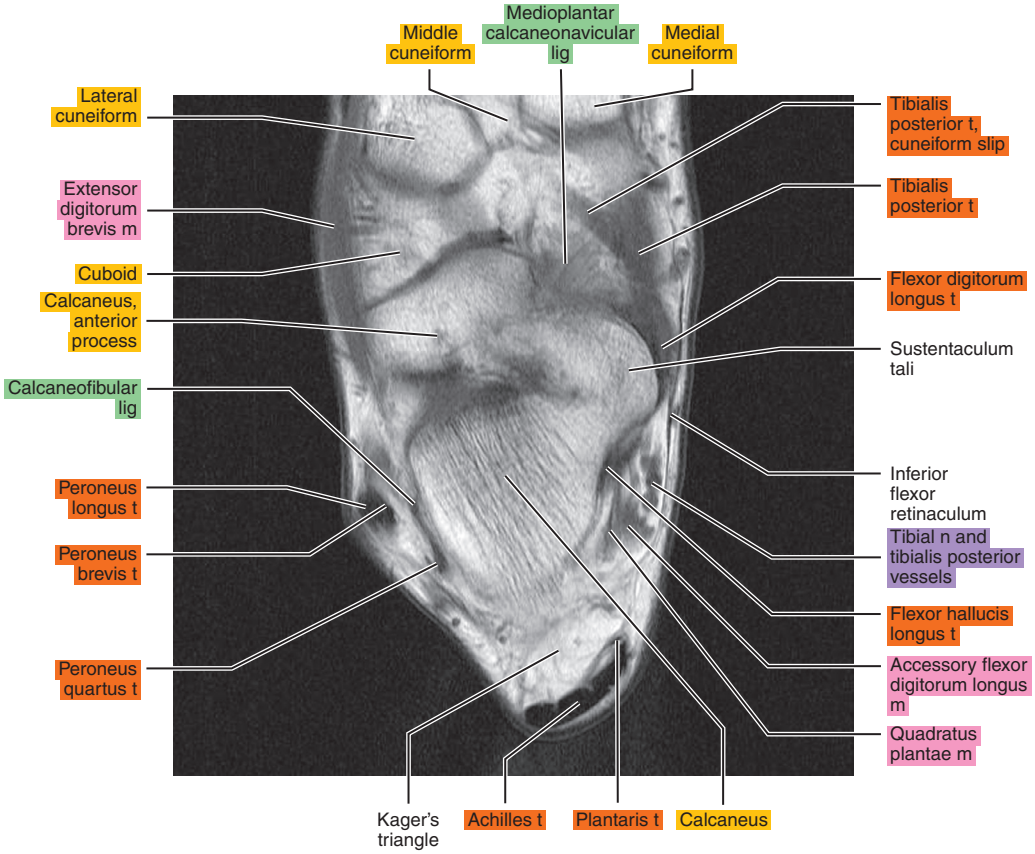

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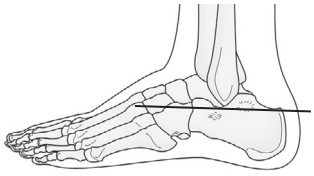

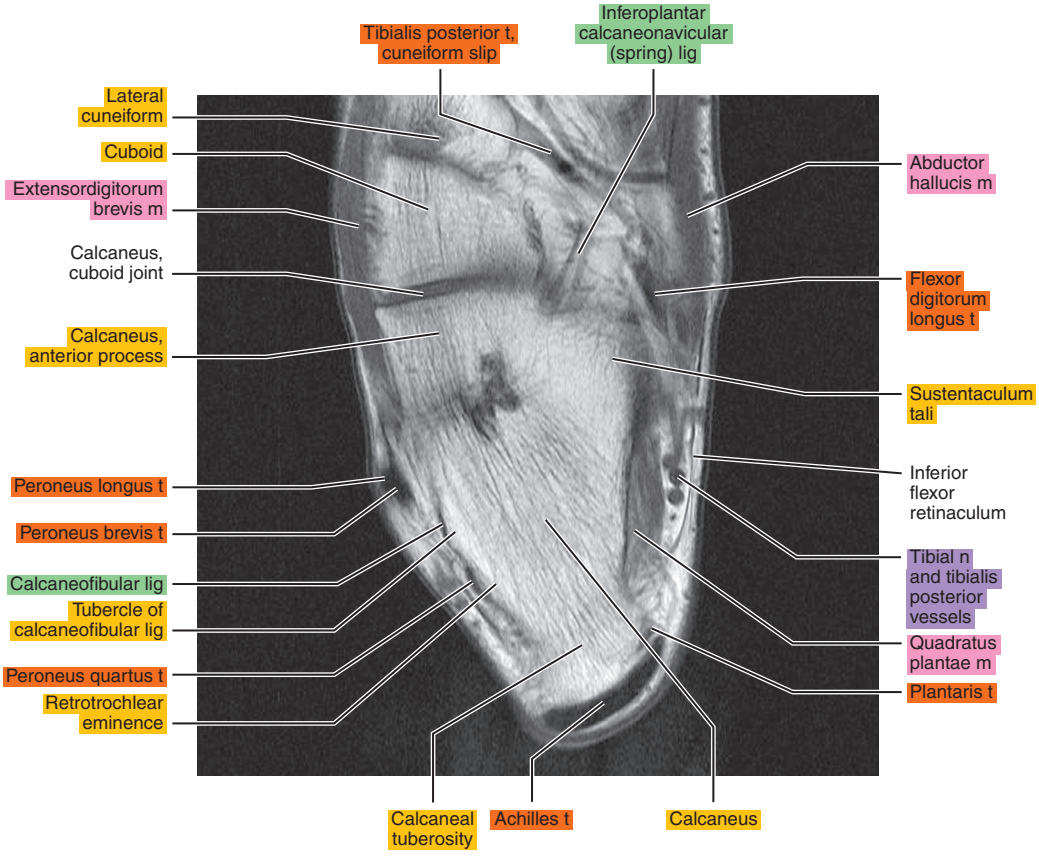

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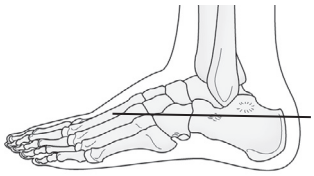

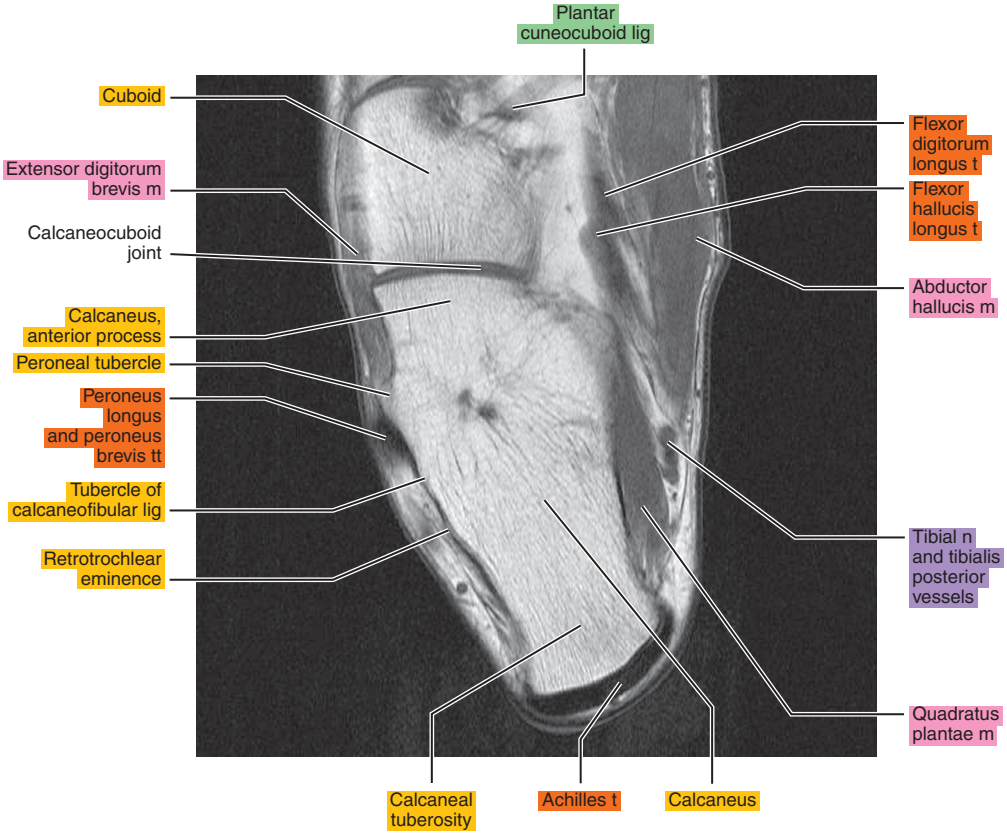

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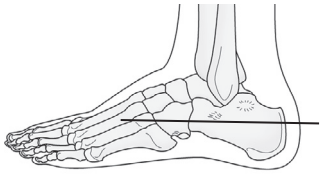

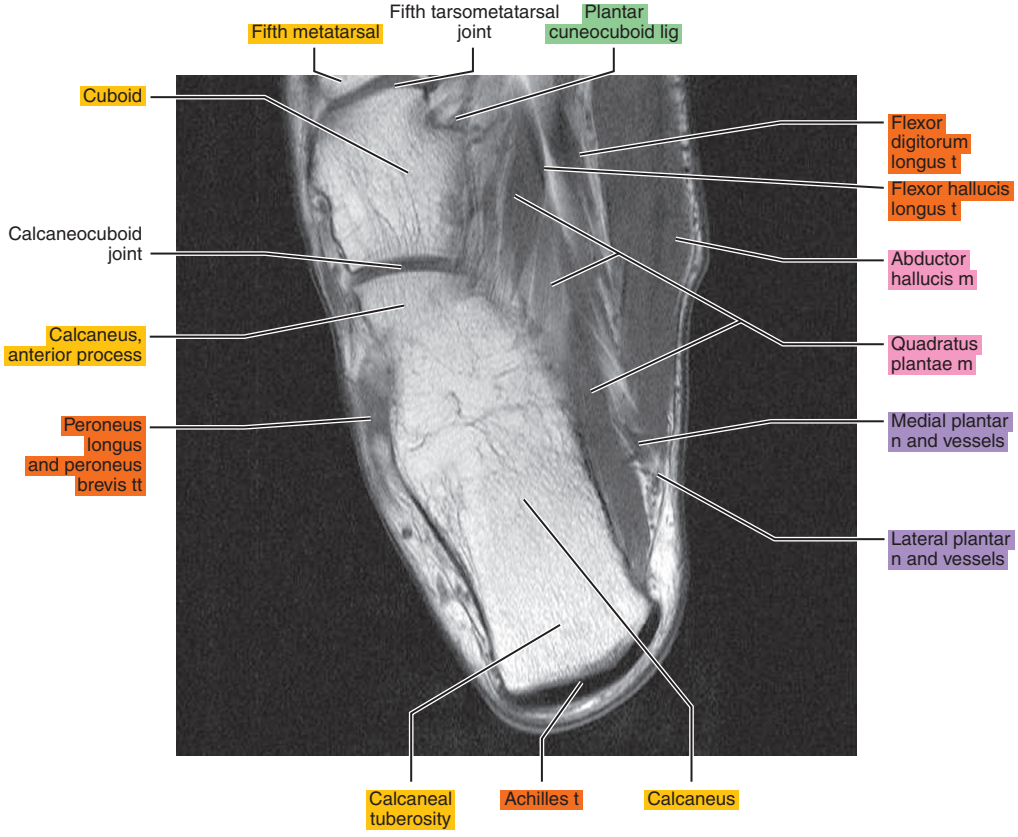

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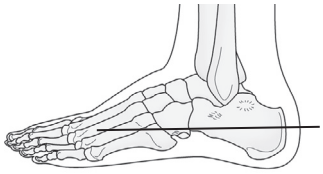

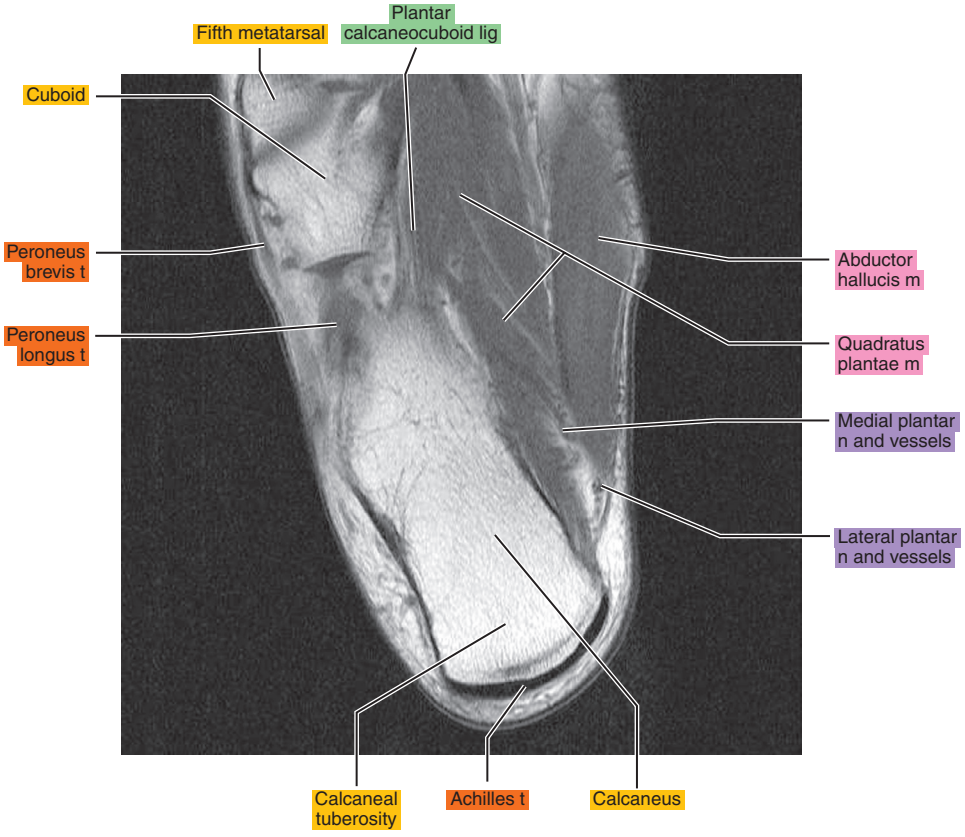

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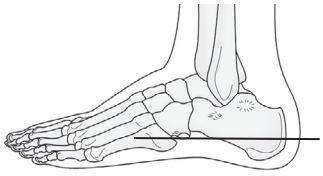

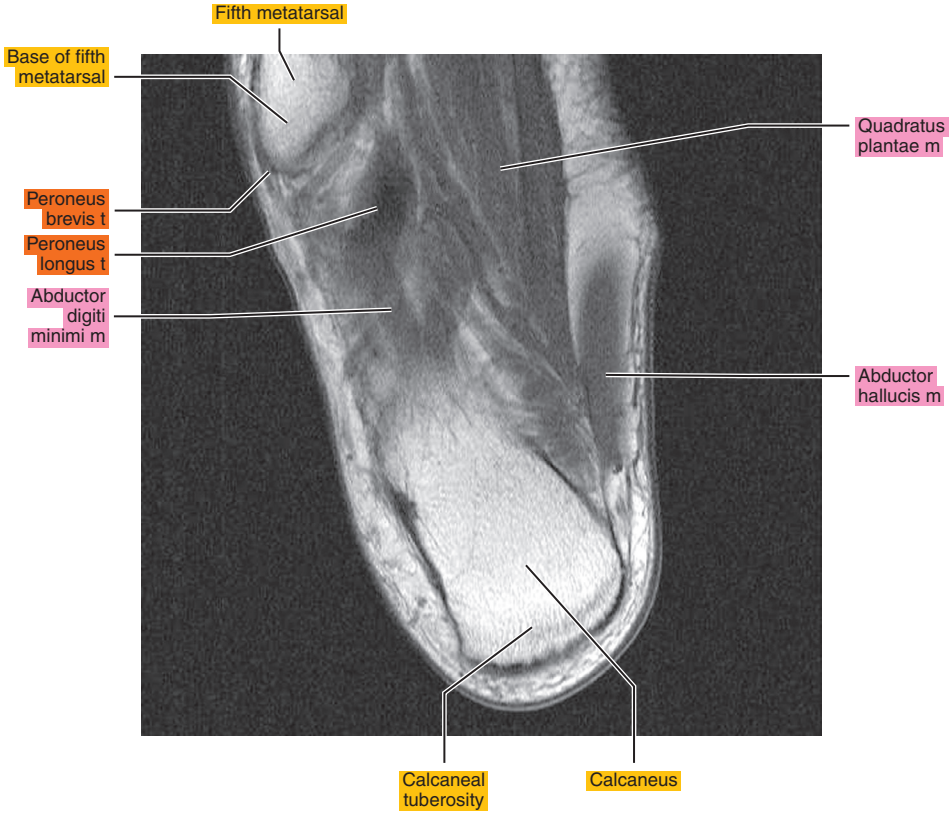

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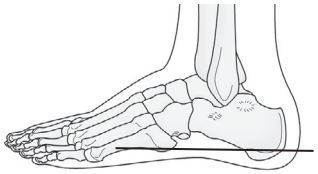

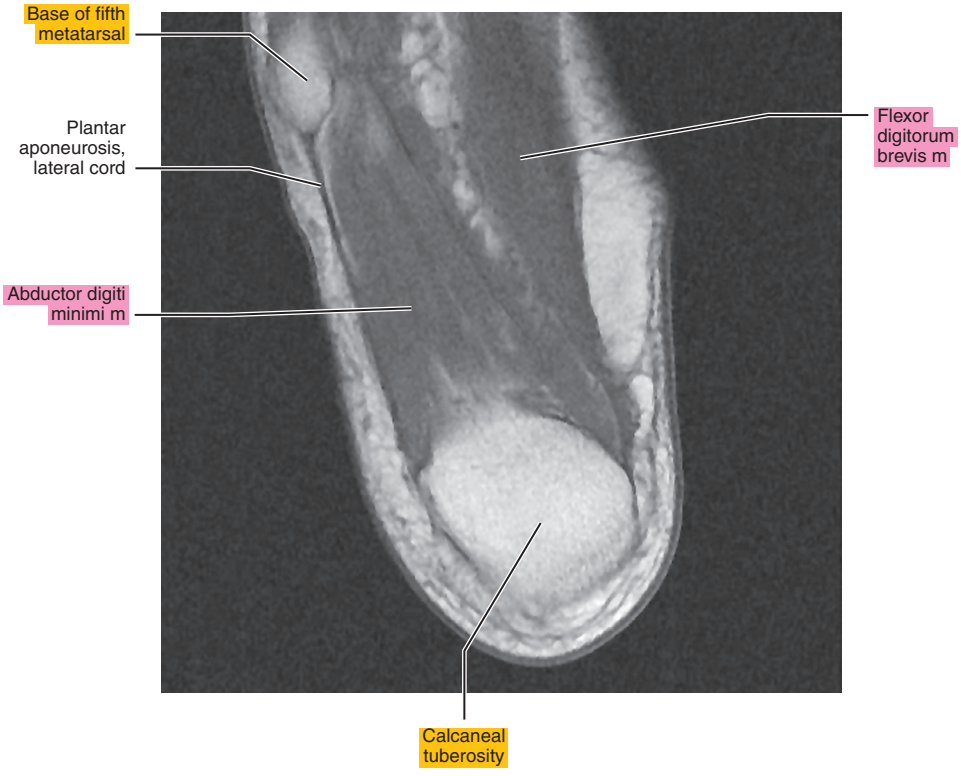

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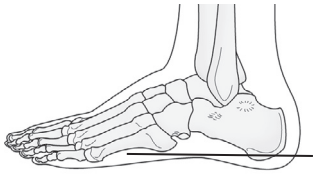

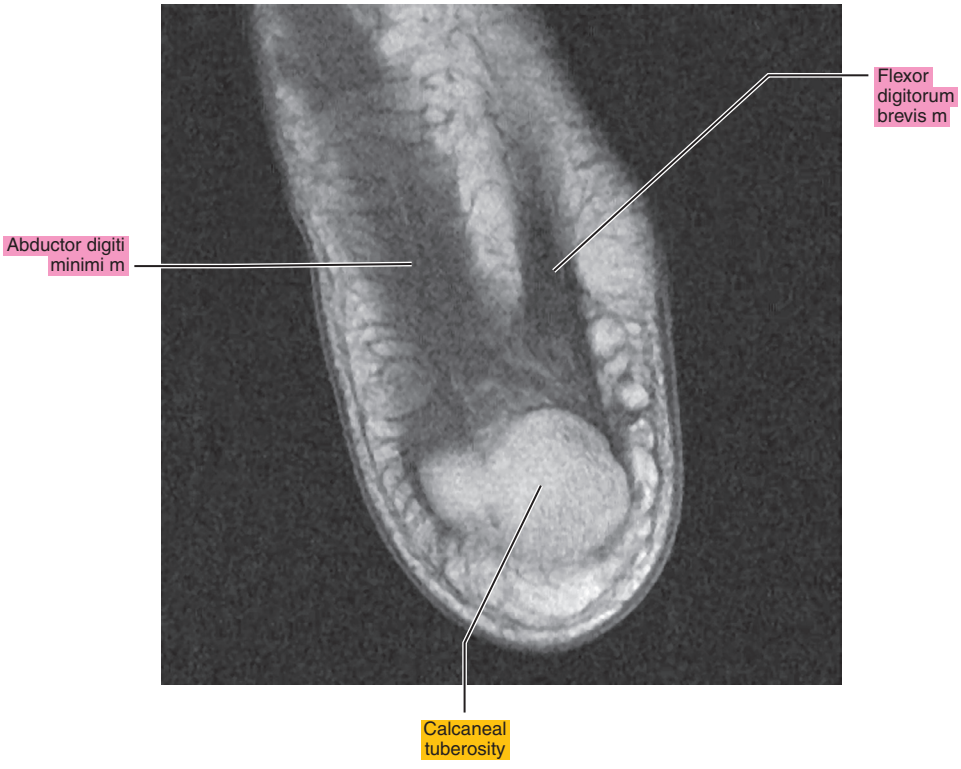

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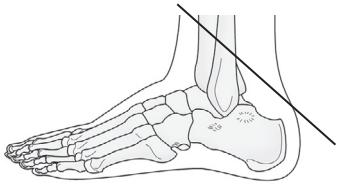

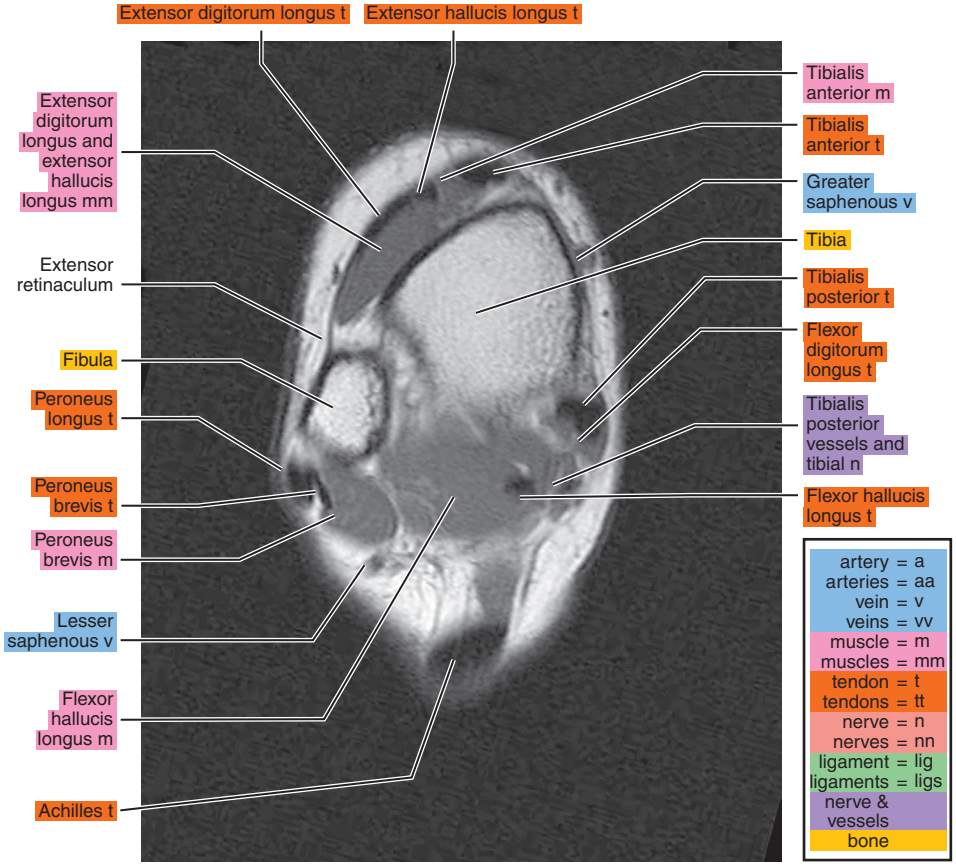

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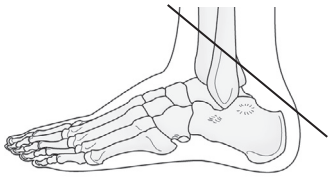

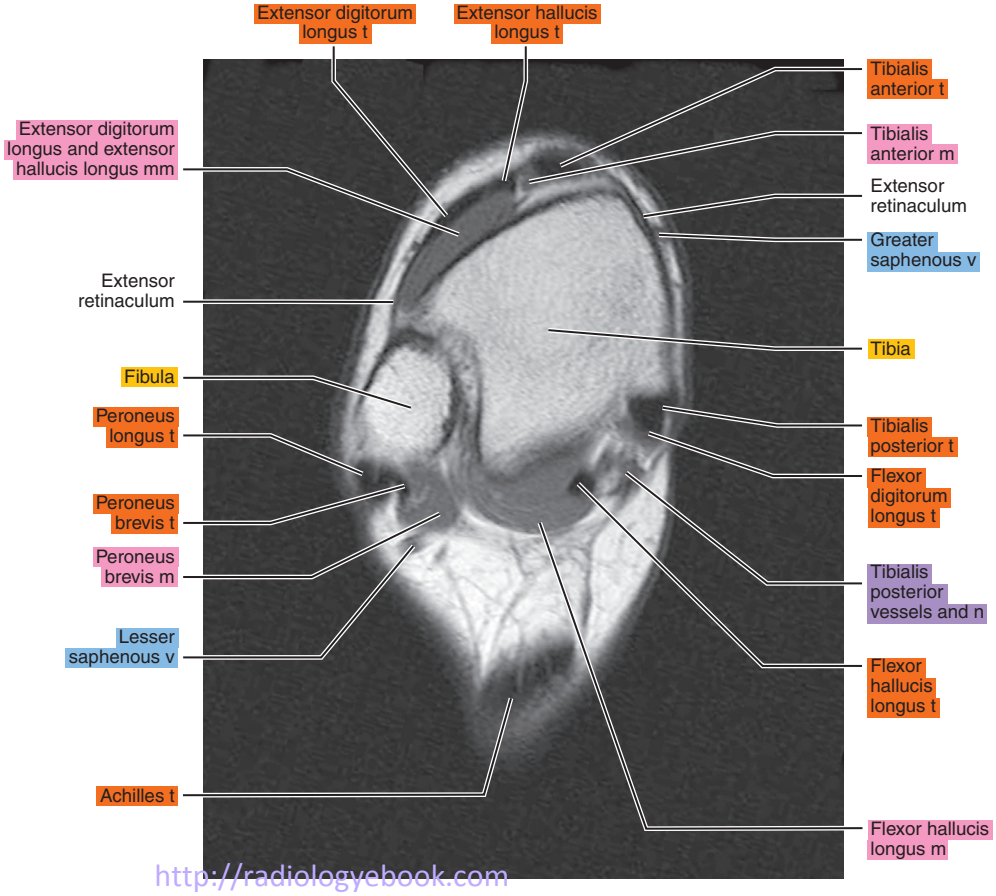

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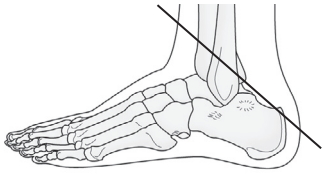

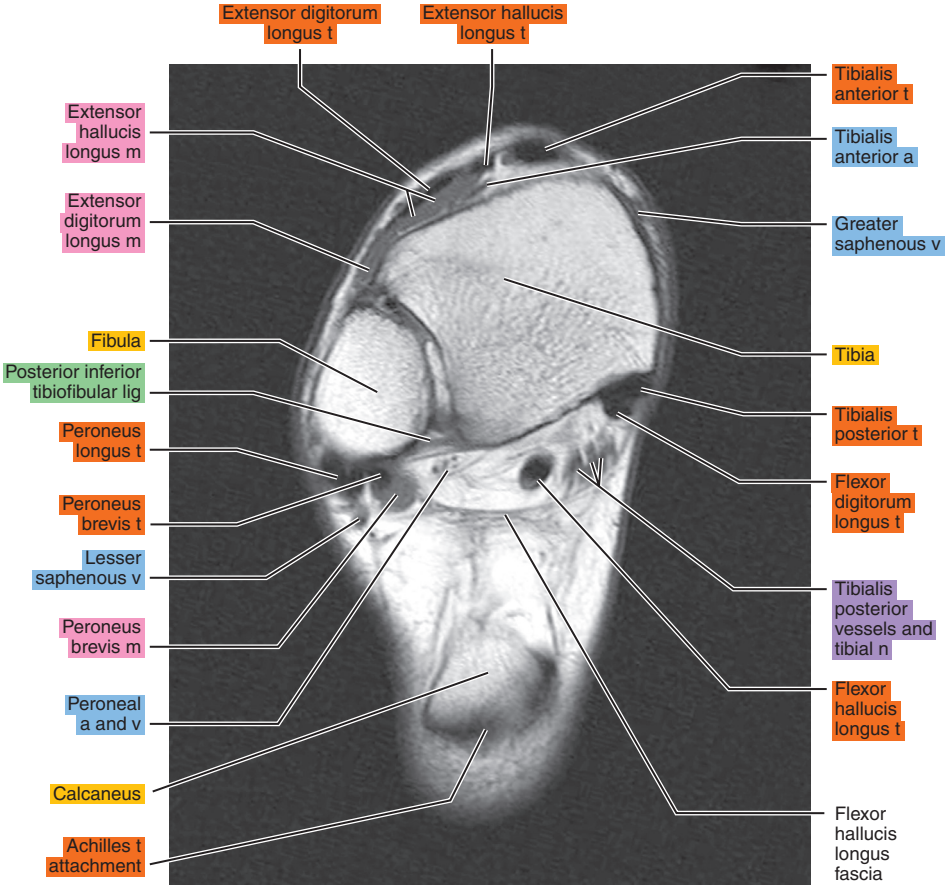

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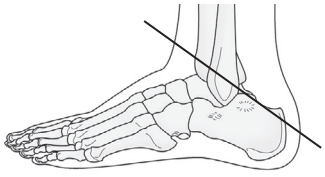

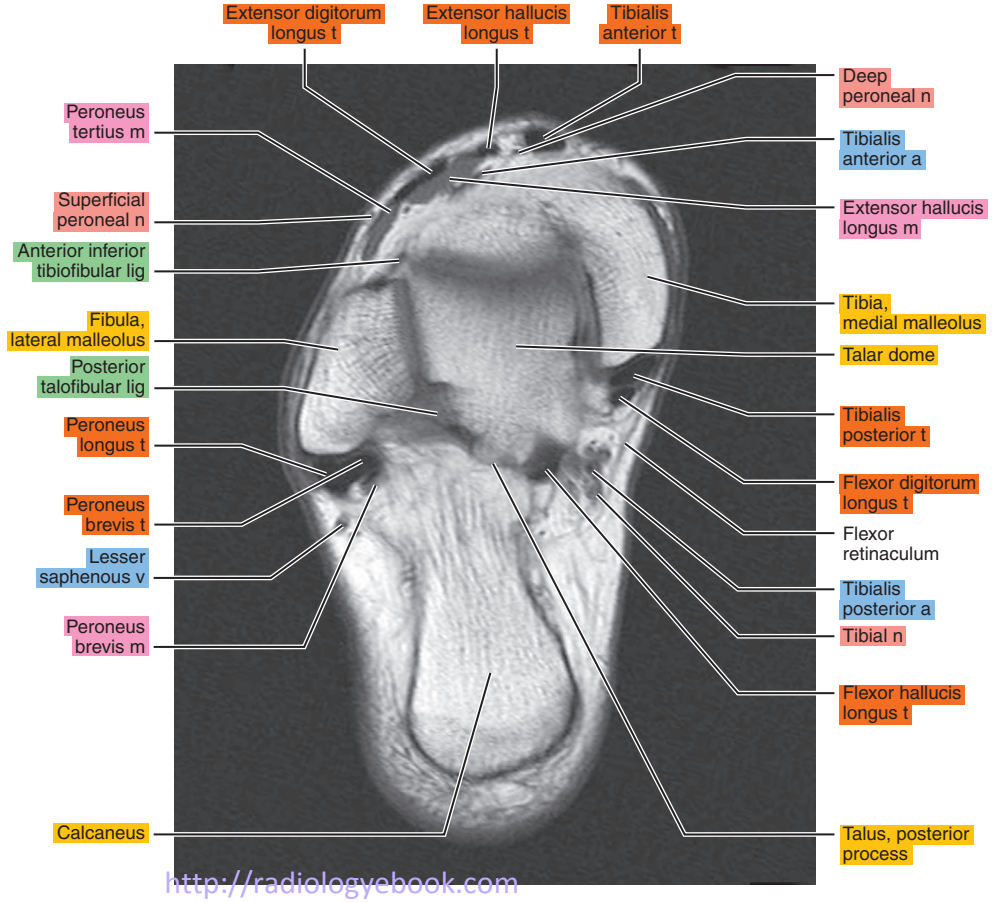

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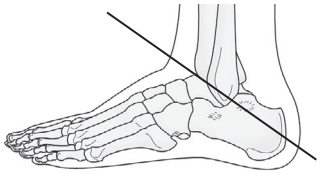

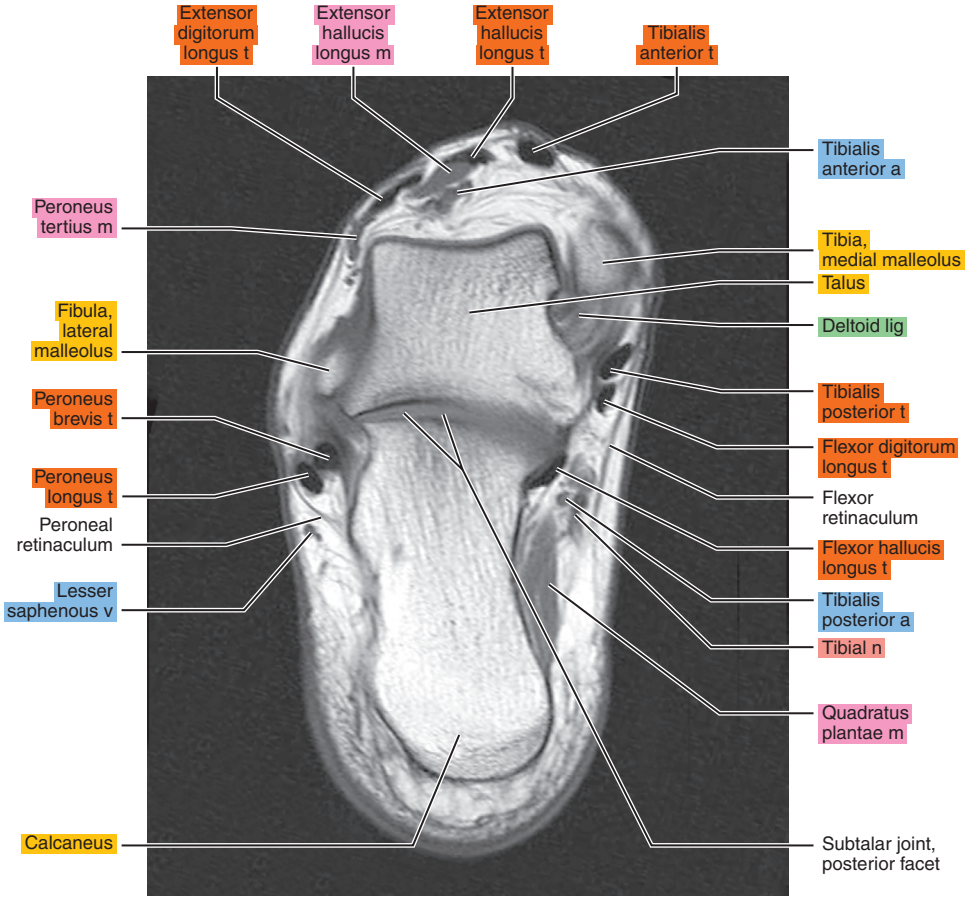

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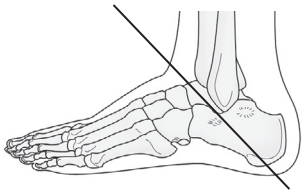

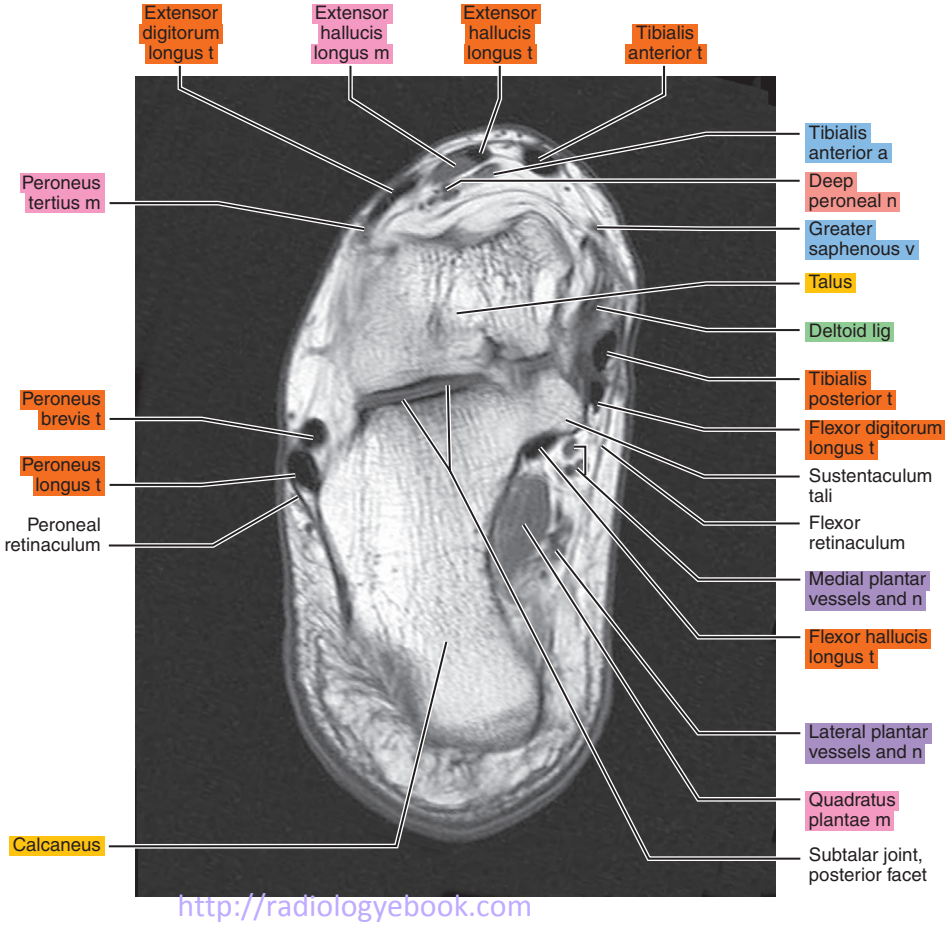

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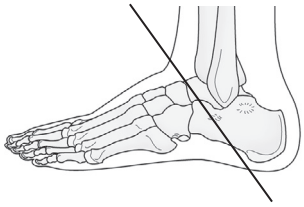

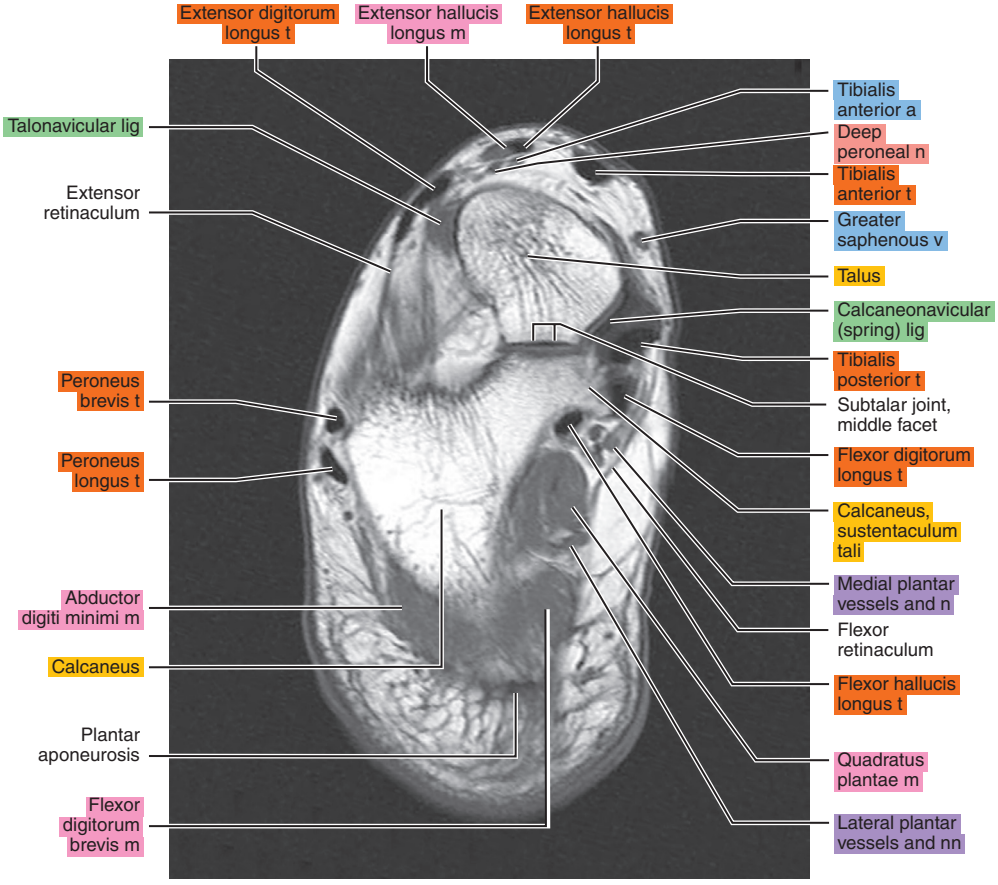

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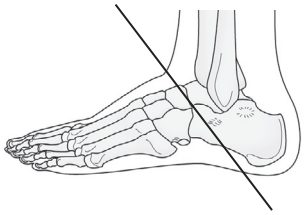

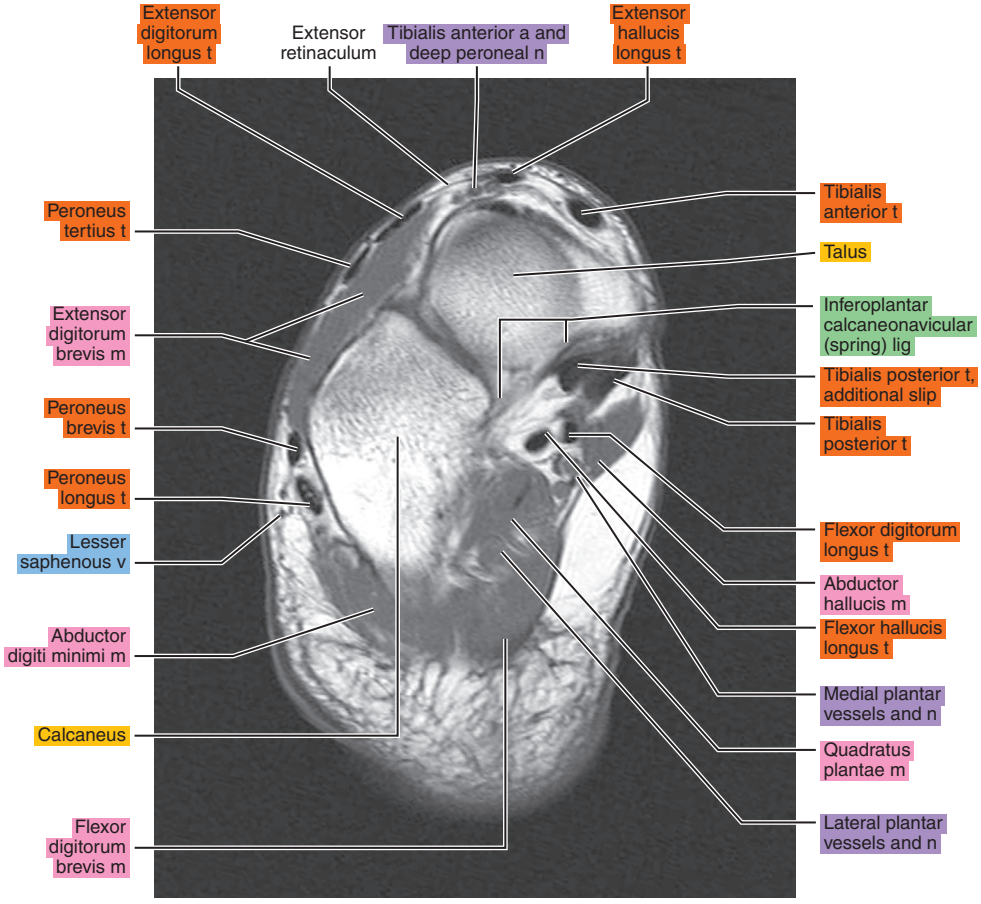

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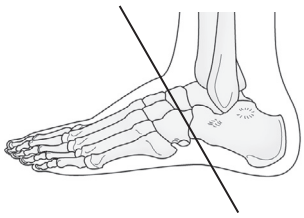

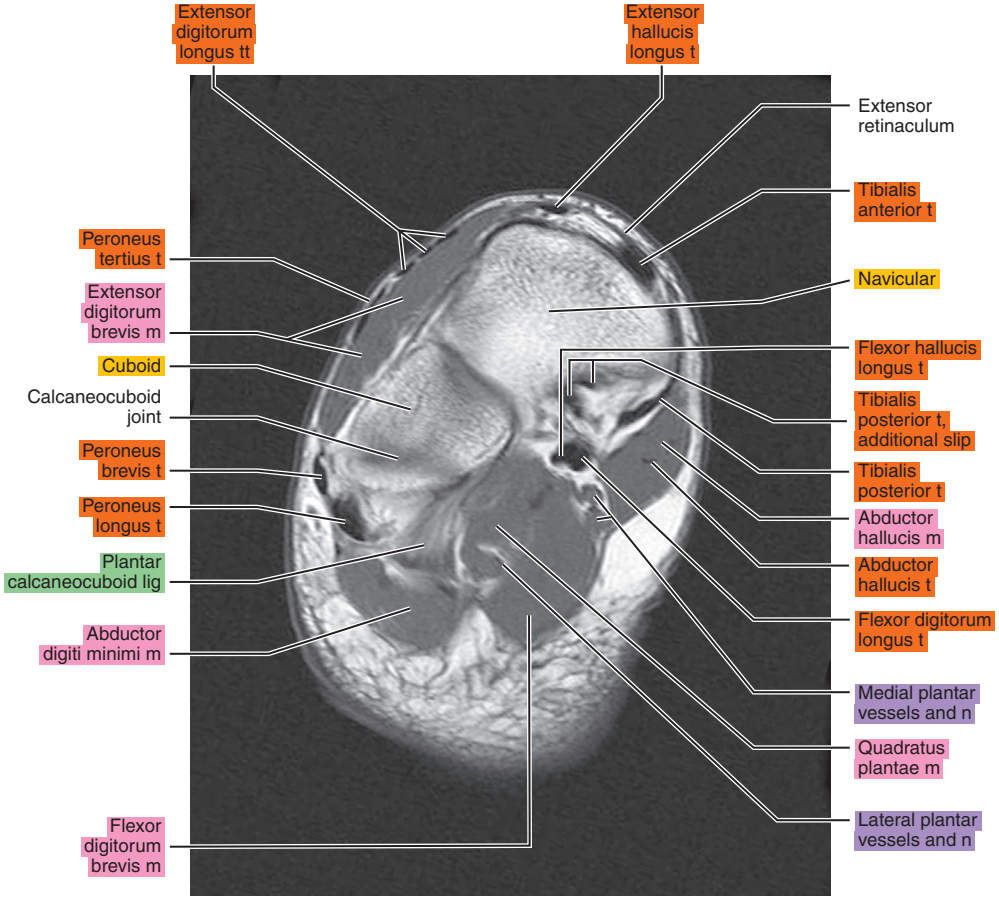

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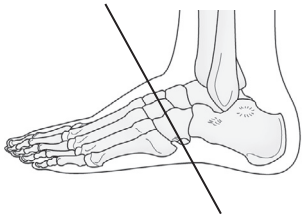

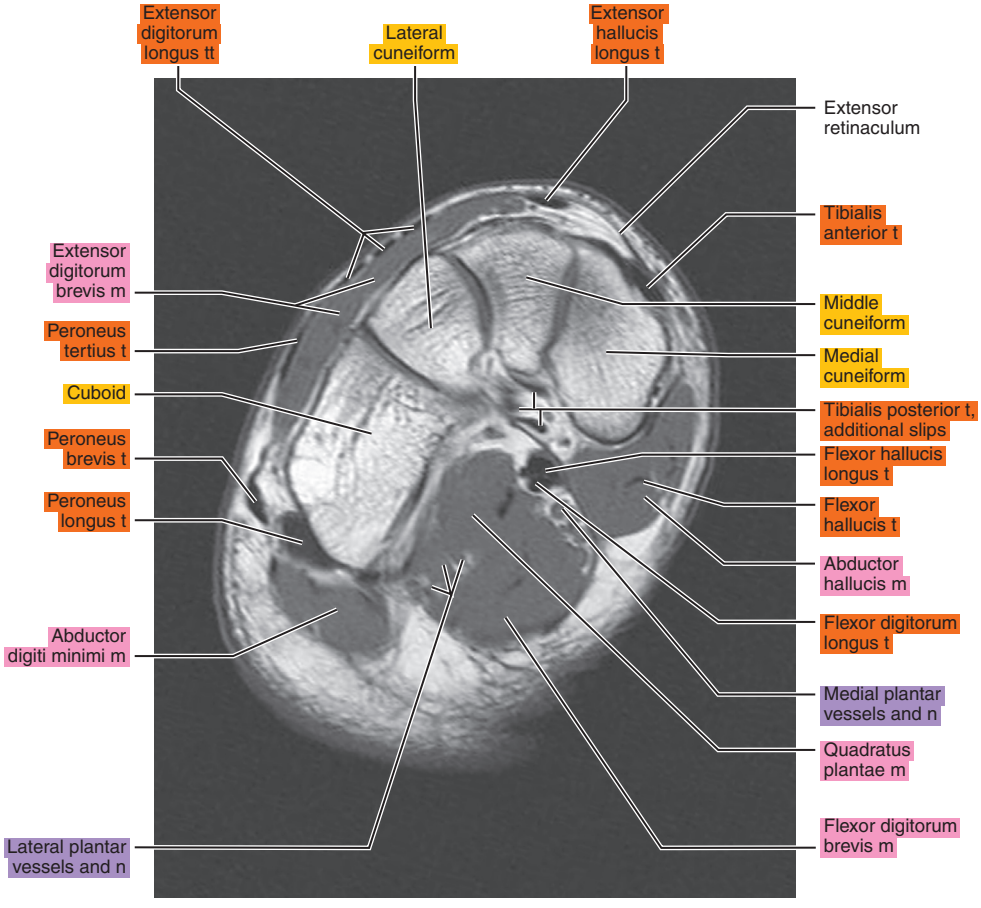

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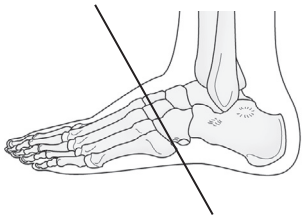

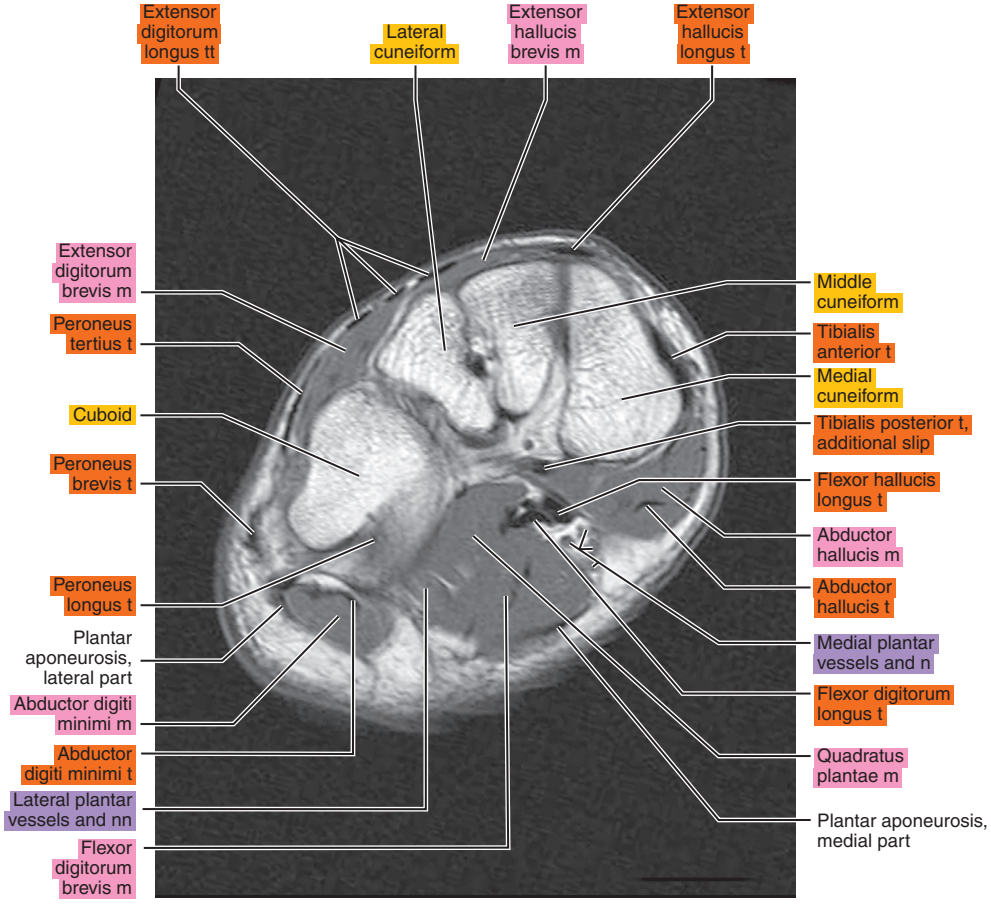

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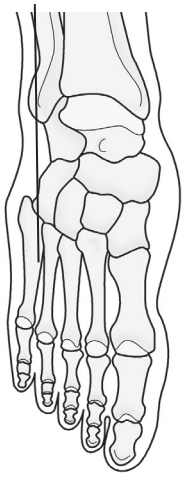

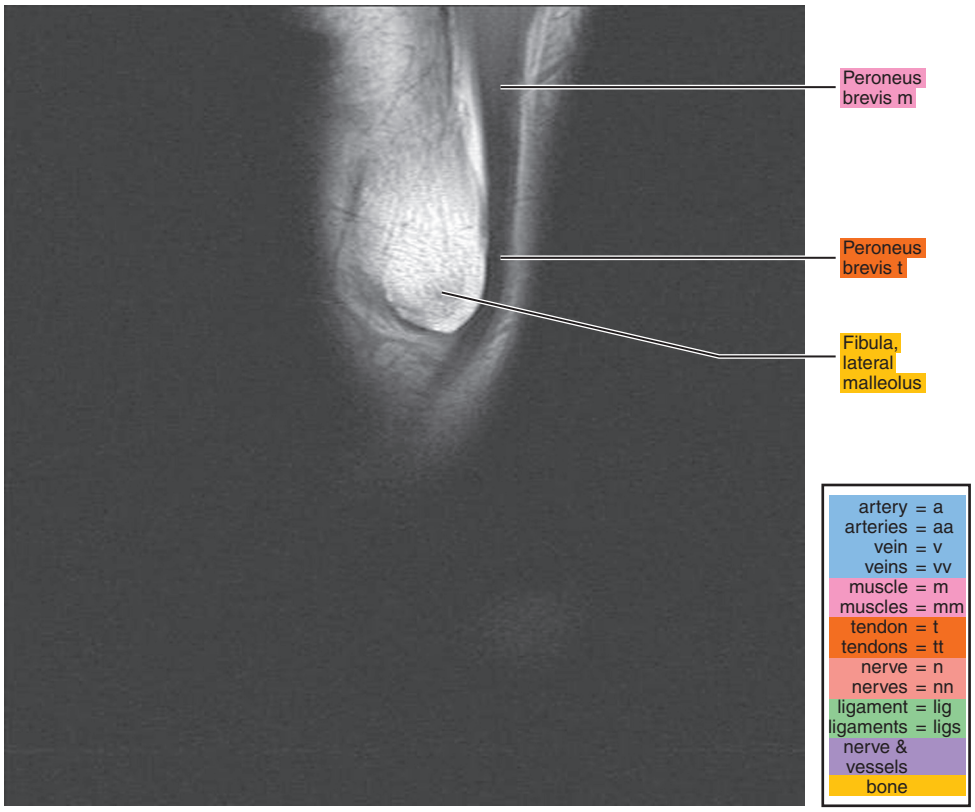

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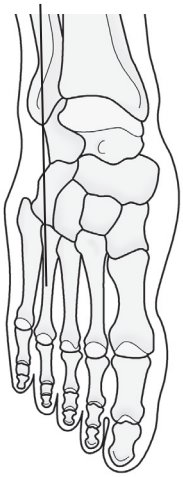

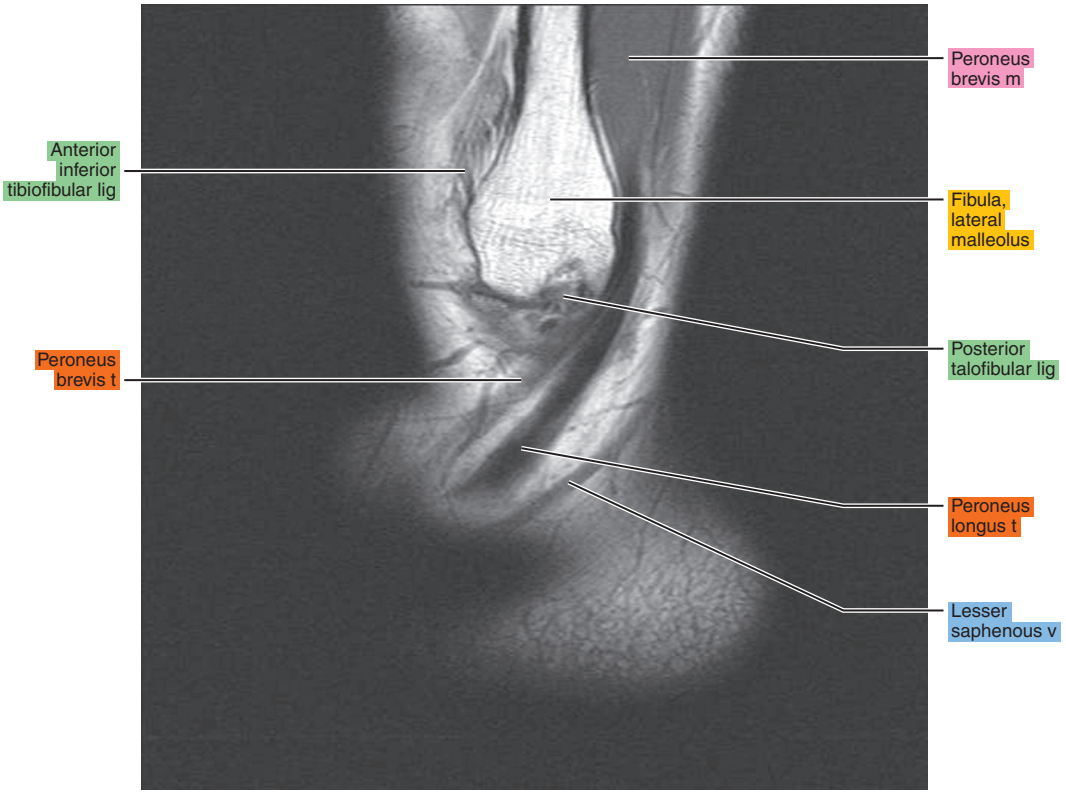

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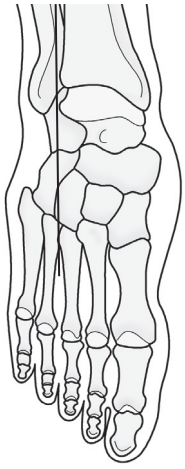

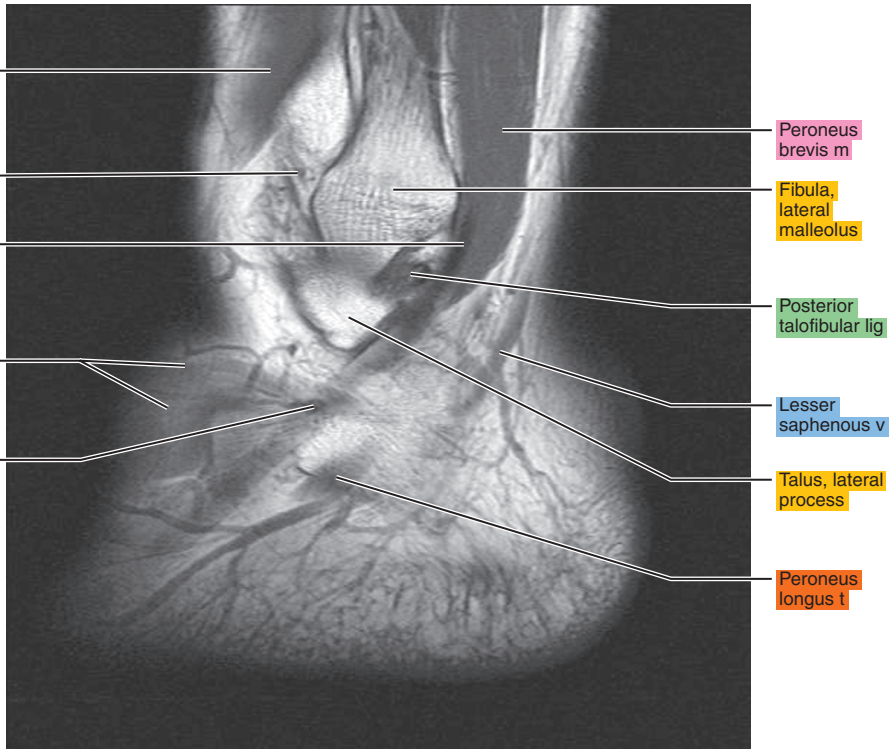

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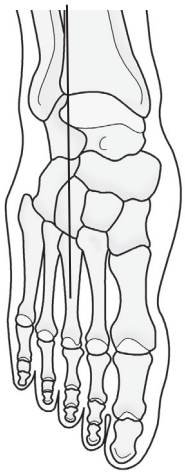

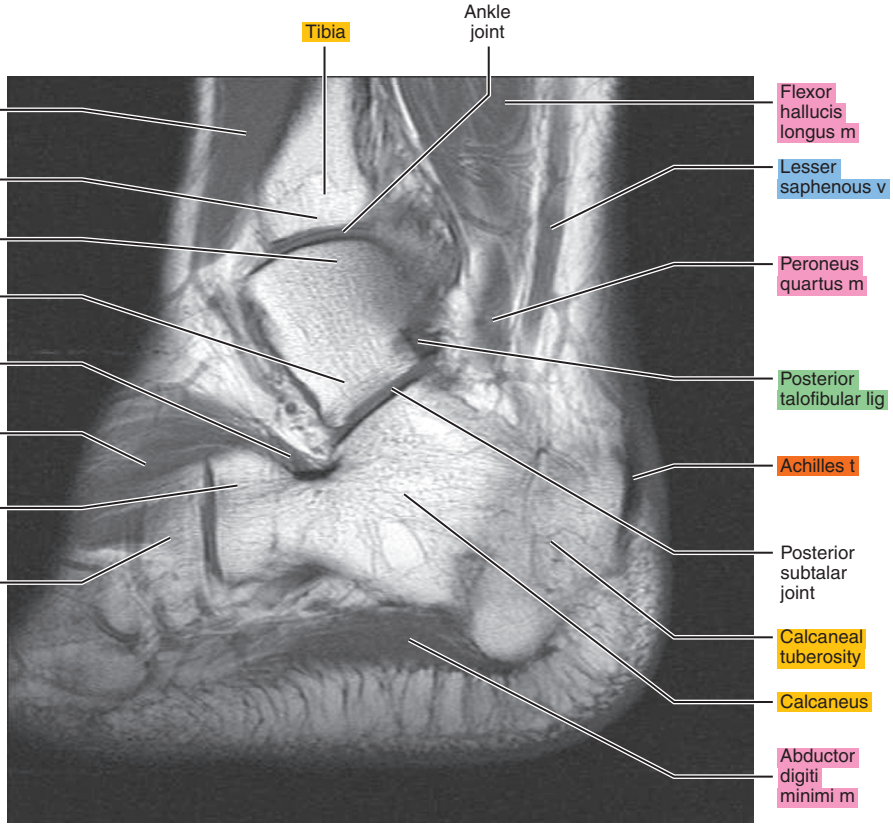

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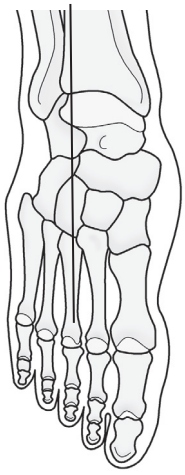

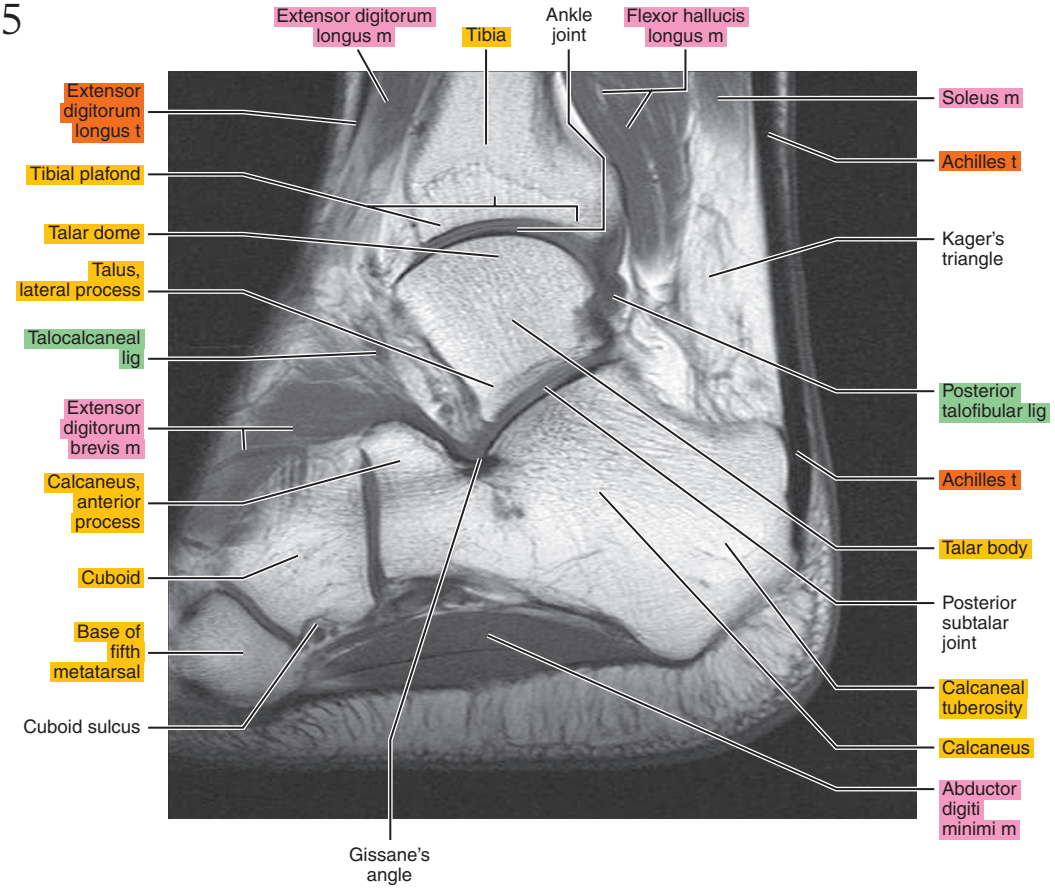

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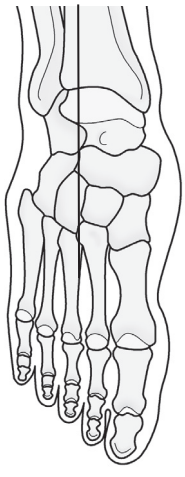

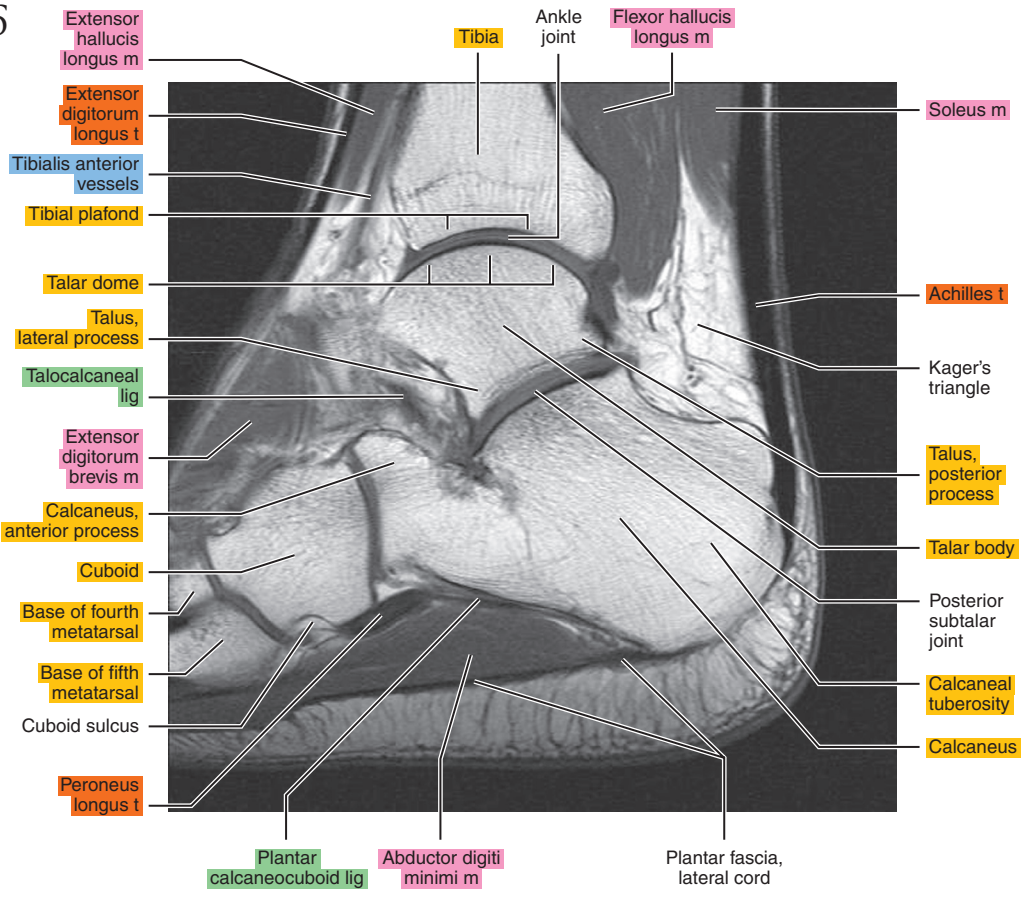

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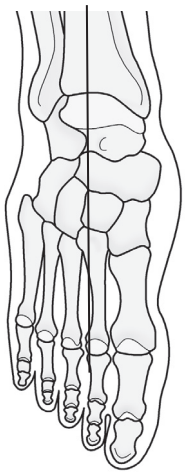

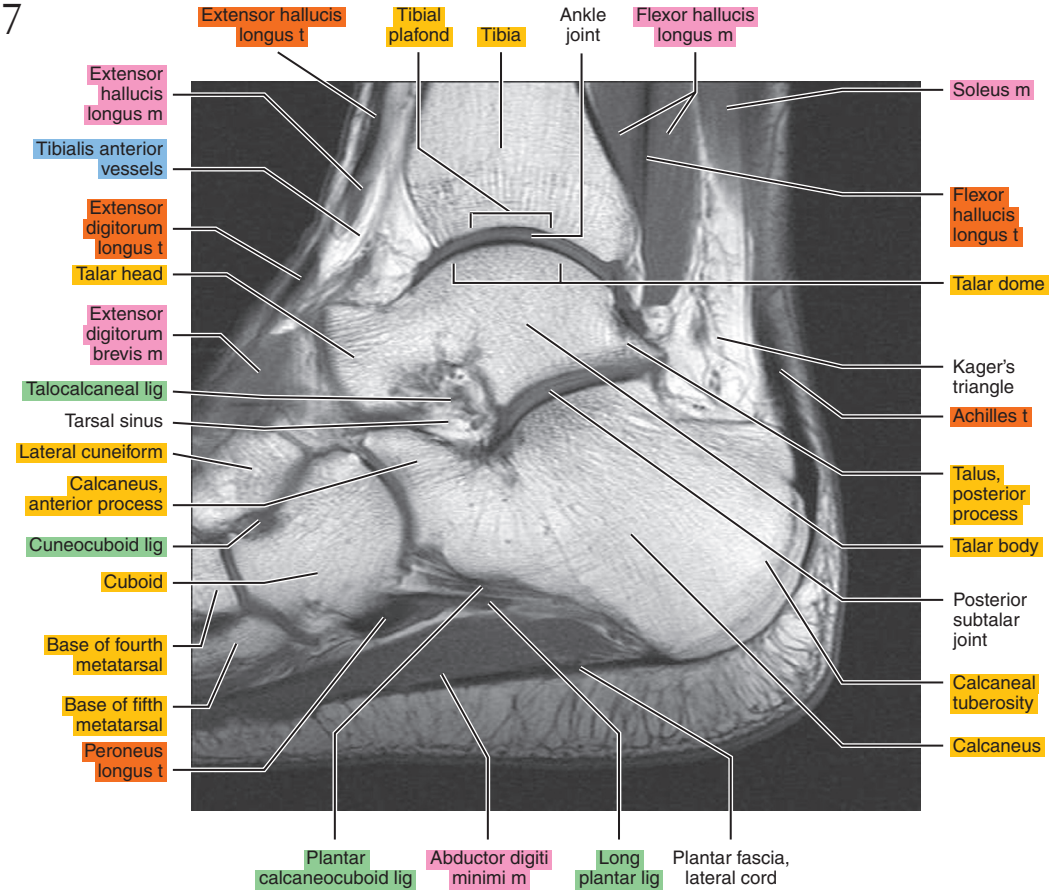

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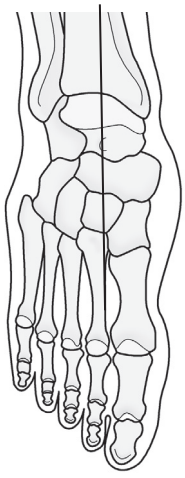

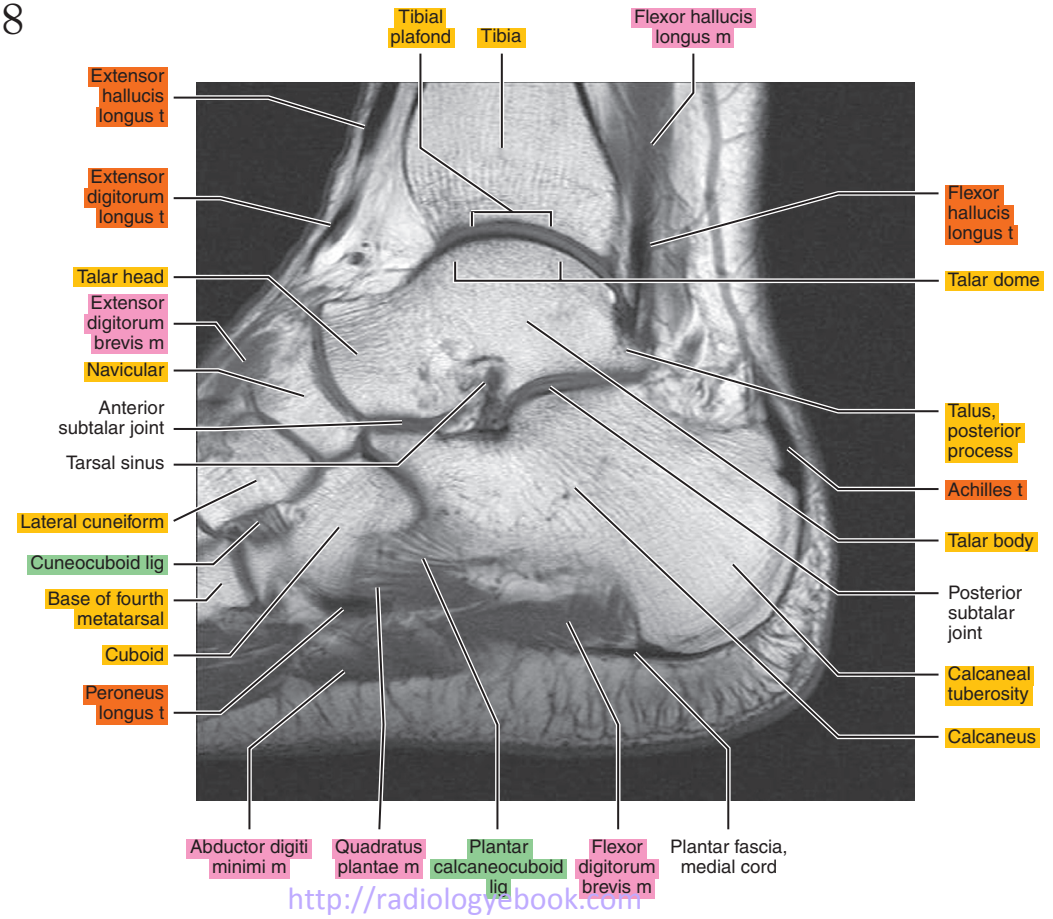

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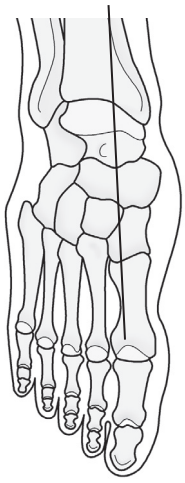

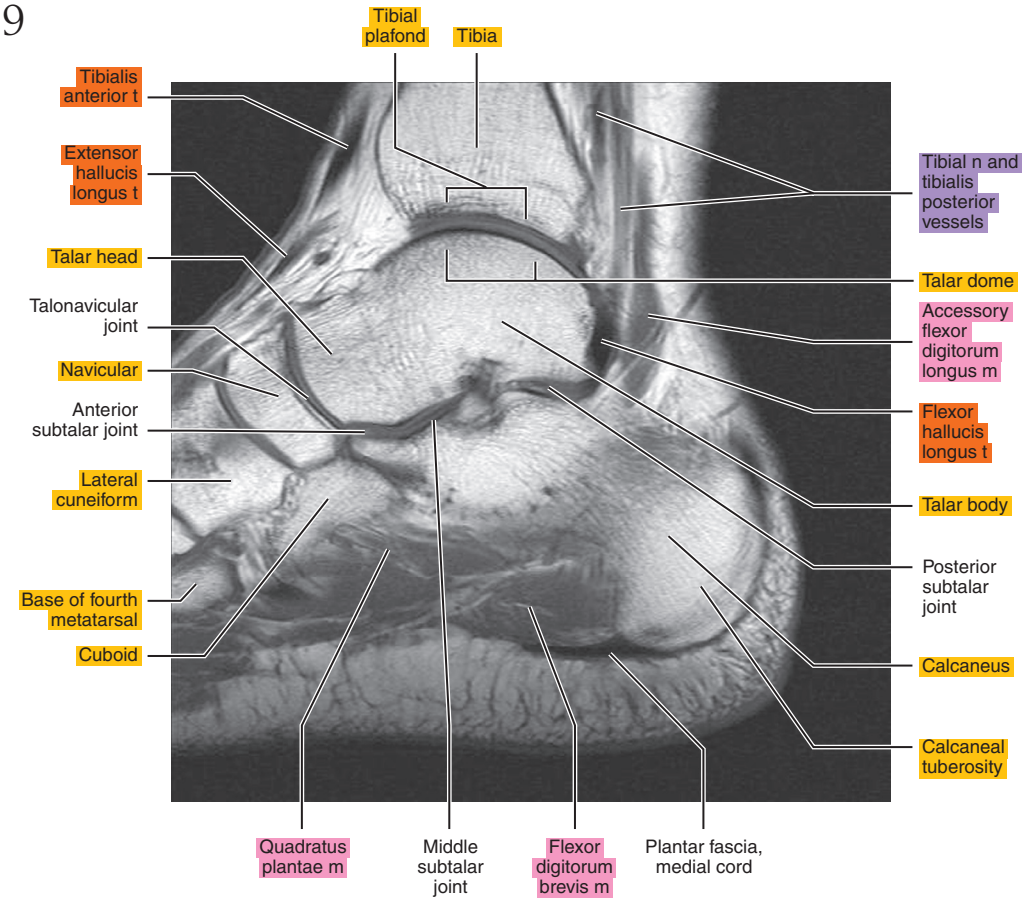

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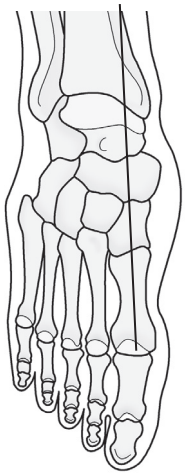

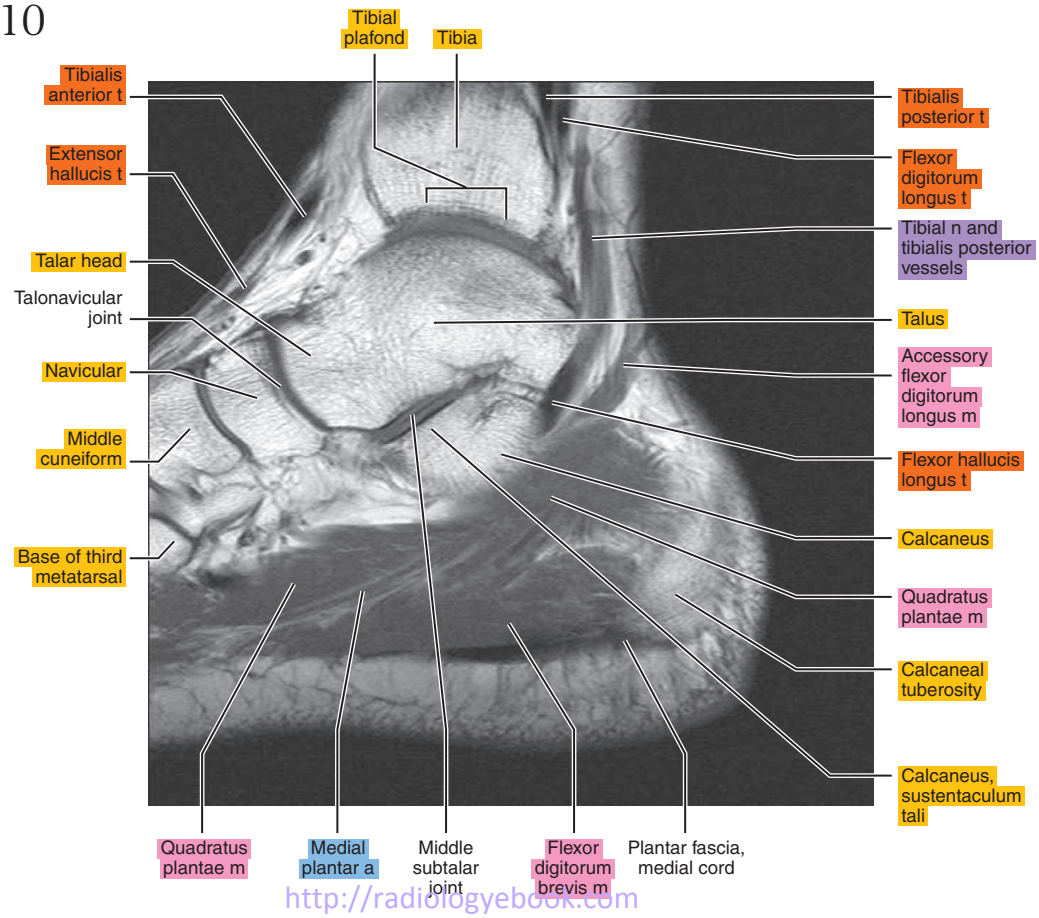

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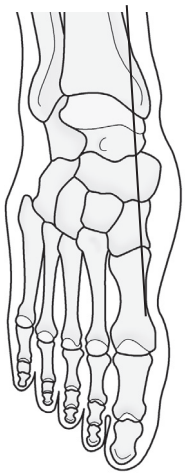

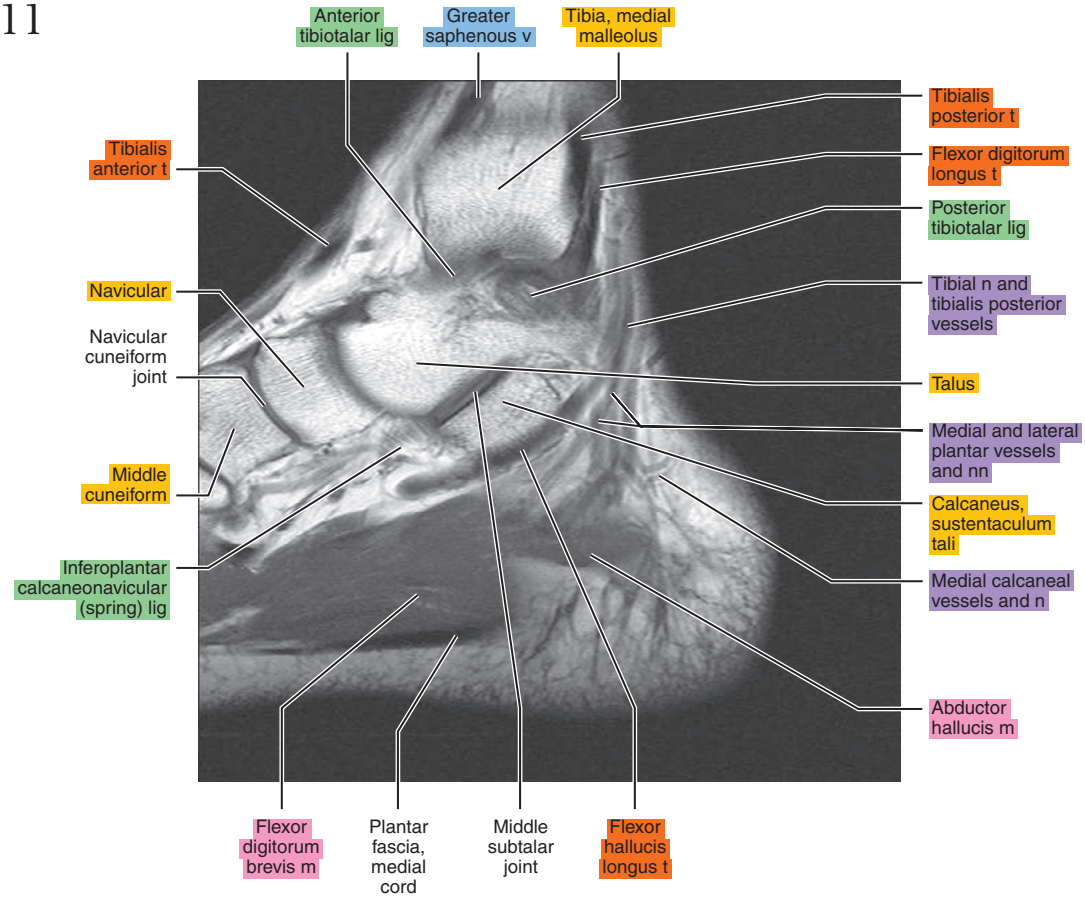

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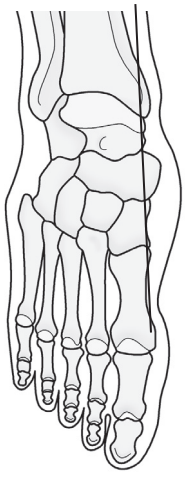

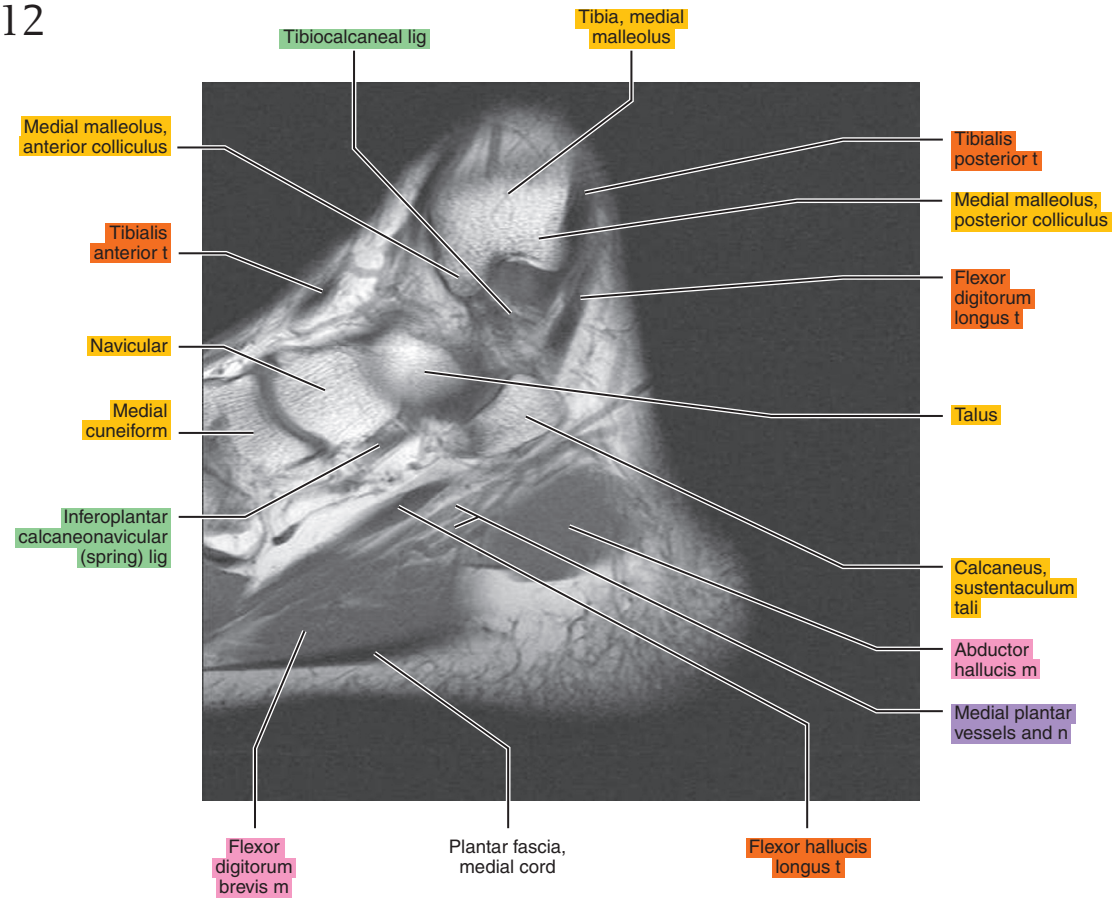

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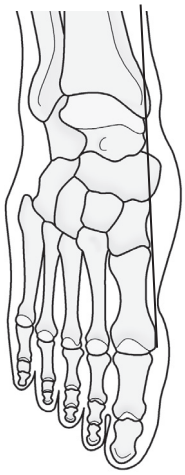

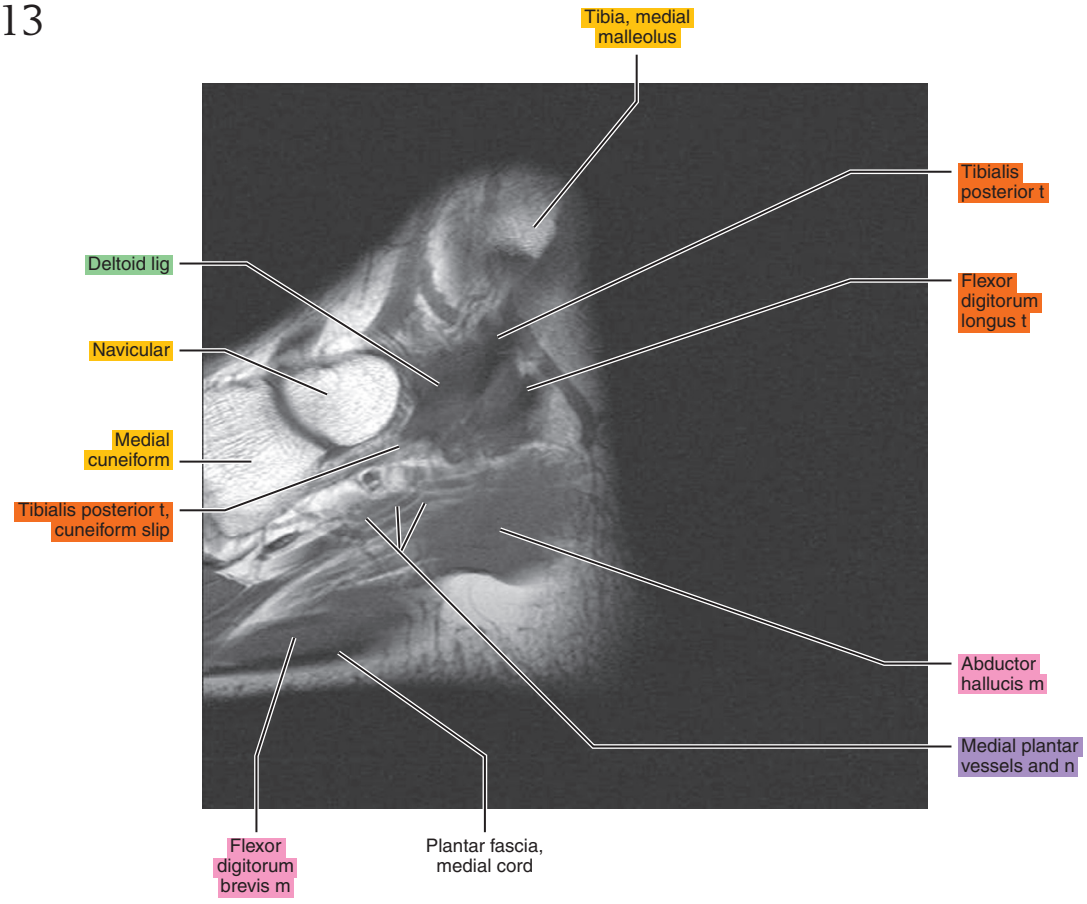

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CORONAL

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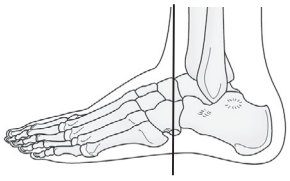

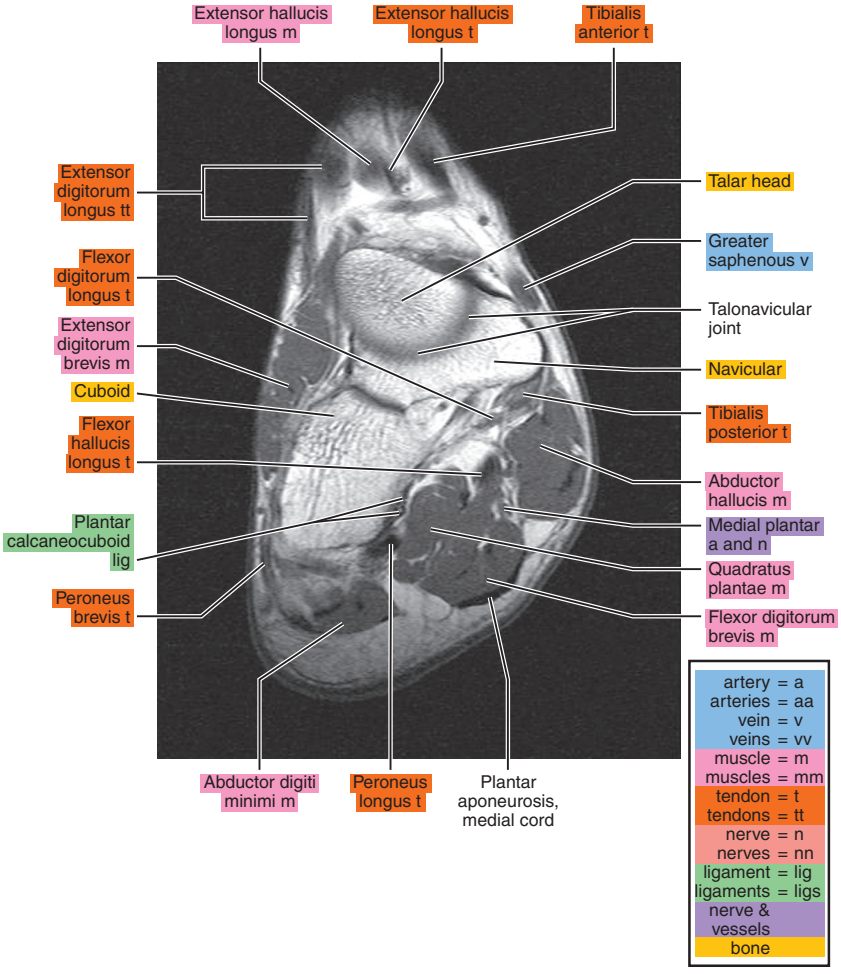

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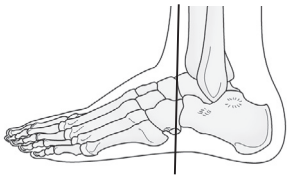

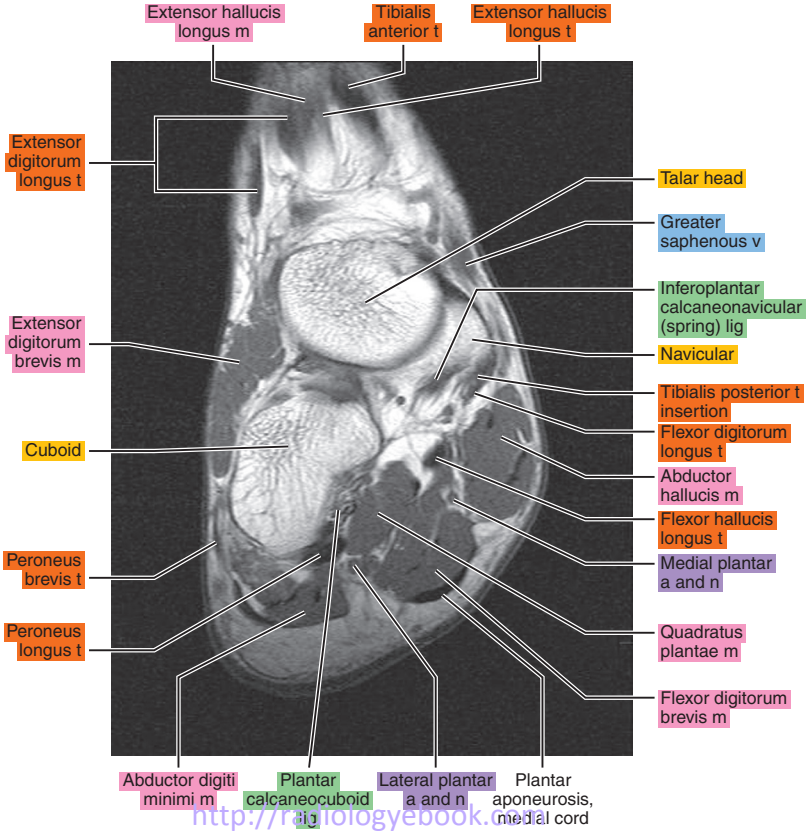

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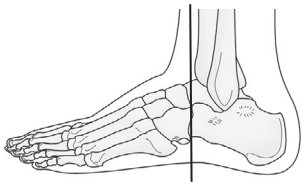

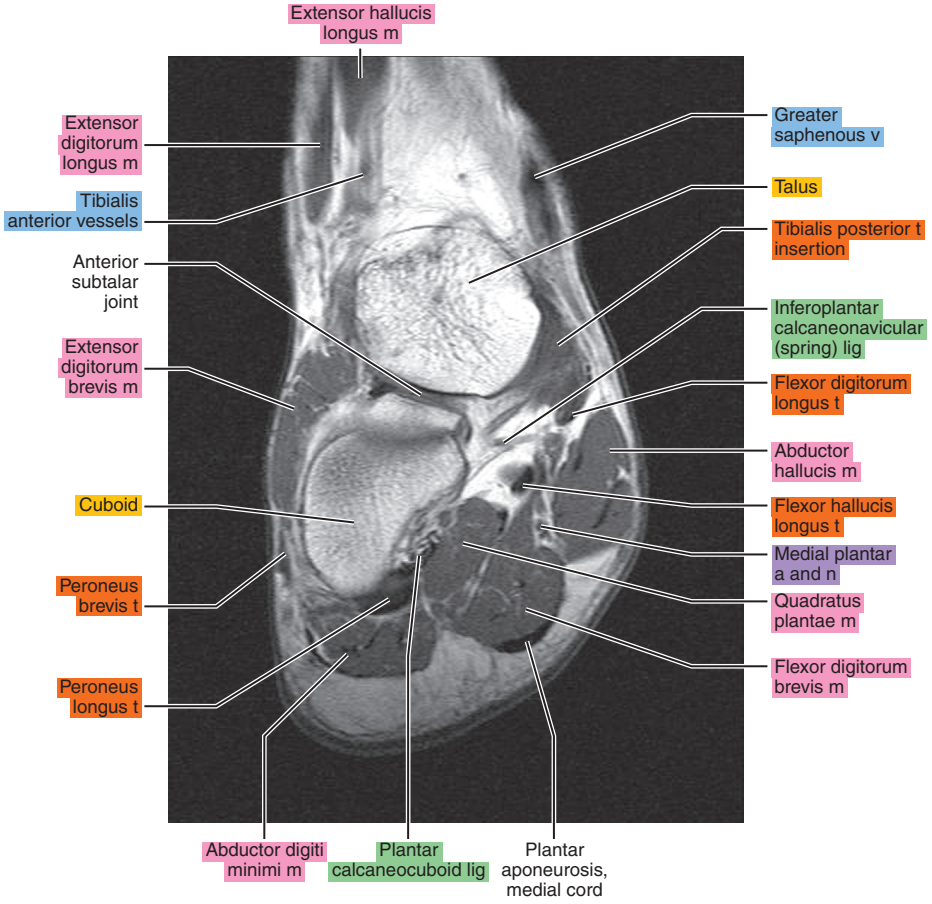

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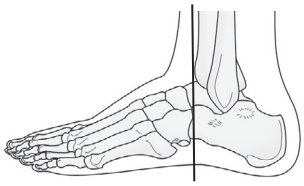

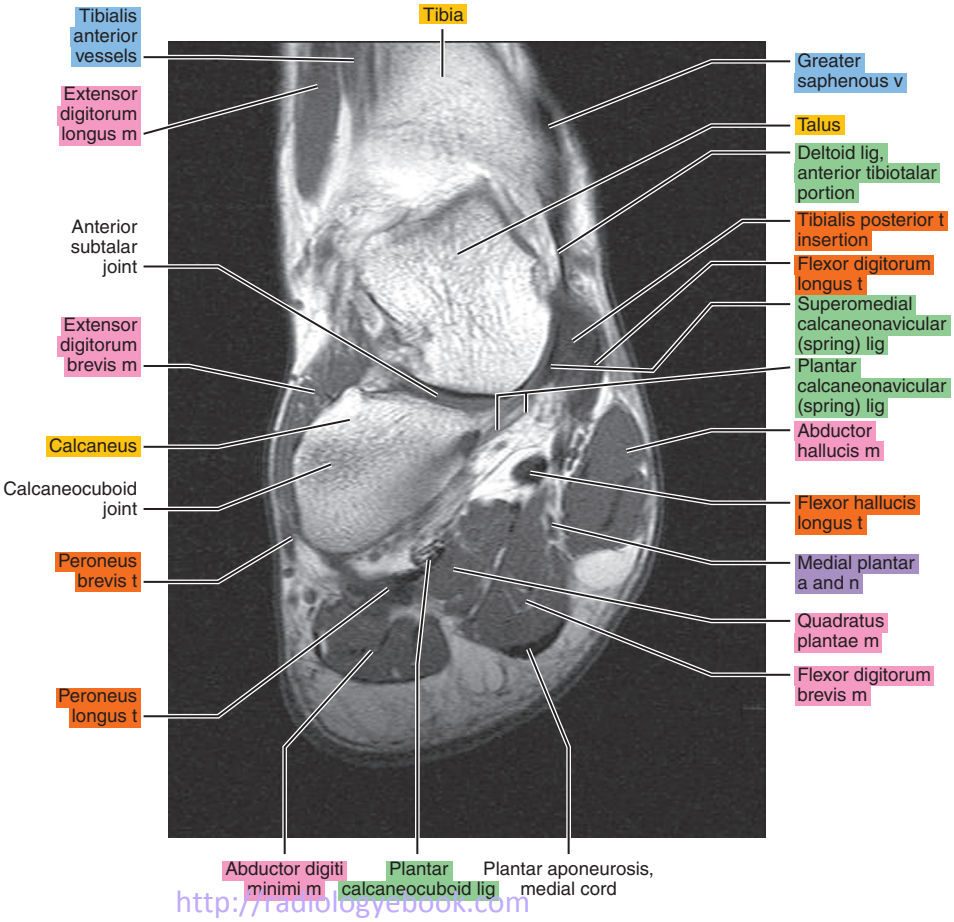

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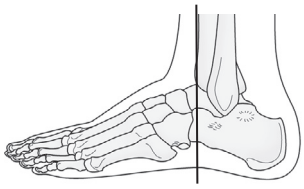

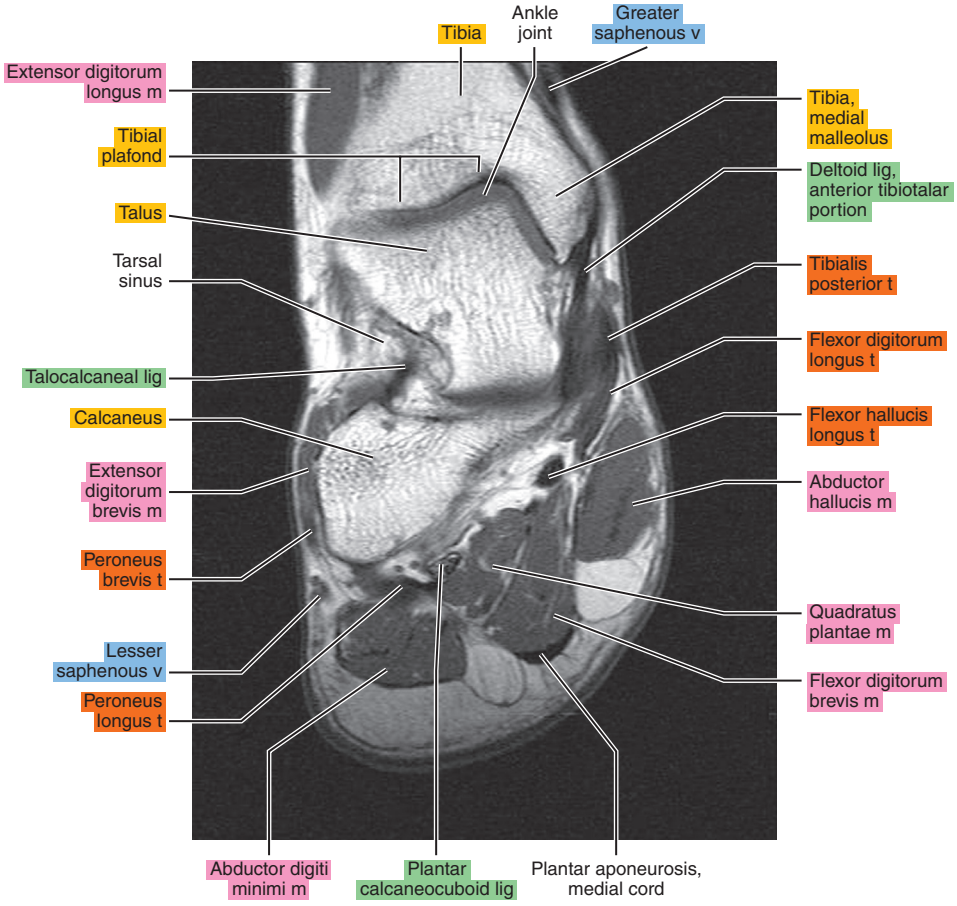

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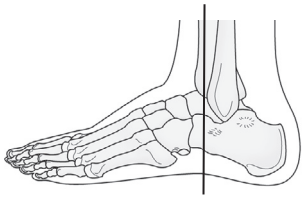

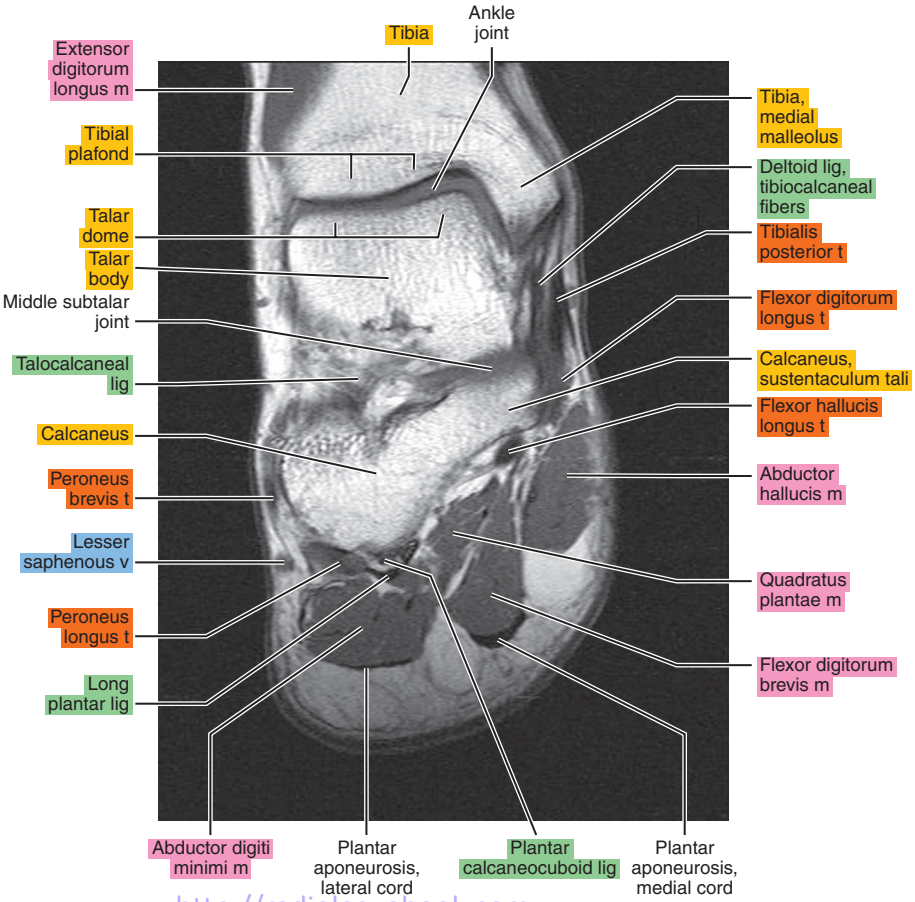

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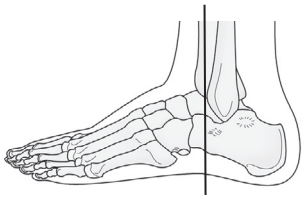

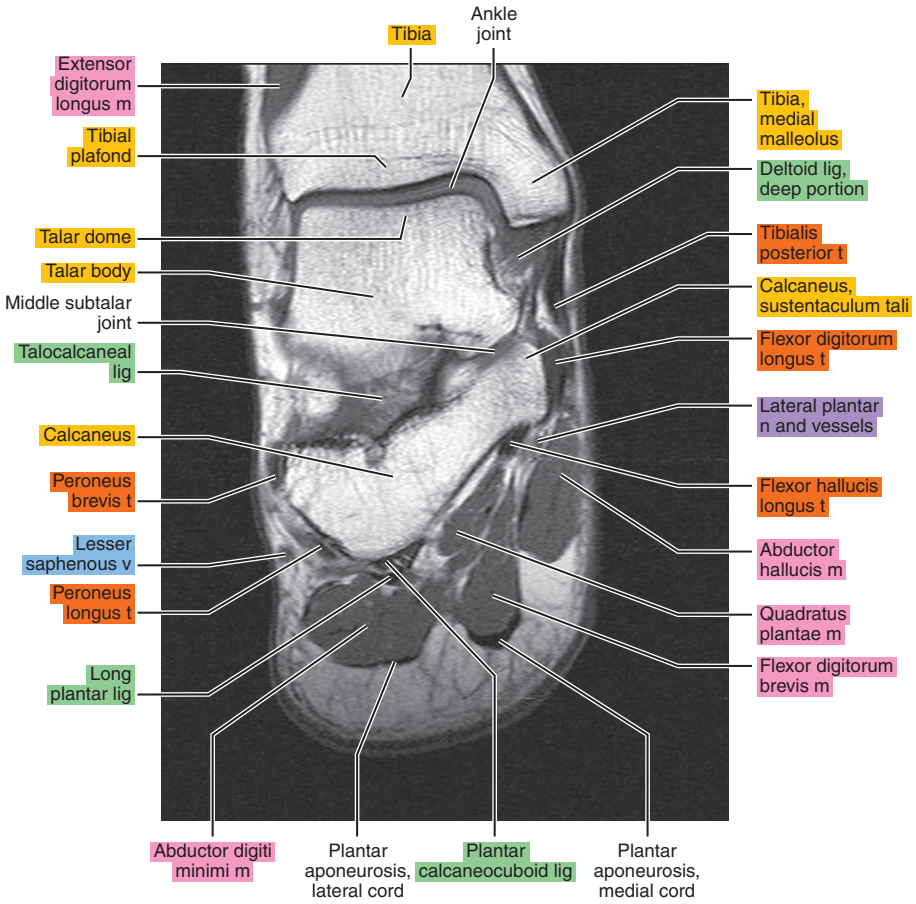

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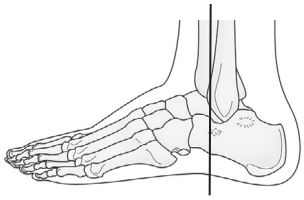

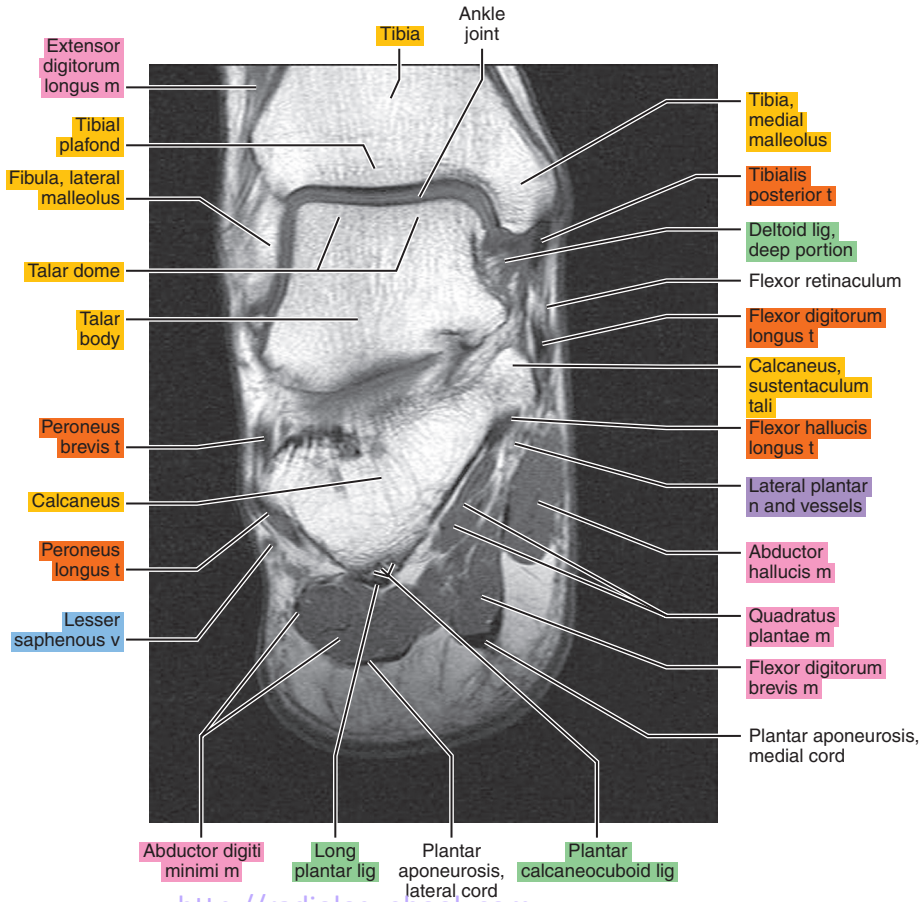

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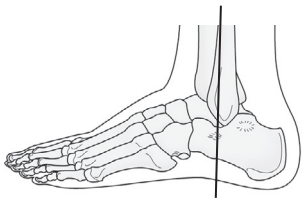

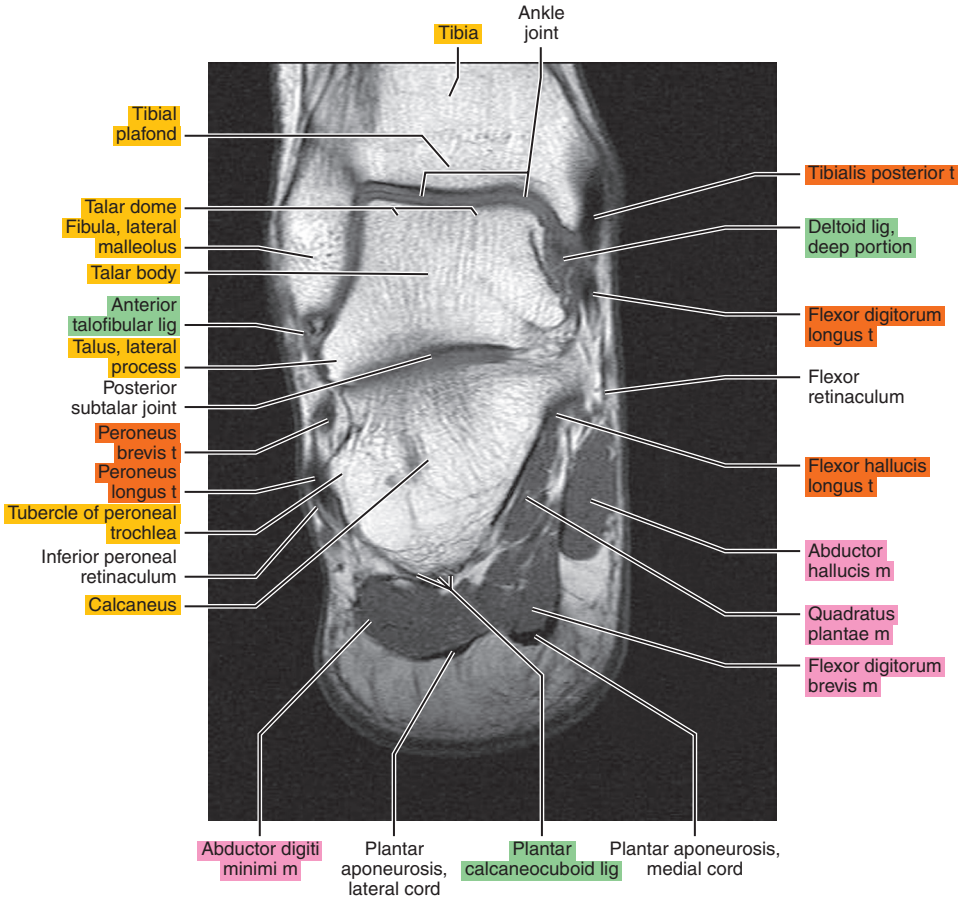

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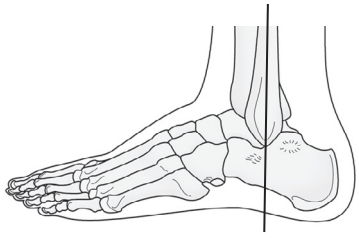

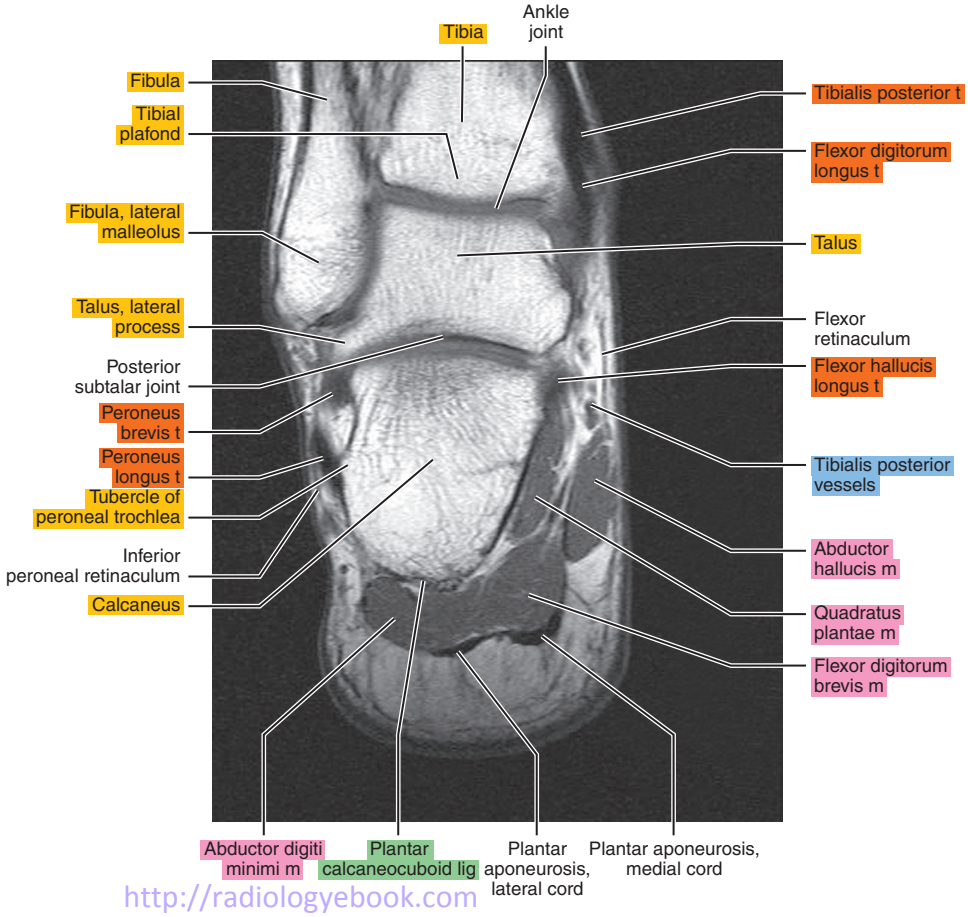

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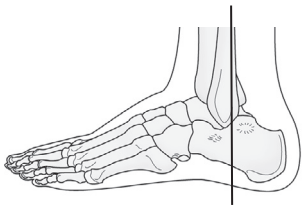

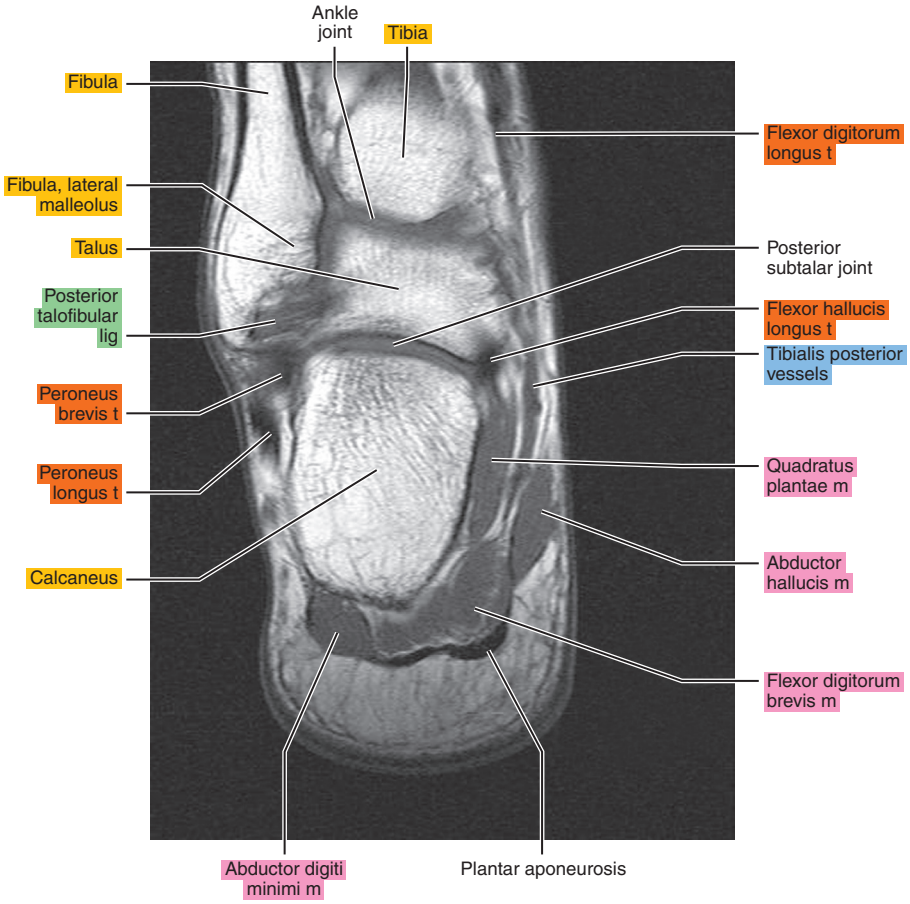

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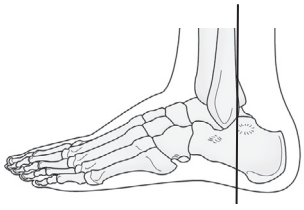

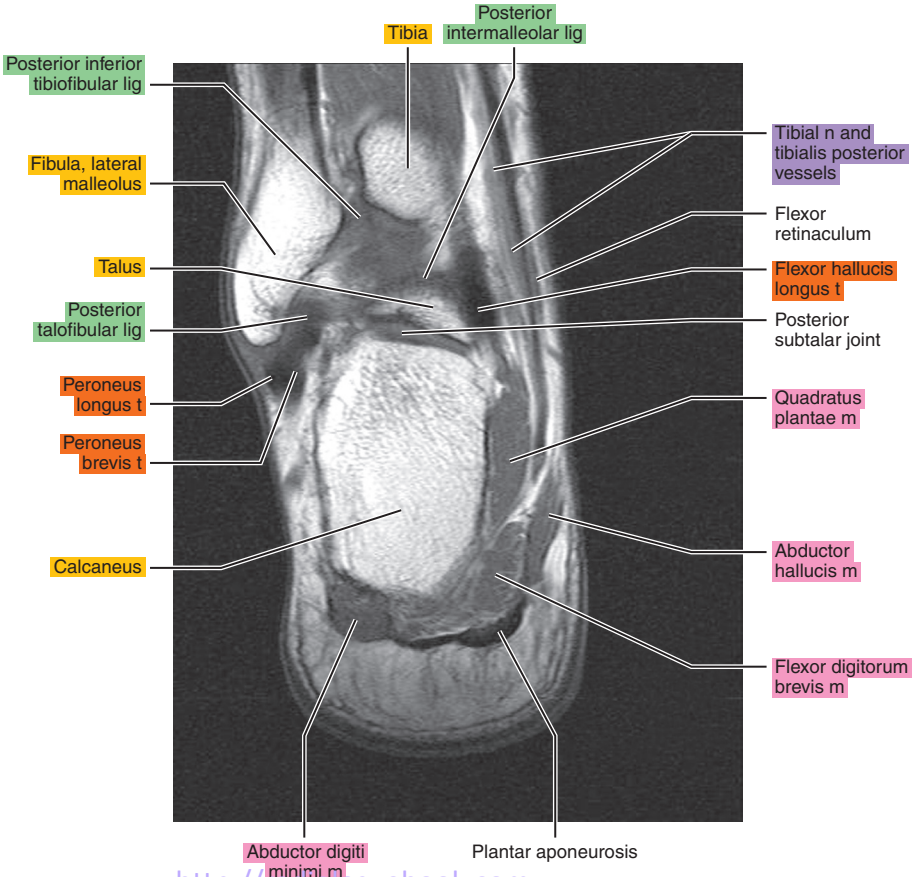

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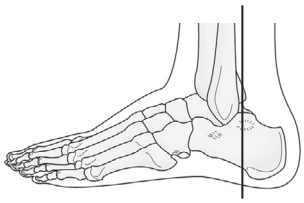

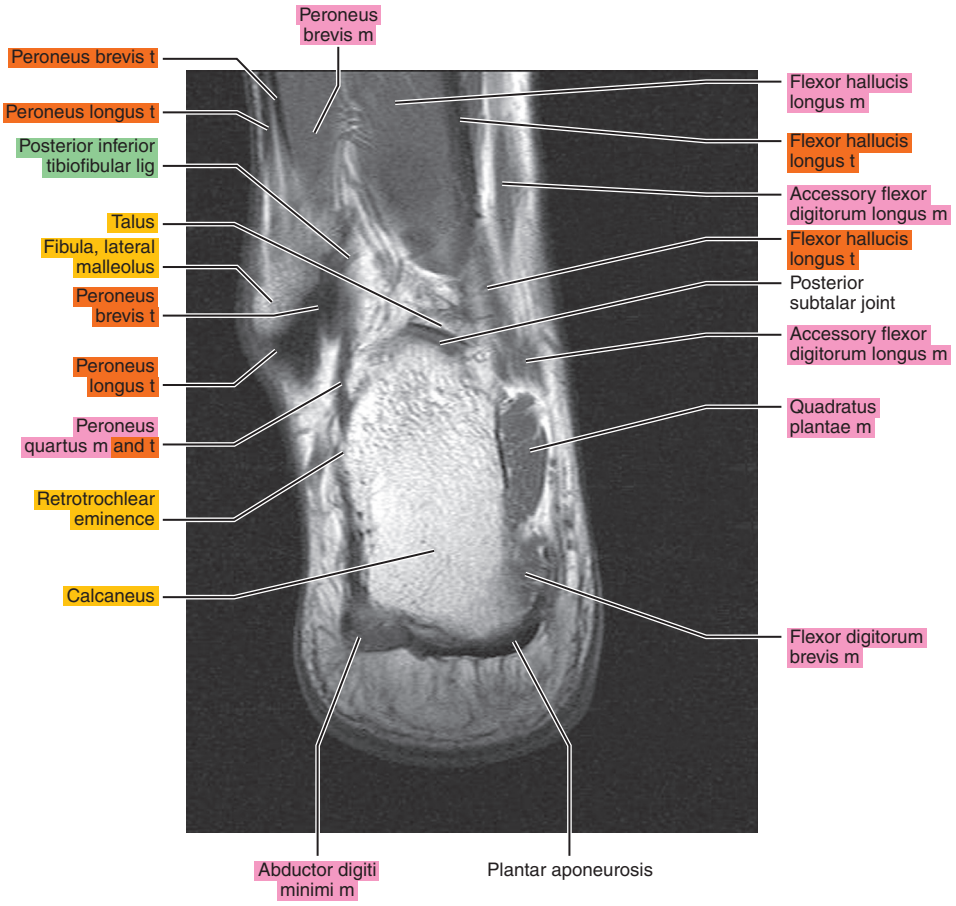

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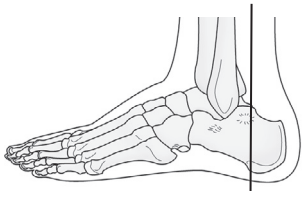

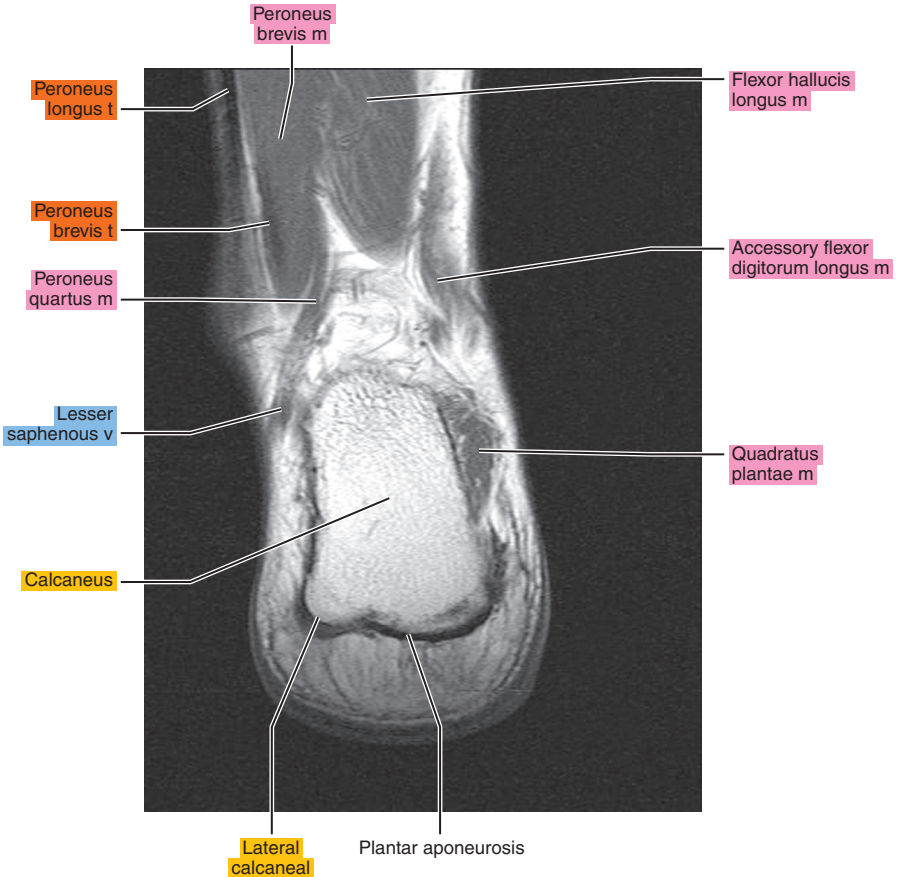

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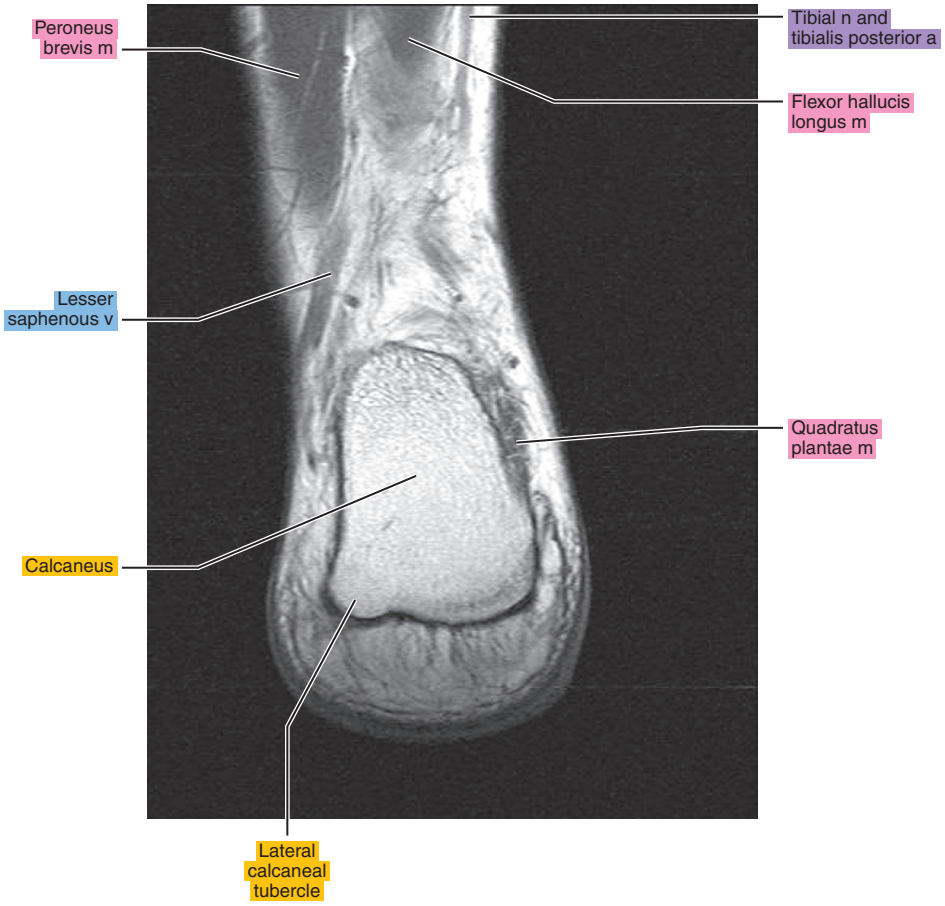

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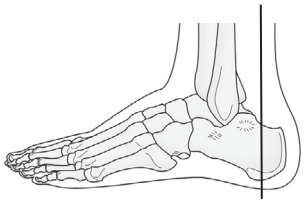

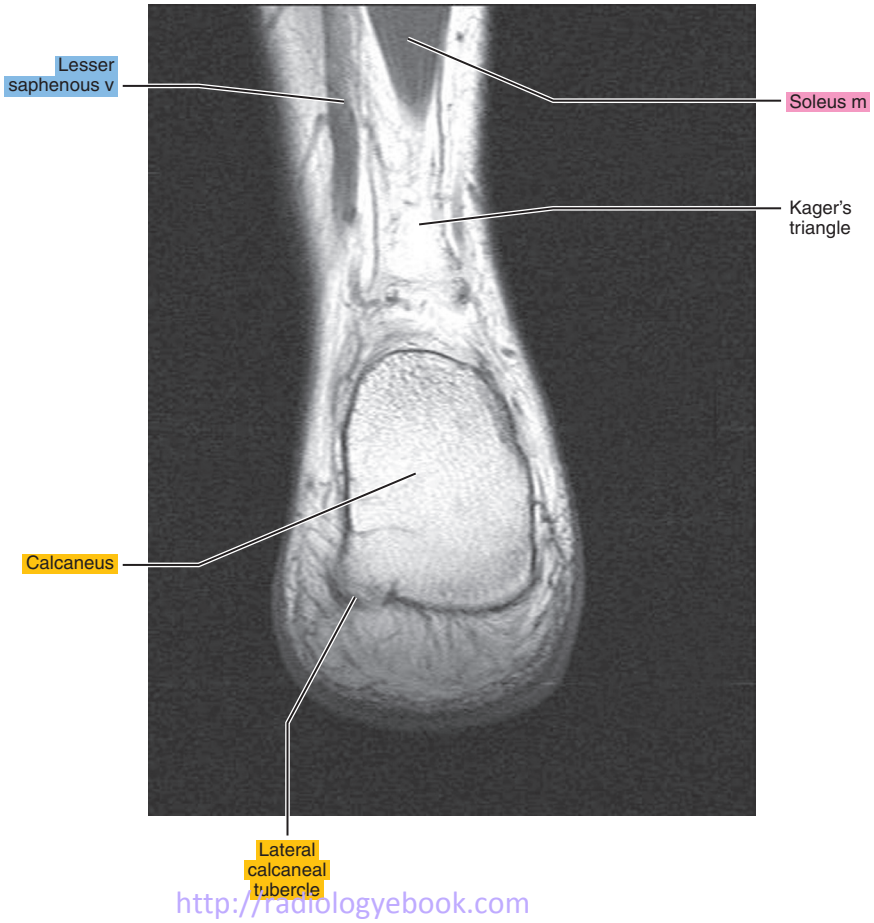

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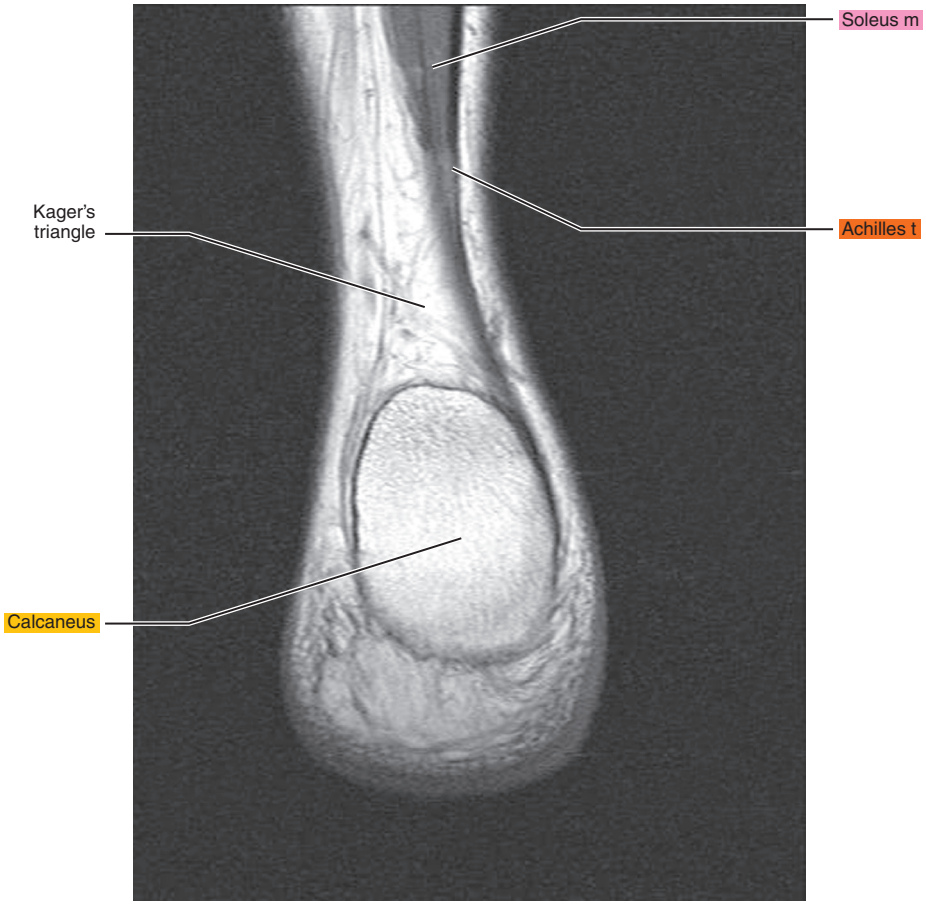

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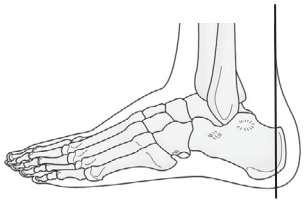

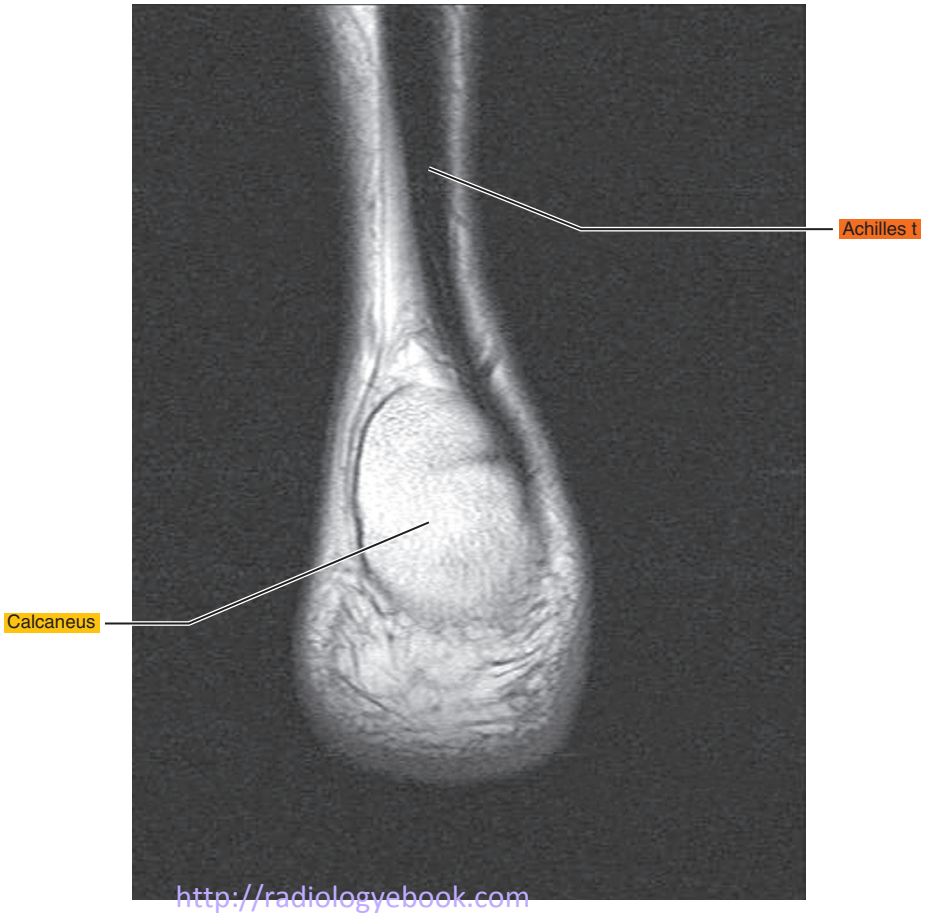

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Chapter

15

MRI of the Foot

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Table 15-1. Muscles of the Foot

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Extensor digitorum brevis	Distal part of the lateral and superior surfaces of the calcaneus and the apex of the inferior extensor retinaculum	As the fiber bundles extend distally, they become grouped into four bellies. Those fibers of the most medial and largest belly are known as extensor hallucis brevis. The tendon of this muscle inserts onto the base of the first metatarsal. The remaining fiber bundles have more variable insertions. The second toe fibers usually insert onto the middle dorsal aspect of the base of the proximal phalanx and are often united with the long extensor tendon. The three more lateral tendons are usually fused with the lateral margins of the corresponding long extensor tendons near the bases of the respective middle phalanges and usually extend to the bases of the corresponding proximal phalanges.	Deep peroneal
Flexor digitorum	Medial process of the tuber calcanei, posterior third of the plantar aponeurosis, and medial and lateral intermuscular septa	Tendons of the short (brevis) flexors pass superficial to those of the long flexor into the osteofibrous canals on the flexor surface of the digits. On the proximal phalanx of each toe, the tendon of the short flexor divides and forms an opening through which the tendon of the long flexor passes. The tendons of the short flexor insert onto the base of the middle phalanx	Surface near the medial edge of the muscle
Quadratus plantae (flexor accessorius)	Two heads: a small lateral and a large medial one. (1) Lateral head arises from an elongated tendon from the lateral process of the tuberosity of the calcaneus and from the lateral margin of the long plantar ligament. (2) Medial head originates from the medial surface of the calcaneus in front of the tuberosity and from adjacent ligaments	The two heads are separated at their origin by a short triangular space. The heads fuse to form a single belly, but the fiber bundles of each head are separately inserted. From the lateral head, the fibers insert into the lateral margin of the flexor tendon. The medial head inserts as an aponeurosis into the deep surface of the flexor tendon	Lateral plantar nerve branch that passes obliquely across the superficial surface of the muscle, parallel with the tendon of the flexor digitorum longus
Lumbricals	Three lateral lumbricals arise from the adjacent sides of the digital tendons of the flexor digitorum longus. The first lumbrical arises on the medial margin of the second toe	Fiber bundles of each muscle converge on both sides of a tendon that becomes free near the metatarsophalangeal joint and is inserted onto the medial side of the proximal phalanx of the appropriate toe. A tendinous expansion is inserted into the aponeurosis of the extensor muscle	Three lateral lumbricals are usually supplied by branches of the deep ramus of the lateral plantar nerve. Medial lumbrical is supplied by the first common plantar digital branch of the medial plantar nerve. This nerve may supply the two more medial muscles, or the medial muscles may receive a double nerve supply

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Table 15-1. Muscles of the Foot—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Abductor hallucis	Medial border of the medial process of the tuber calcanei, flexor retinaculum, and plantar aponeurosis	Along with the tendon of the medial belly of flexor brevis onto the base of the proximal phalanx of the great toe	Branch of the medial plantar
Flexor hallucis brevis	From the plantar surface of the lateral cuneiform and cuboid bones	The medial and lateral sides of the base of the proximal phalanx of the great toe	Branch from the medial plantar or first plantar digital. Rarely, the lateral body may receive a branch from the lateral plantar
Adductor hallucis, oblique head	Tuberosity of the cuboid and sheath of the tendon of the peroneus longus, the plantar calcaneocuboid ligament, the third cuneiform, and bases of the second and third metatarsals	By a flat tendon that inserts in common with that of the flexor brevis onto the lateral part of the plantar surface of the base of the proximal phalanx, and by a slip into the aponeurosis of the long extensor muscle on the back of the great toe	Branch of the deep ramus of the lateral plantar
Adductor hallucis, transverse head	Joint capsules of the third, fourth, and fifth metatarsophalangeal joints and the deep transverse metatarsal ligaments	By a common tendon that splits and passes on each side of the tendon of the oblique head and is inserted into the sheath on the tendon of the long flexor of the great toe	Branch from the deep ramus of the lateral plantar
Abductor digiti minimi	Lateral and medial processes of the tuber calcanei and lateral and plantar surfaces of the body of the bone in front of these, lateral intermuscular septum, deep surface of the lateral plantar fascia, and fibrous band extending from the calcaneus to the lateral side of the base of the fifth metatarsal	Onto the lateral surface of the proximal phalanx of the little toe and the metatarsophalangeal capsule	Lateral plantar
Flexor digiti minimi brevis	Sheath of the peroneus longus, tuberosity of the cuboid, and base of the fifth metatarsal	By short tendinous bands onto the base of the proximal phalanx of the little toe, the capsule of the corresponding joint, and the aponeurosis on the dorsal surface of the toe	Branch from the superficial ramus of the lateral plantar
Opponens digiti minimi	An inconstant muscle, it may arise from the sheath of the peroneus longus and the tuberosity of the cuboid by a thin tendon that passes over the tuberosity of the fifth metatarsal	Onto the lateral surface of the fifth metatarsal	Branch from the nerve to the flexor brevis and the superficial ramus of the lateral plantar

Continued

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Table 15-1. Muscles of the Foot—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Interosseous, dorsal	Each of the three lateral dorsal interosseous muscles arises from the sides of the shaft and the plantar surface of the bases of the metatarsals, bounding the space in which each lies, from the fascia covering it dorsally, and from the fibrous prolongations from the long plantar ligament. The first (medial) has a similar origin, except that its medial origin is by a tendinous slip from the peroneus longus tendon and, occasionally, by fiber bundles from the medial side of the proximal end of the first metatarsal	The first and second interosseous muscles onto each side of the base of the proximal phalanx of the second toe; the third and fourth onto the lateral side of the bases of the proximal phalanges of the third and fourth toes. Each tendon adheres to the capsule of the adjacent joint	Deep branch of the lateral plantar. The interosseous muscles of the fourth interspace are usually supplied by a branch from the superficial ramus of the lateral plantar
Interosseous, plantar	The plantar interosseous muscle arises from the proximal third of the medial plantar surface of the shaft, from the base of the metatarsal on which it lies, and from the fascial expansions of the long plantar ligament	Onto a tubercle on the medial side of the base of the proximal phalanx of the digit to which it goes	Lateral plantar

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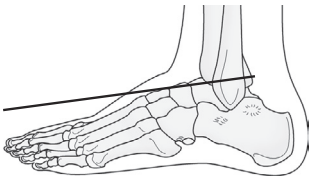
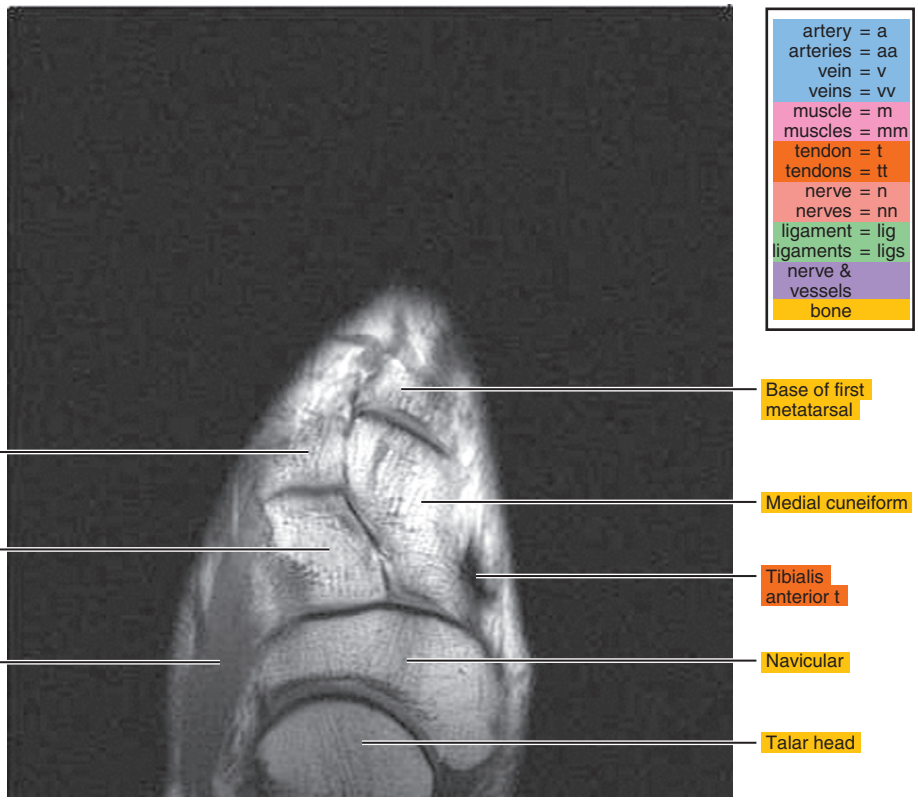
Figure 15.1.1





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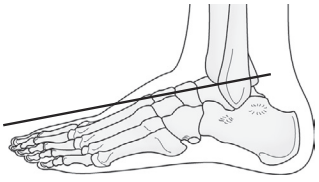

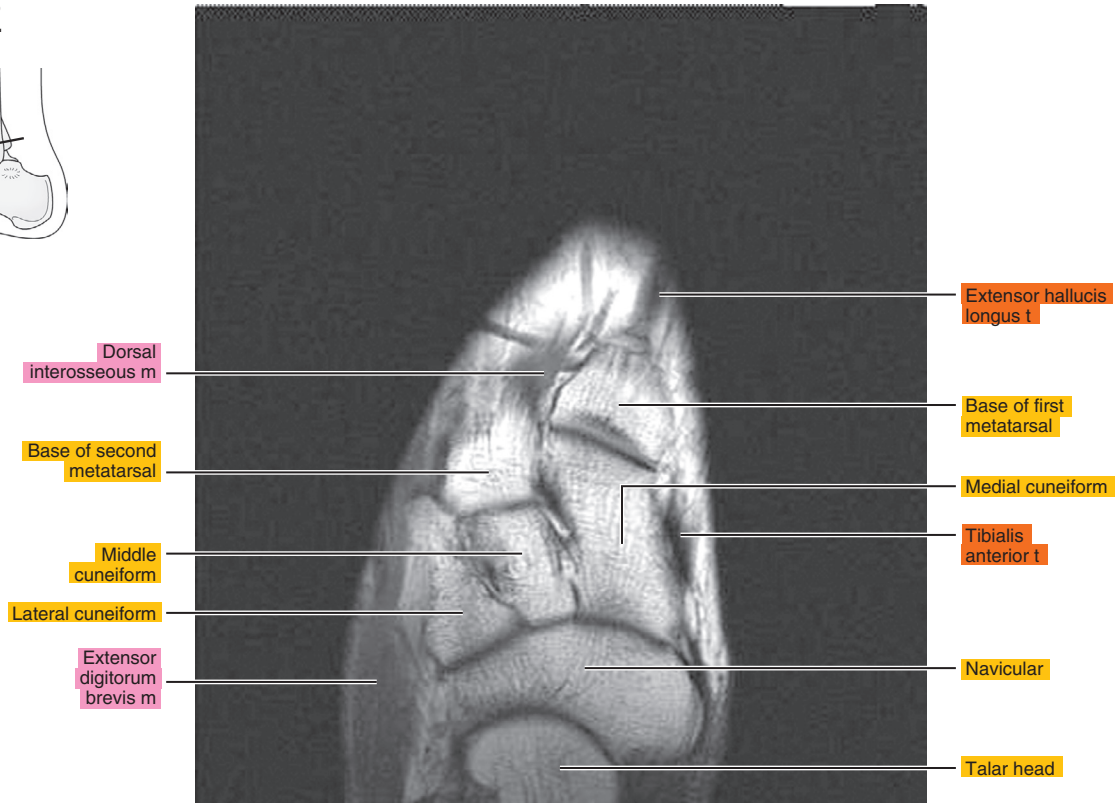

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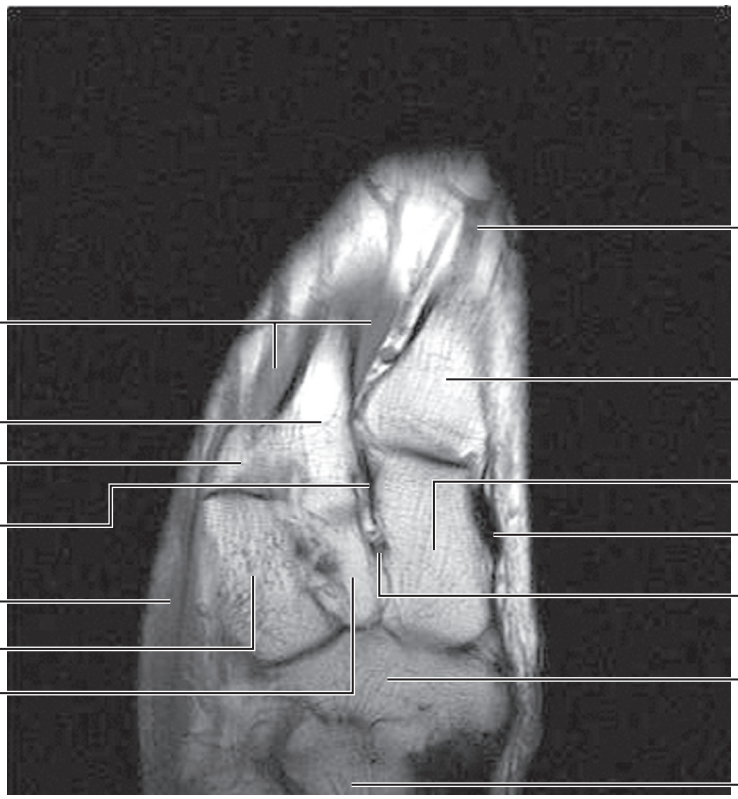

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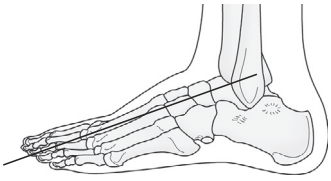

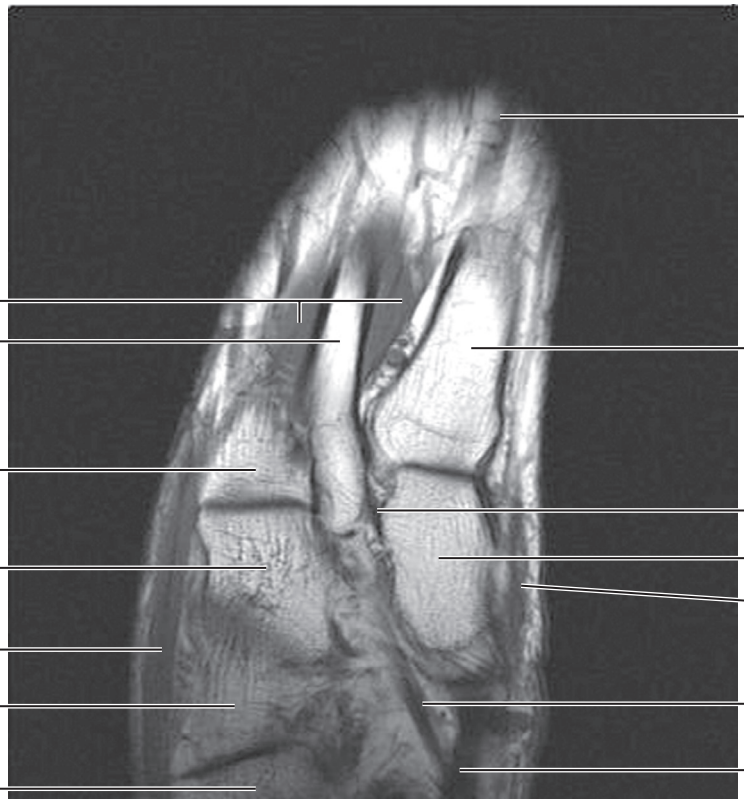

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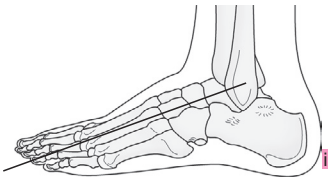

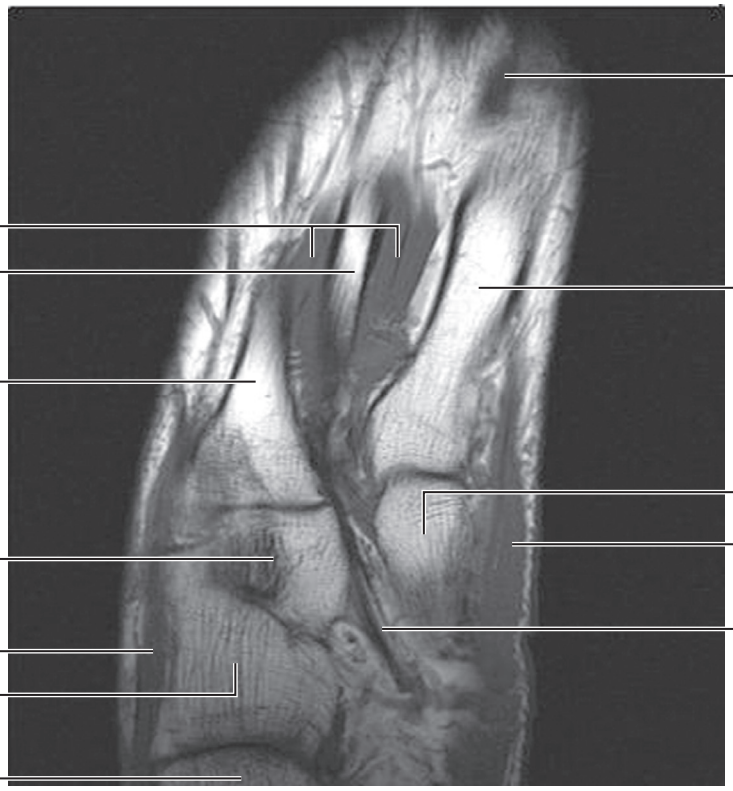

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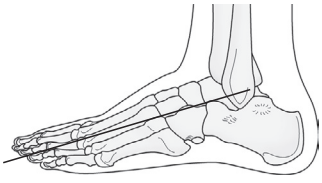

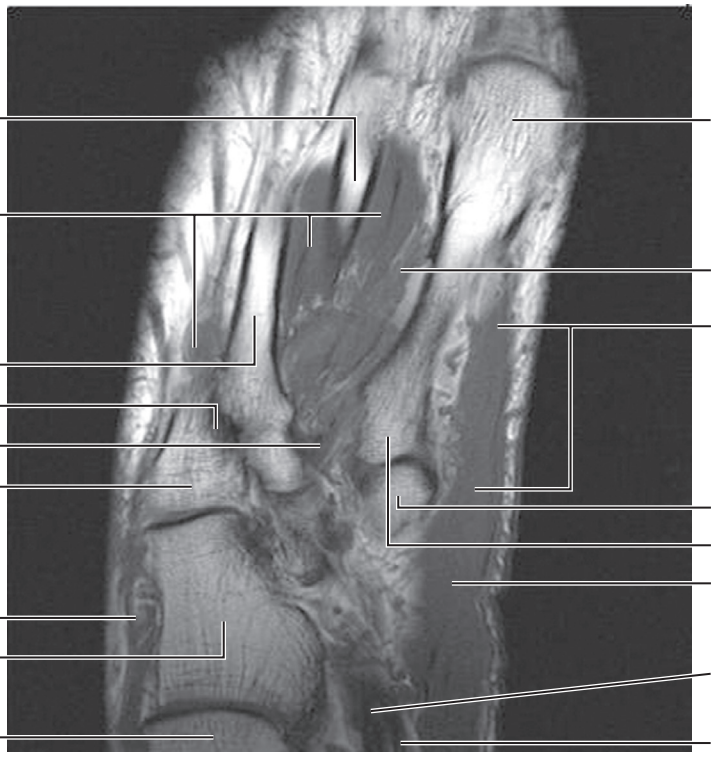

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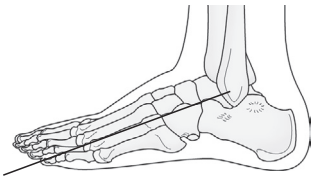

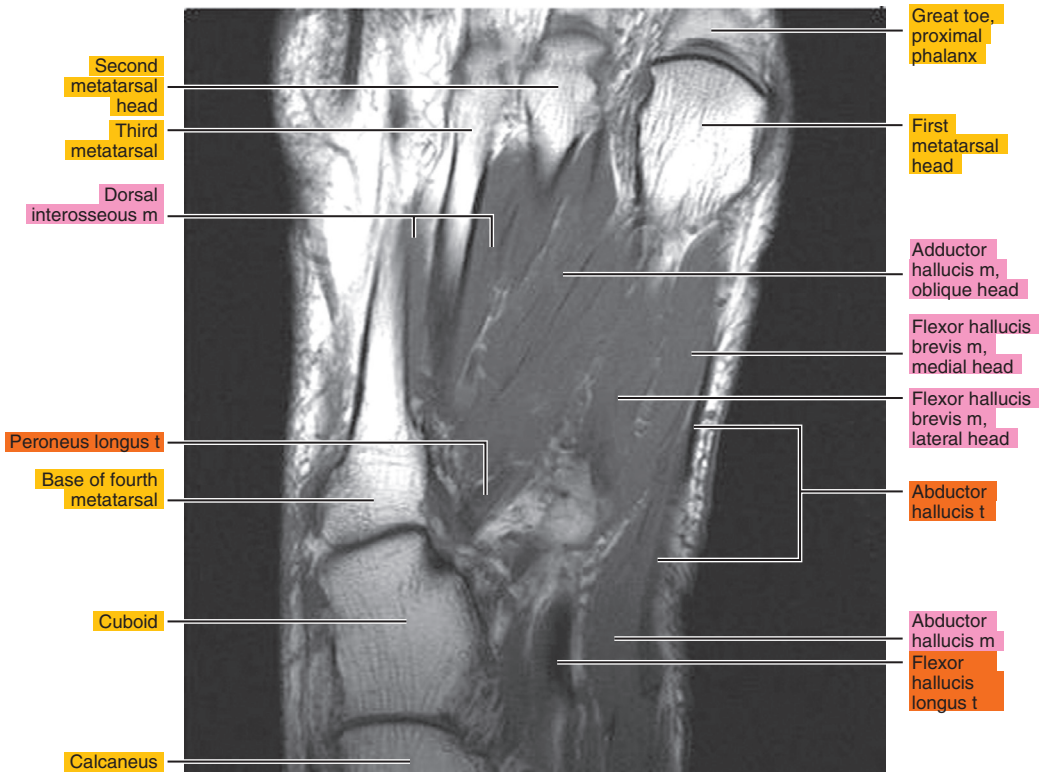

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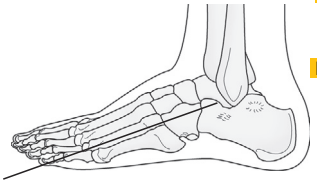

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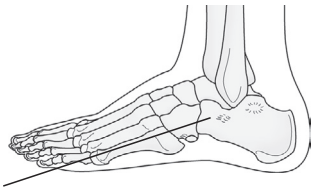

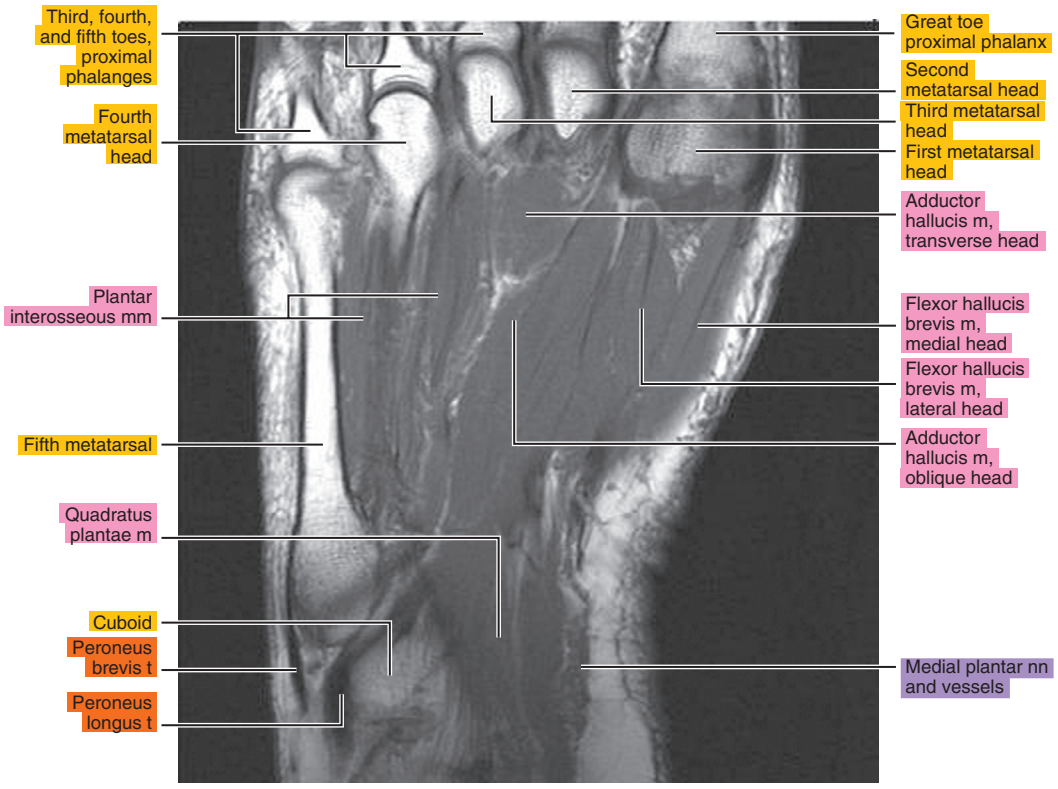

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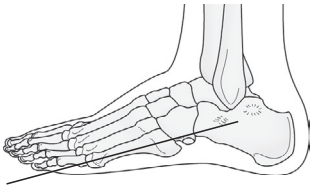

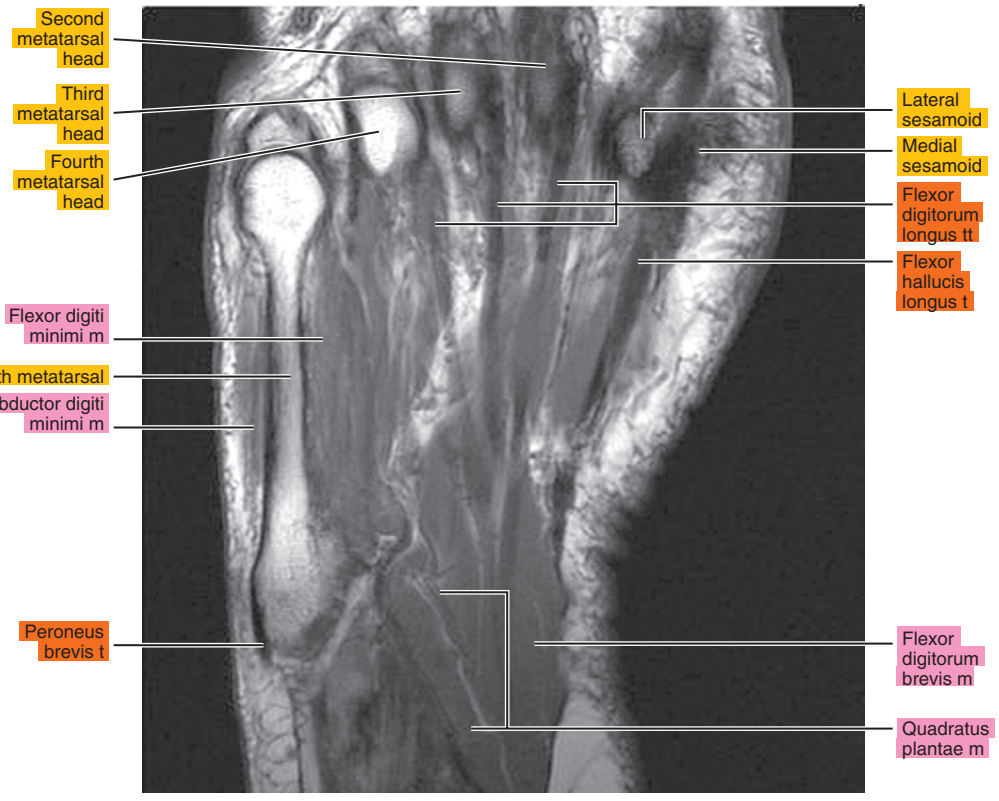

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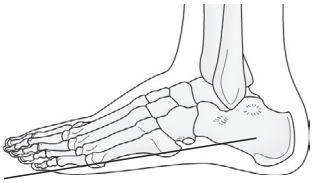

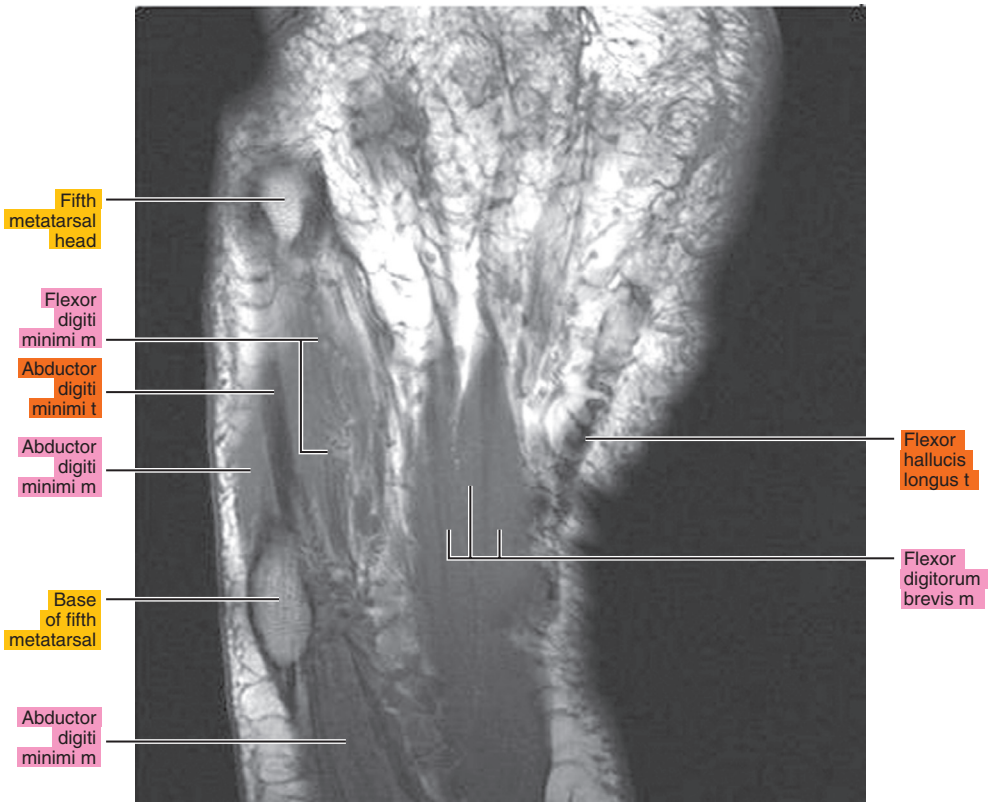

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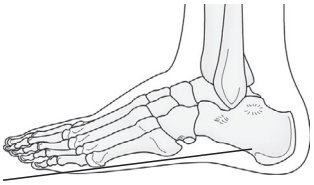

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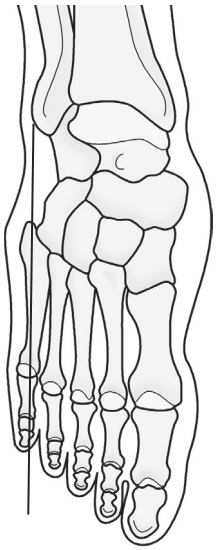

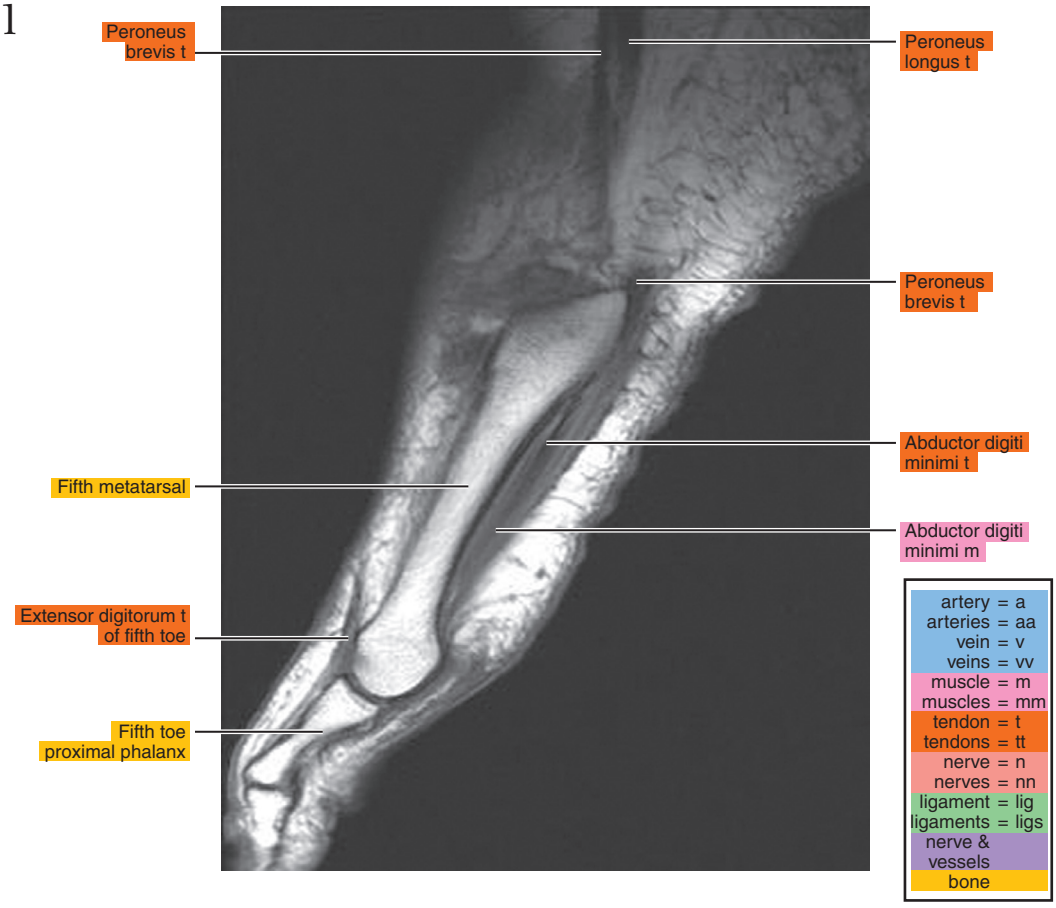

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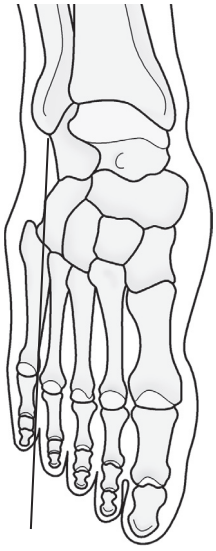

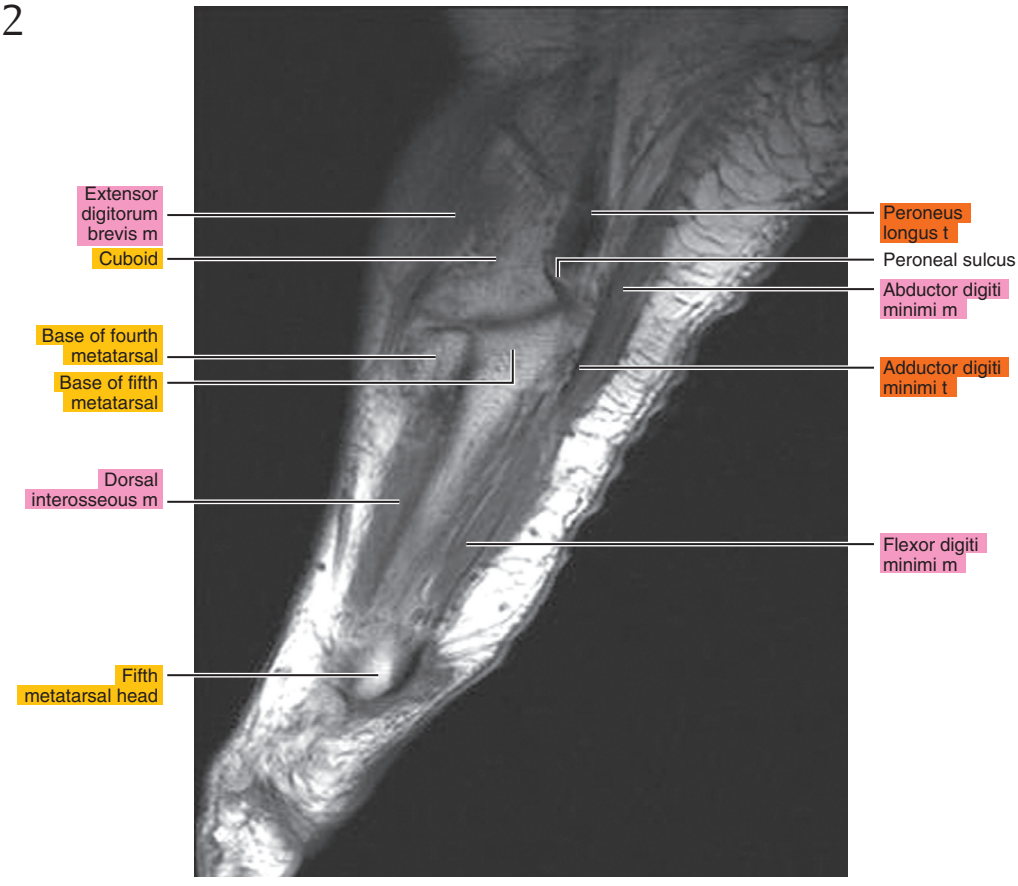

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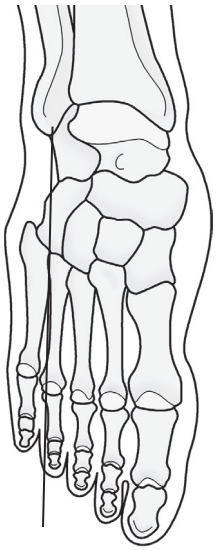

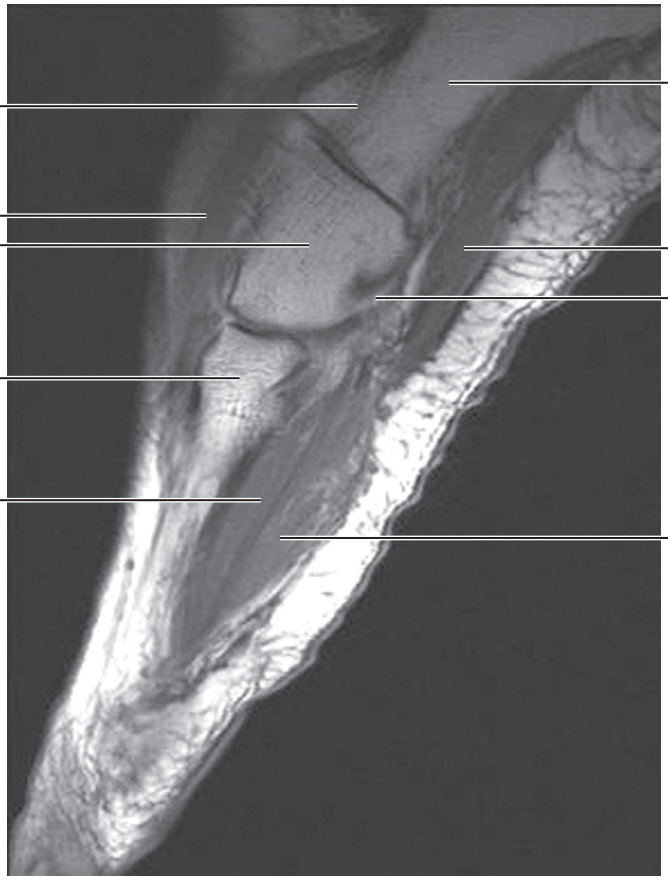

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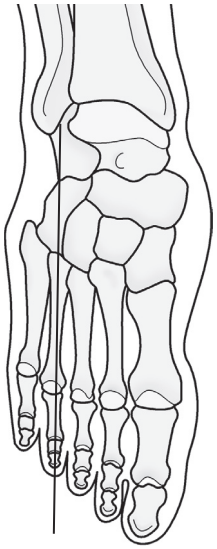

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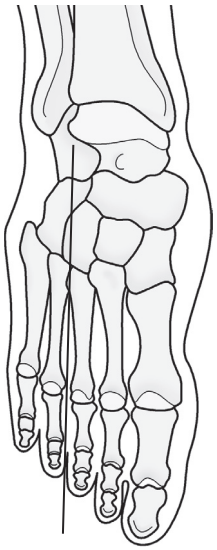

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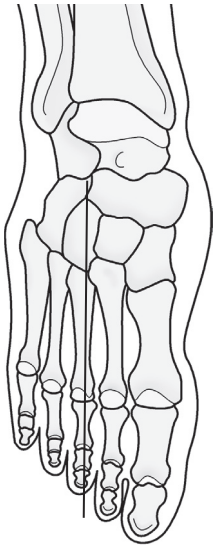

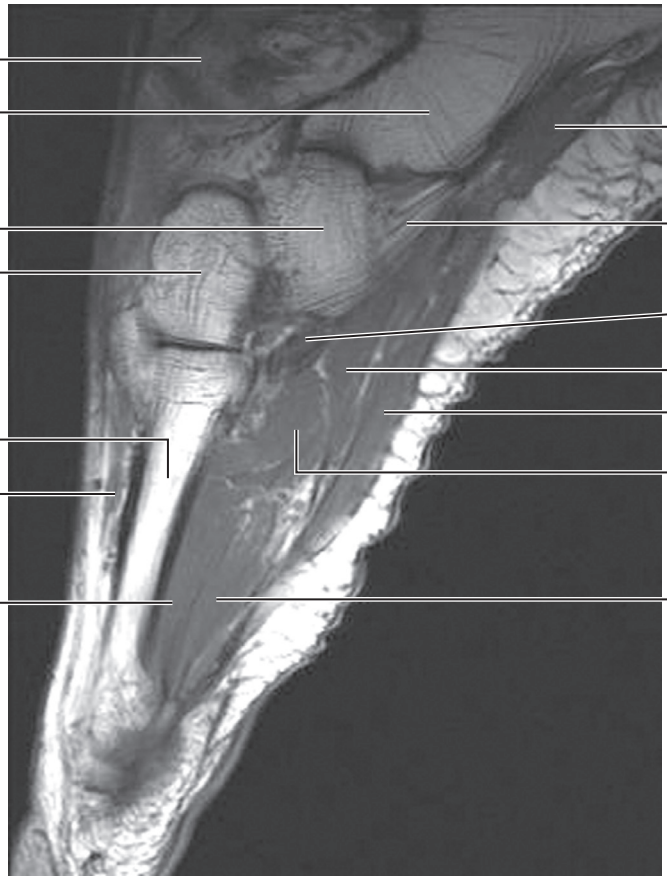

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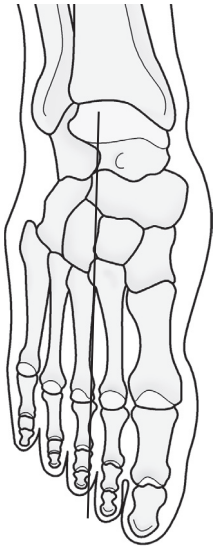

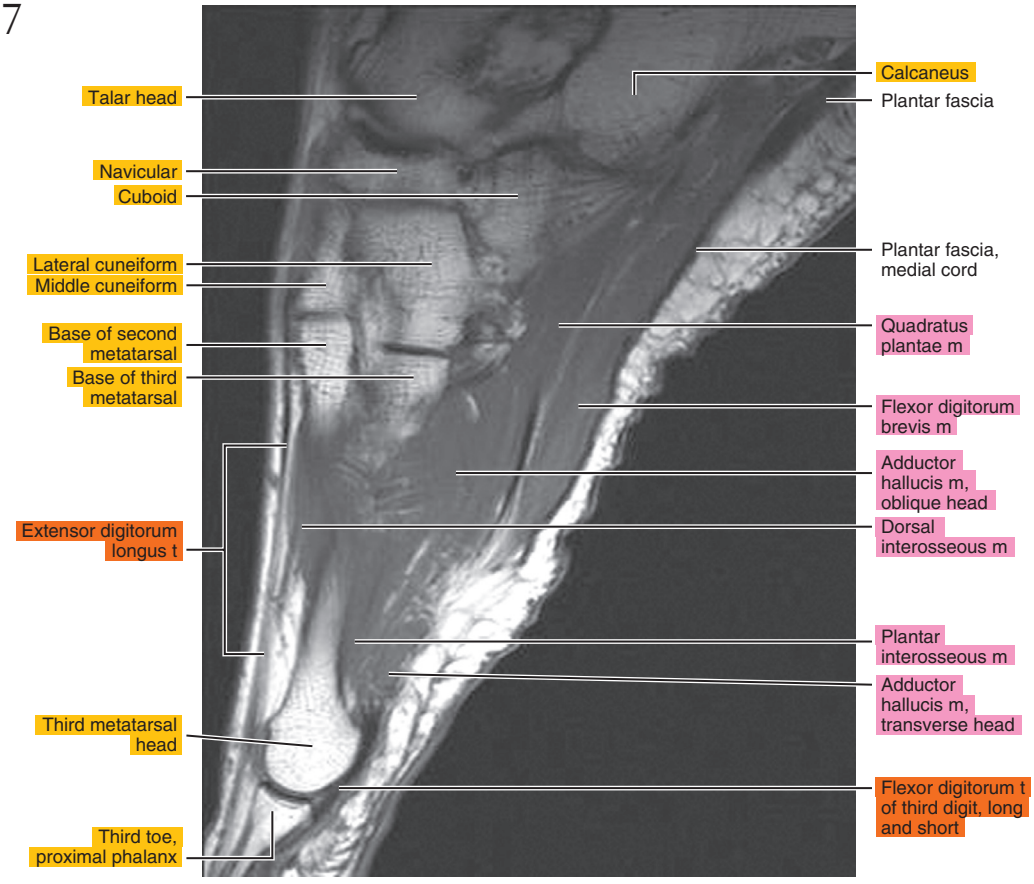

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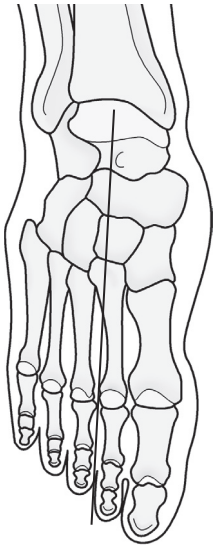

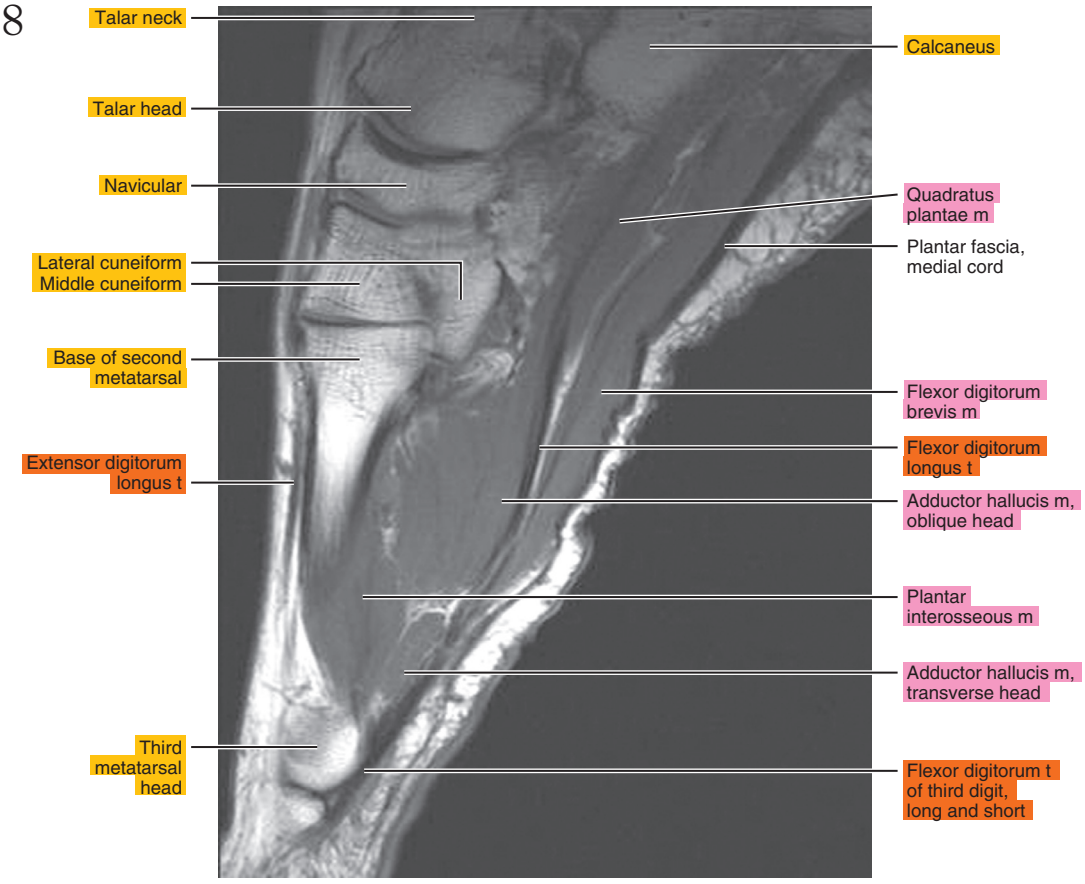

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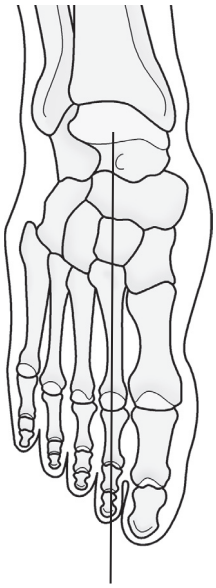

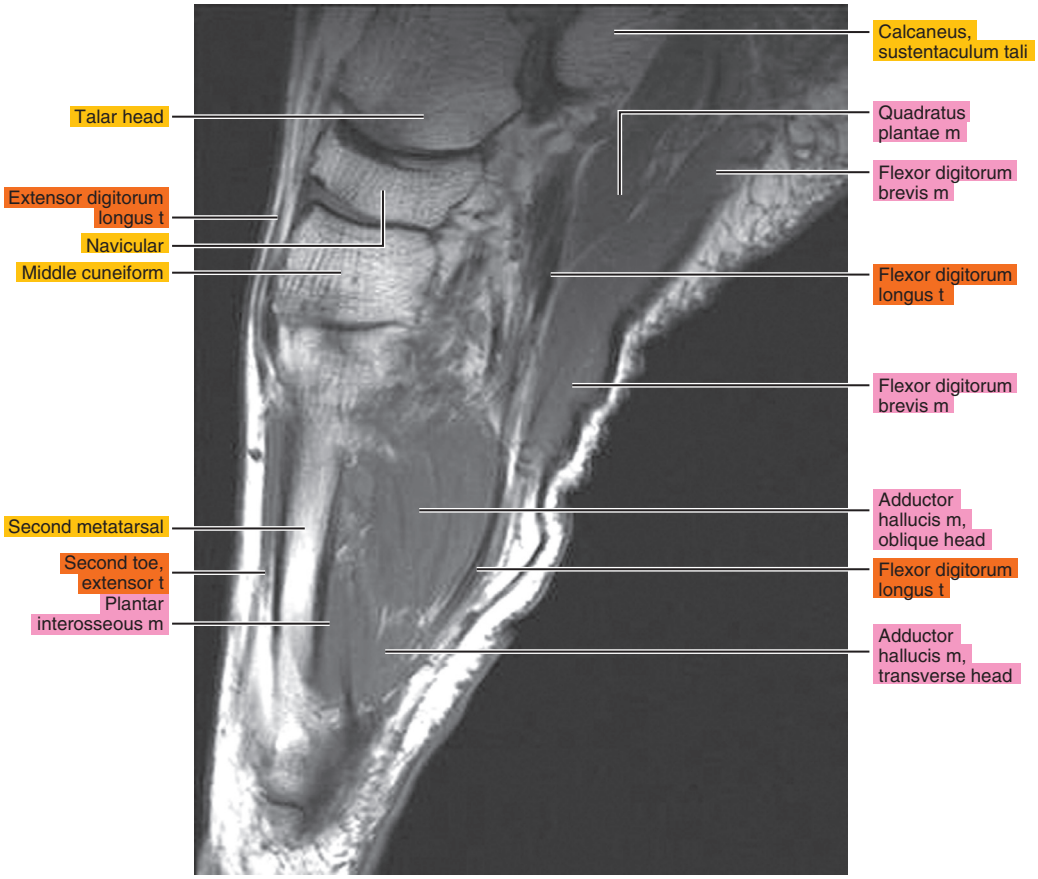

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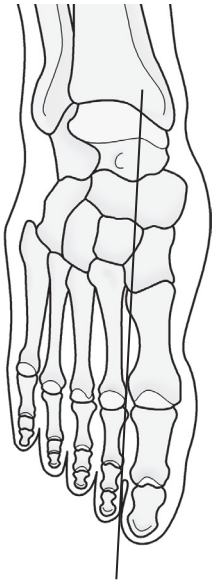

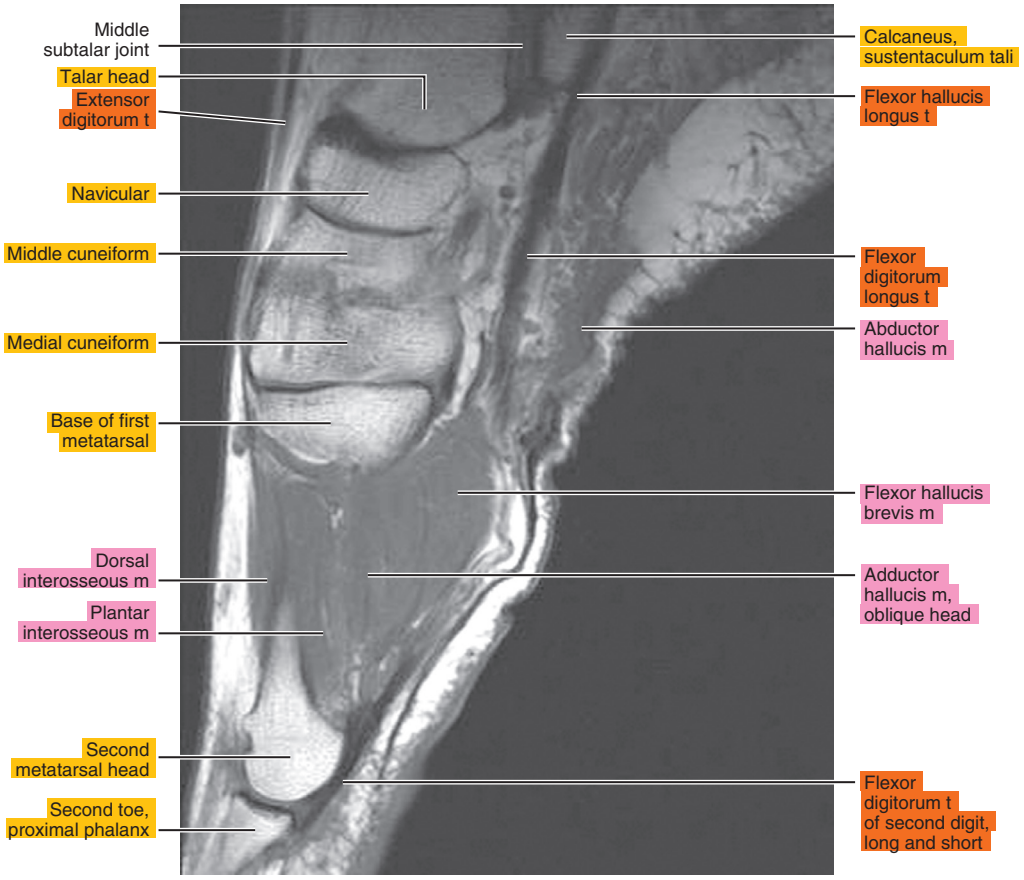

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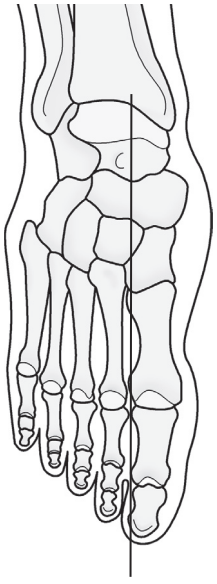

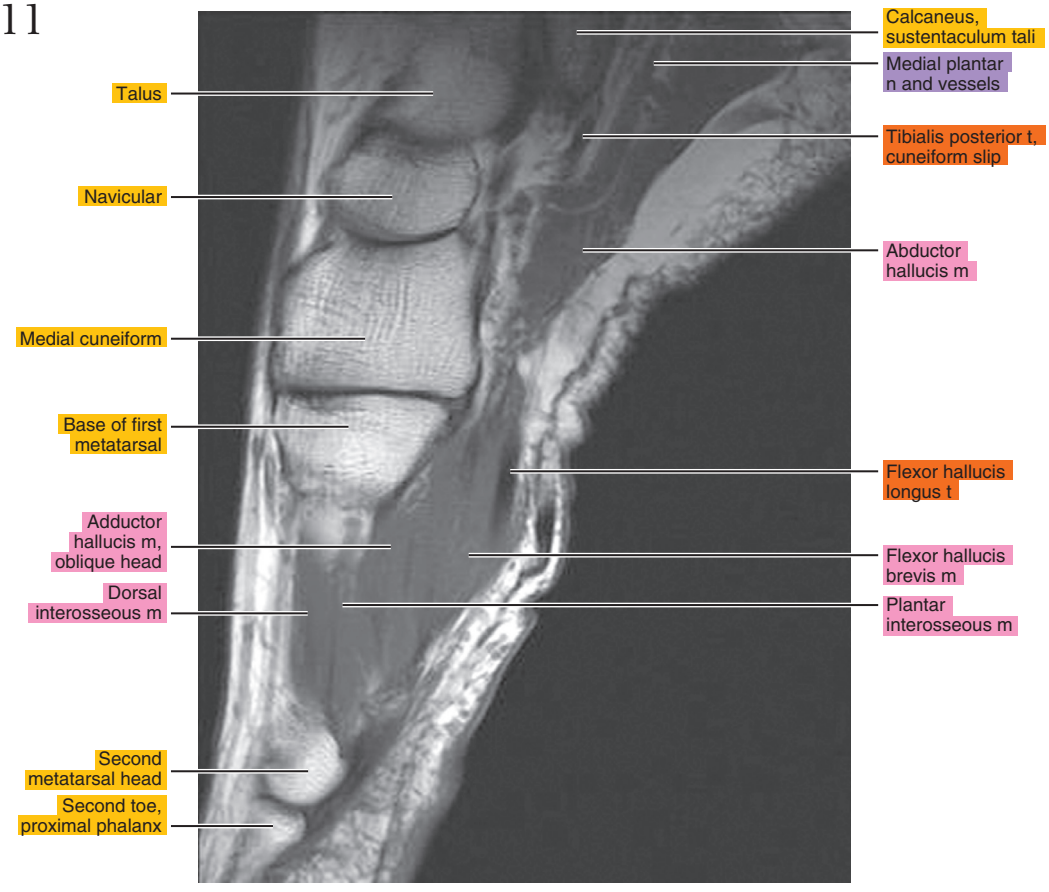

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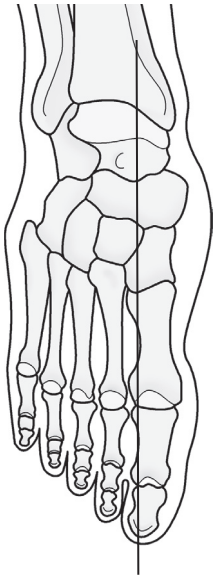

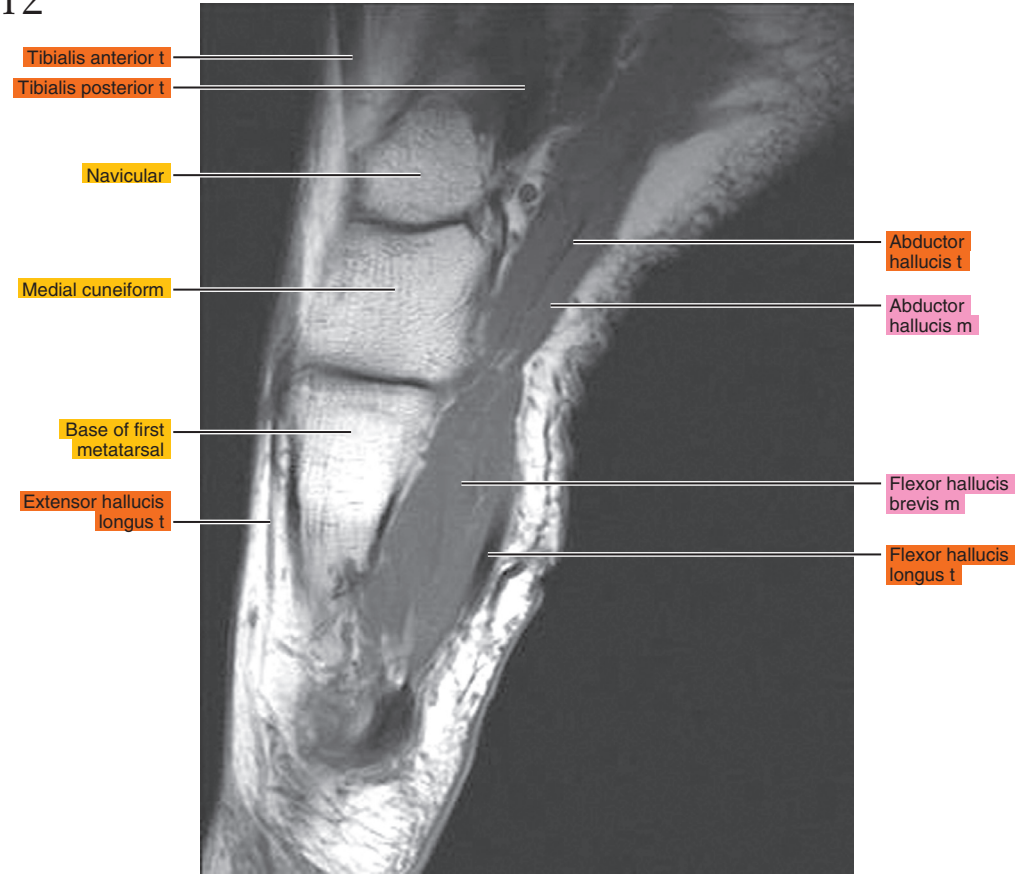

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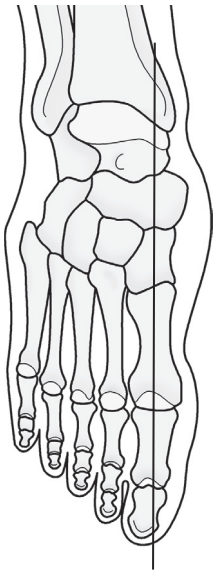

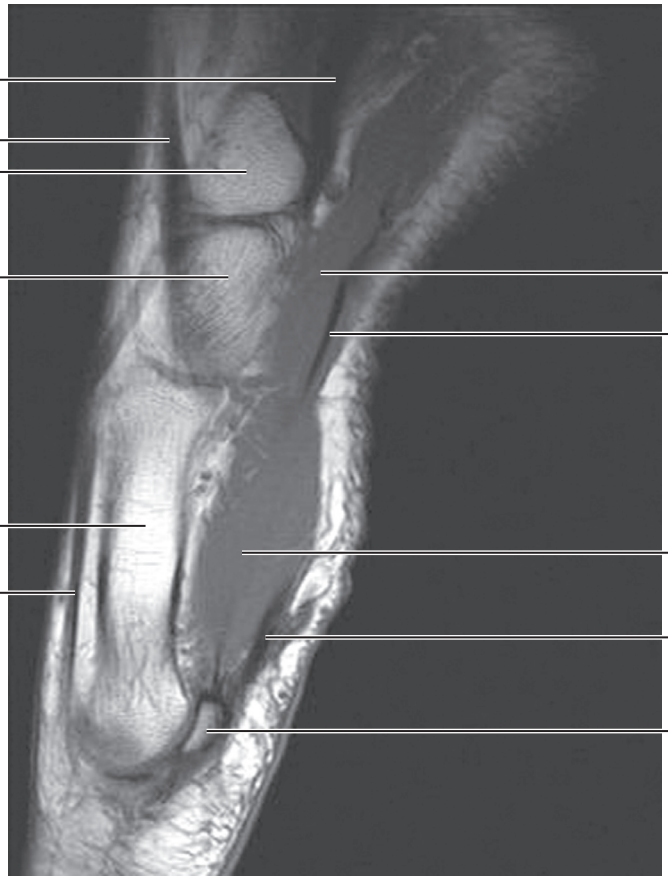

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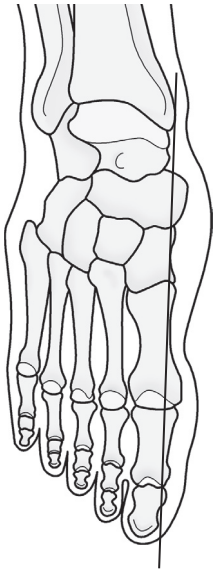

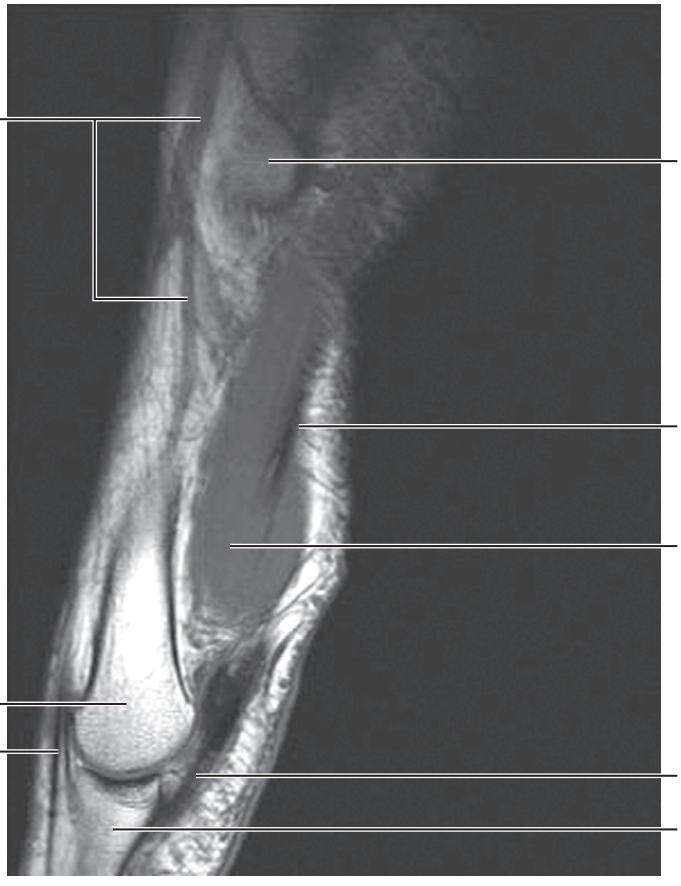

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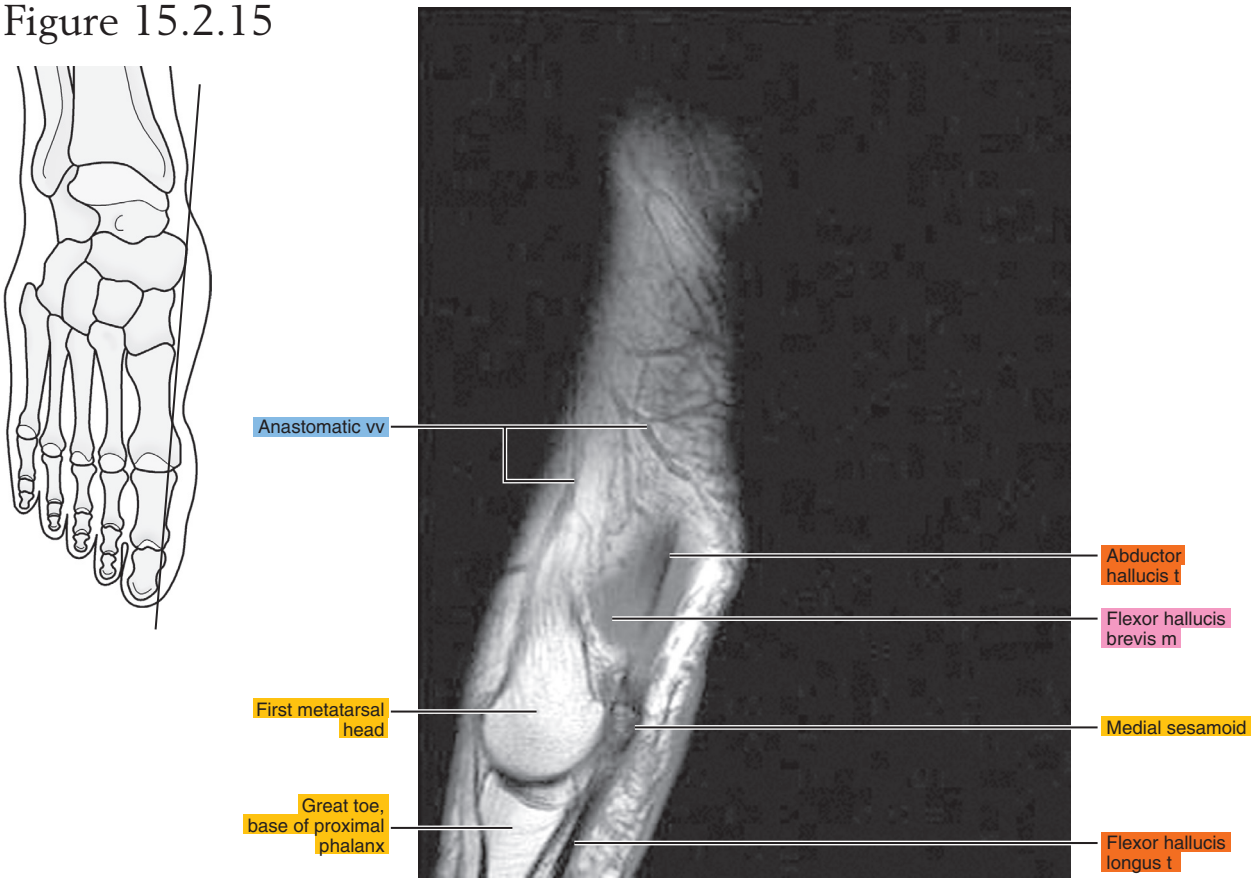

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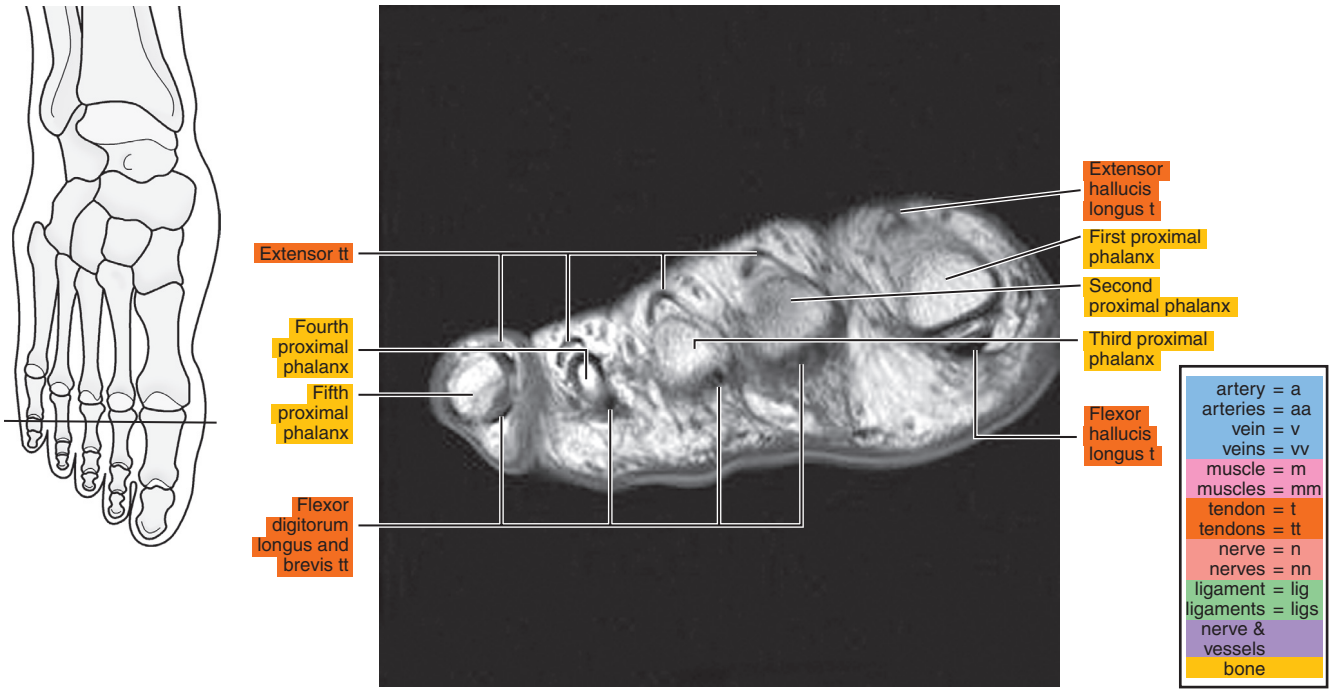

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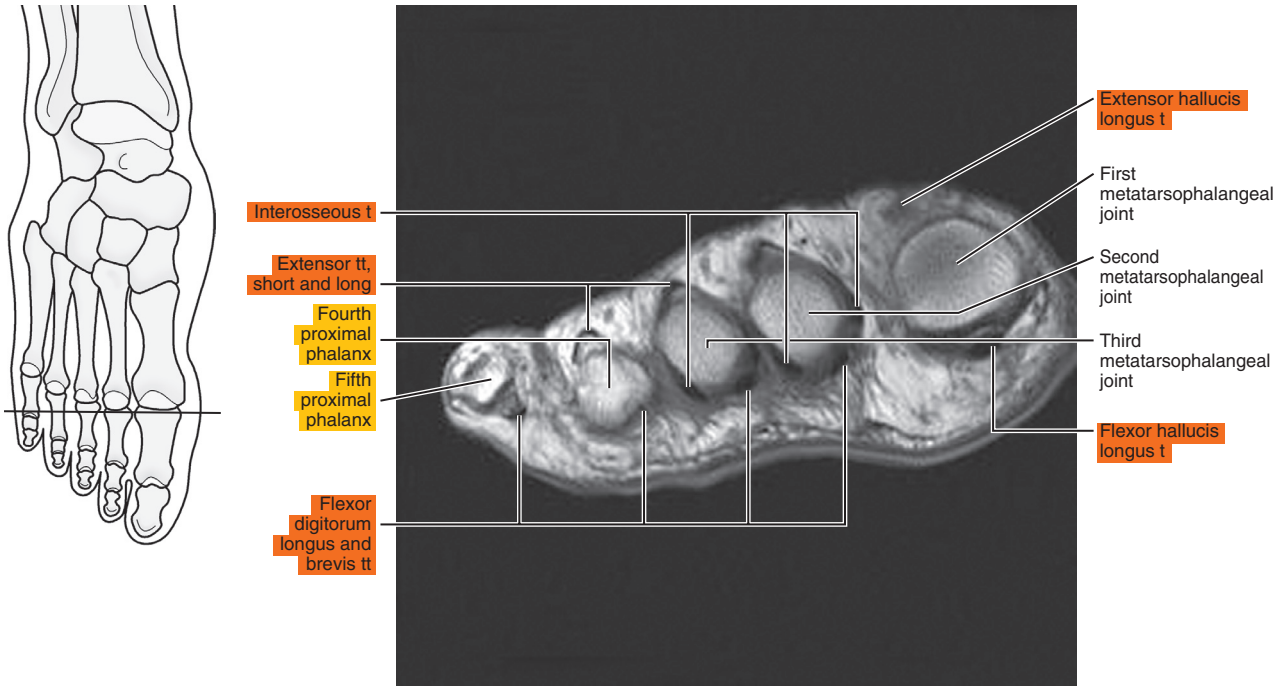

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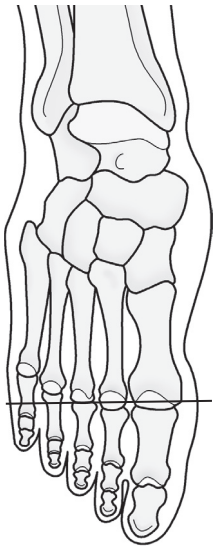

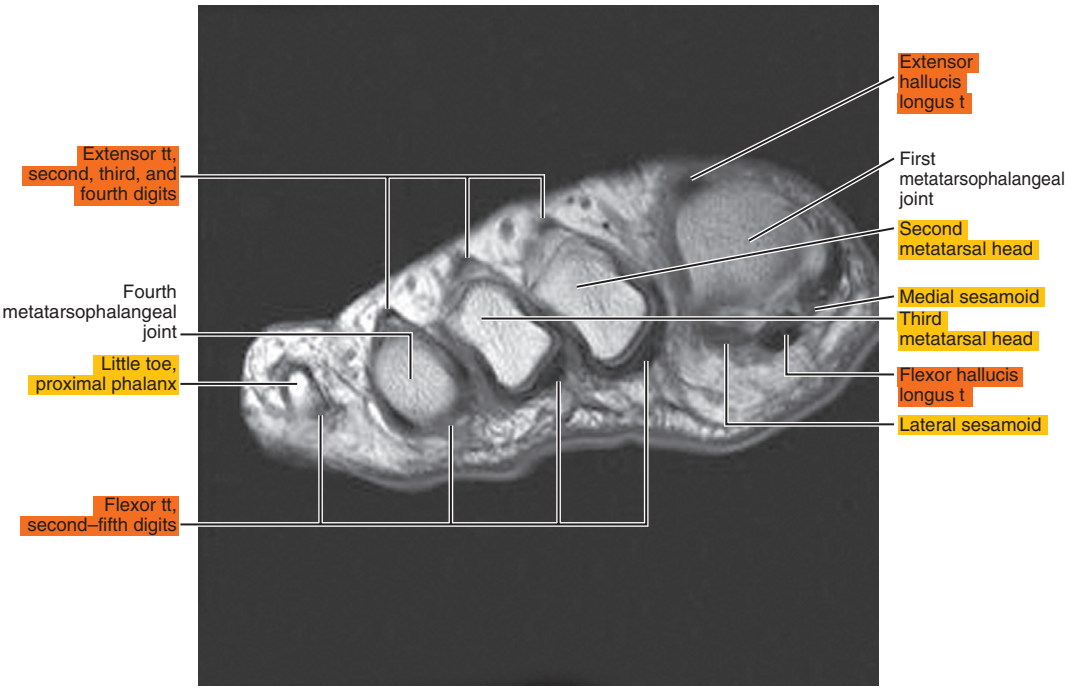

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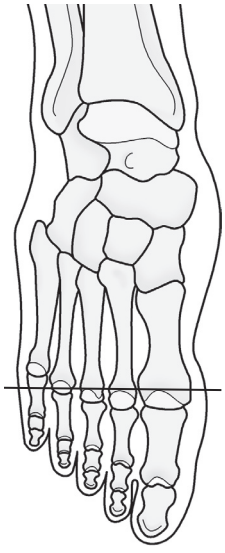

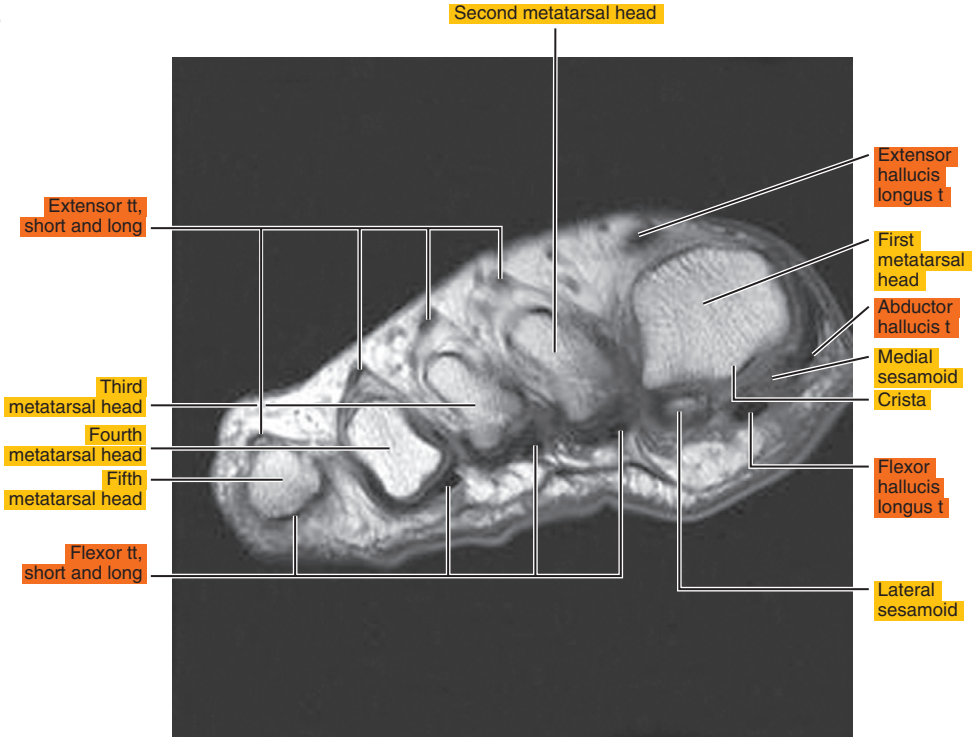

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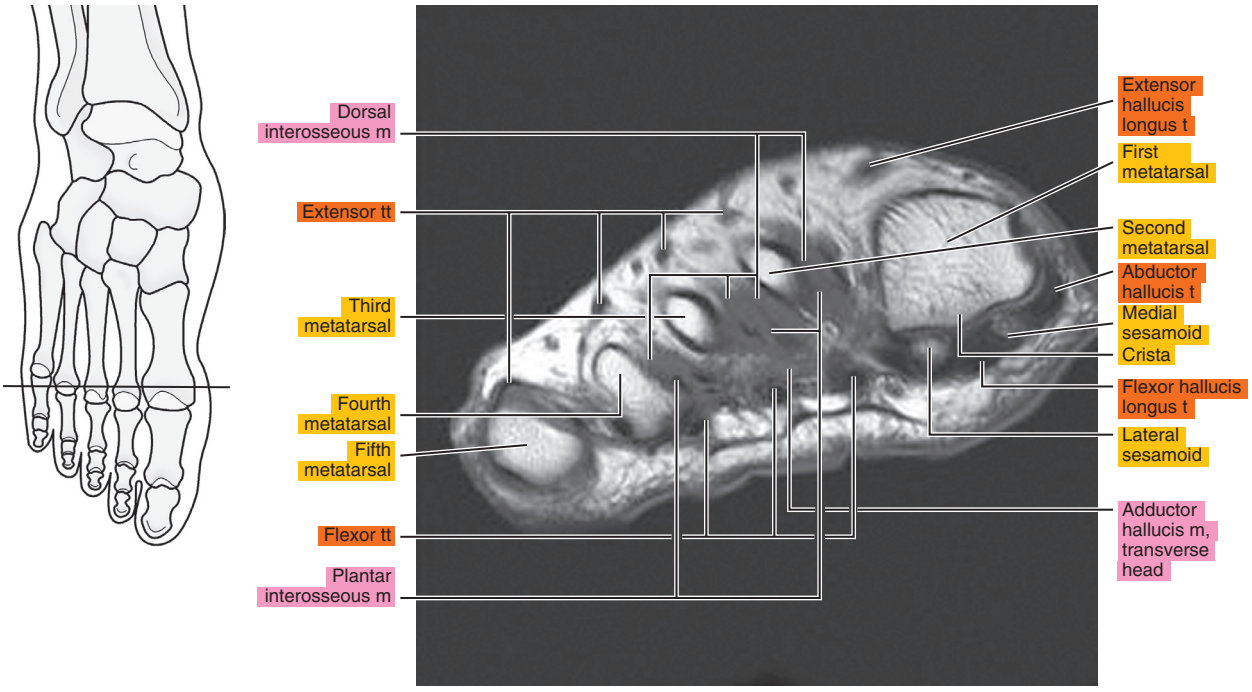

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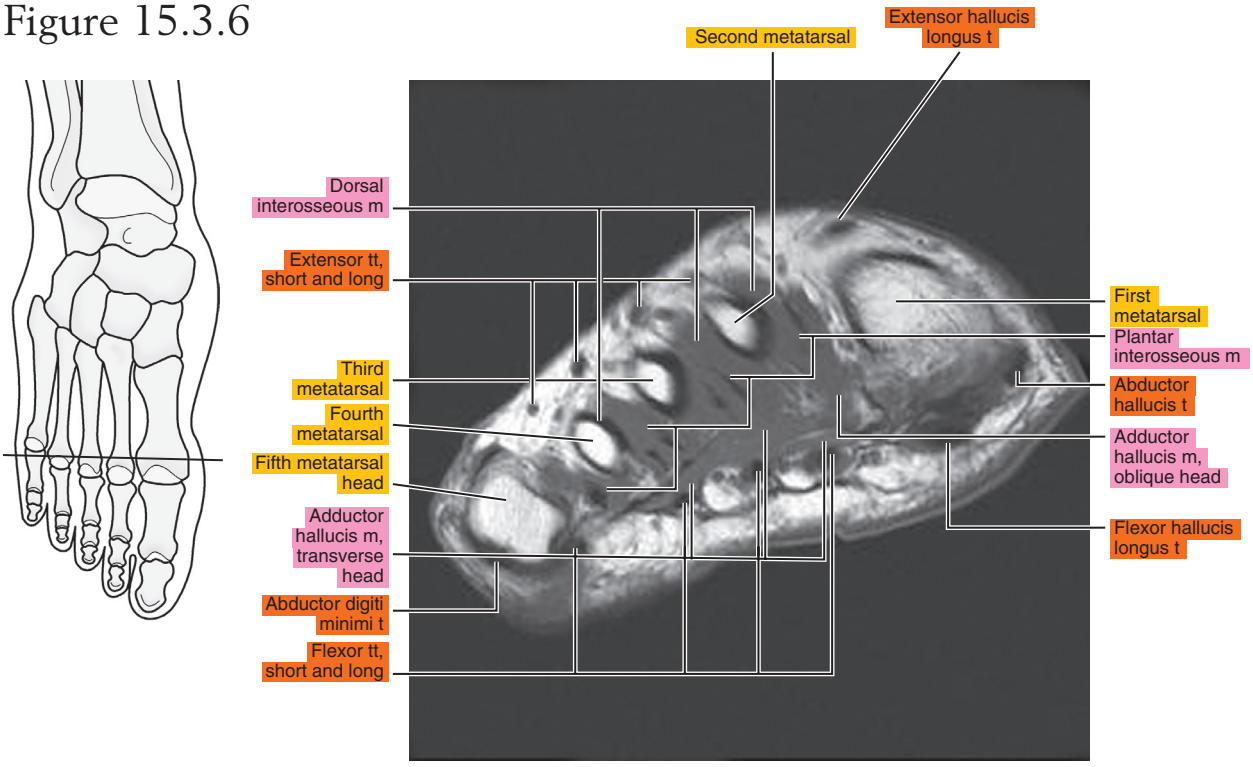

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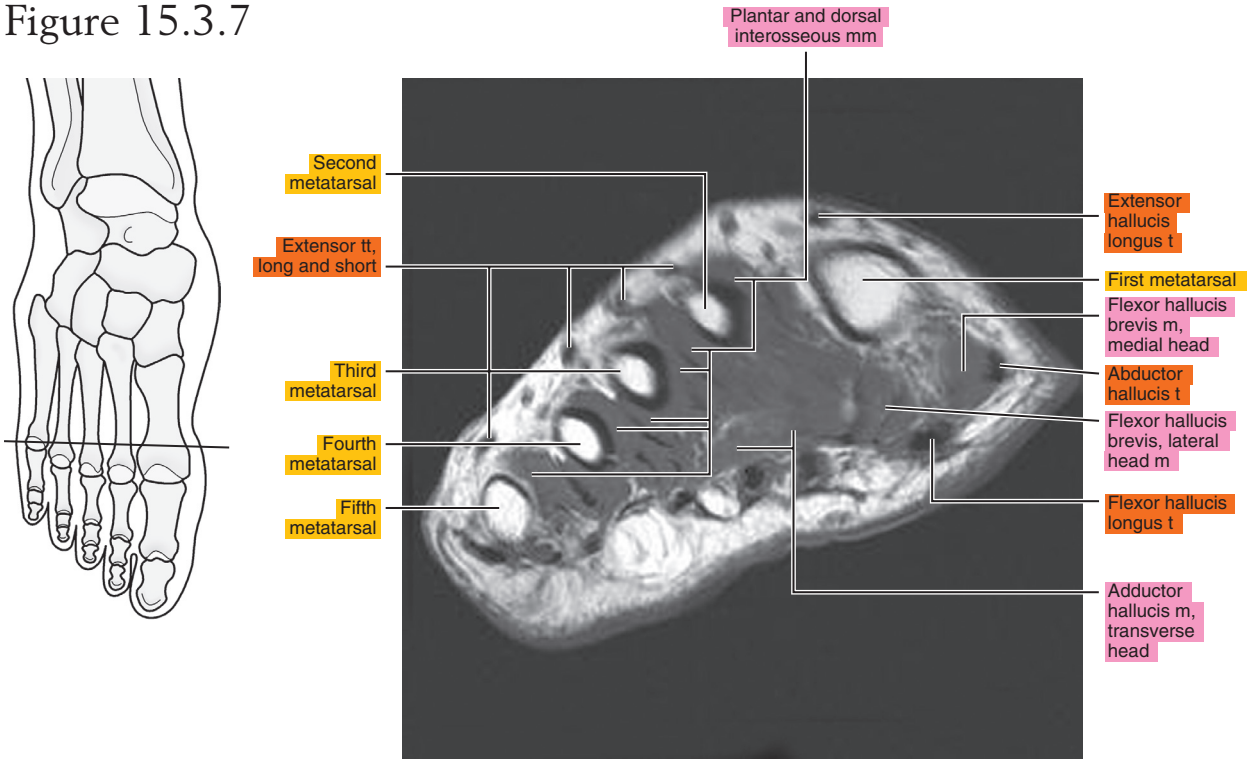

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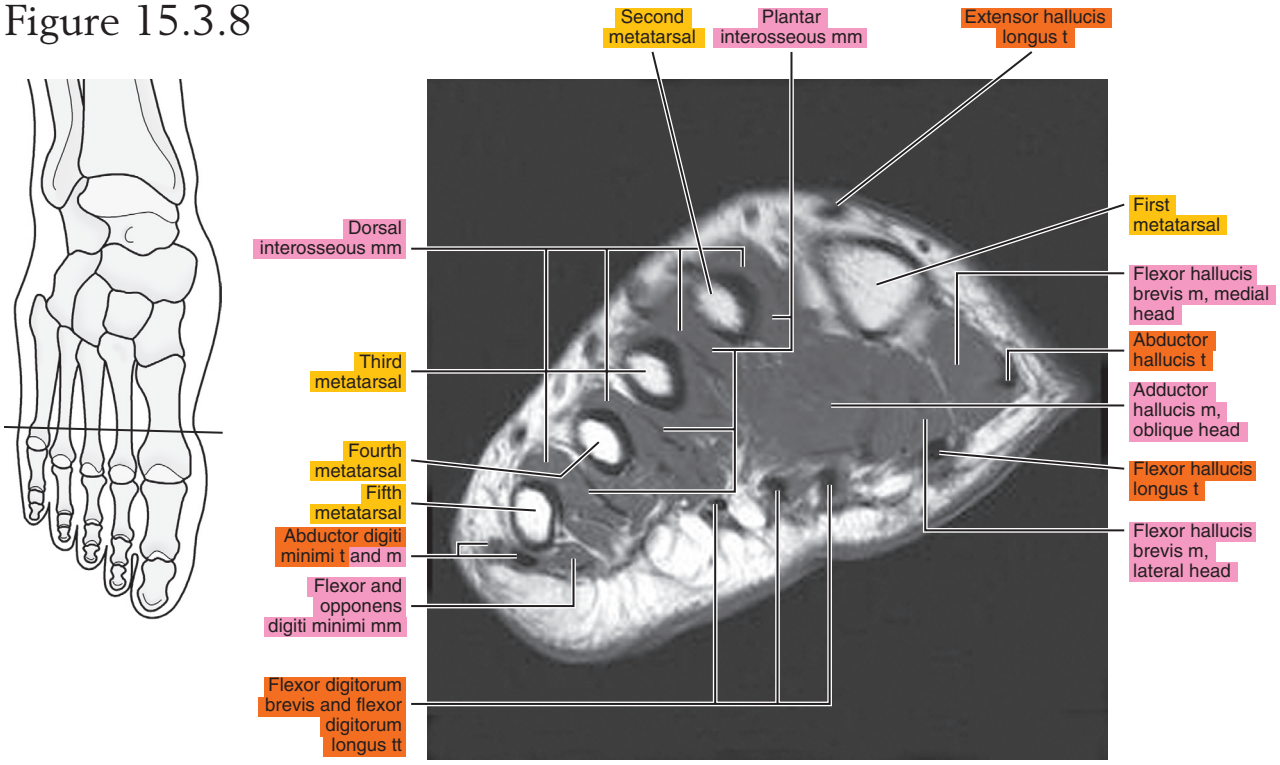

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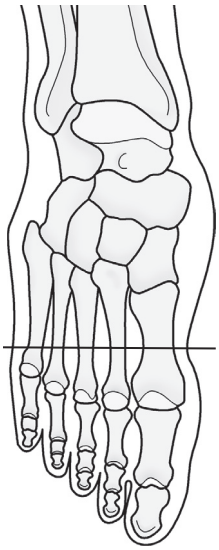

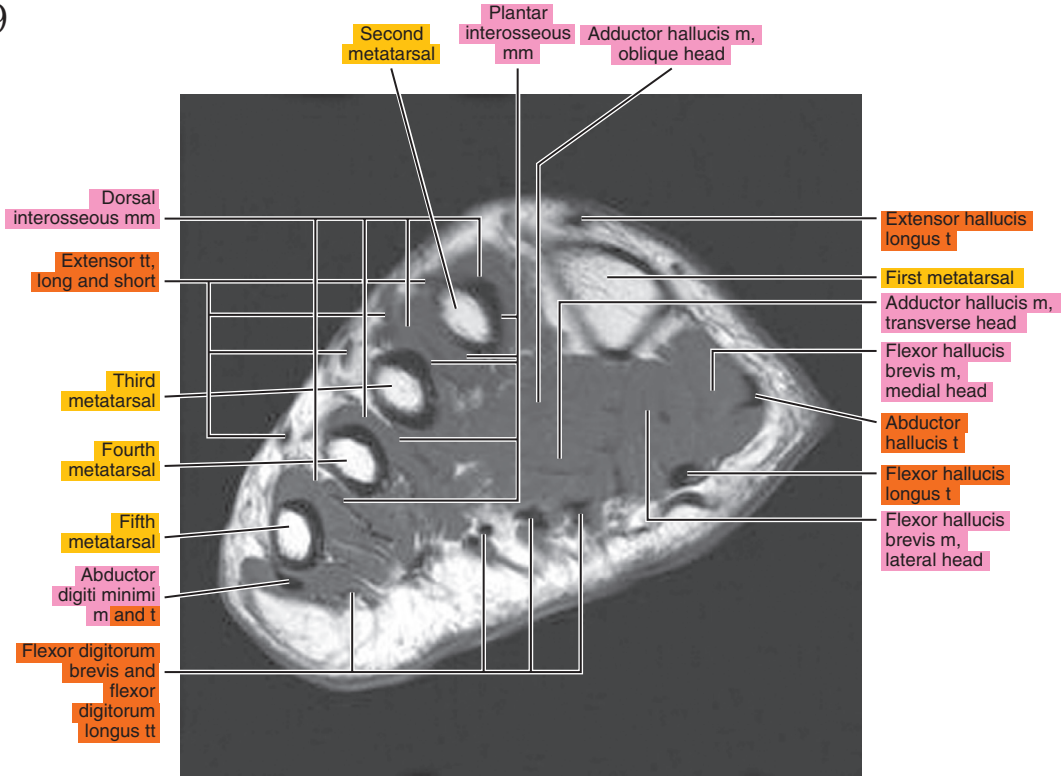

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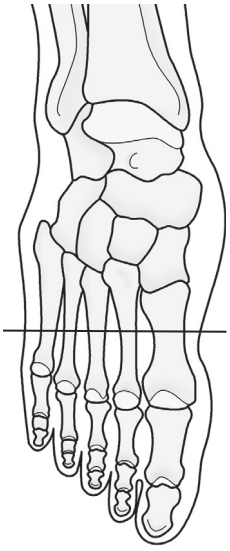

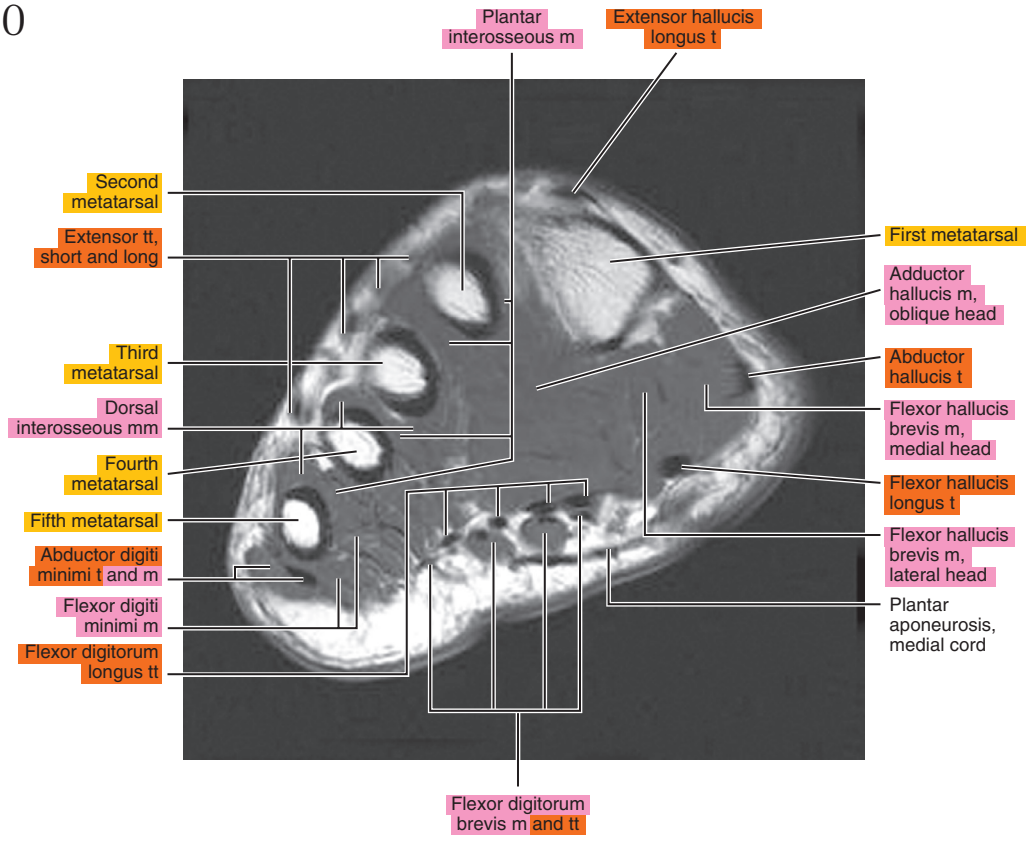

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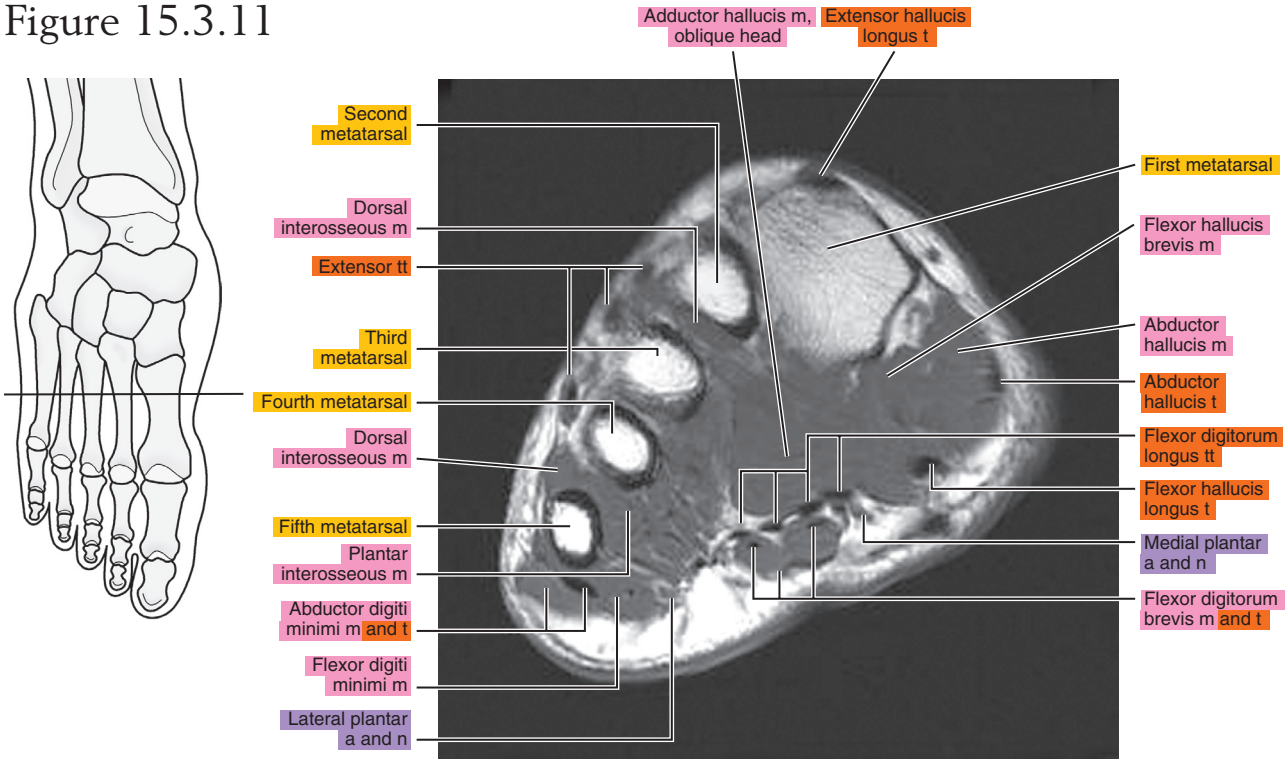

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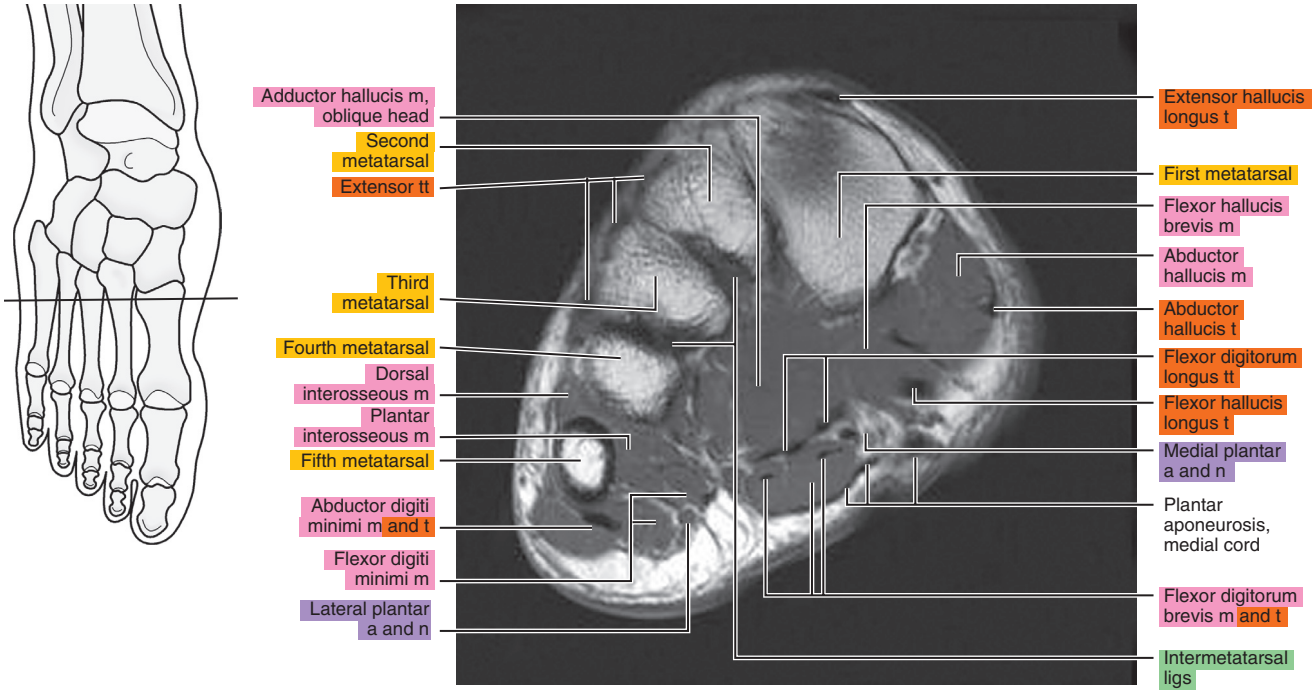

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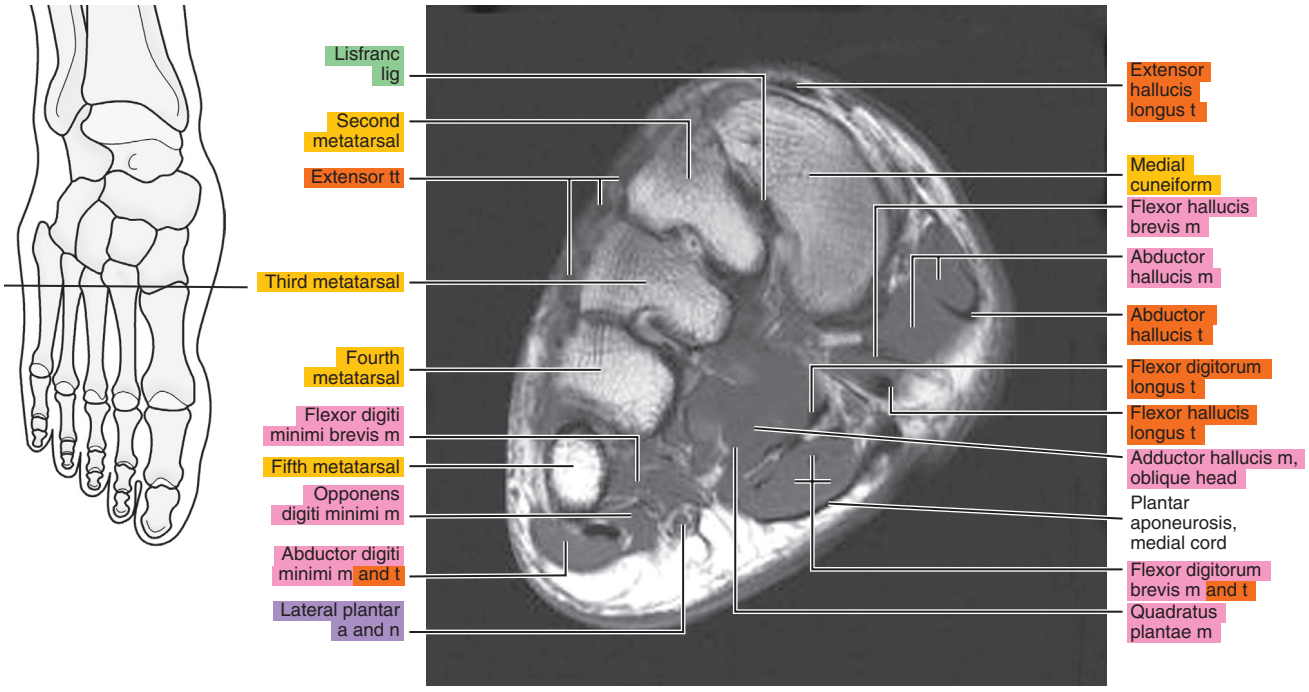

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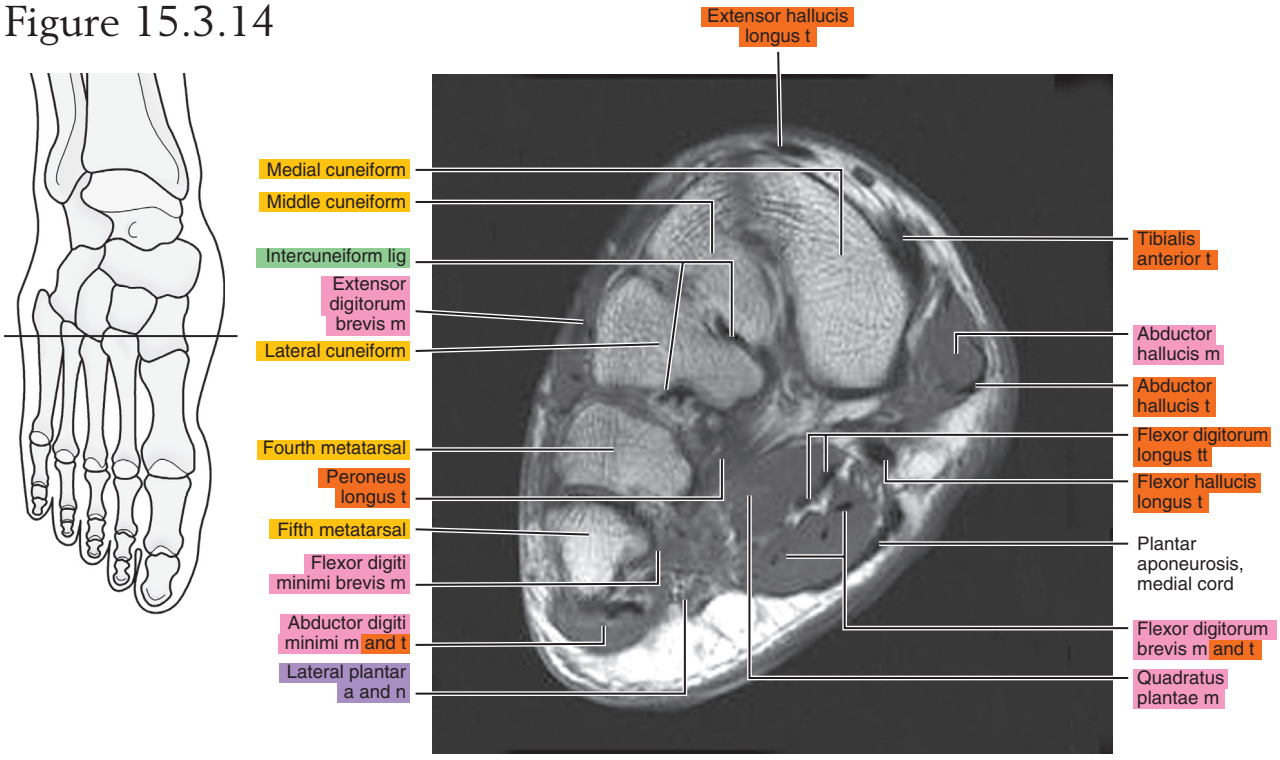

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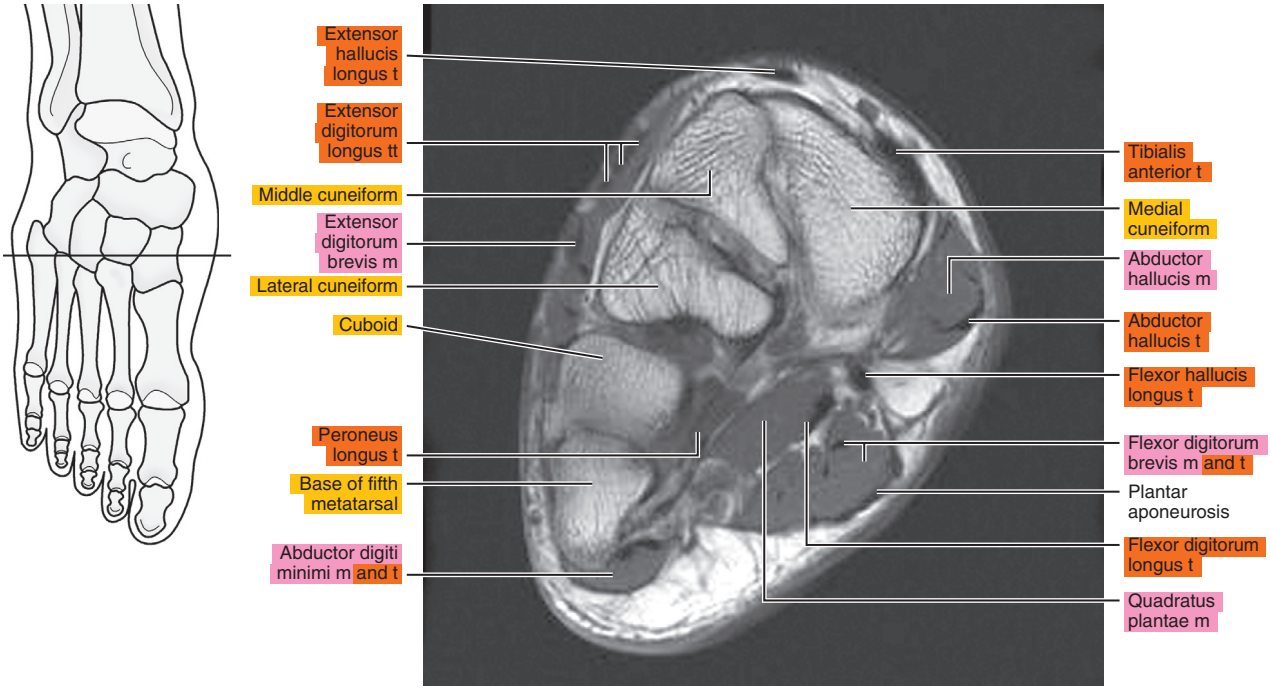

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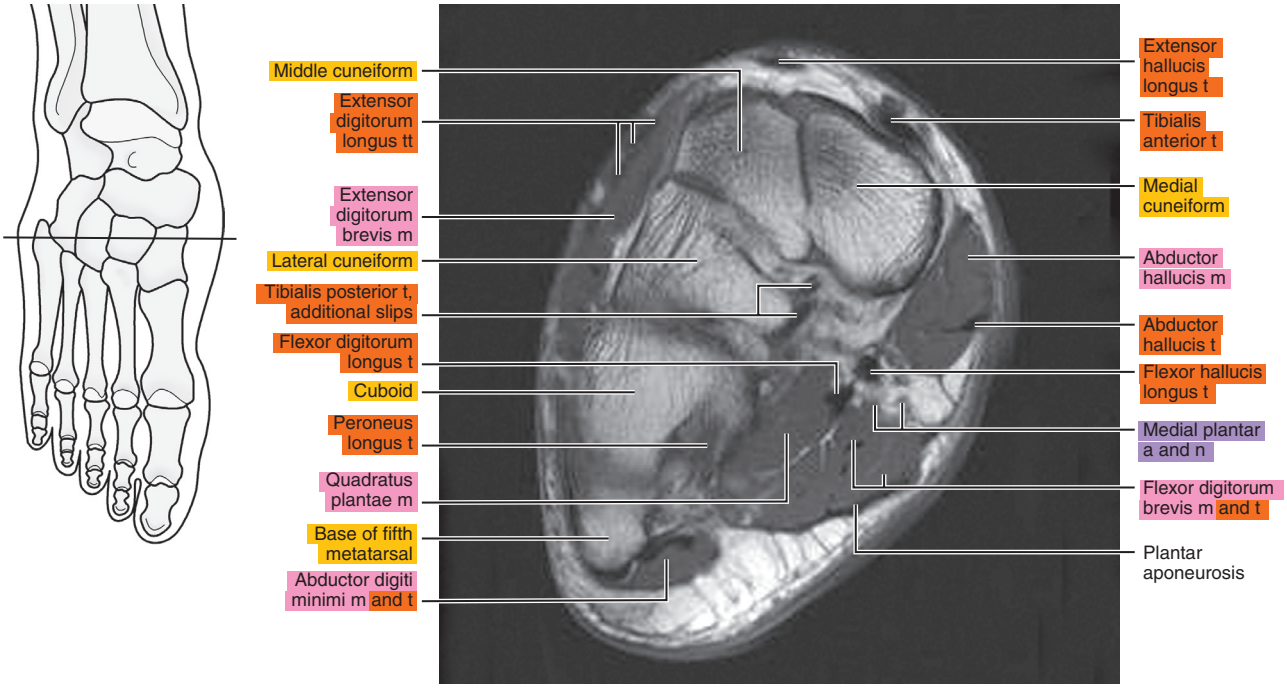

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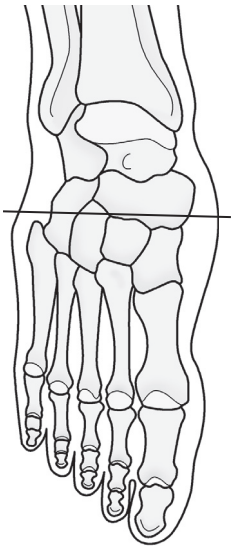

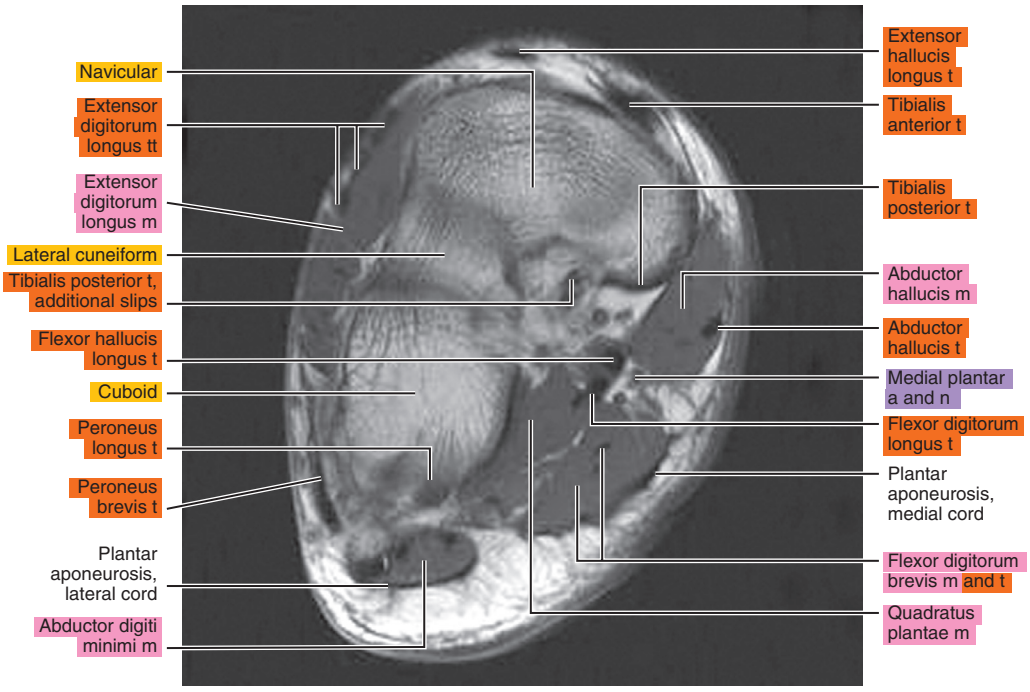

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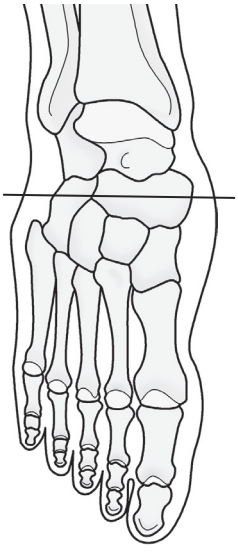

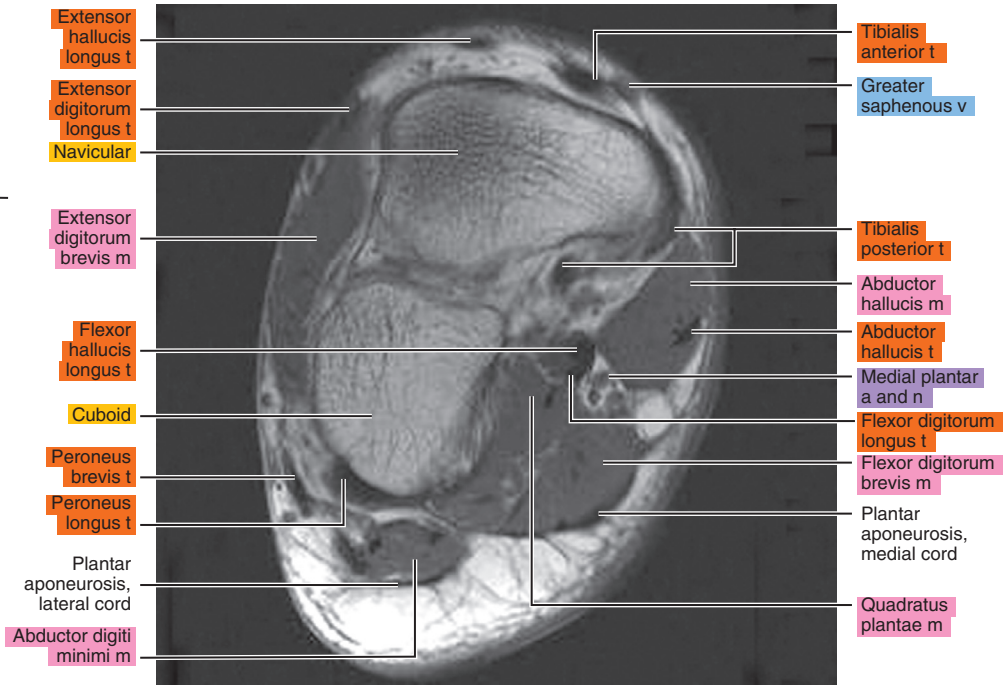

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Section

III

Spine and Back

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Chapter

16

MRI of the Thoracic Spine

Table 16-1. Muscles of the Back

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Trapezius	Medial third of the superior nuchal line, external occipital protuberance, ligamentum nuchae, spinous processes of the seventh cervical and thoracic vertebrae, and corresponding supraspinous ligaments	Lateral third of the posterior surface of the clavicle, medial side of the acromion, and upper border of the spine of the scapula	Accessory and cervical plexus
Rhomboideus major	Spinous processes and corresponding supraspinous ligaments of the first four thoracic vertebrae	Medial border of the scapula below the scapular spine	Dorsal scapular
Rhomboideus minor	Spinous processes of the sixth and seventh cervical vertebrae	Medial margin of the scapula above the scapular spine	Dorsal scapular
Levator scapulae	Posterior tubercles of the transverse processes of the four upper cervical vertebrae	Superior angle of the scapula	Dorsal scapular
Serratus posterior superior	From spinous processes of the two lower cervical and two upper thoracic vertebrae	Onto the lateral side of the angles of the second to fifth ribs	First to fourth intercostal
Serratus posterior inferior	With latissimus dorsi, from the spinous processes of the two lower thoracic and two upper lumbar vertebrae	Onto the lower borders of the last four ribs	Ninth to twelfth intercostal
Serratus anterior	From the center of the lateral aspect of the first eight or nine ribs	Superior and inferior angles and intervening medial margin of the scapula	Long thoracic from brachial plexus
Deltoid	Lateral third of the clavicle, lateral border of the acromion process, lower border of the scapular spine	Lateral margin of the proximal half of the humeral shaft	Axillary from fifth and sixth cervical nerves through brachial plexus
Latissimus dorsi	Spinous processes of the lower five or six thoracic and lumbar vertebrae, median ridge of the sacrum, and outer lip of the iliac crest	With teres major, onto the medial border of the bicipital groove of the humerus	Thoracodorsal
Infraspinatus	Infraspinous fossa of the scapula	Middle facet of the greater tuberosity of the humerus	Suprascapular from fifth to sixth cervical
Supraspinatus	Supraspinous fossa of the scapula	Greater tuberosity of the humerus	Suprascapular from fifth to sixth cervical
Teres major	Inferior angle and lower third of the border of the scapula	Medial border of the bicipital groove of the humerus	Lower subscapular from fifth and sixth cervical
Teres minor	Upper two thirds of the lateral border of the scapula	Lower facet of the greater tuberosity of the humerus	Axillary from fifth and sixth cervical
Spinalis capitis	Rarely a separate muscle; it arises with the semispinalis capitis from the upper thoracic spinous process	Inserts with the semispinalis capitis on the occiput	Branches of the dorsal primary divisions of the spinal nerves
Spinalis cervicis	Spinous processes of the sixth and seventh cervical vertebrae	Spinous processes of the axis and the third cervical vertebra	Dorsal branches of cervical
Spinalis thoracis	Spinous processes of the upper lumbar and two lower thoracic vertebrae	Spinous processes of the middle and upper thoracic vertebrae	Dorsal branches of thoracic and upper lumbar

Table 16-1. Muscles of the Back—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Iliocostalis cervicis	Angles of the upper six ribs	Transverse processes of the middle cervical vertebrae	Dorsal branches of upper thoracic
Iliocostalis thoracis	Medial side of the angles of the lower six ribs	Angles of the upper six ribs	Dorsal branches of thoracic
Iliocostalis lumborum	With erector spinae, from the sacrum, ilium, and spines of the lumbar vertebrae	Angles of the lower six ribs	Dorsal branches of thoracic and lumbar nerves
Longissimus capitis	From the transverse processes of the upper thoracic and transverse and articular processes of the lower and middle cervical vertebrae	Onto the mastoid process	Dorsal branches of cervical
Longissimus cervicis	Transverse processes of the upper thoracic vertebrae	Transverse processes of the middle and upper cervical vertebrae	Dorsal branches of lower cervical and upper thoracic
Longissimus thoracis	With the iliocostalis and from the transverse processes of the lower thoracic vertebrae	By lateral slips onto most or all of the ribs between the angles and the tubercles and onto the tips of the transverse processes of the upper lumbar vertebrae, and by medial slips into the accessory processes of the upper lumbar and transverse processes of the thoracic vertebrae	Dorsal branches of thoracic and lumbar
Splenius capitis	From the ligamentum nuchae of the last four cervical vertebrae and the supraspinous ligament of first and second thoracic vertebrae	Lateral half of the superior nuchal line and mastoid process	Dorsal branches of second to sixth cervical
Splenius cervicis	From the supraspinous ligament and the spinous processes of the third to fifth thoracic vertebrae	Posterior tubercles of the transverse processes of the first and second (sometimes third) cervical vertebrae	Dorsal branches of fourth to eighth cervical
Semispinalis capitis	Transverse processes of the five or six upper thoracic and articular processes of the four lower cervical vertebrae	Occipital bone between the superior and inferior nuchal lines	Dorsal branches of cervical
Semispinalis cervicis	Transverse processes of the second to fifth thoracic vertebrae	Spinous processes of the axis and the third to fifth cervical vertebrae	Dorsal branches of cervical and thoracic
Semispinalis thoracis	Transverse processes of the fifth to eleventh thoracic vertebrae	Spinous processes of the first four thoracic and fifth and seventh cervical vertebrae	Dorsal branches of cervical and thoracic
Multifidus	From the sacrum, the sacroiliac ligament, mammillary processes of the lumbar vertebrae, transverse processes of the thoracic vertebrae, and articular processes of the last four cervical vertebrae	Onto the spinous processes of all the vertebrae, up to and including the axis	Dorsal branches of spinal
Rotatores	Primarily developed in the thoracic region from the transverse processes of the vertebrae	Into the root of the spinous processes of the next two or three vertebrae above	Dorsal branches of spinal
Interspinales cervicis	Tubercle of the spinous process of the cervical vertebrae	Tubercle of the spinous process of the next superior vertebra	Dorsal branches of cervical

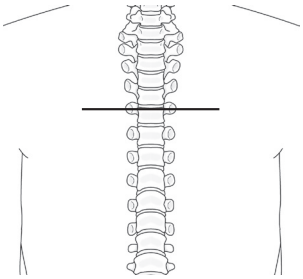
Continued

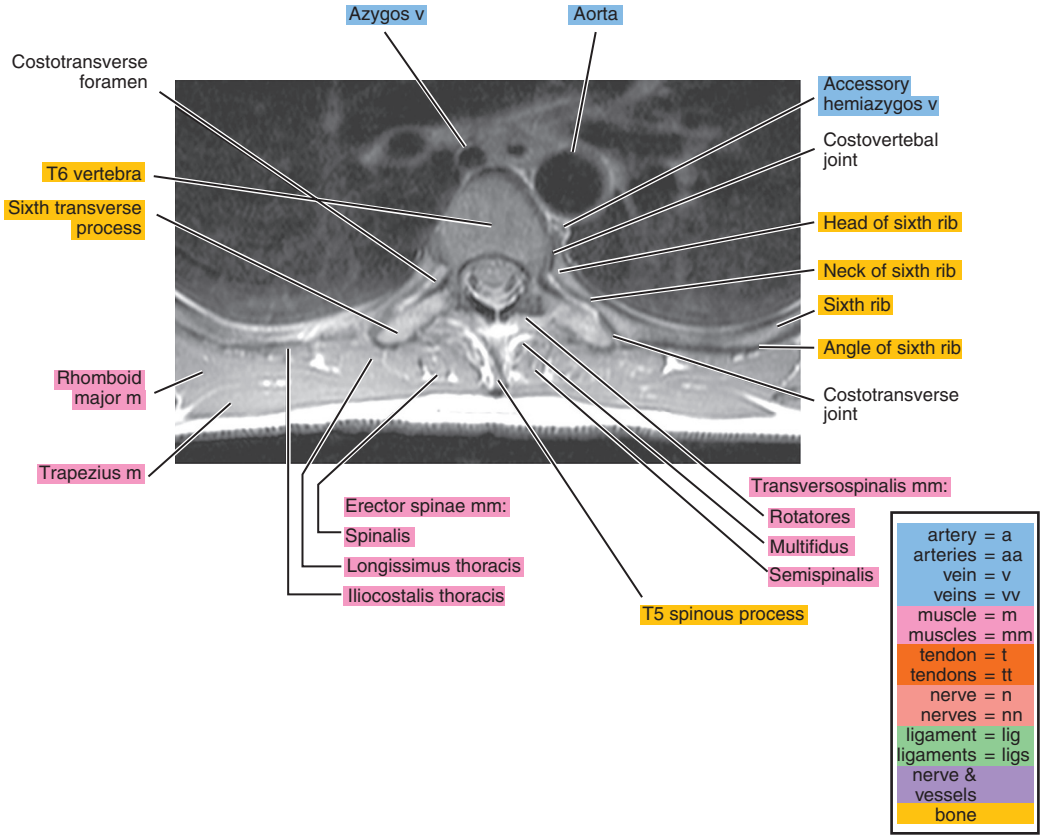
Table 16-1. Muscles of the Back—cont'd

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Interspinales thoracis	Often poorly developed or absent between the spinous processes of the thoracic vertebrae	Spinous processes of thoracic vertebrae	Dorsal branches of thoracic
Interspinales lumborum	Superior margin of the lumbar spinous processes	Inferior margin of the next superior spinous process	Dorsal branches of lumbar
Intertransversarii anteriores cervicis	Anterior tubercle of the cervical transverse process	Anterior tubercle of the next superior transverse process	Ventral branch of cervical
Intertransversarii laterales lumbar	Transverse processes of the lumbar vertebrae	Next superior transverse process	Ventral branches of lumbar
Intertransversarii thoracis	Transverse processes of the thoracic vertebrae	Next superior transverse process	Dorsal branches of thoracic

AXIAL

Figure 16.1.1





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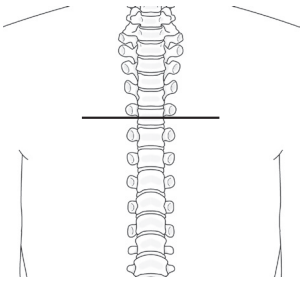

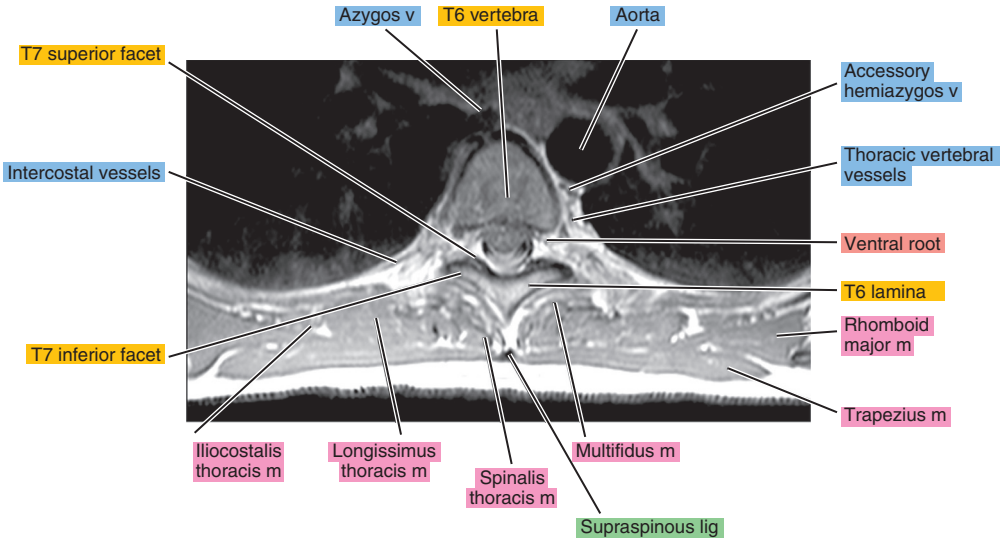

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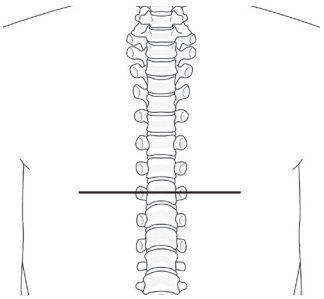

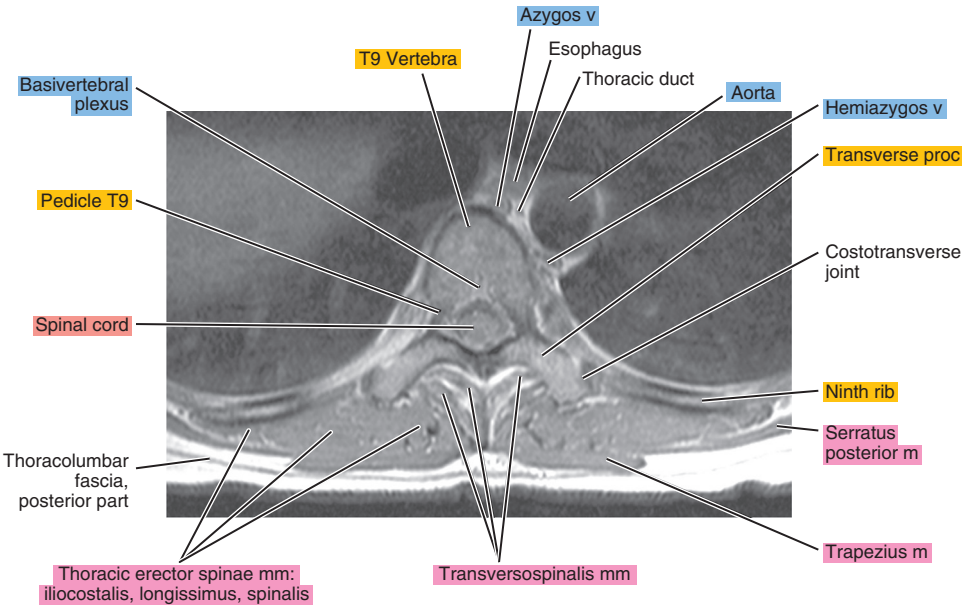

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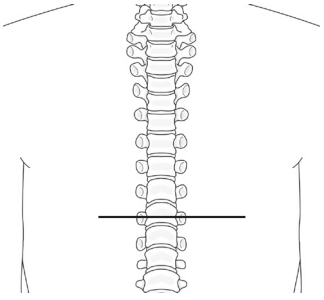

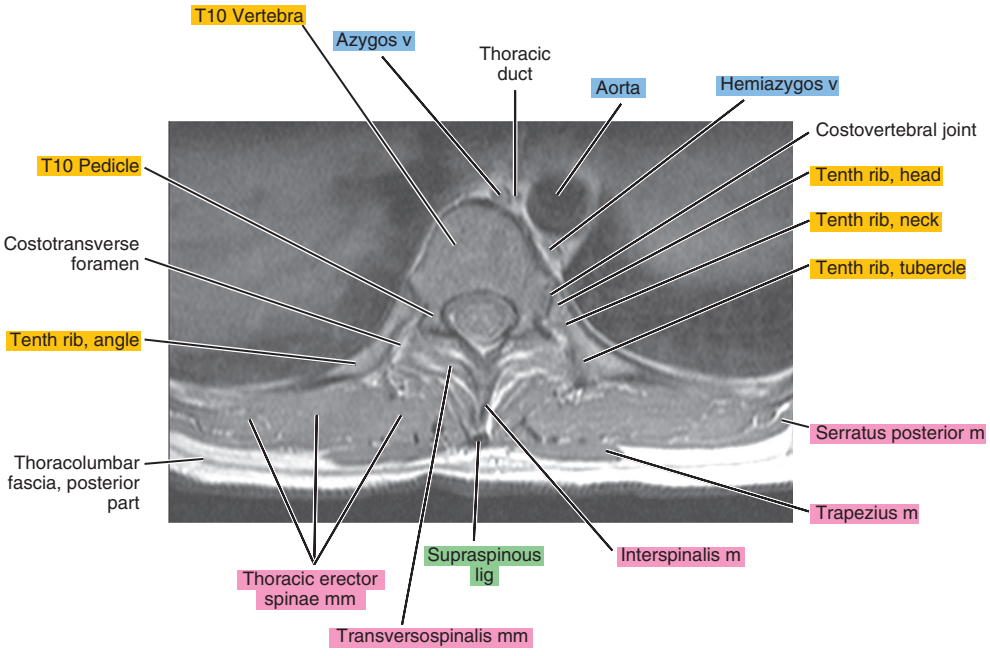

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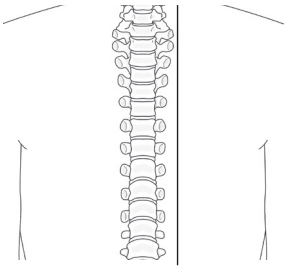

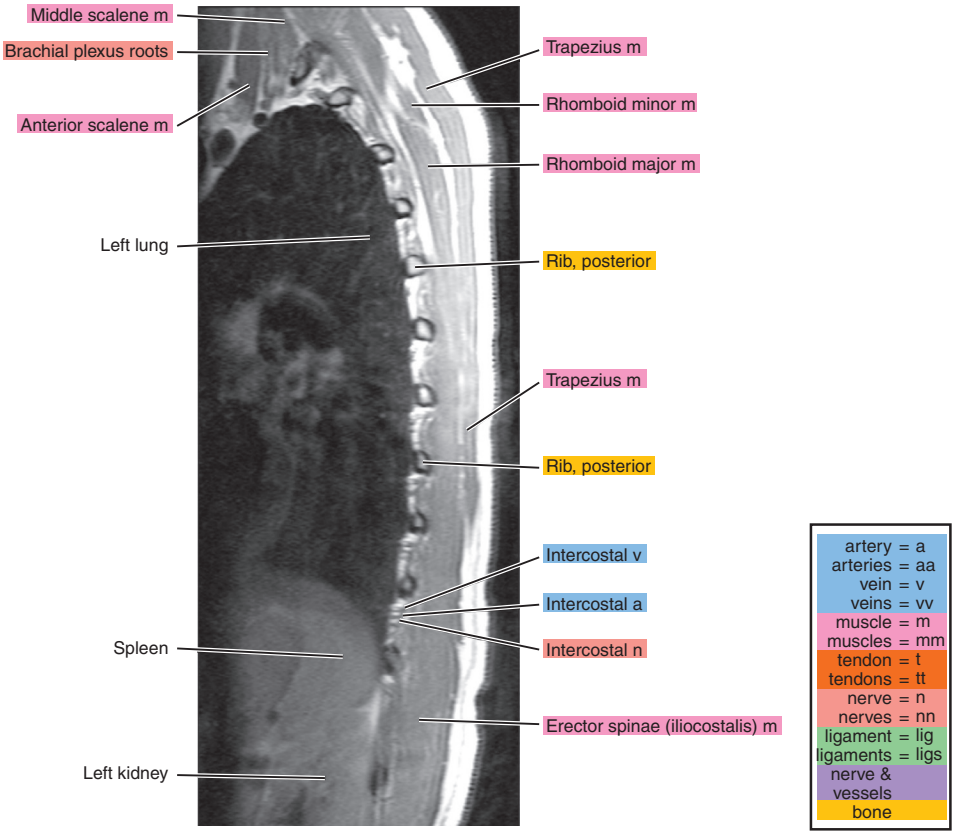

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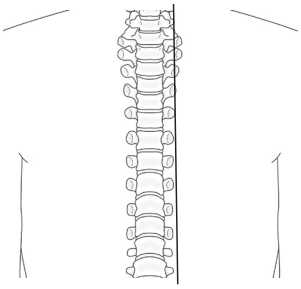

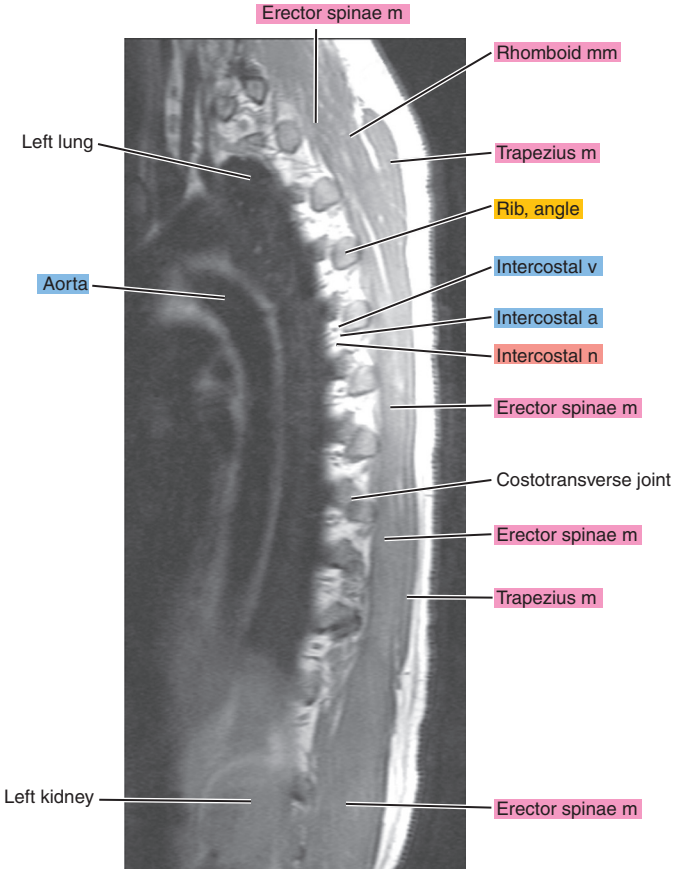

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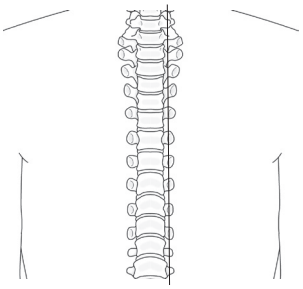


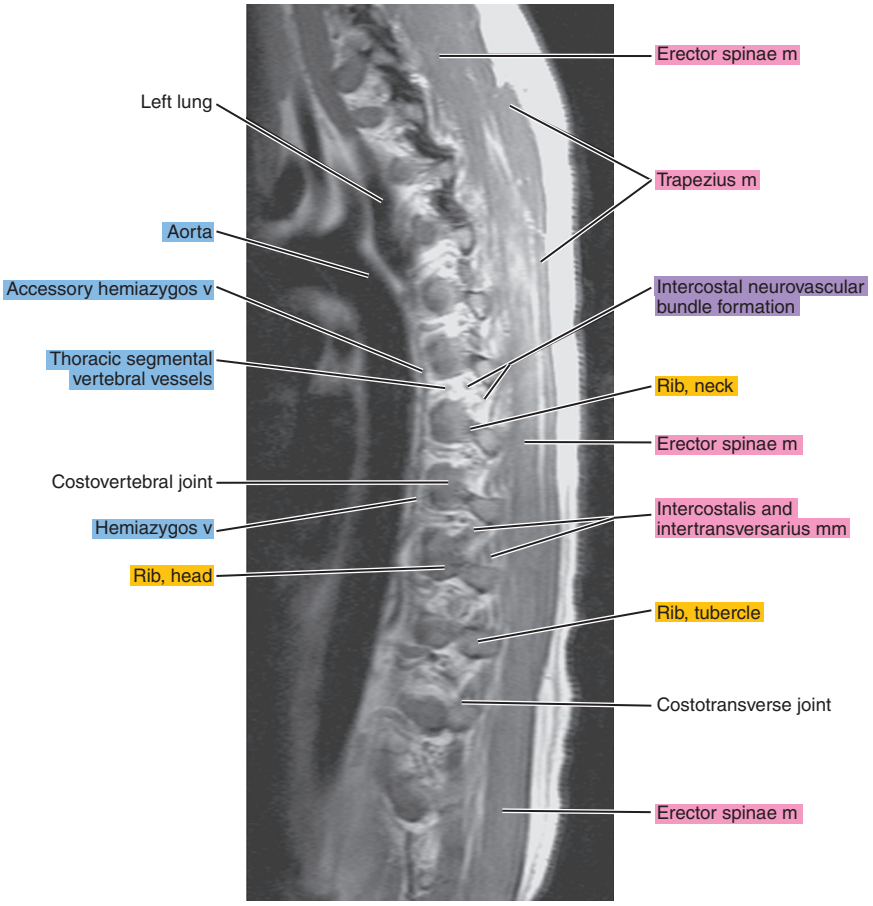
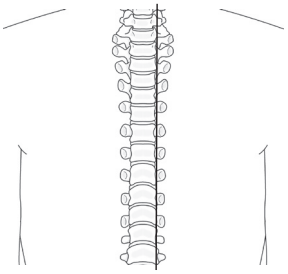
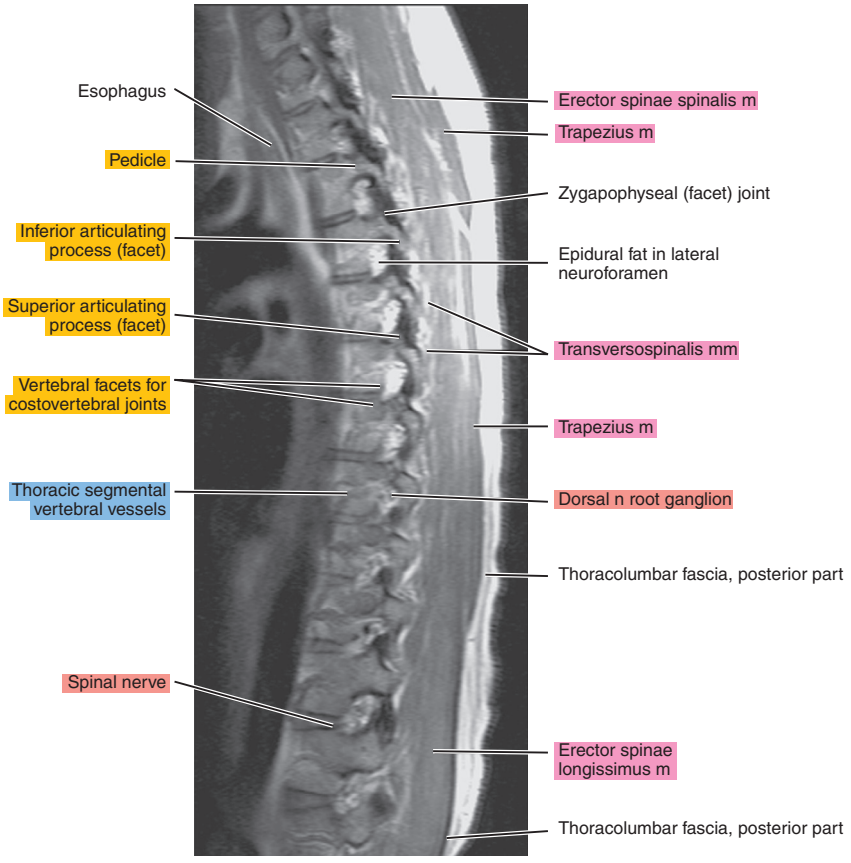


Figure 16.2.4





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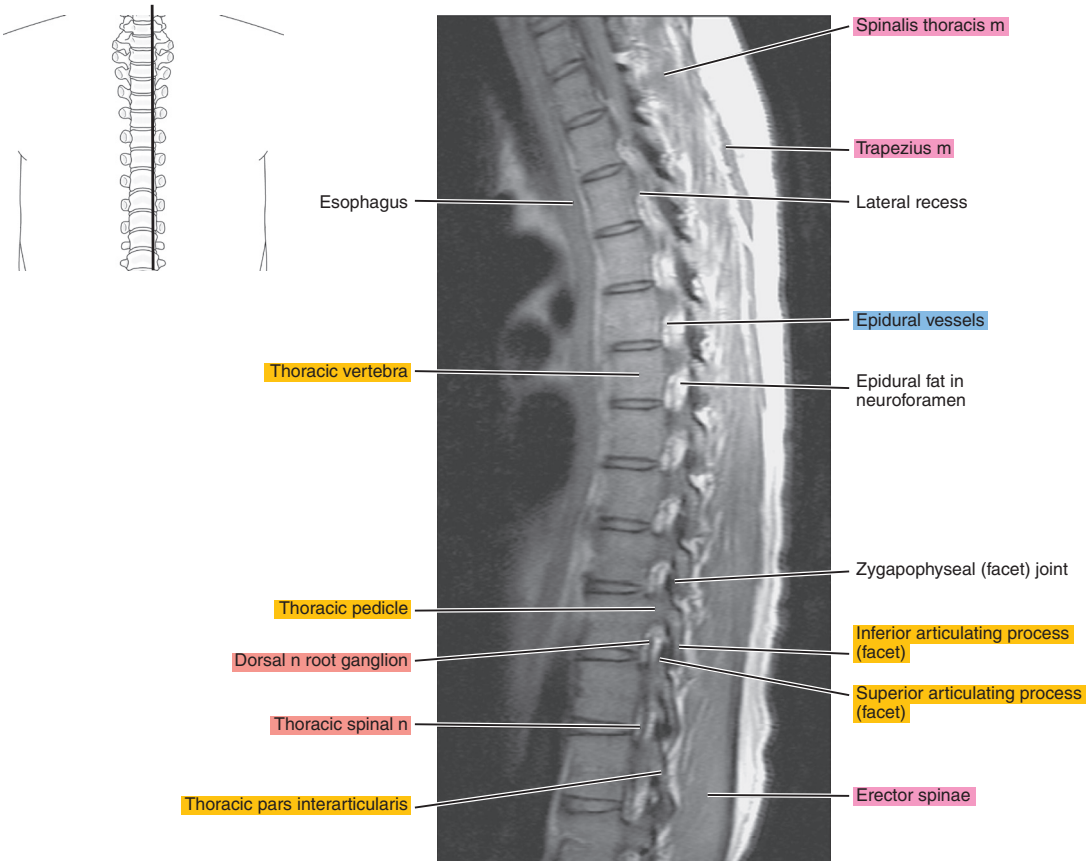

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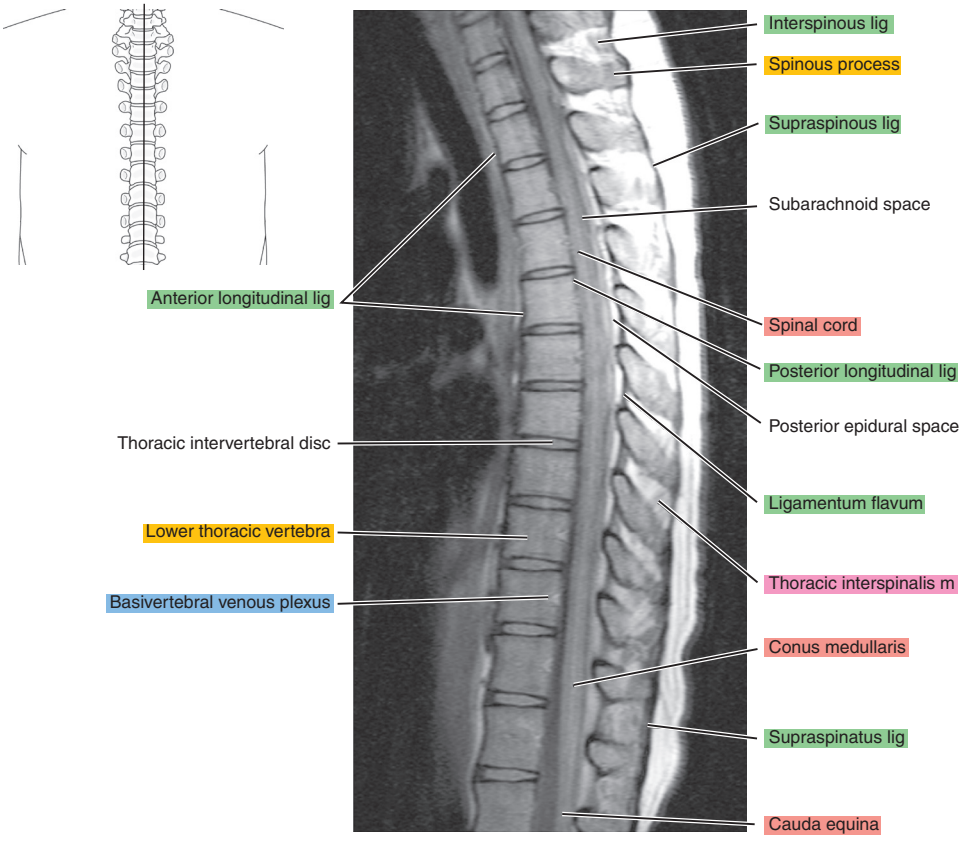
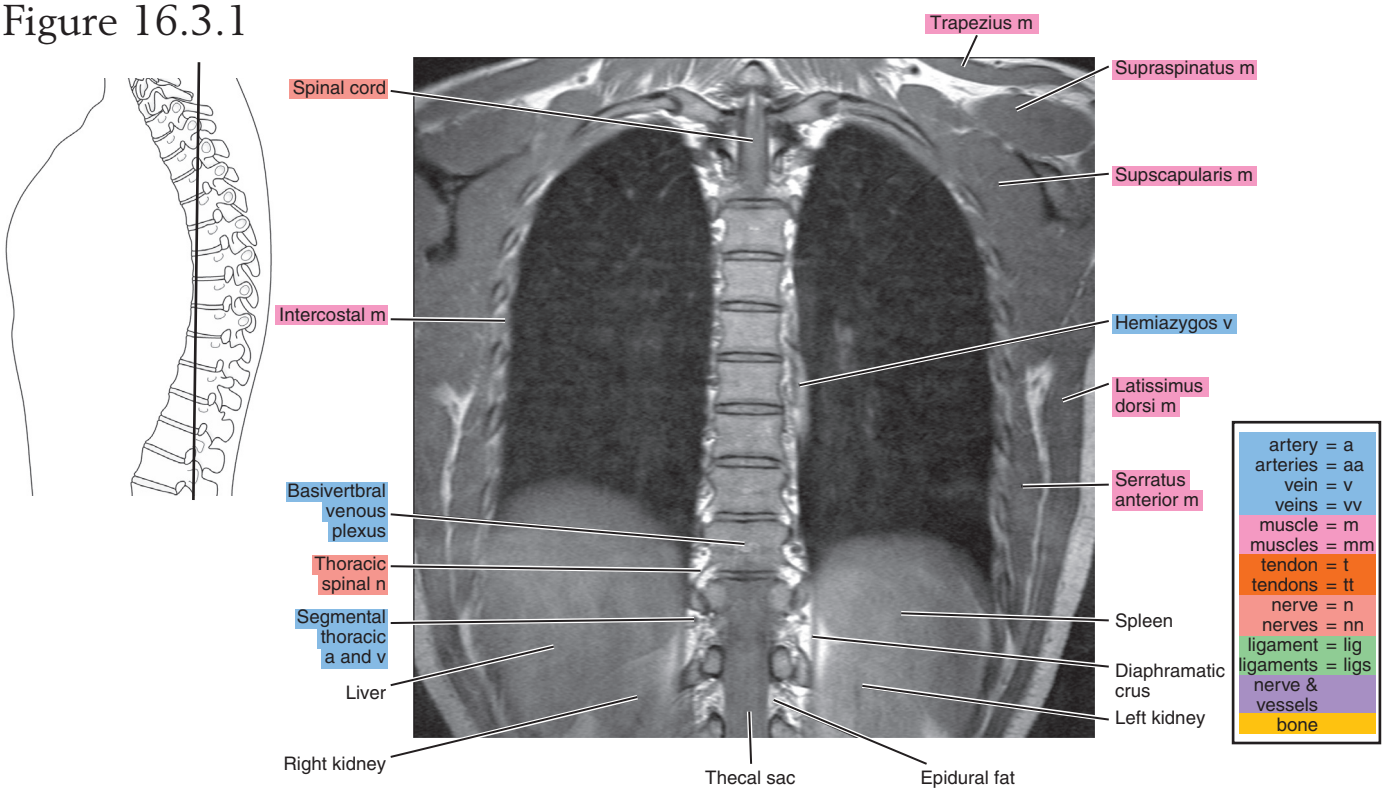


CORONAL

Figure 16.3.1



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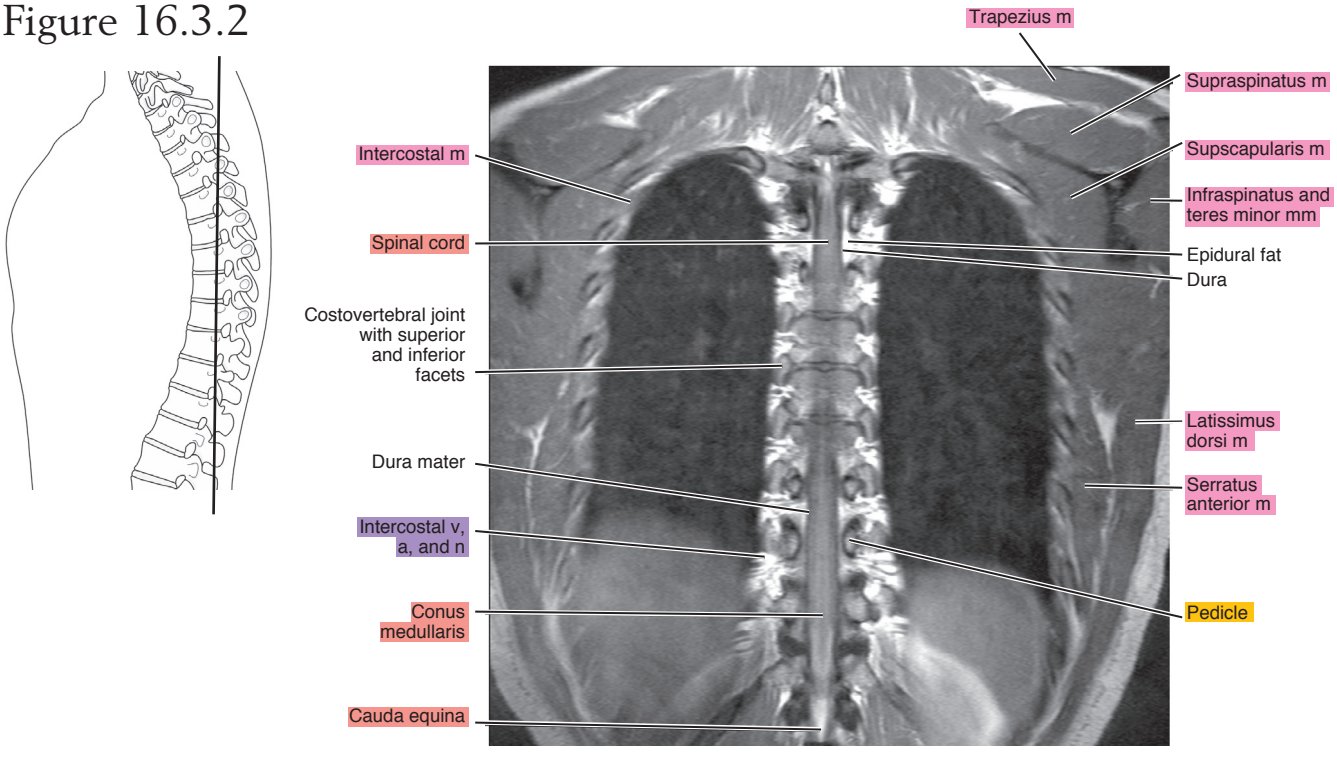

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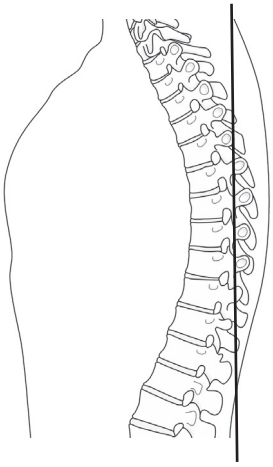


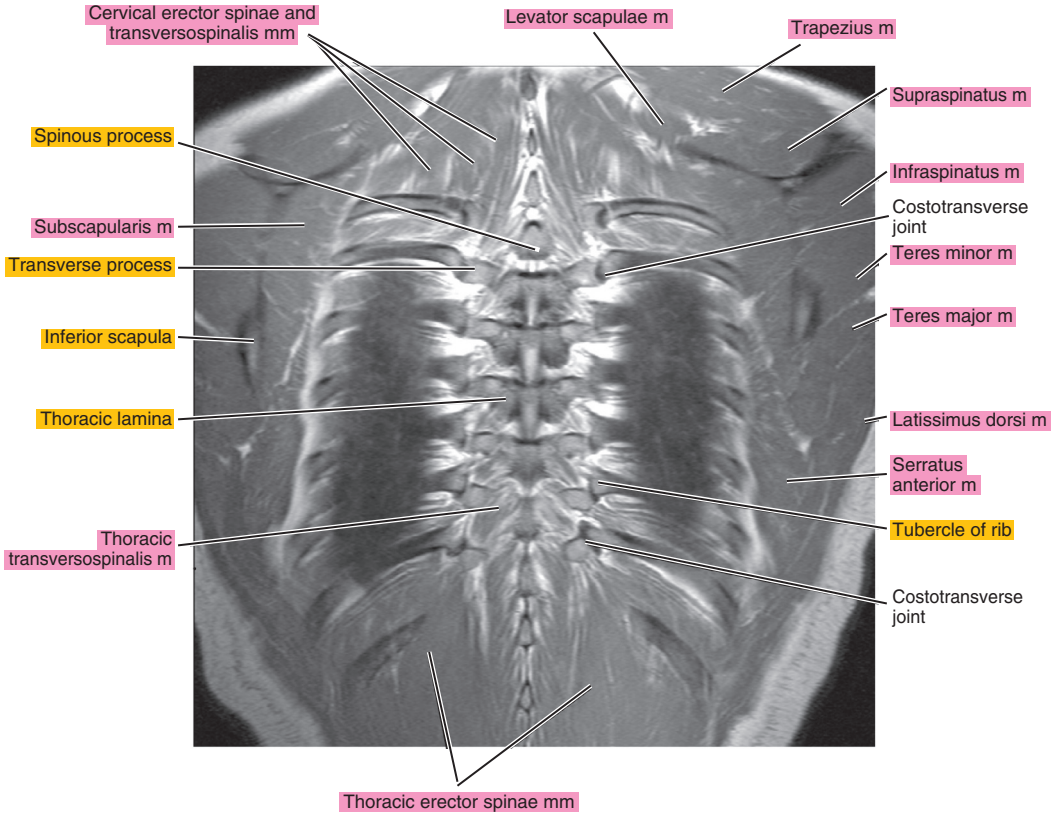
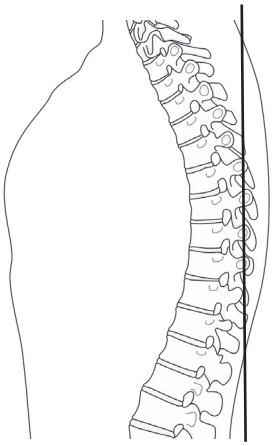


Figure 16.3.4



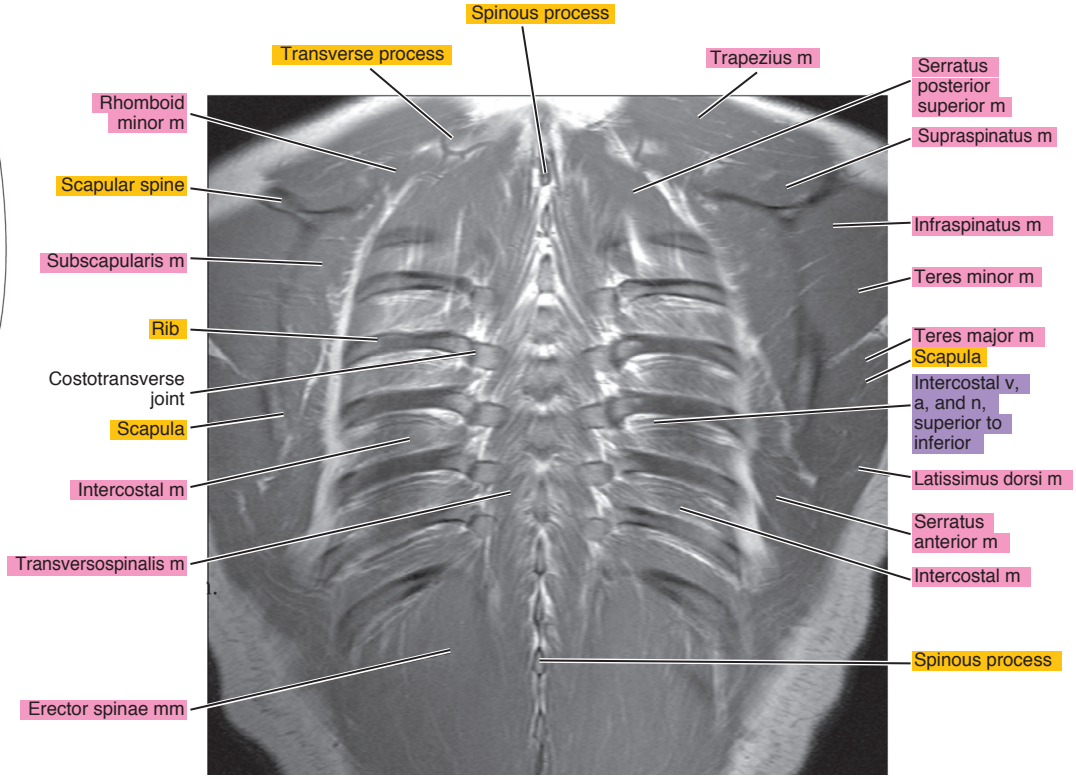
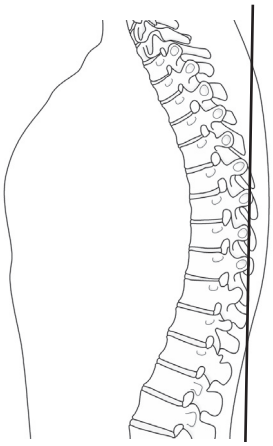


Figure 16.3.5



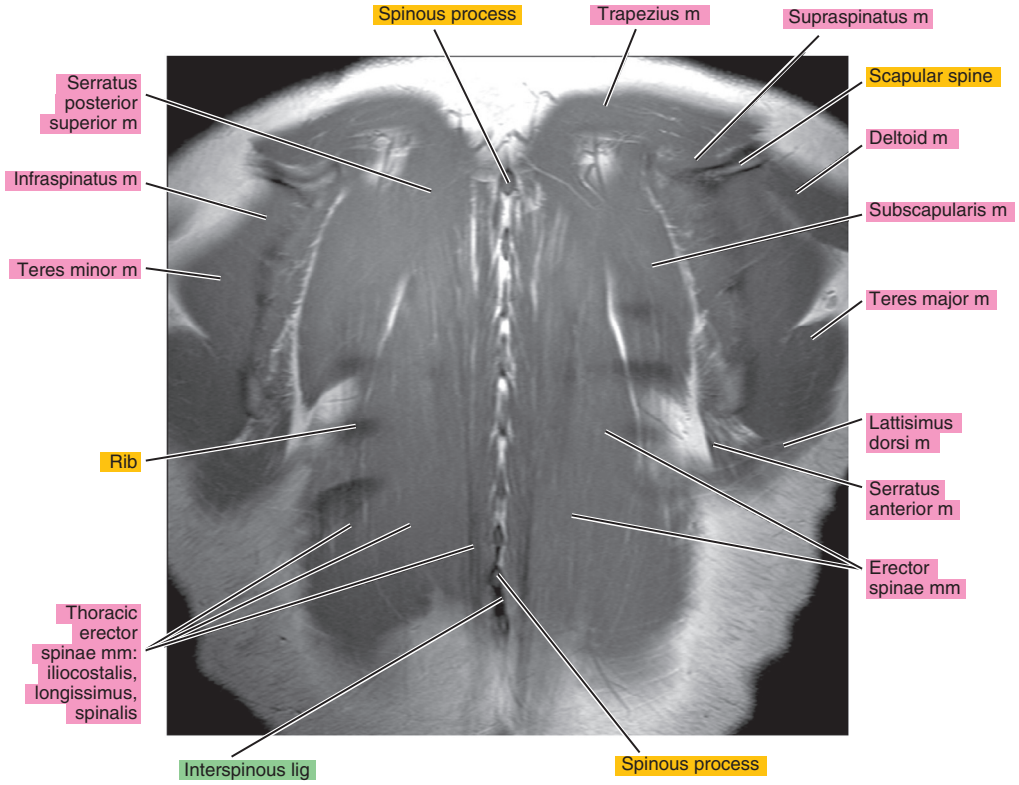
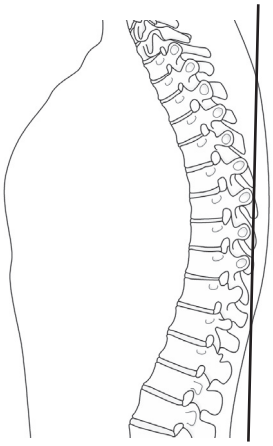


Figure 16.3.6



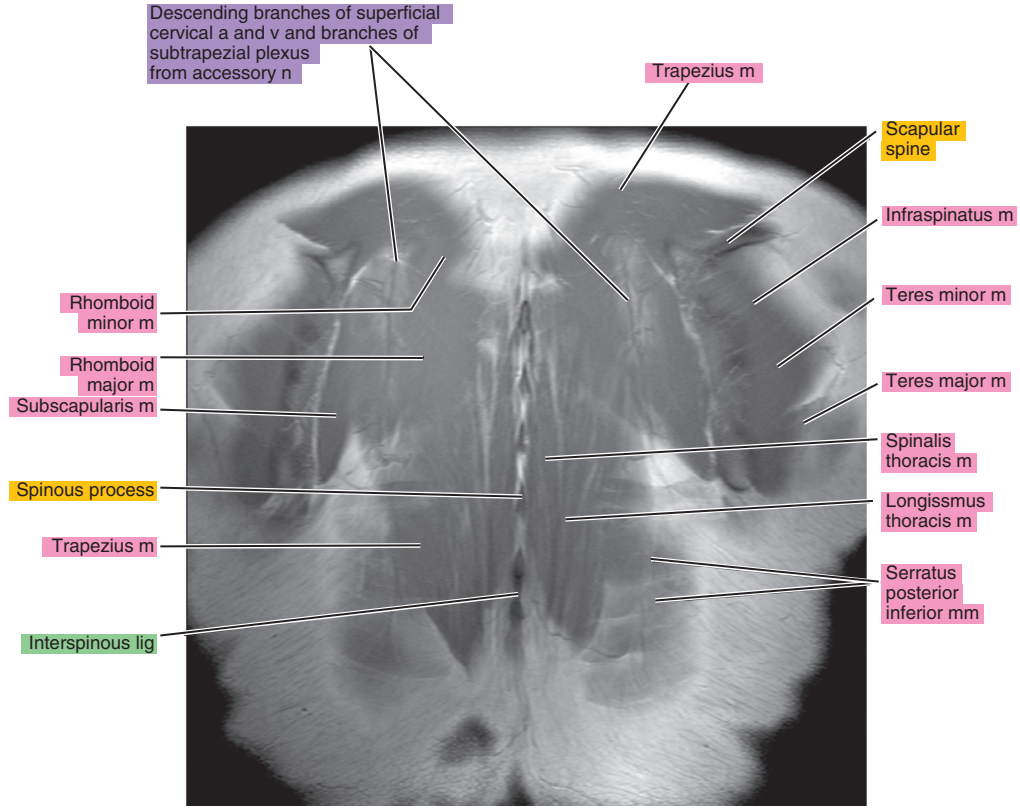
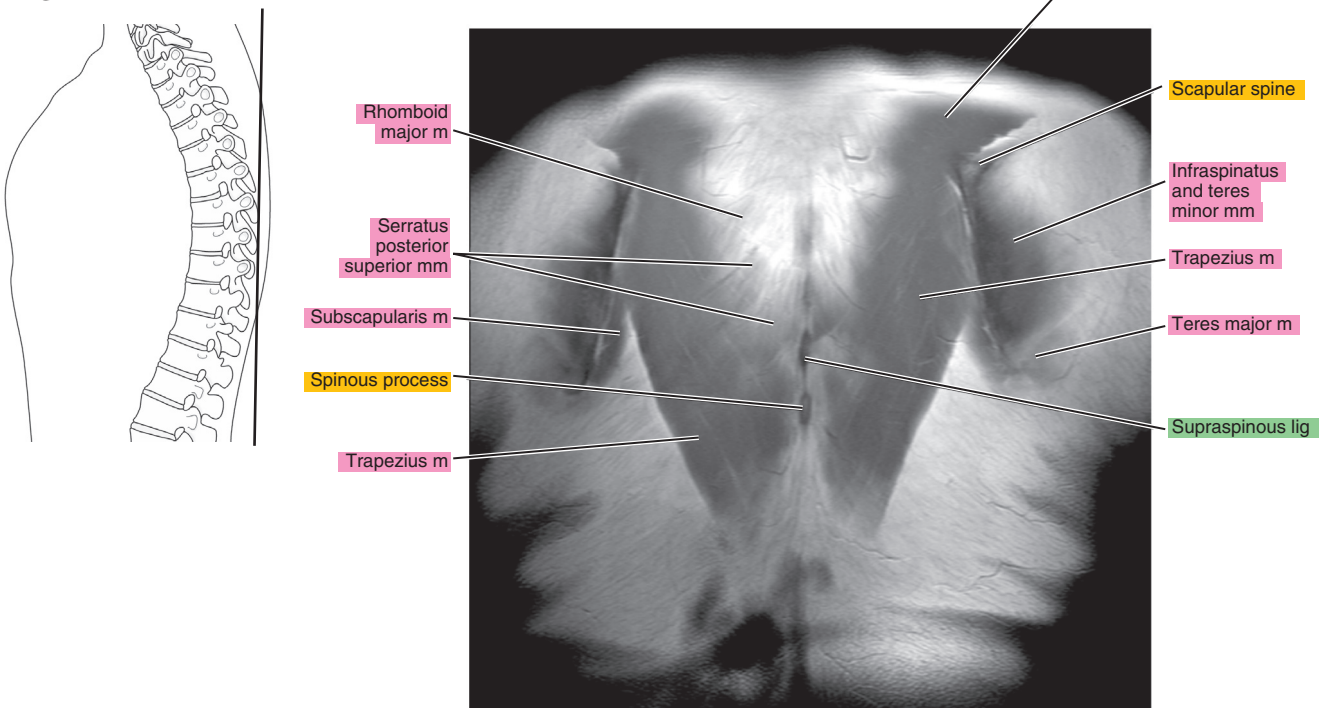


Figure 16.3.7


Trapezius m
Rhomboid major m
Scapular spine
Infraspinatus and teres minor mm
Serratus posterior superior mm
Trapezius m
Subscapularis m
Teres major m
Spinous process
Supraspinous lig
Trapezius m

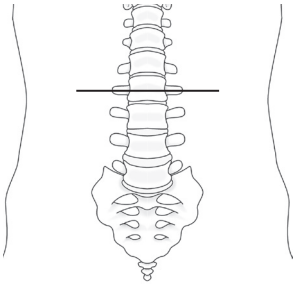
Chapter

17

MRI of the Lumbar Spine

AXIAL

Figure 17.1.1



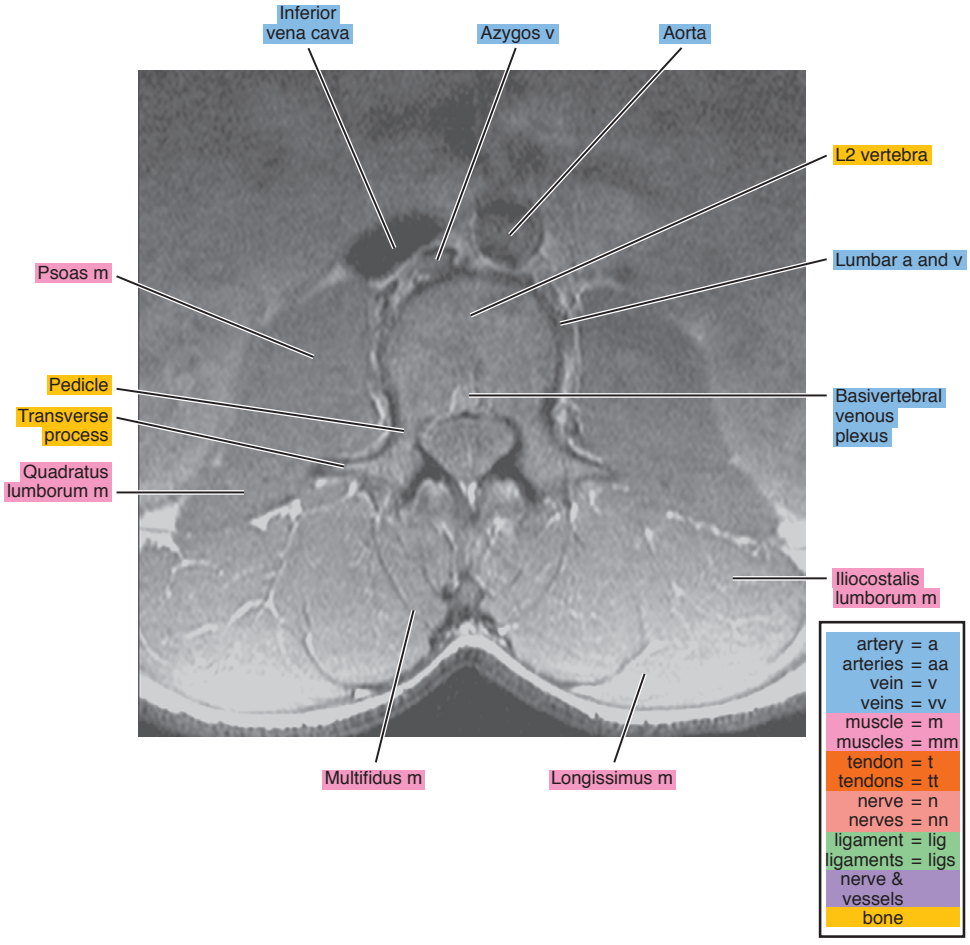
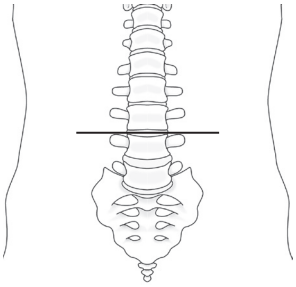


Figure 17.1.2



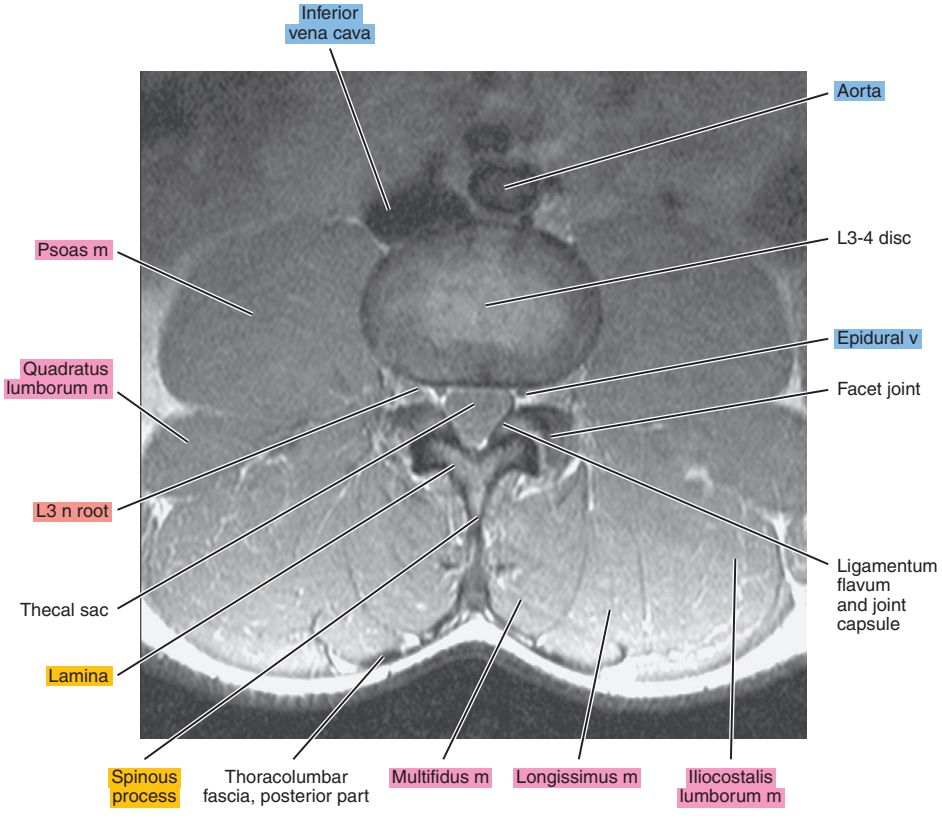
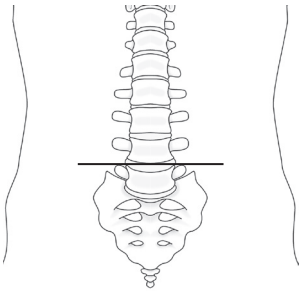


Figure 17.1.3



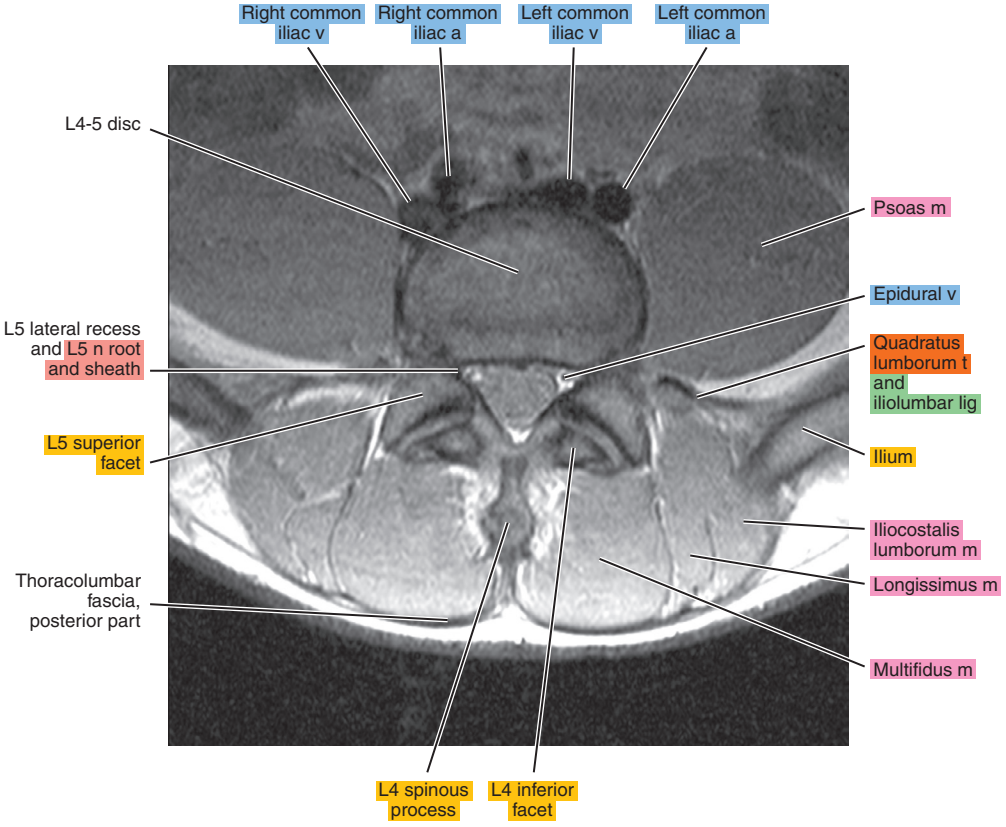
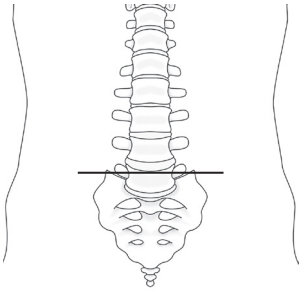


Figure 17.1.4



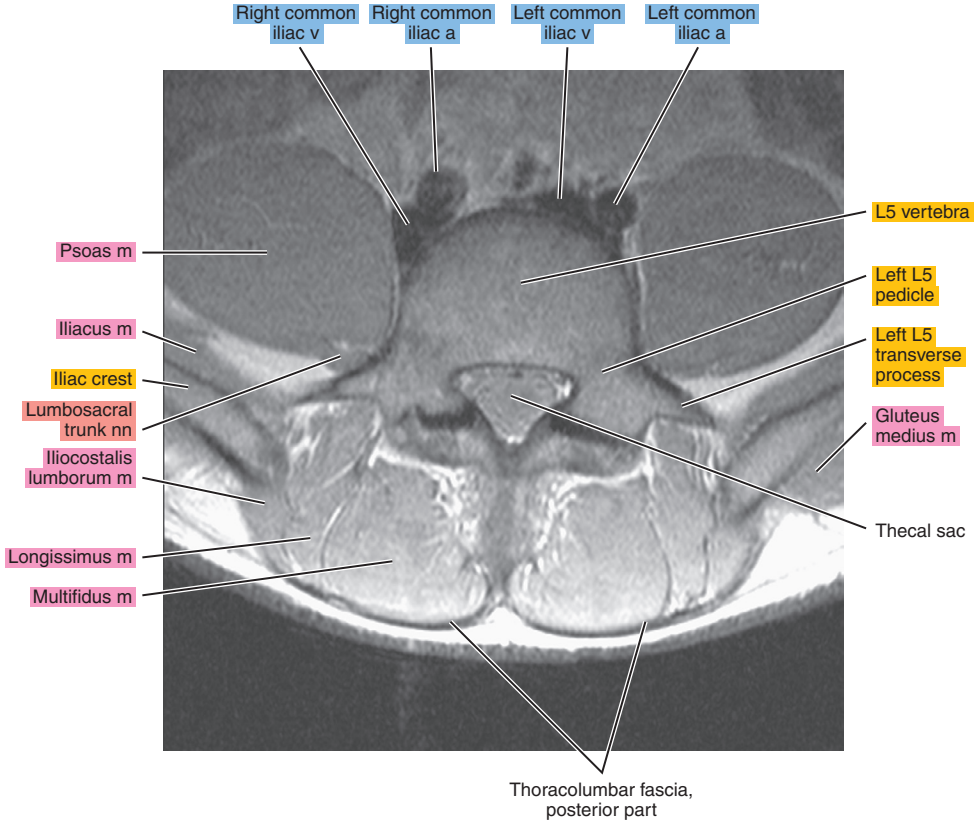
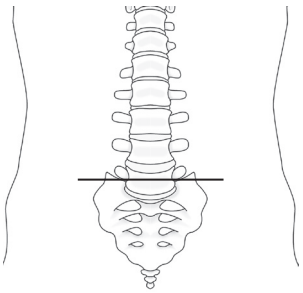


Figure 17.1.5



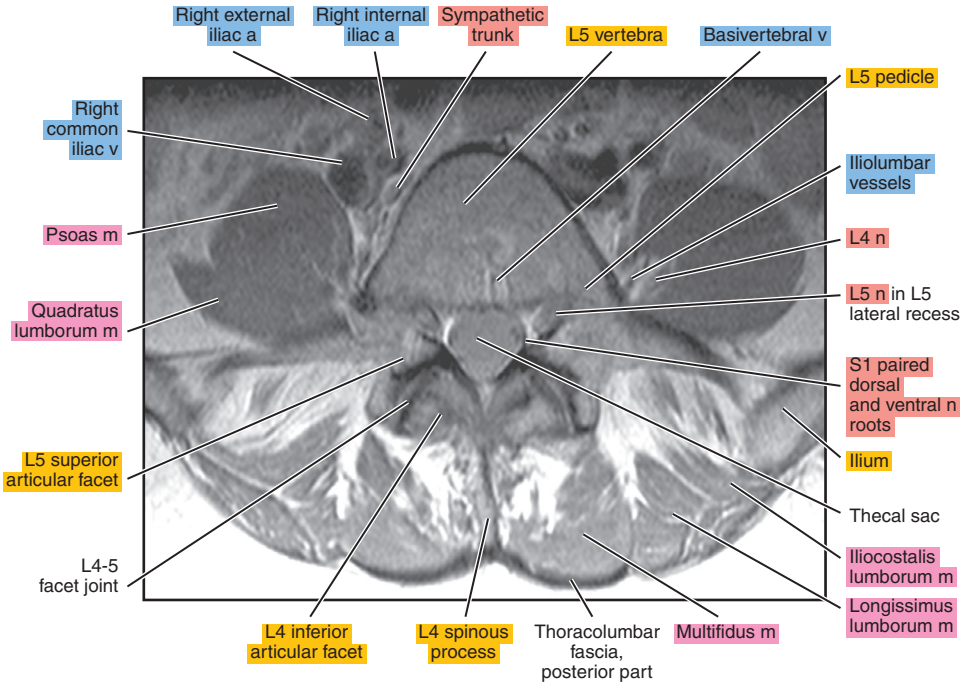
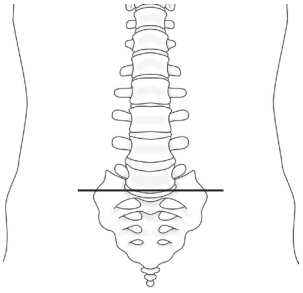


Figure 17.1.6



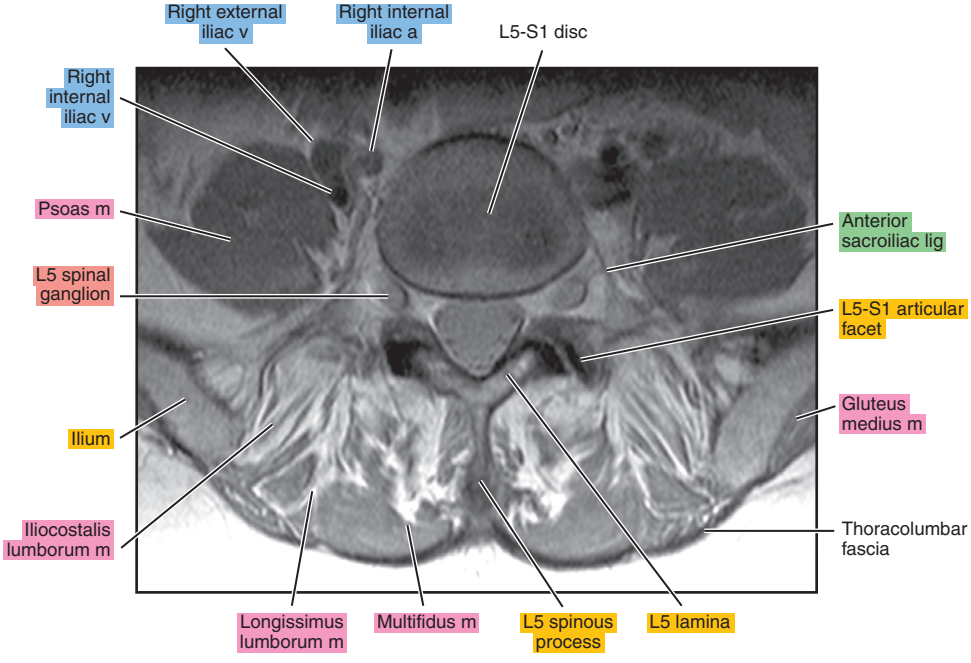
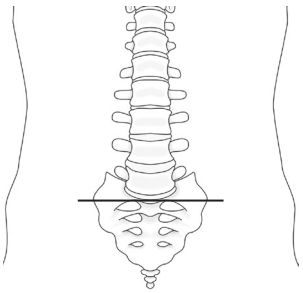
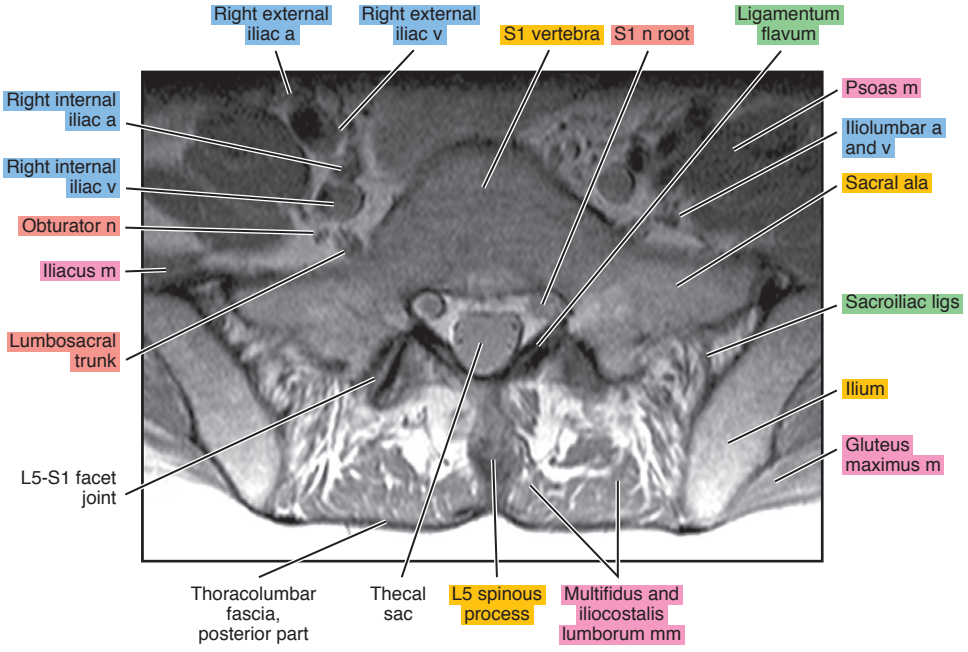


Figure 17.1.7





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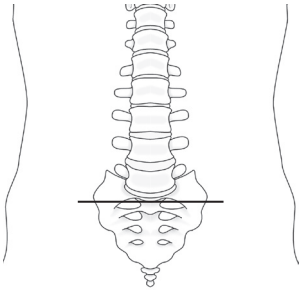
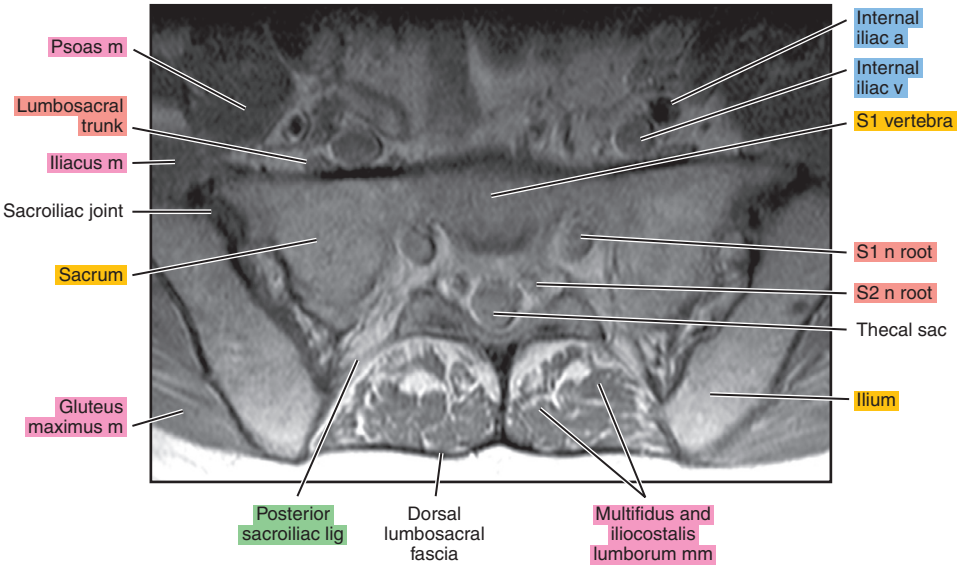
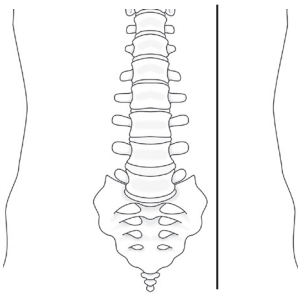




SAGITTAL

Figure 17.2.1



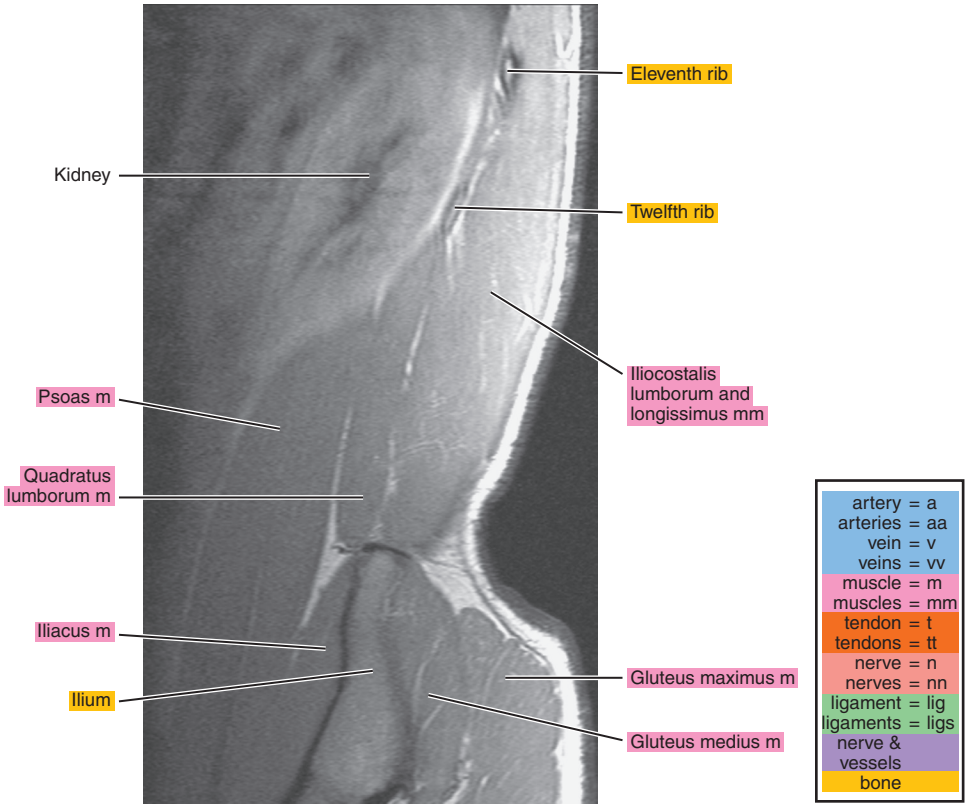
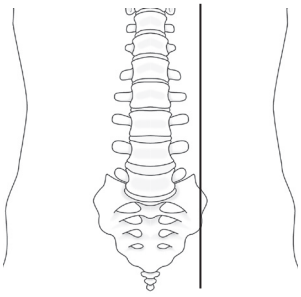


Figure 17.2.2



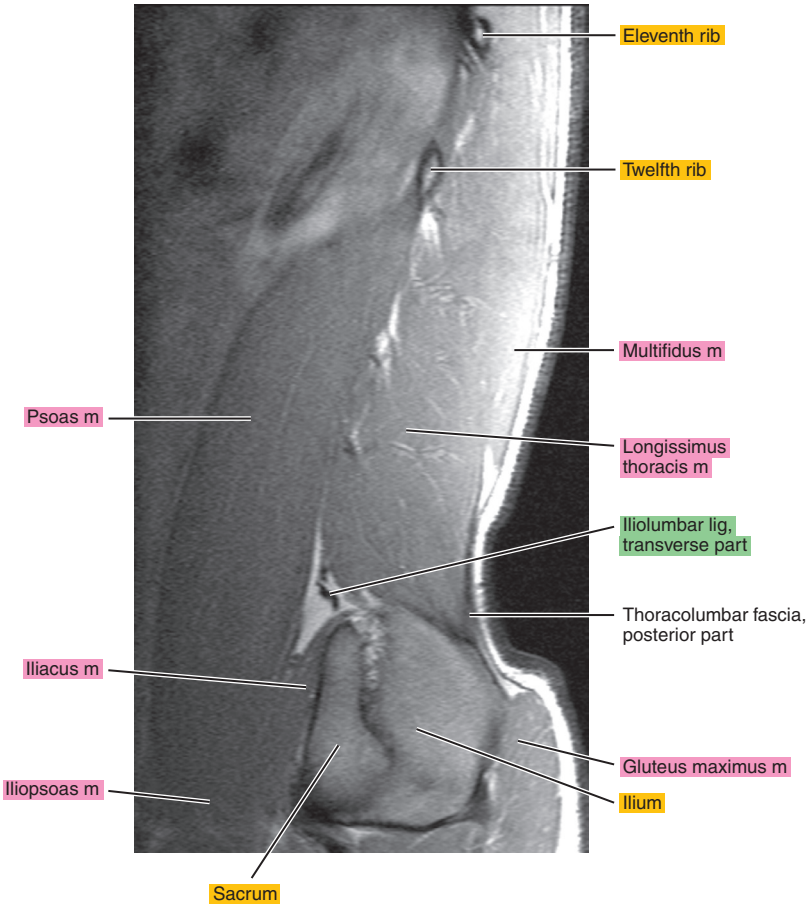
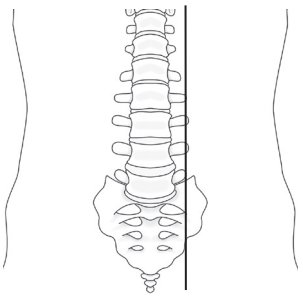
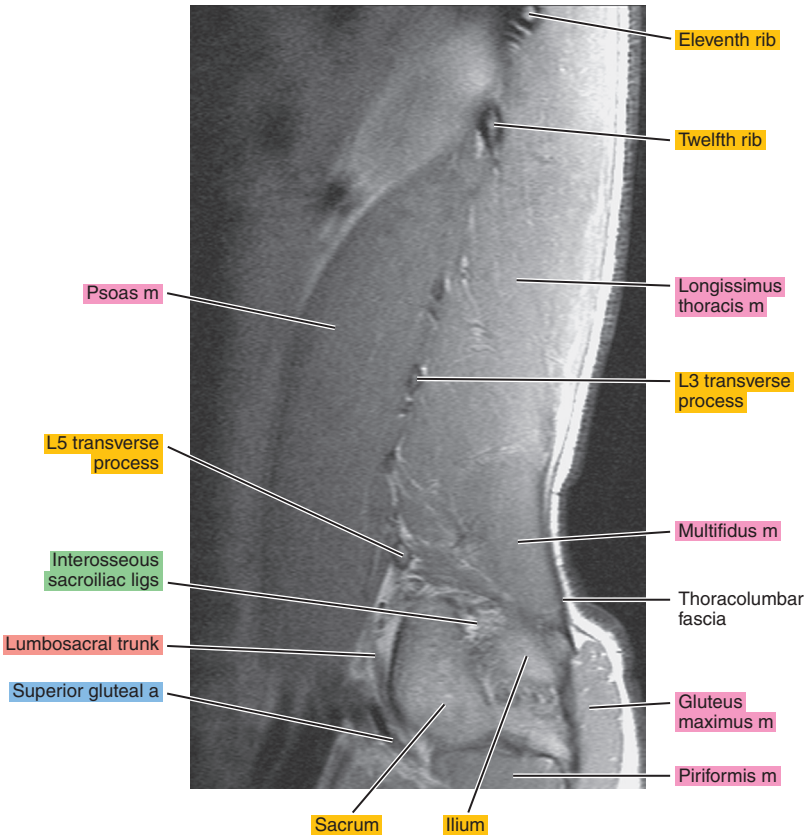


Figure 17.2.3





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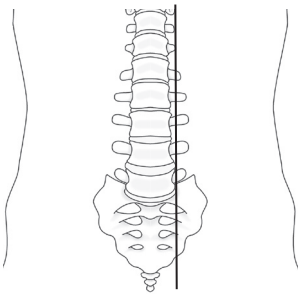


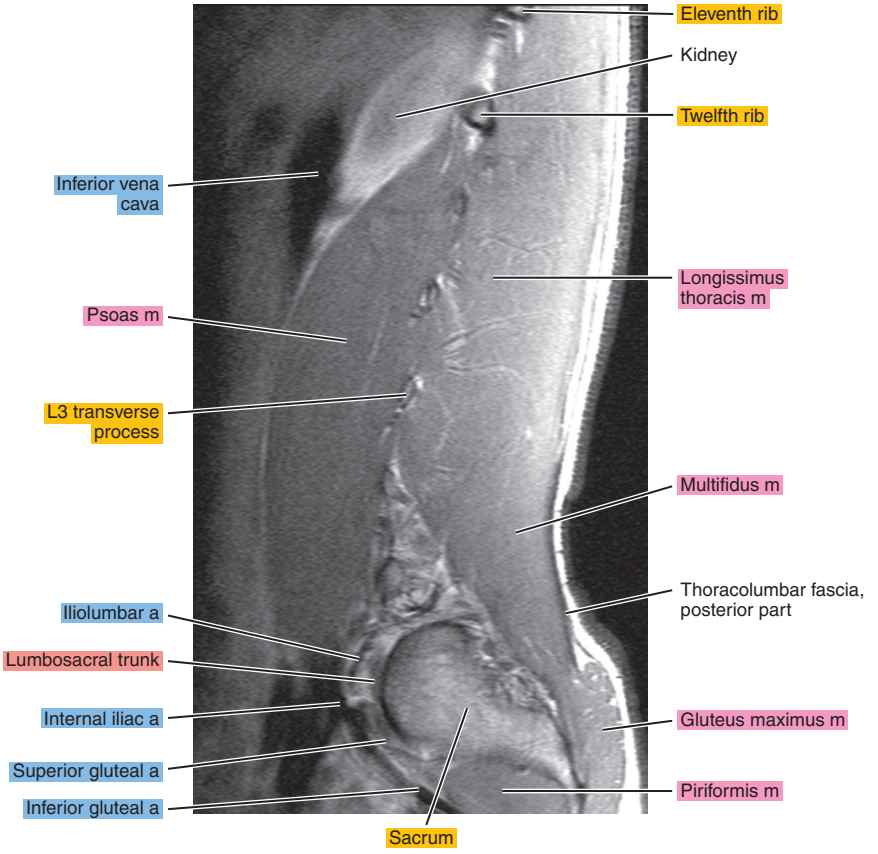
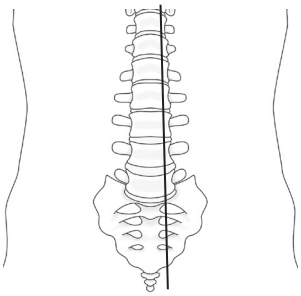
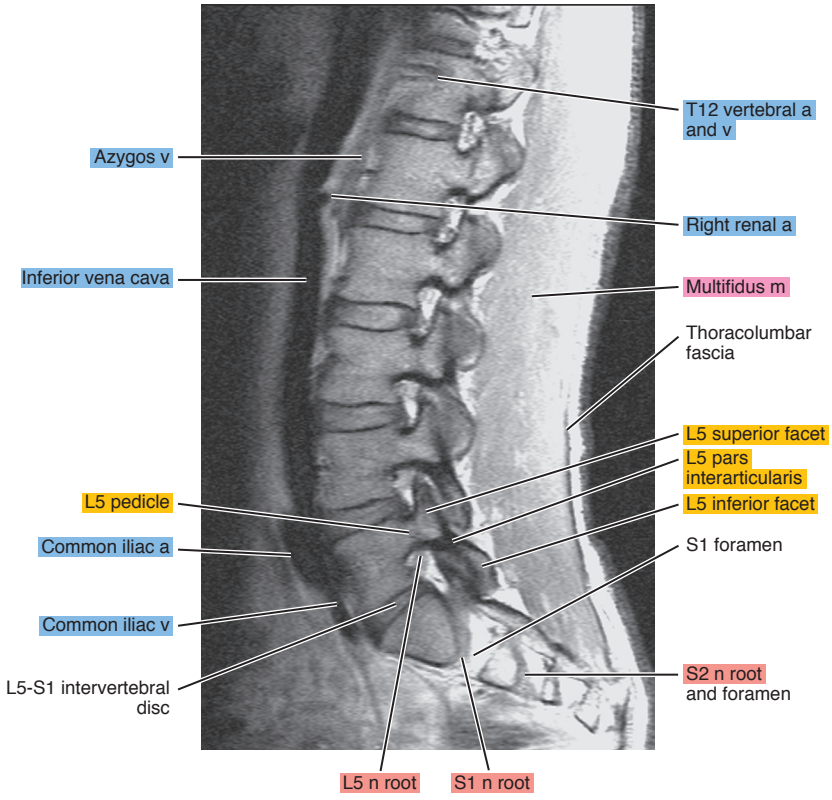


Figure 17.2.5





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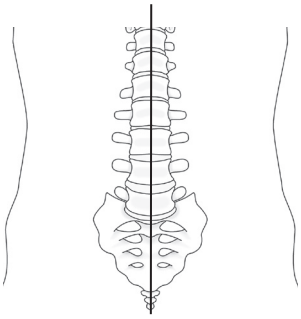
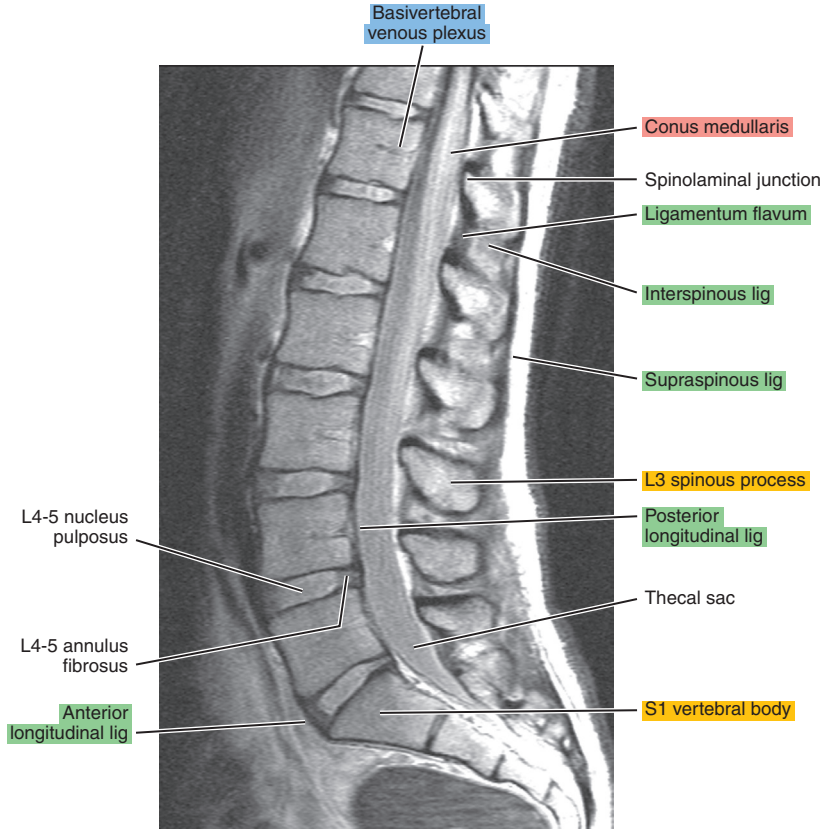
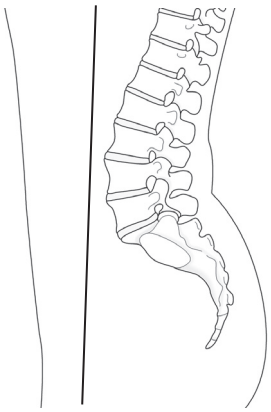




CORONAL

Figure 17.3.1



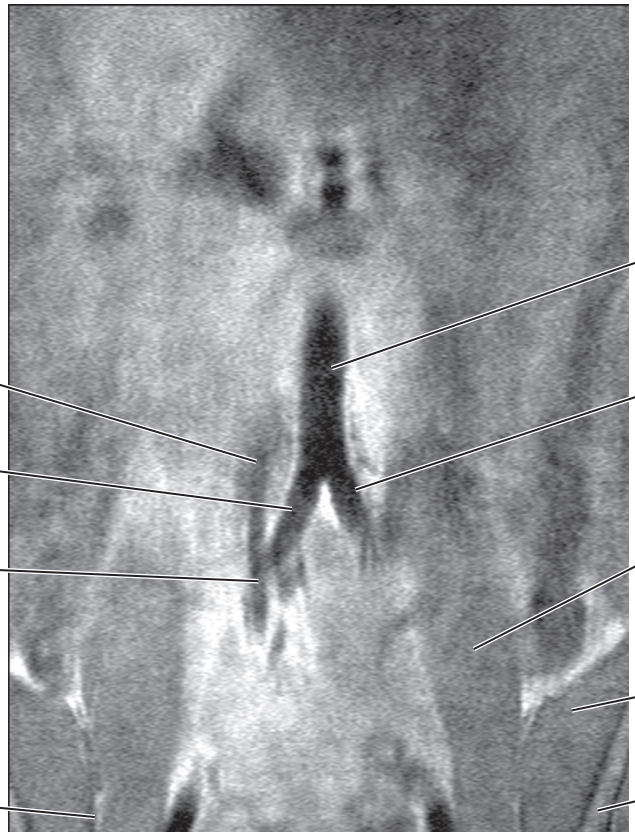
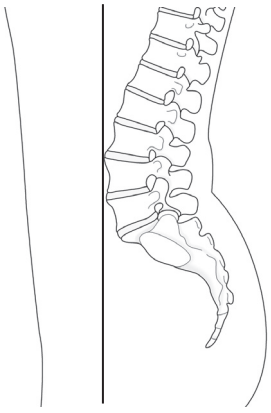


Figure 17.3.2



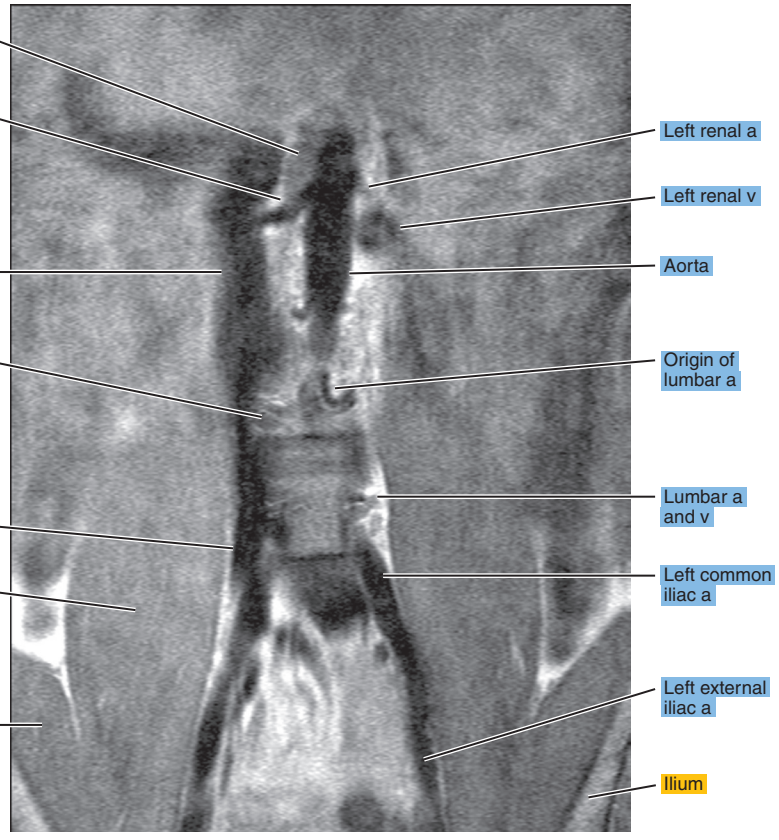
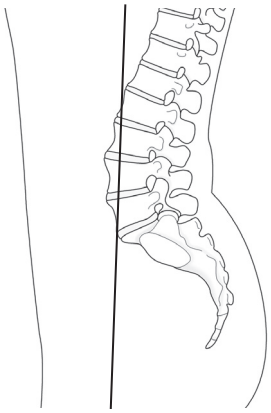
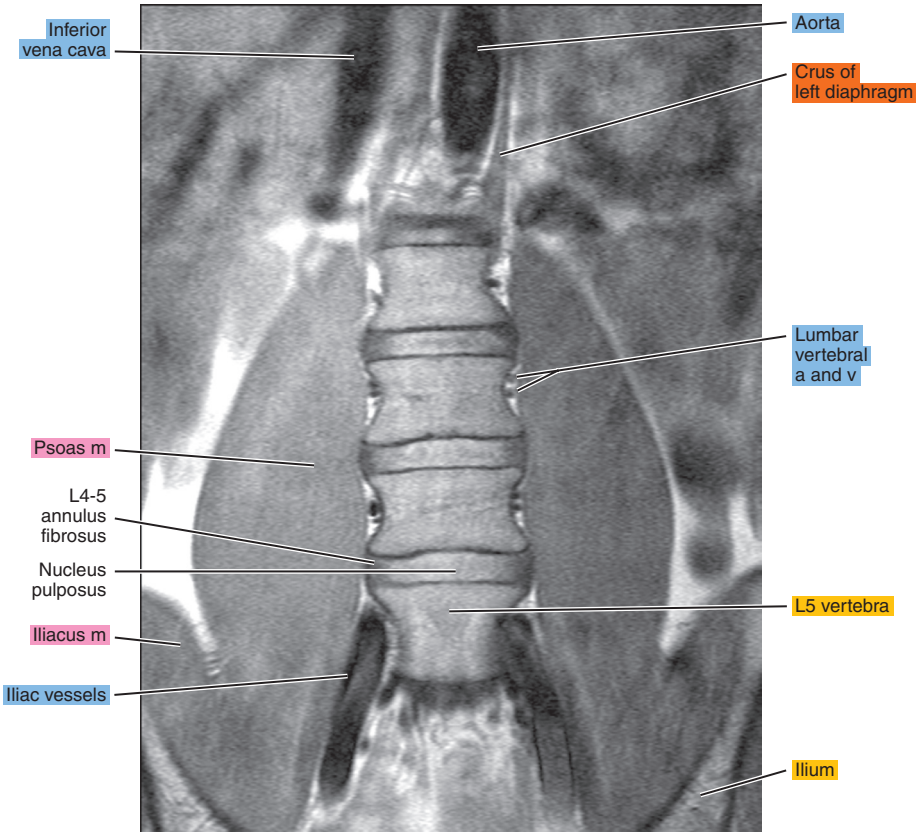


Figure 17.3.3





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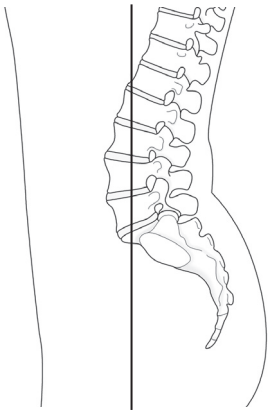


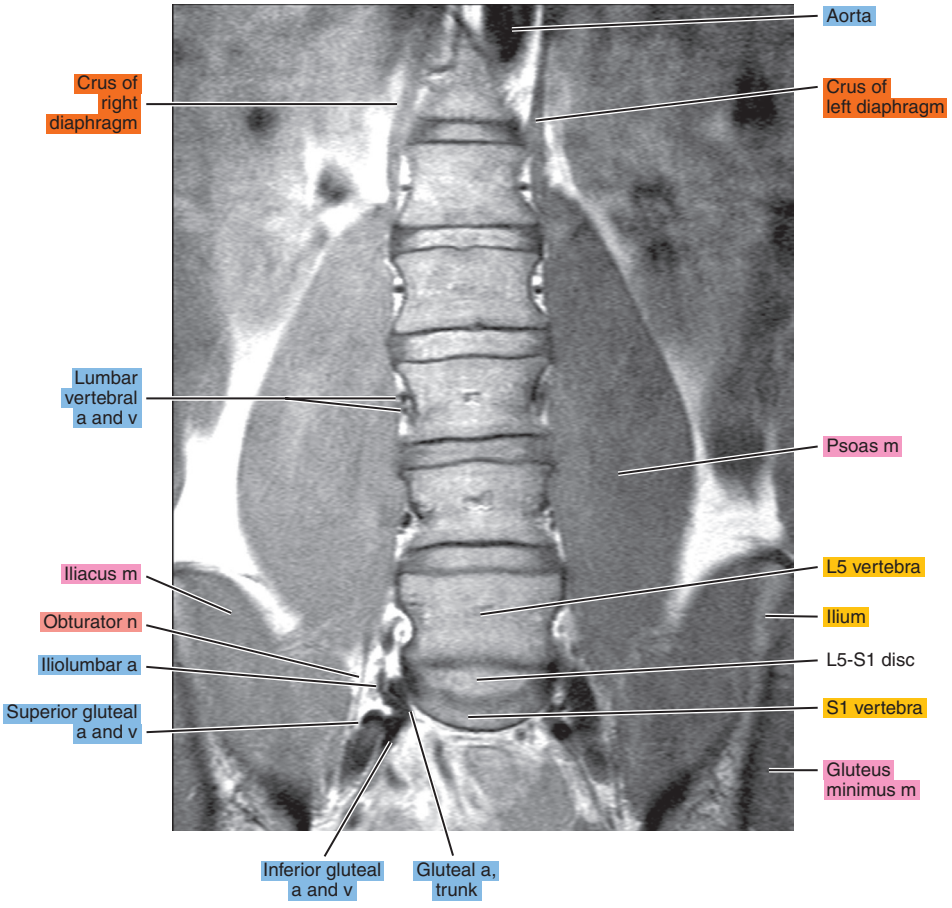
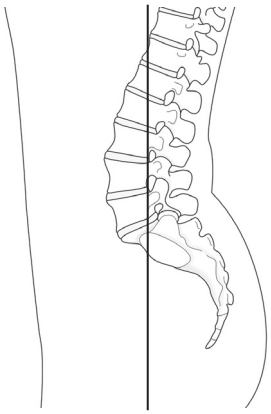


Figure 17.3.5



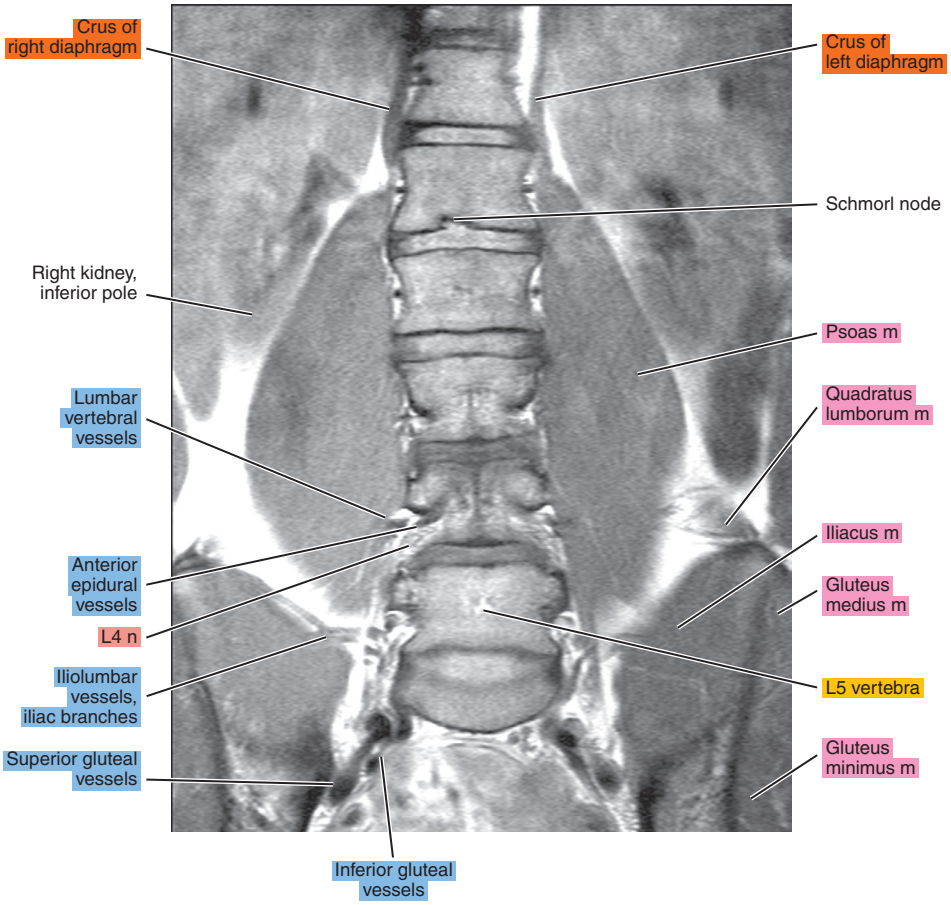
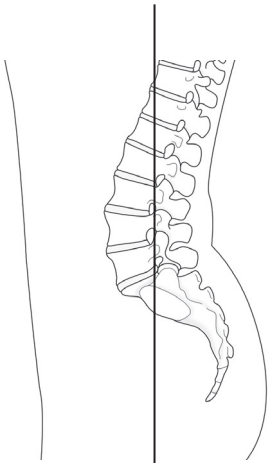
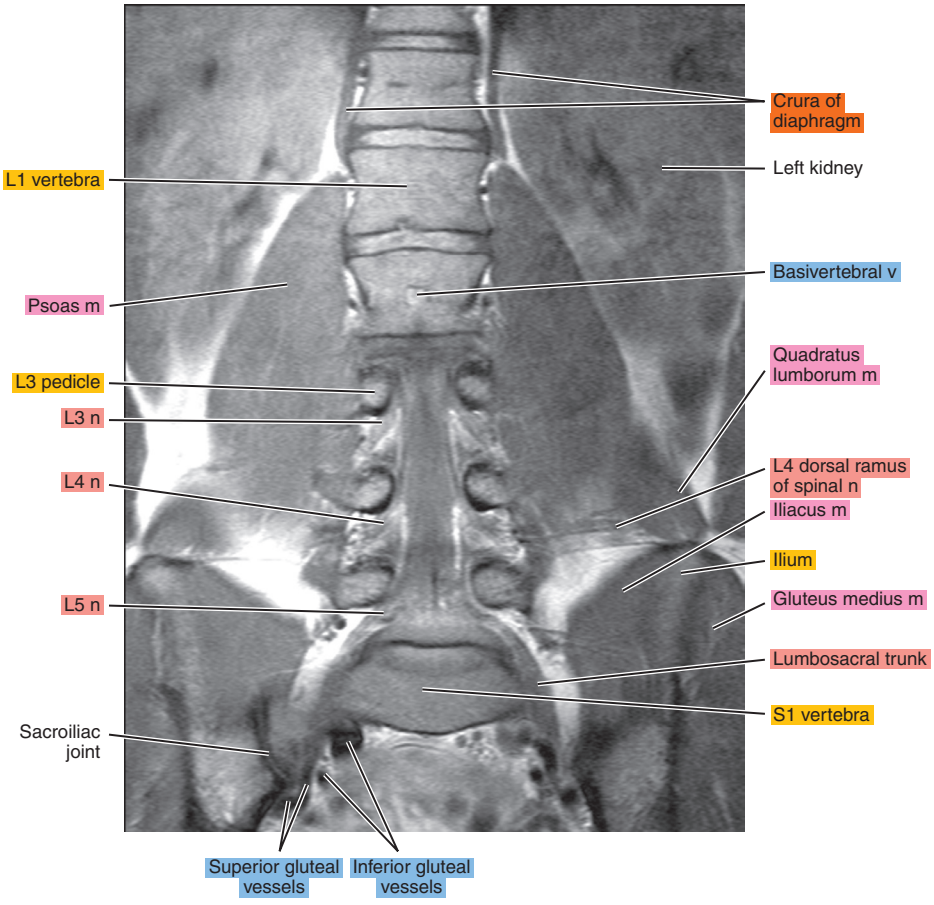


Figure 17.3.6





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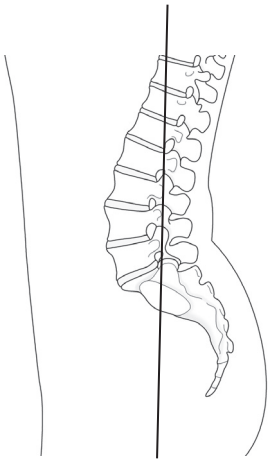

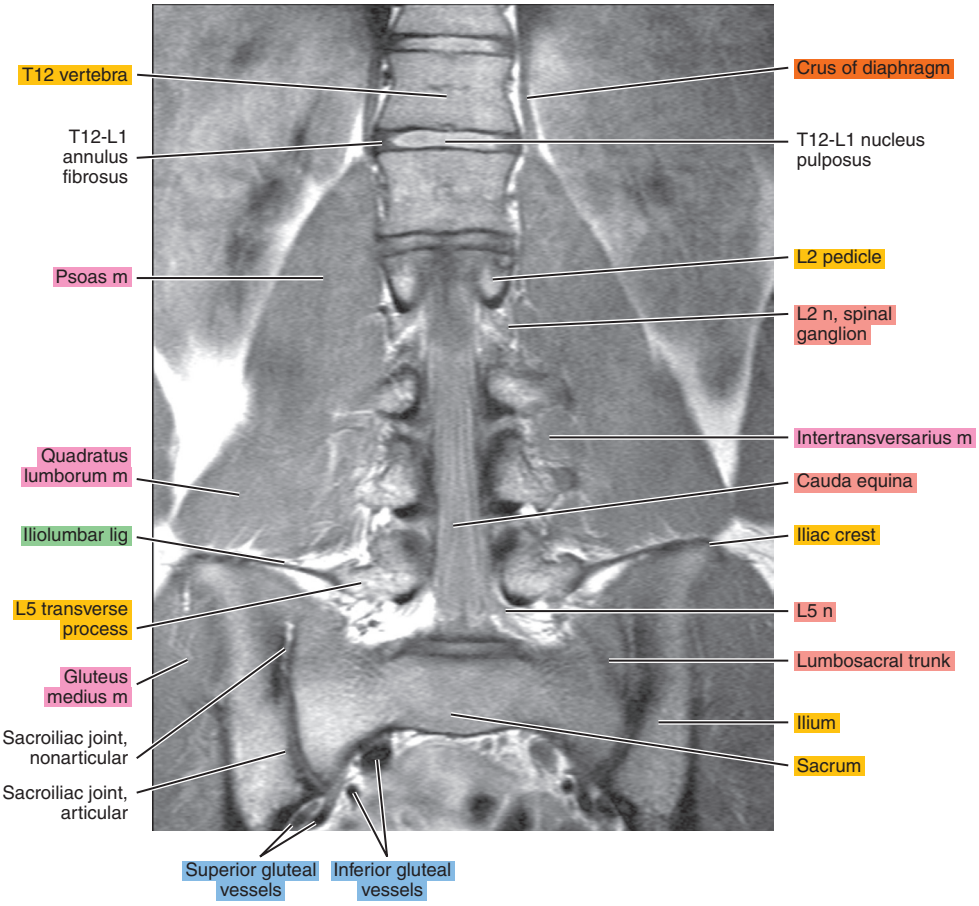

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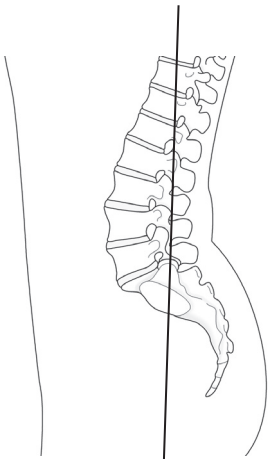

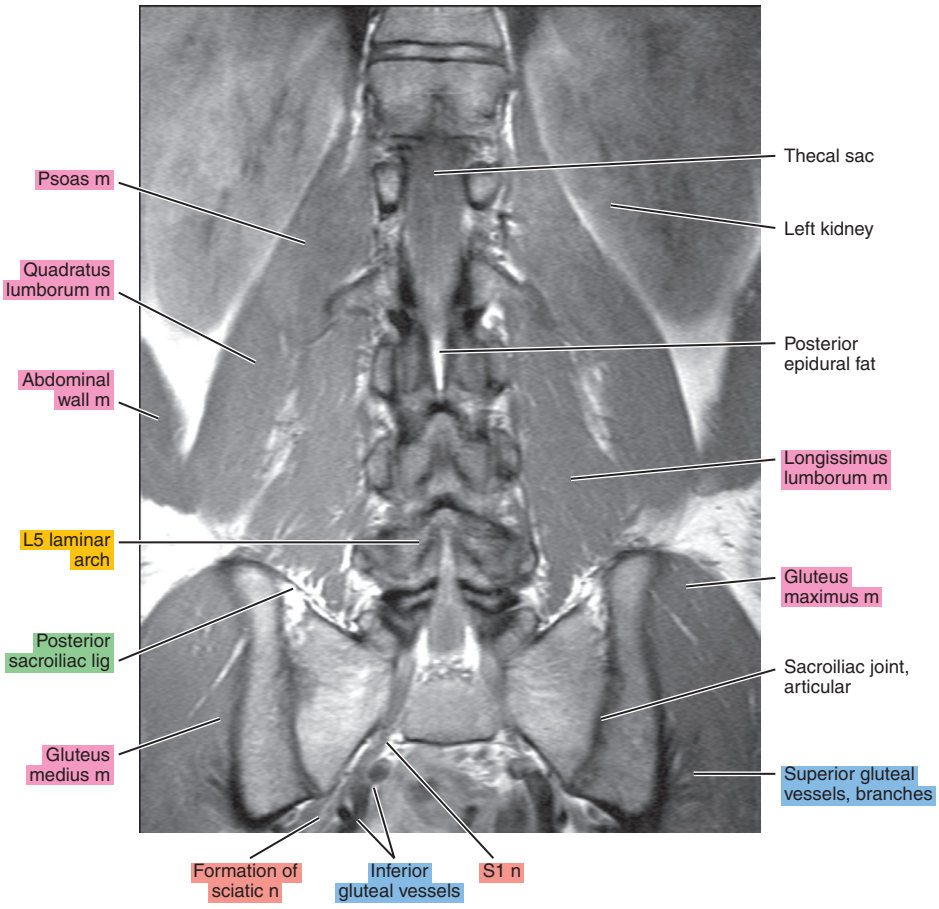

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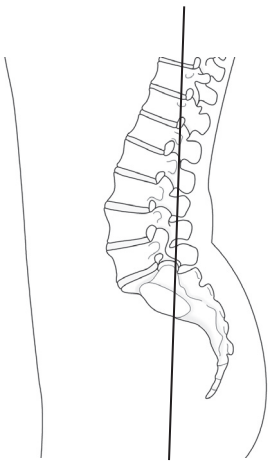

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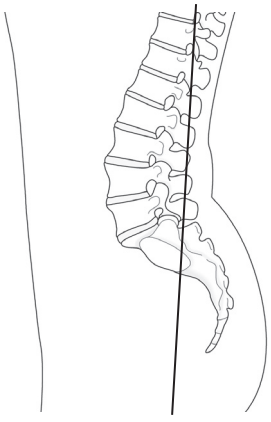

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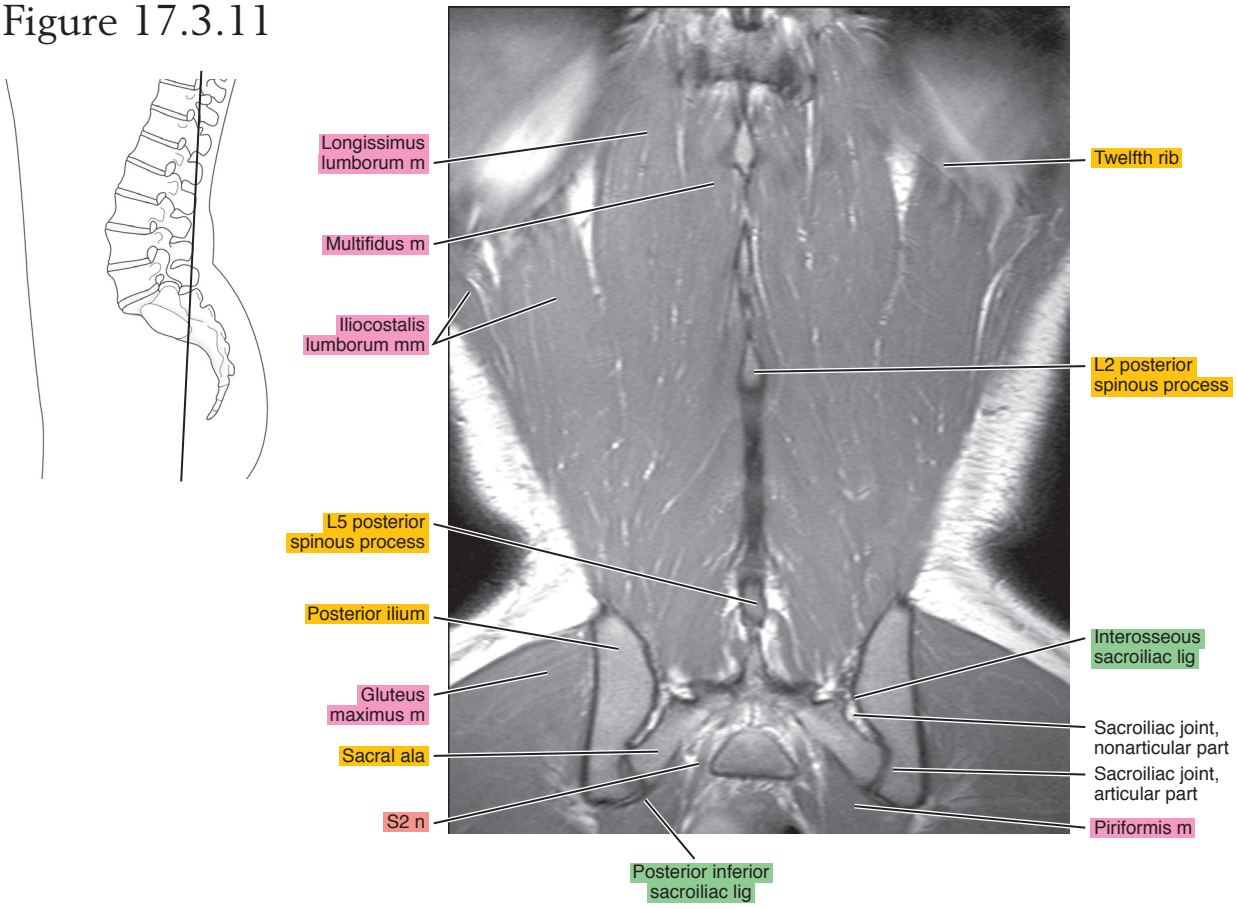

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Section

IV

Thorax

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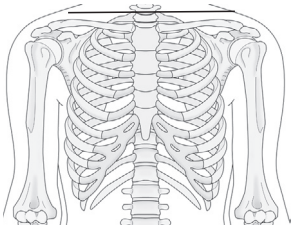
Chapter

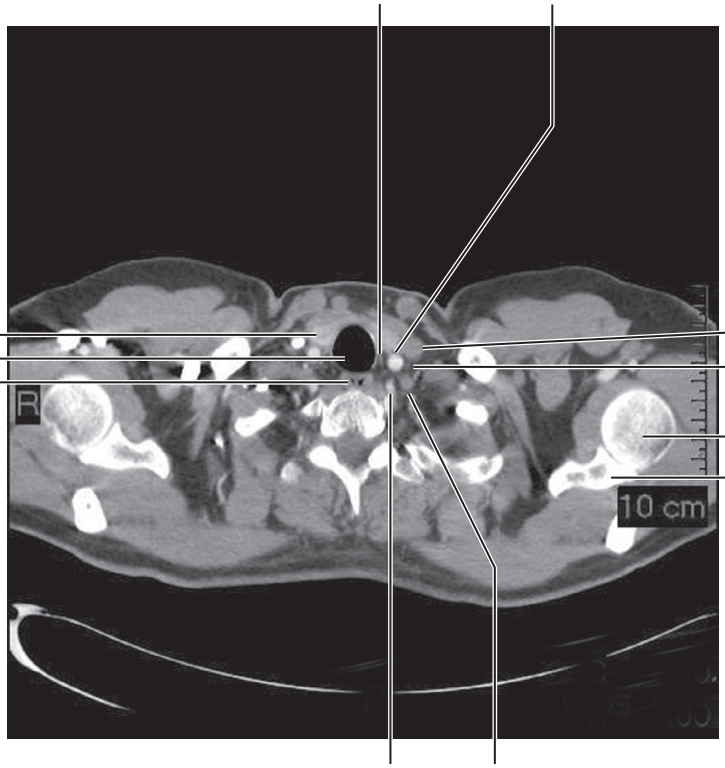
18

CT of the Thorax

AXIAL

Figure 18.1.1





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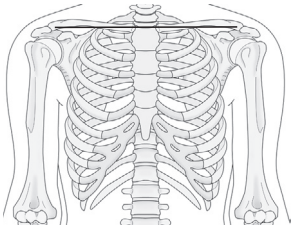

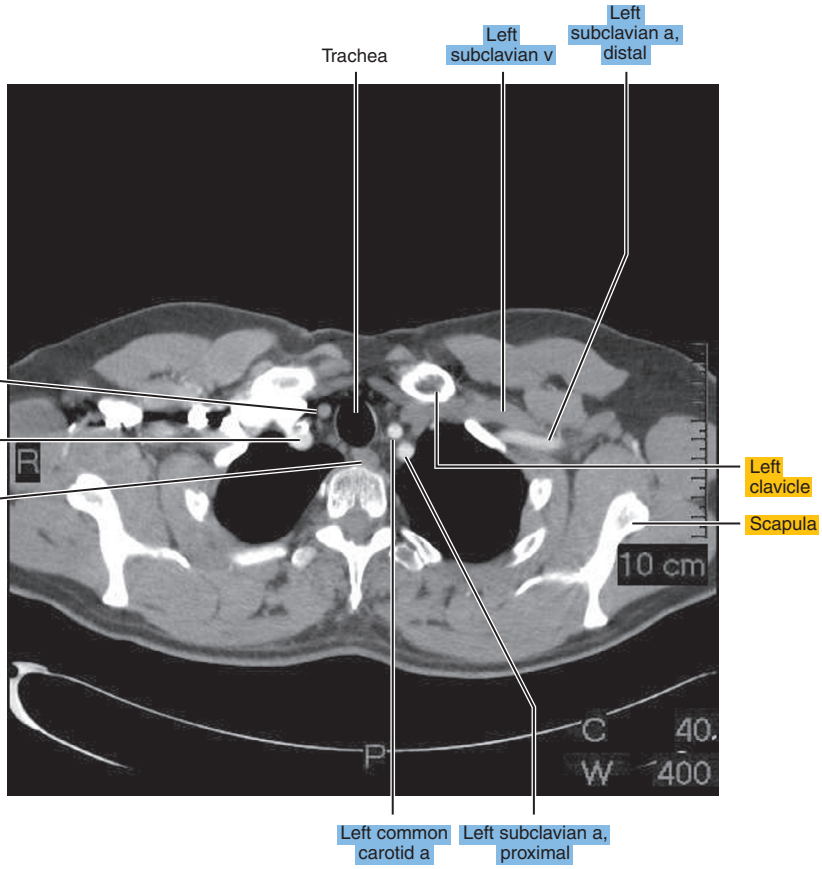

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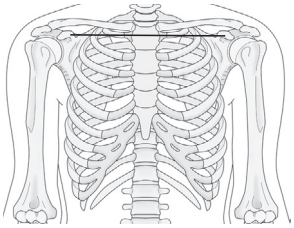

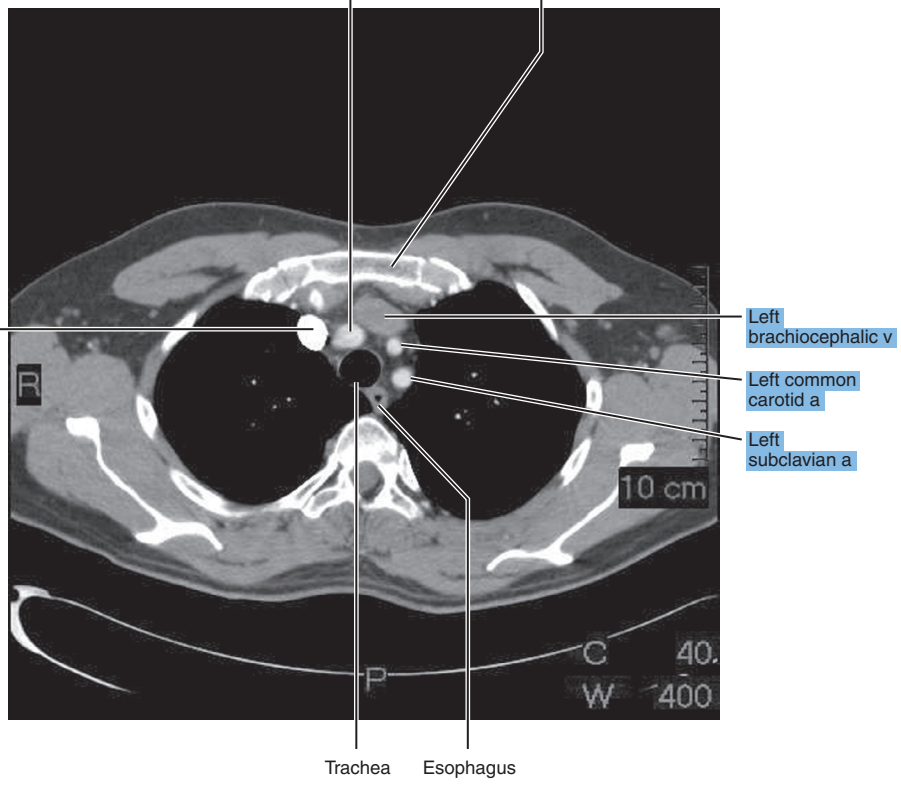

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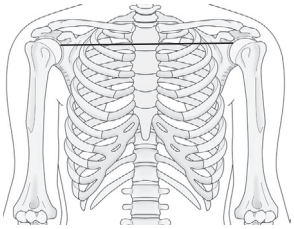

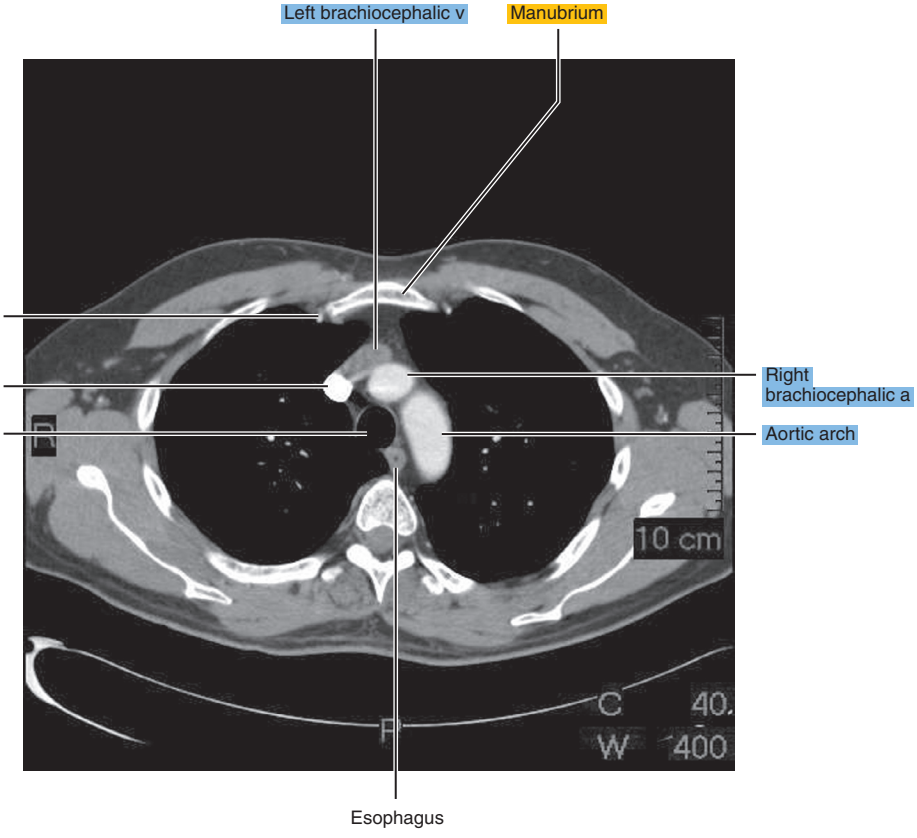

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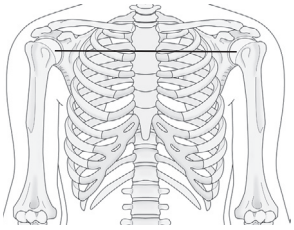

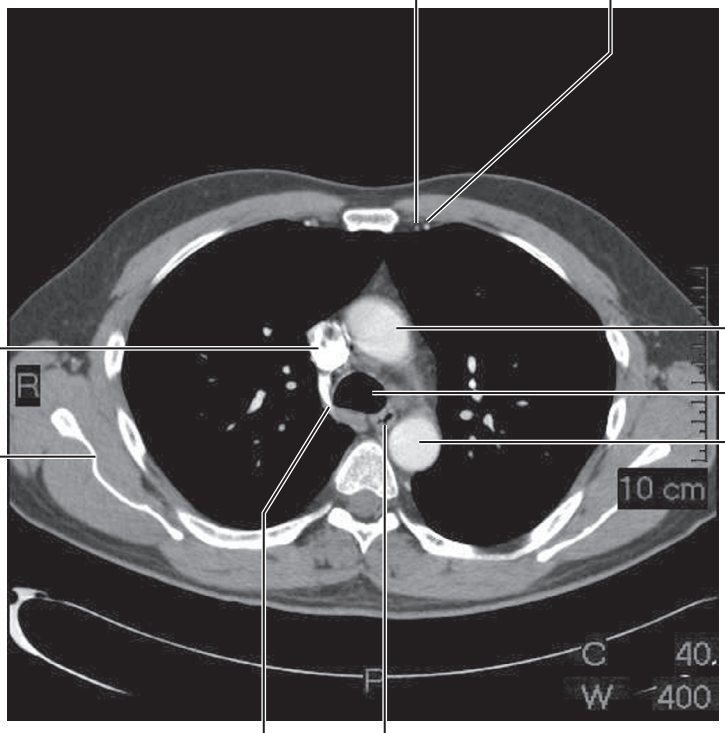

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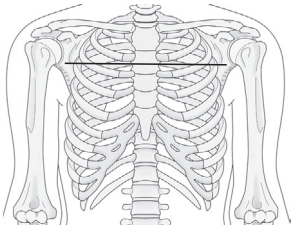

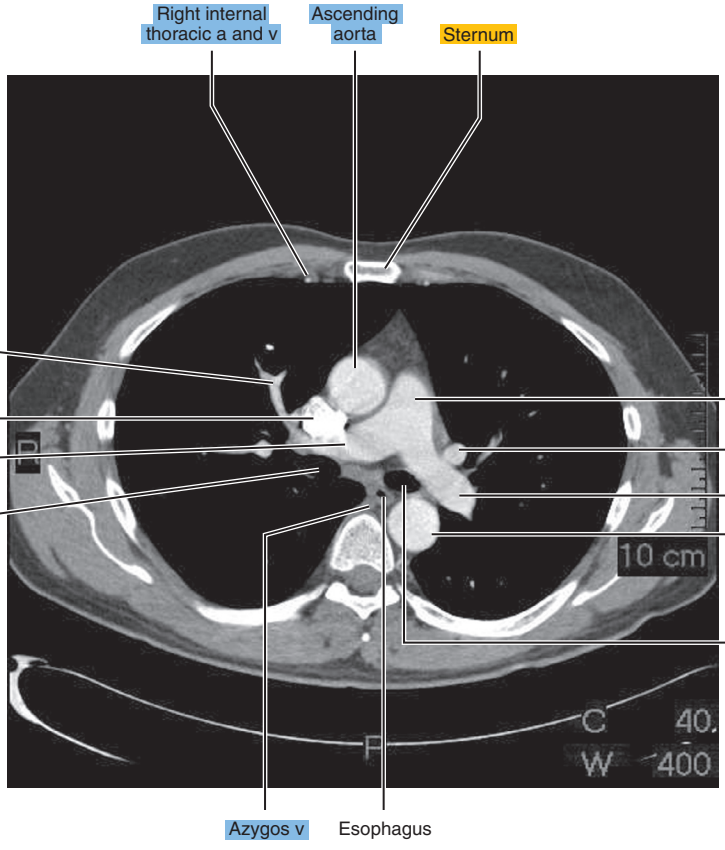

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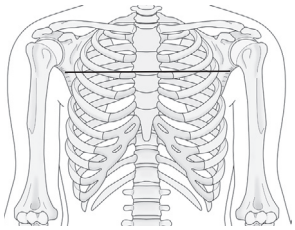

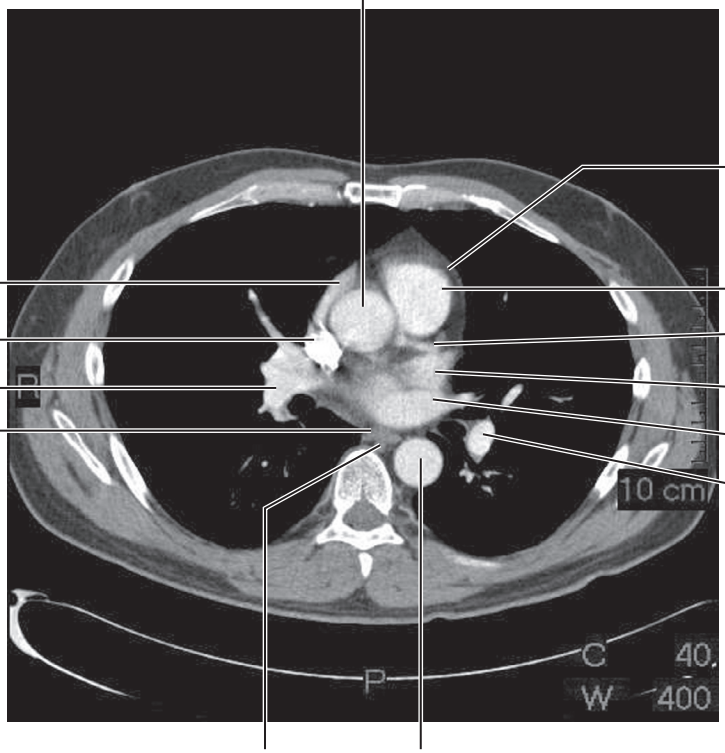

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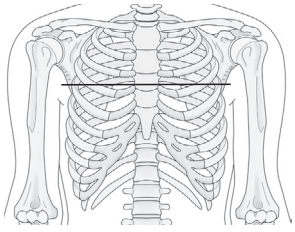

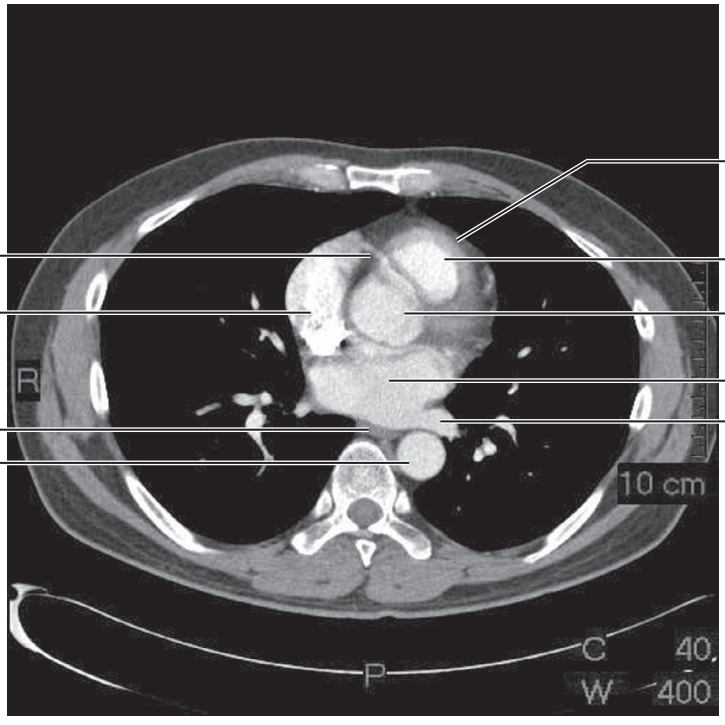

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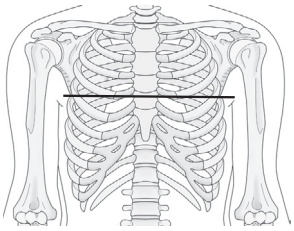

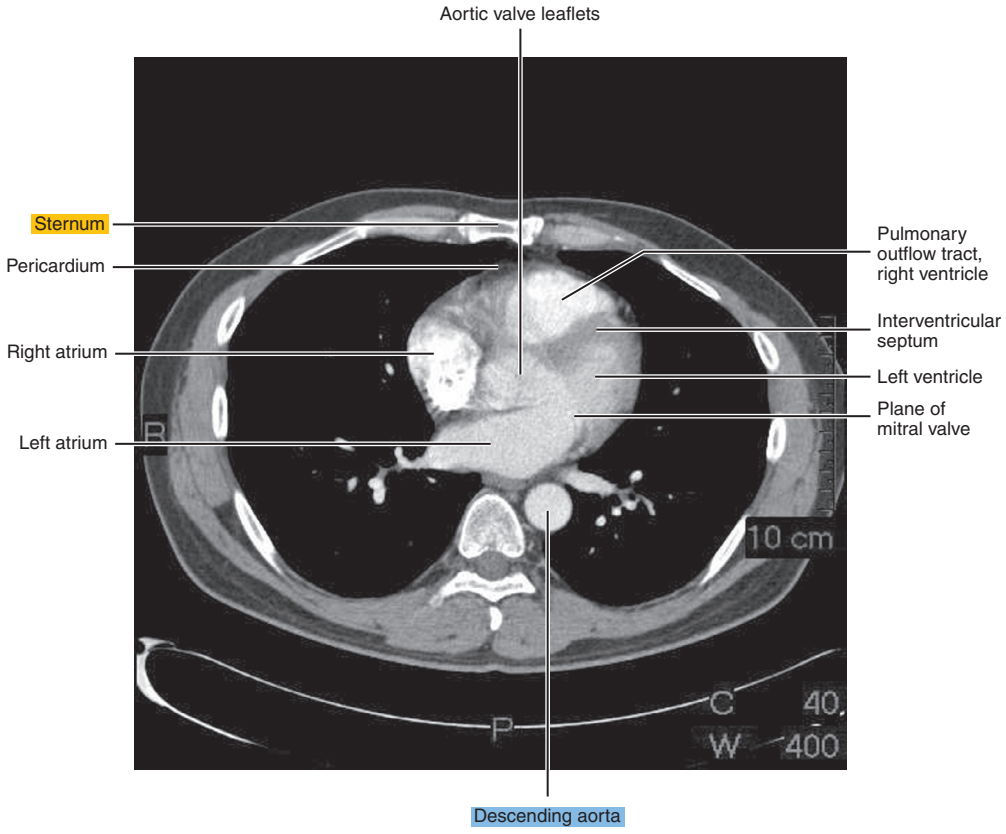

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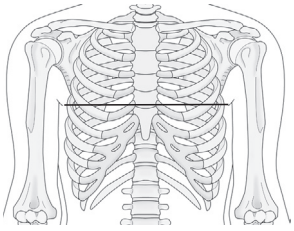

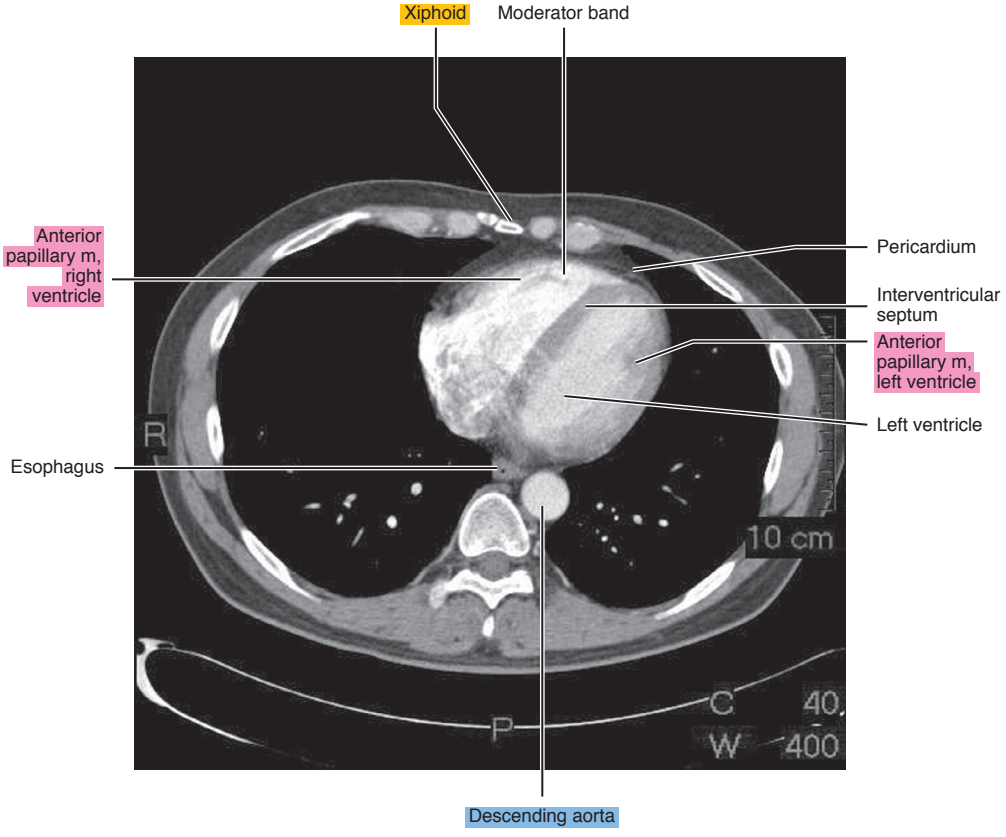

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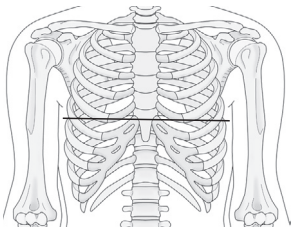

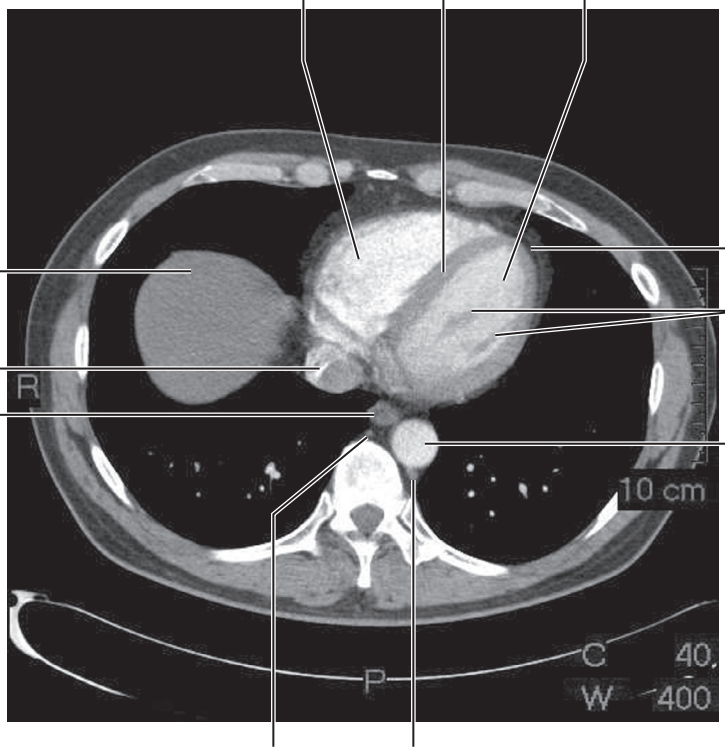

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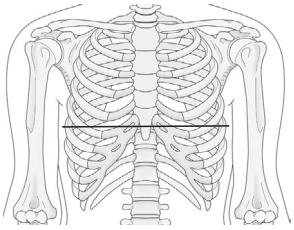

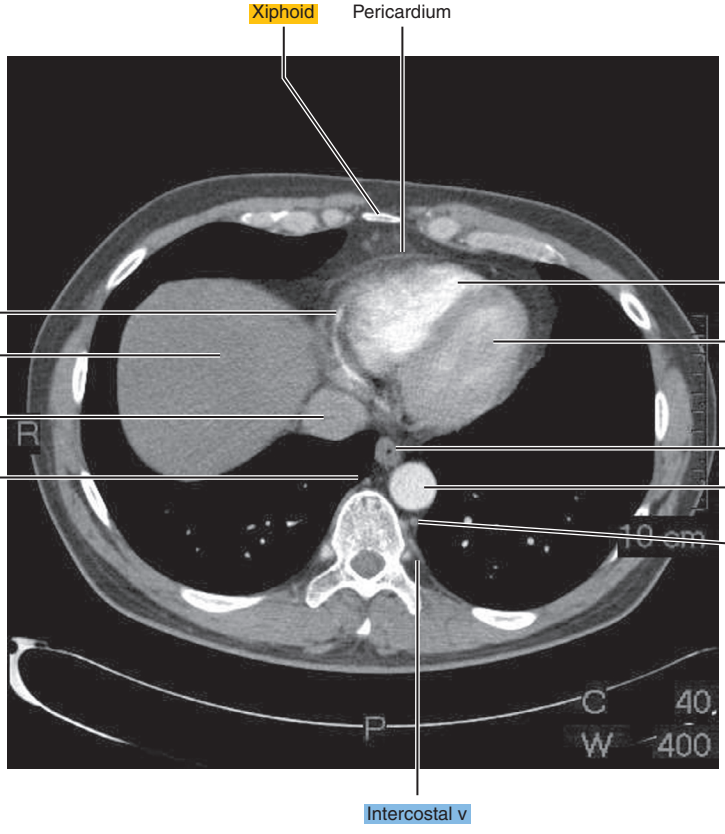

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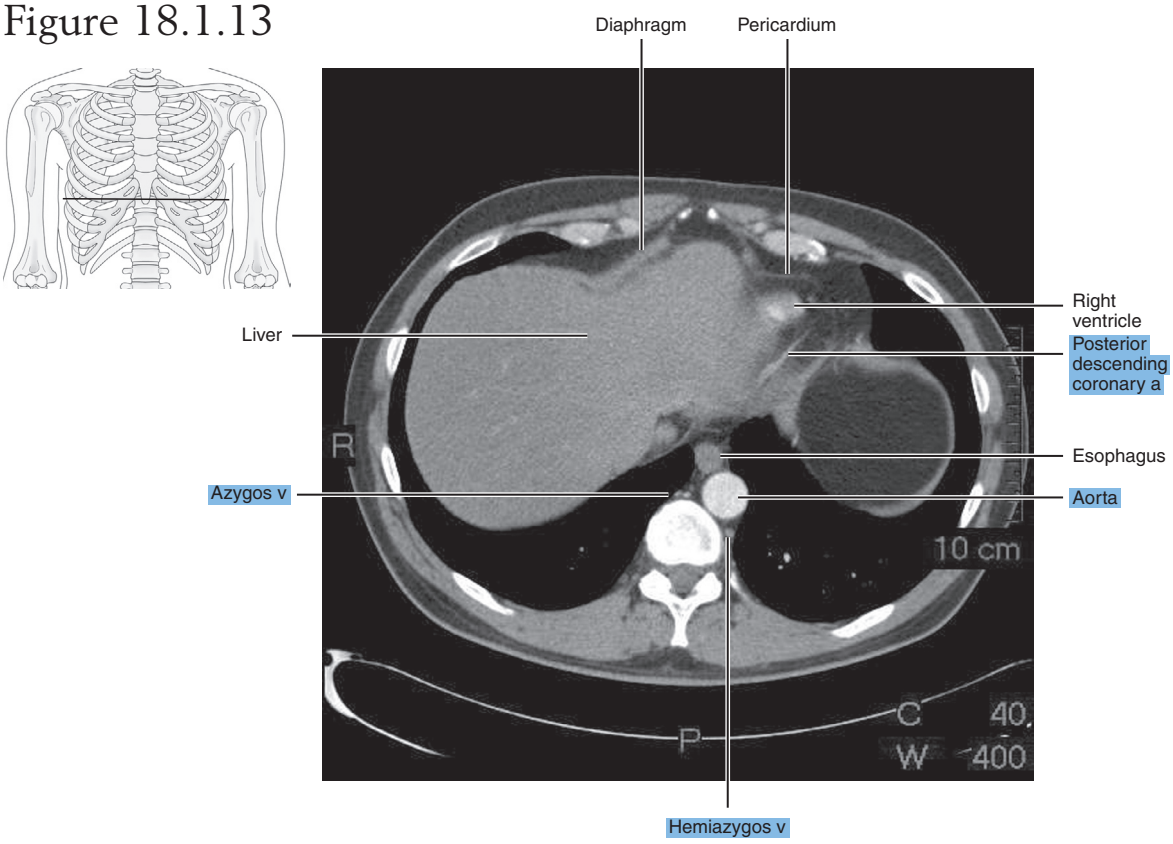

SAGITTAL

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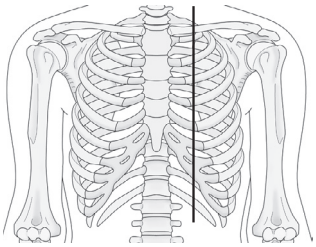

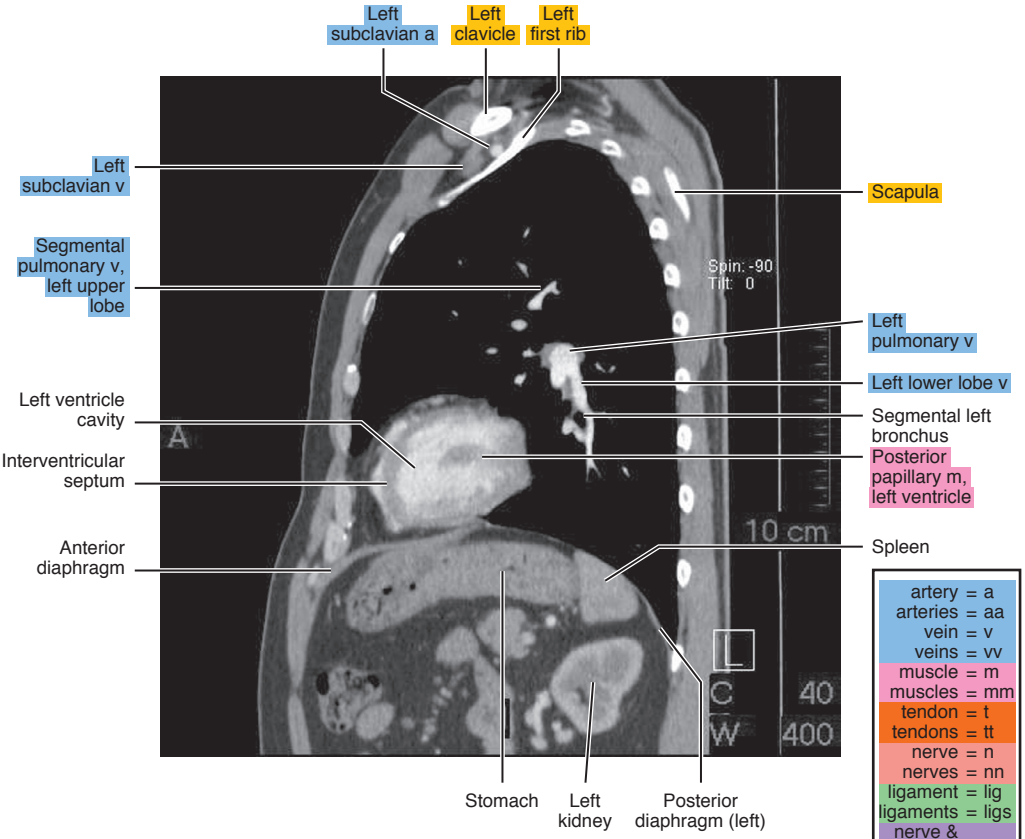

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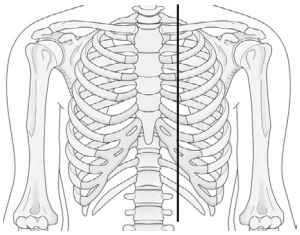

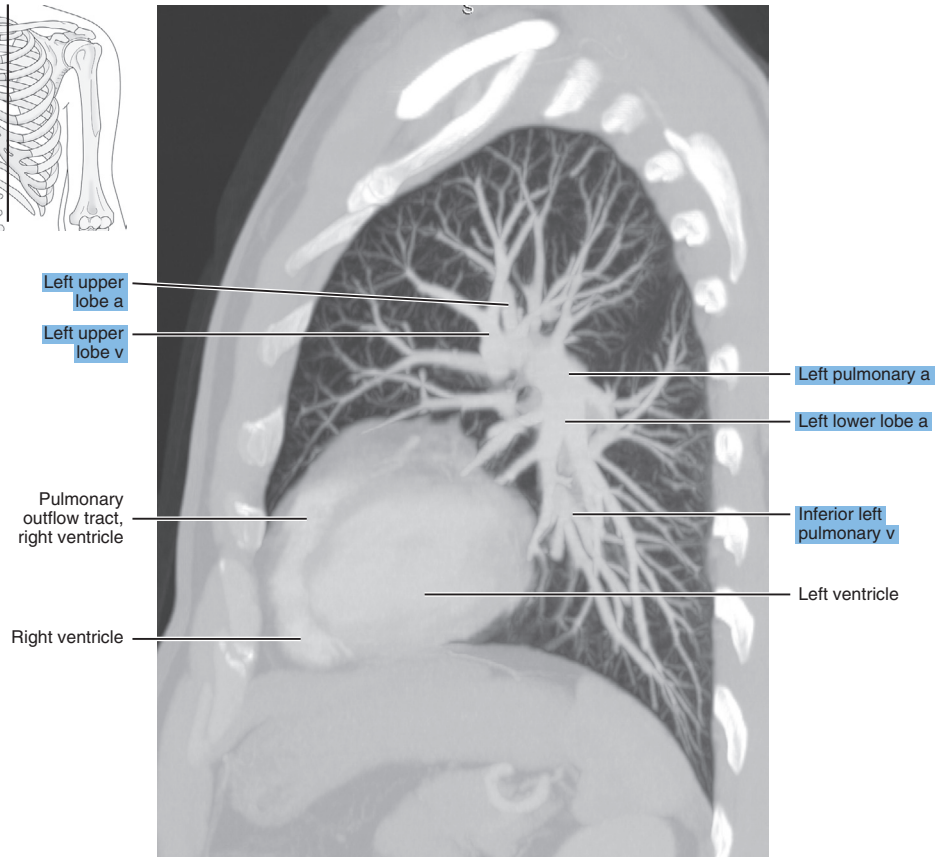

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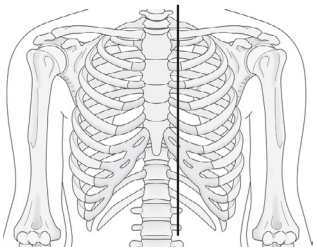

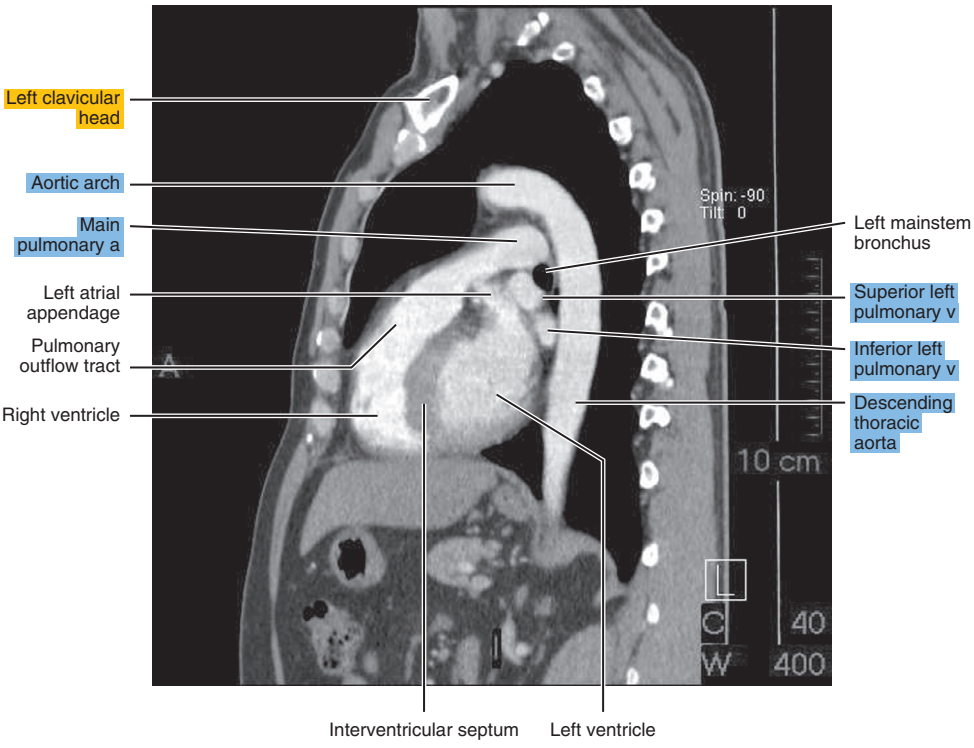

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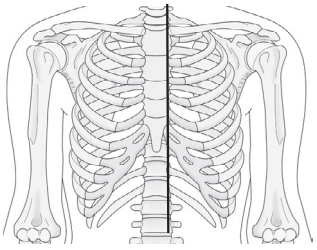

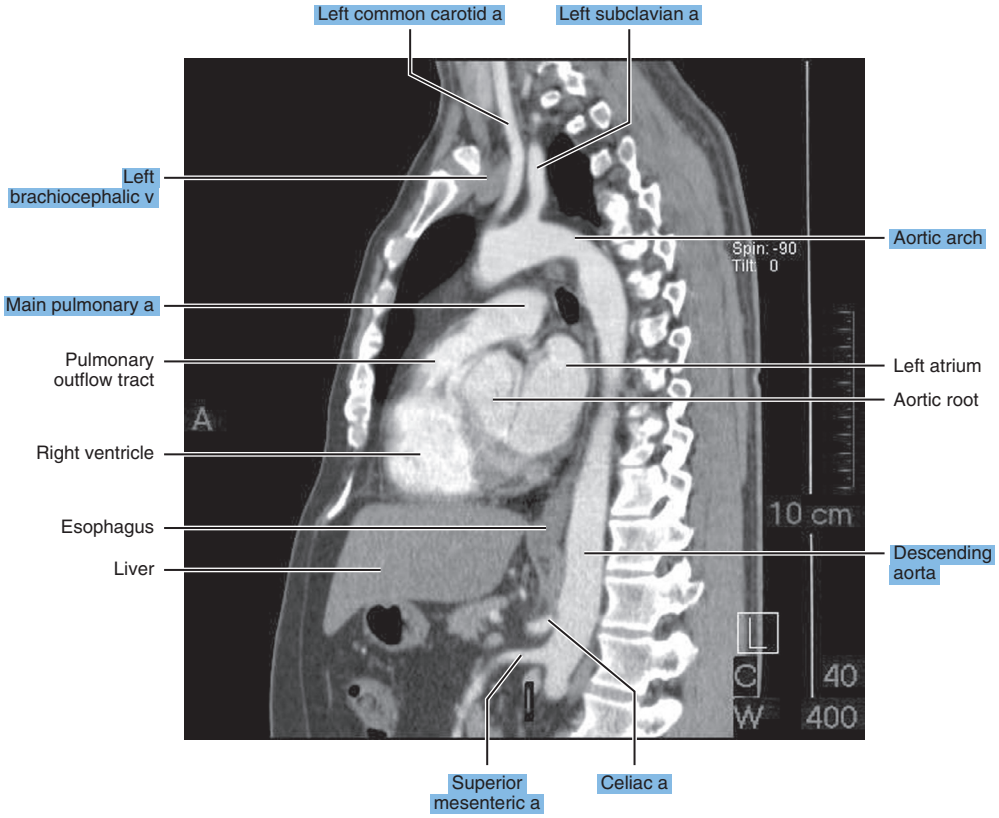

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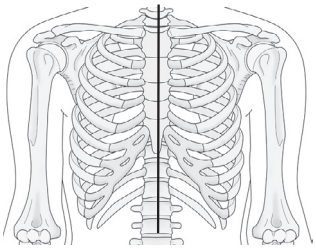

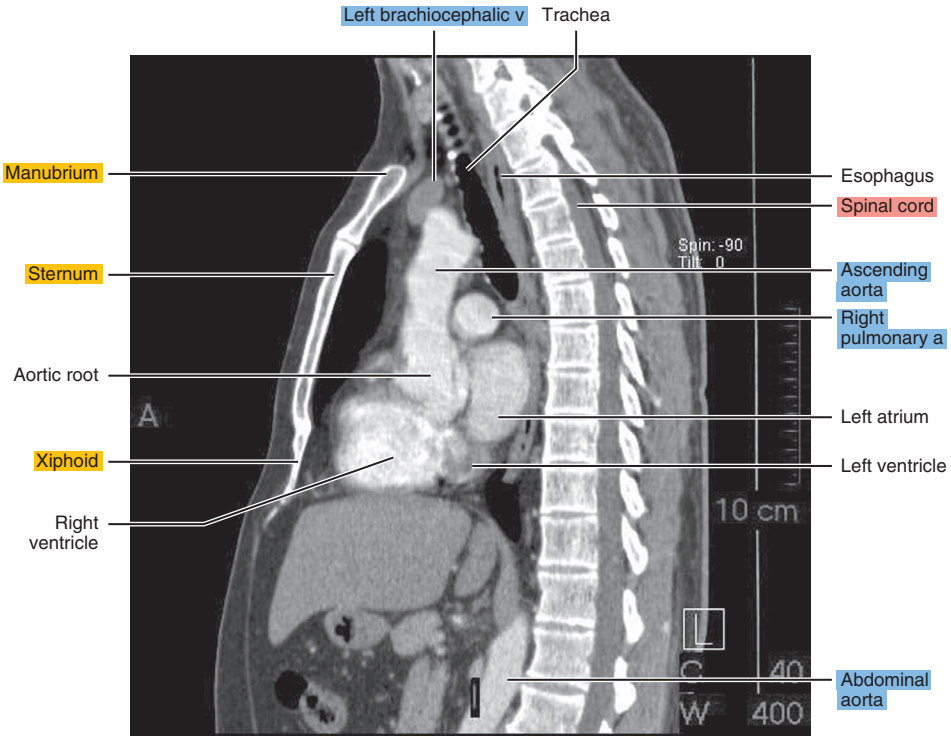

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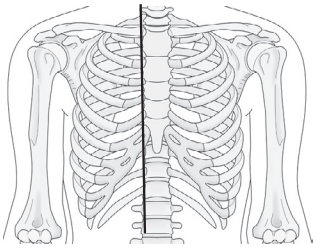

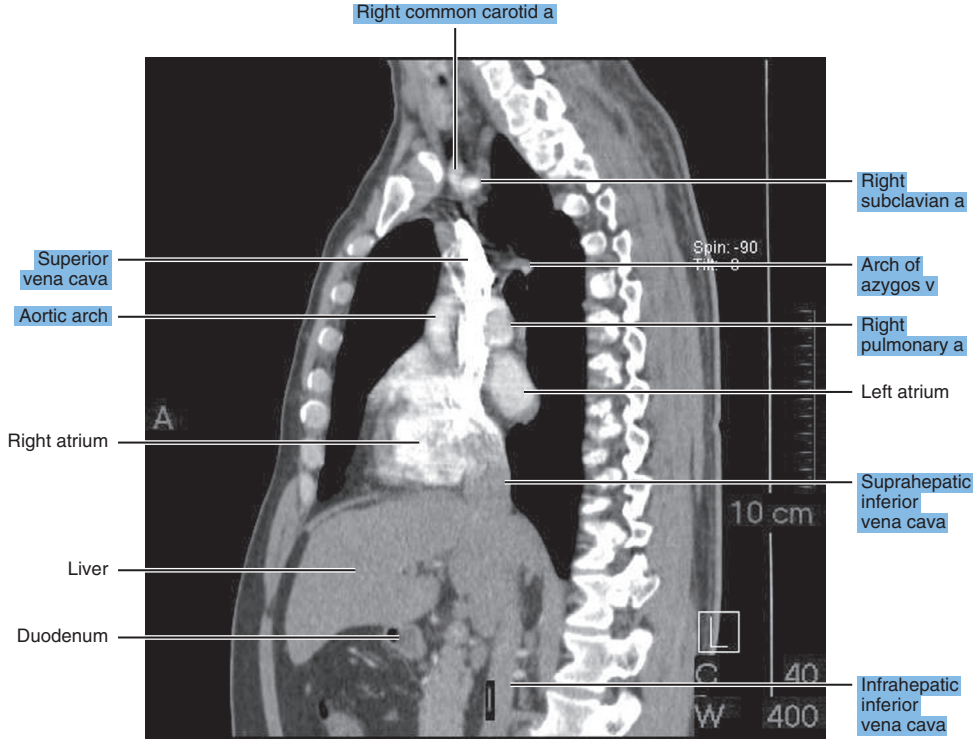

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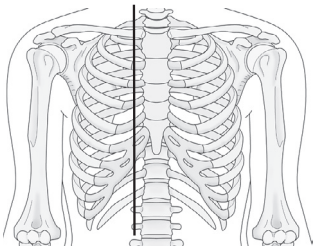
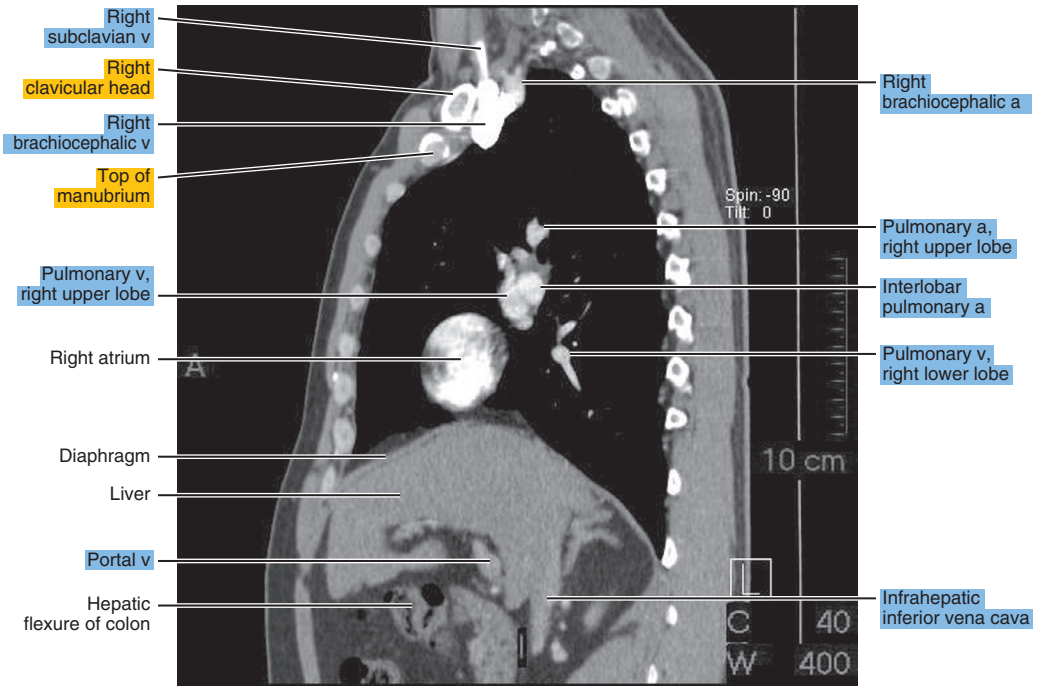
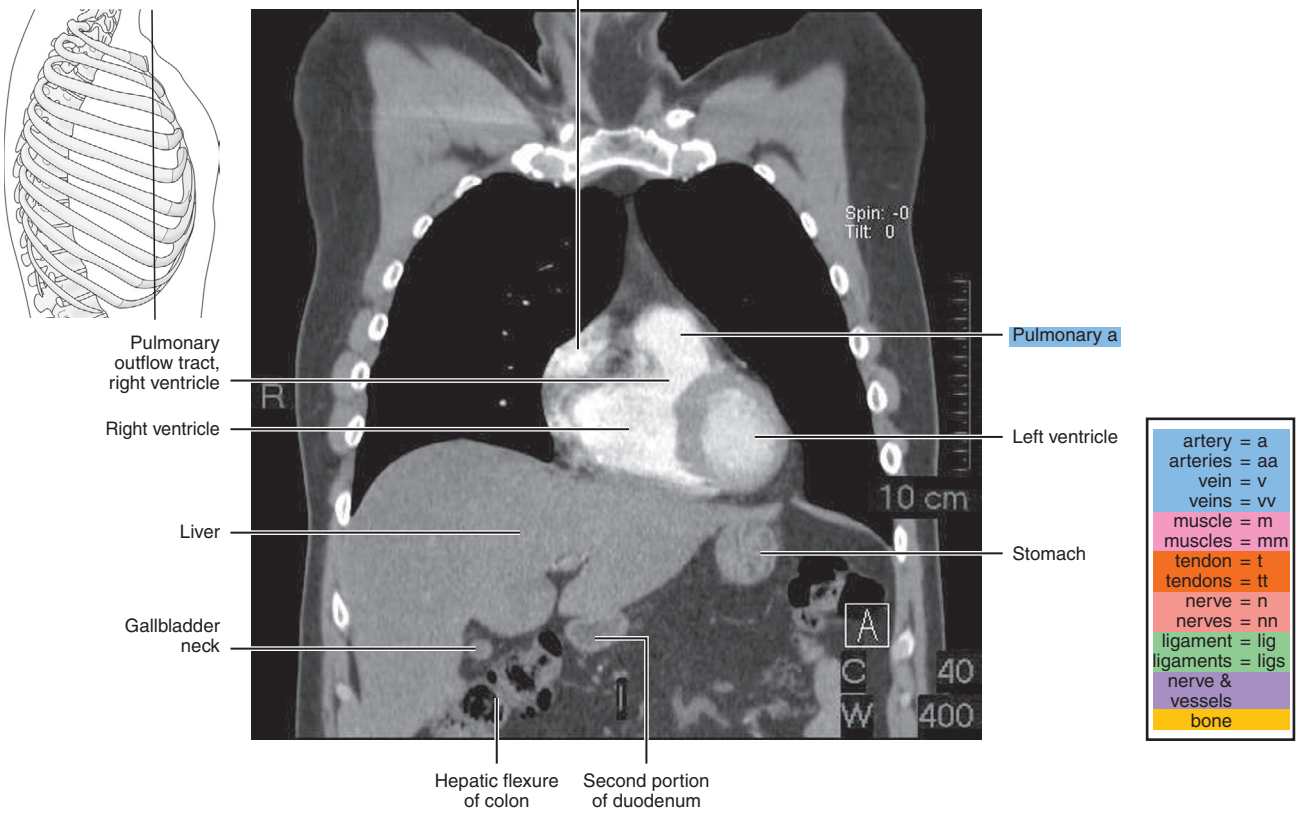



Right subclavian v
Right clavicular head
Right brachiocephalic v
Top of manubrium
Pulmonary v, right upper lobe
Right atrium
Diaphragm
Liver
Portal v
Hepatic flexure of colon
Right brachiocephalic a
Pulmonary a, right upper lobe
Interlobar pulmonary a
Pulmonary v, right lower lobe
Infrahepatic inferior vena cava
Spin: -90
Tilt: 0
A
10 cm
L
C 40
W 400

CORONAL

Figure 18.3.1



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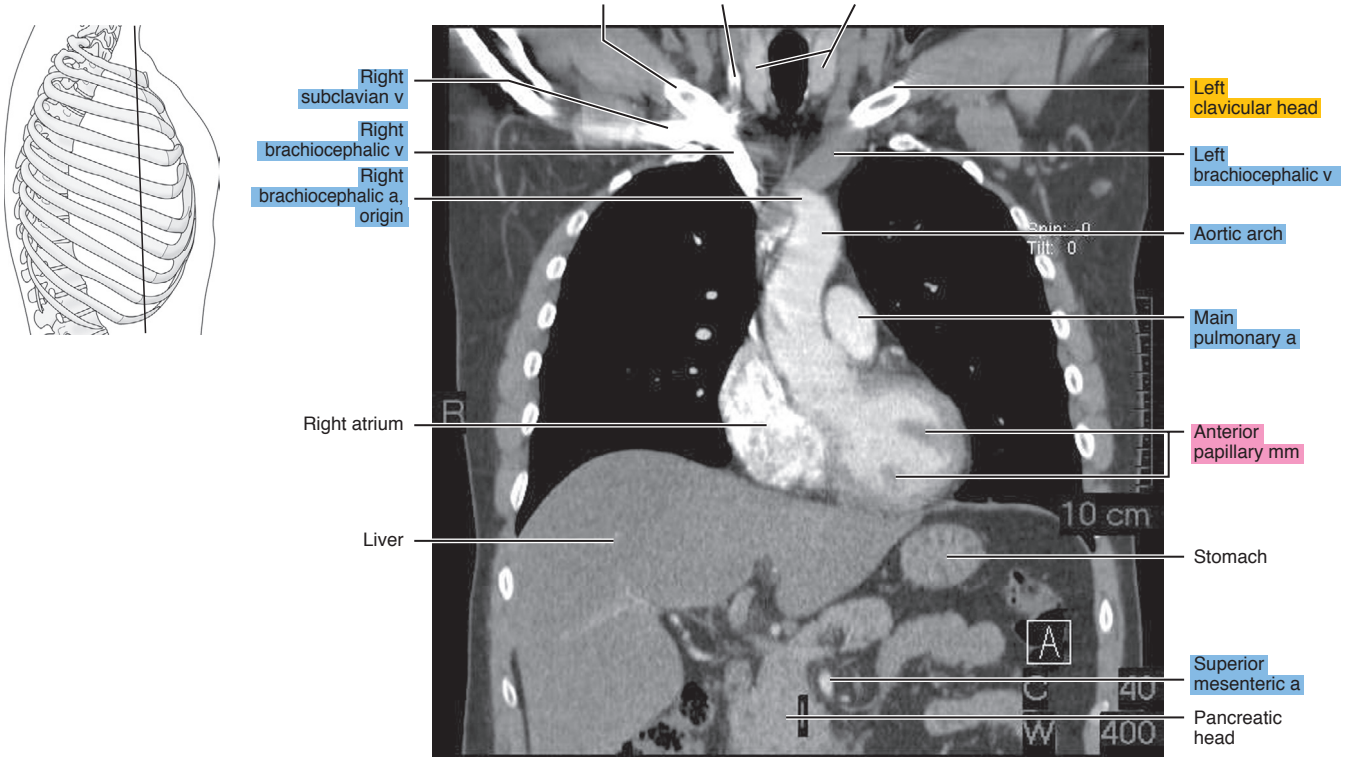

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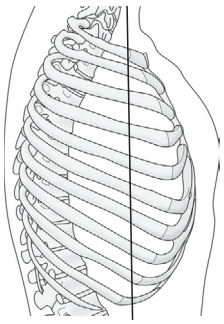

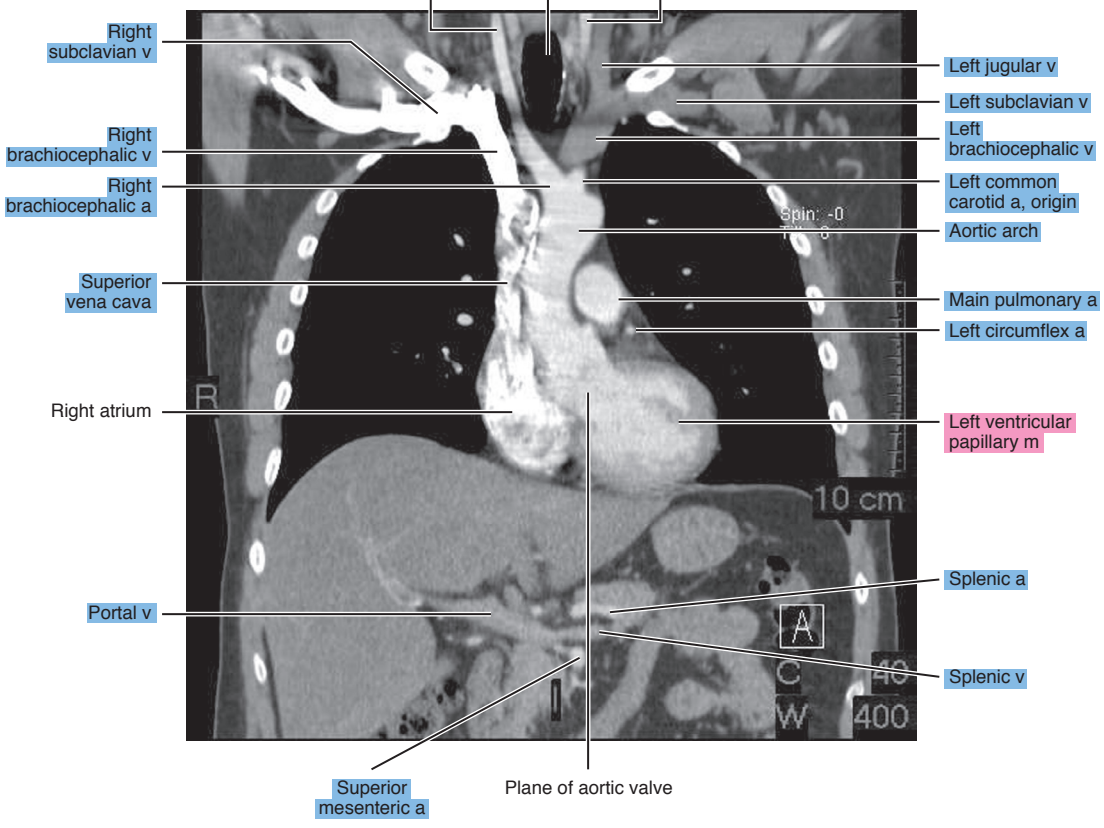

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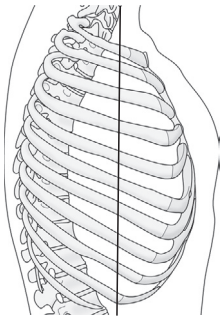

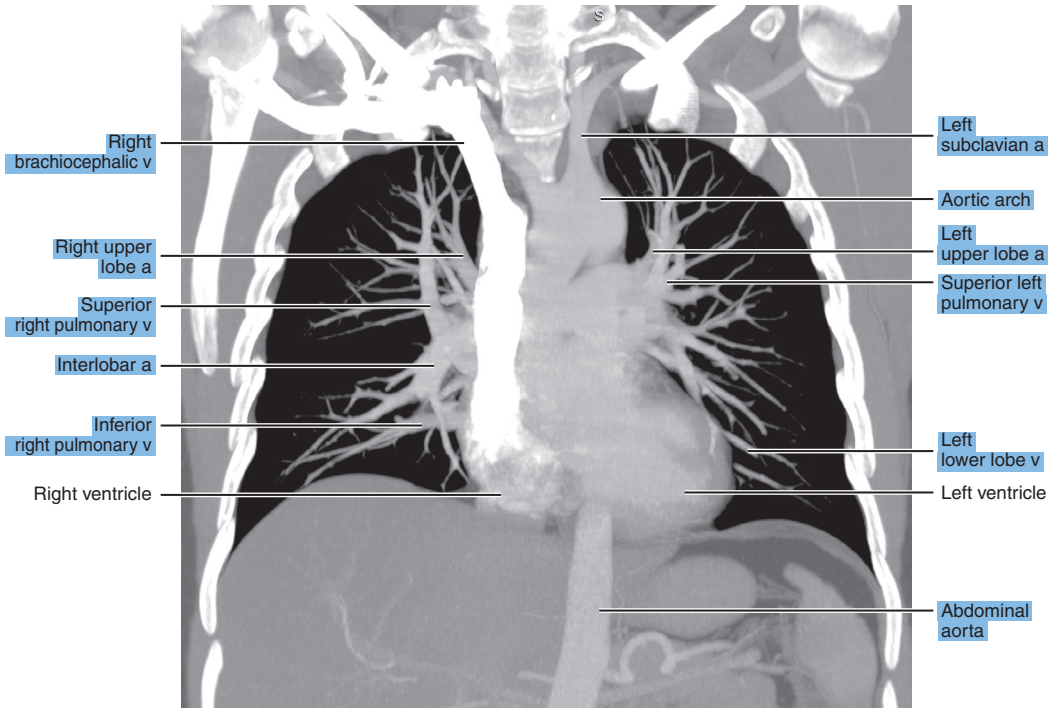

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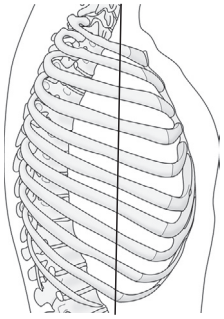

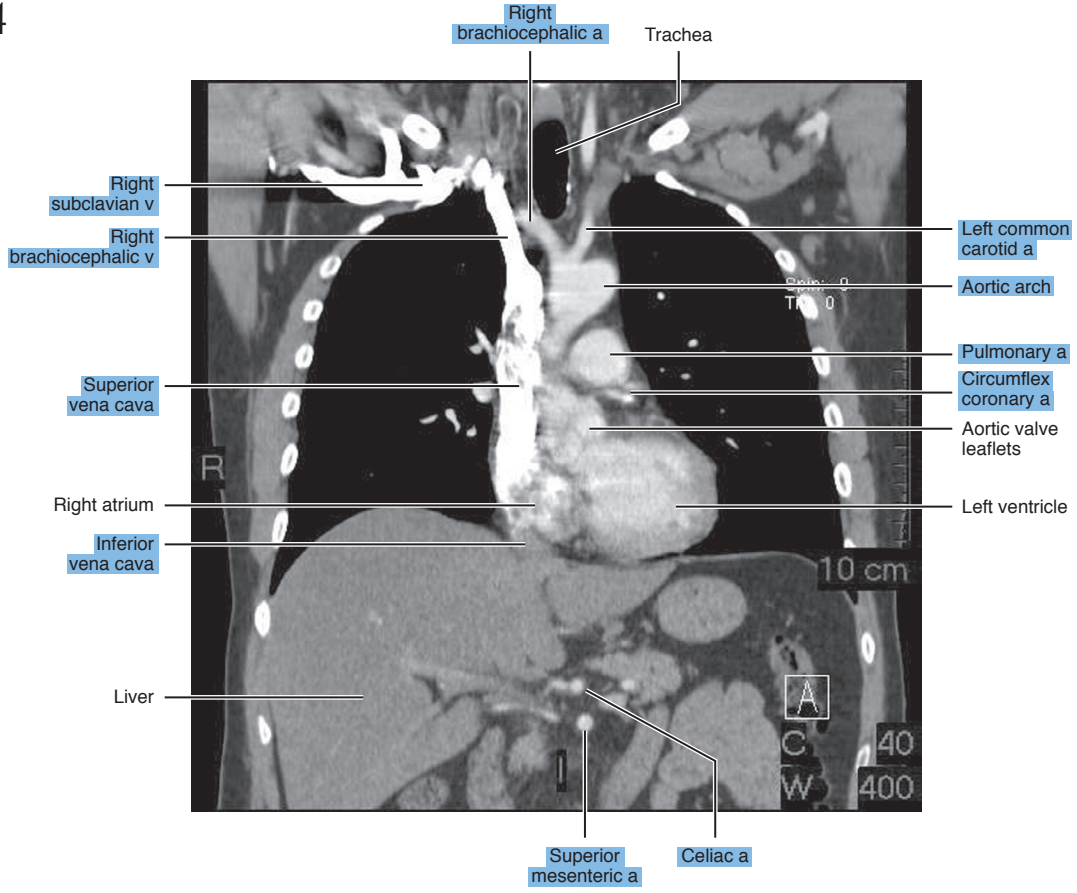

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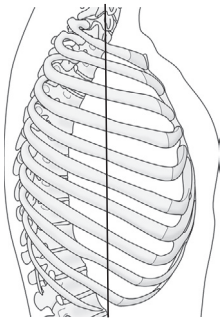


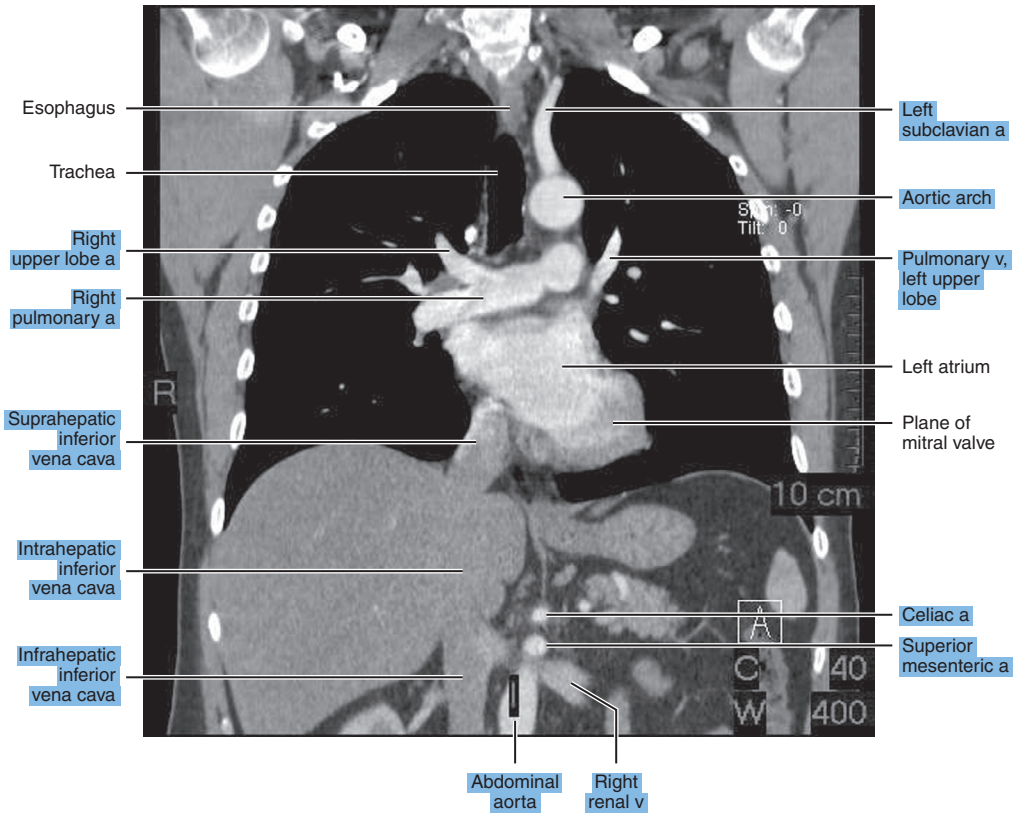
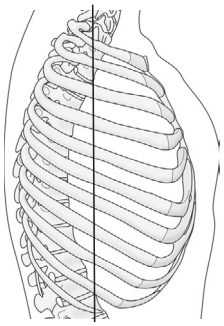


Figure 18.3.6A



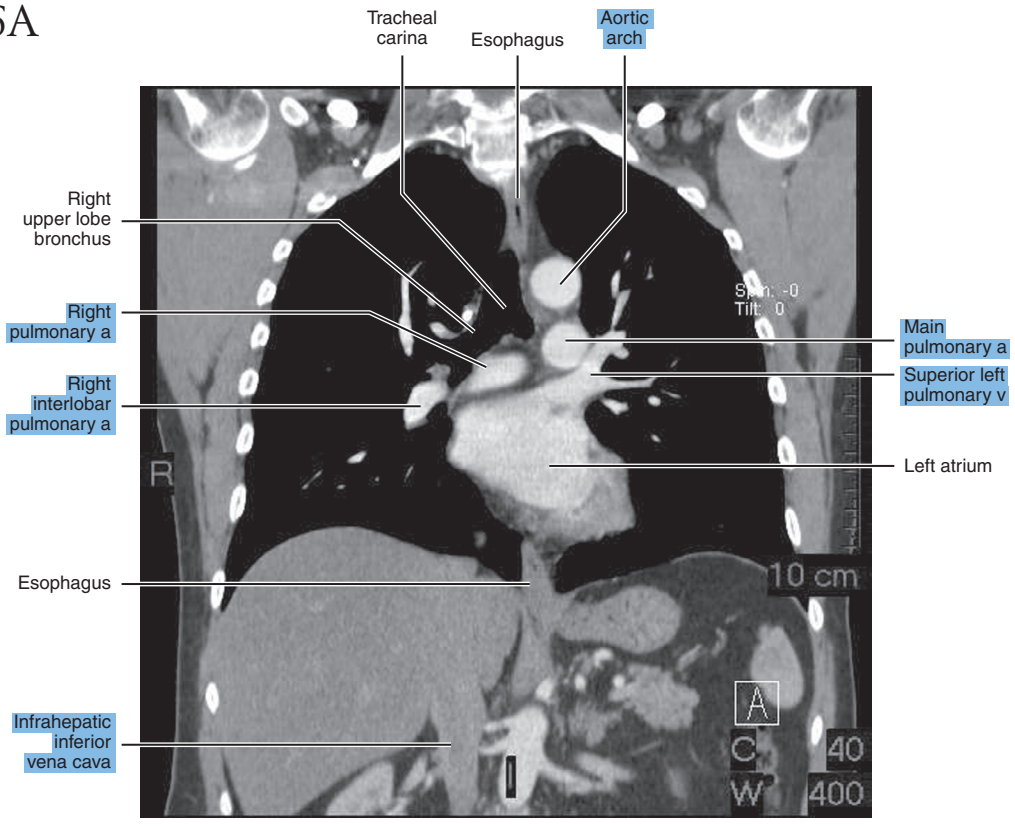
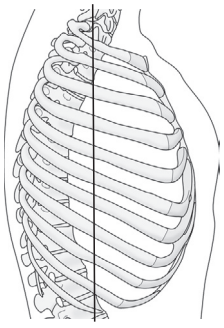


Figure 18.3.6B



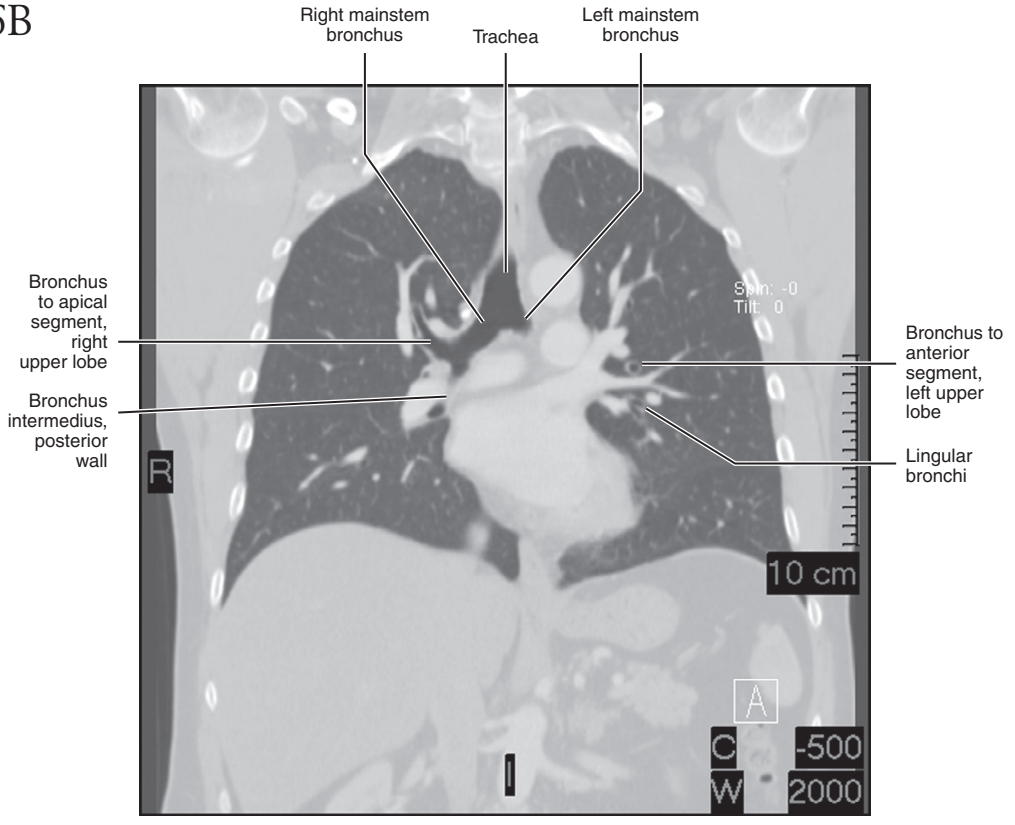
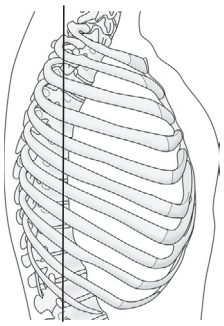


Figure 18.3.7A



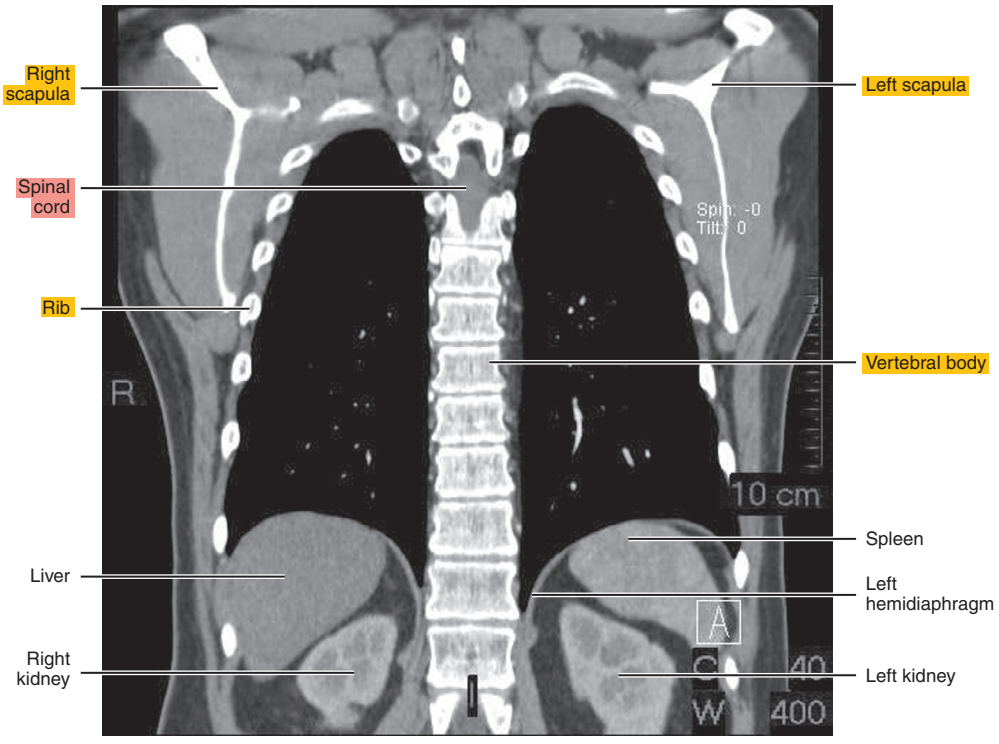
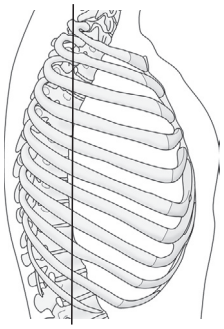
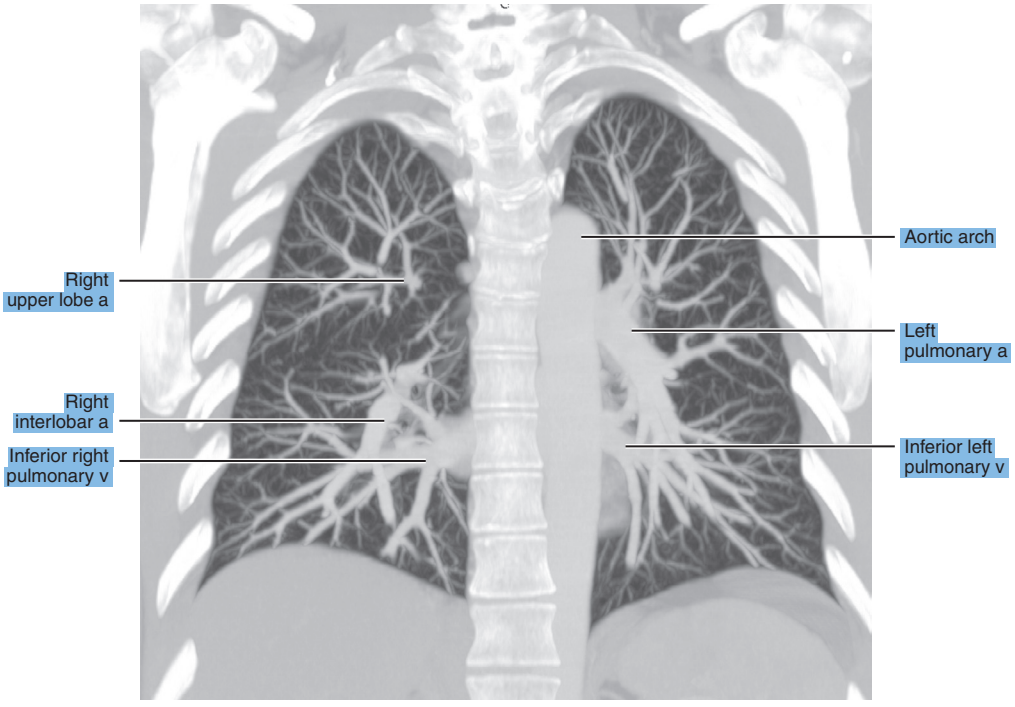


Figure 18.3.7B





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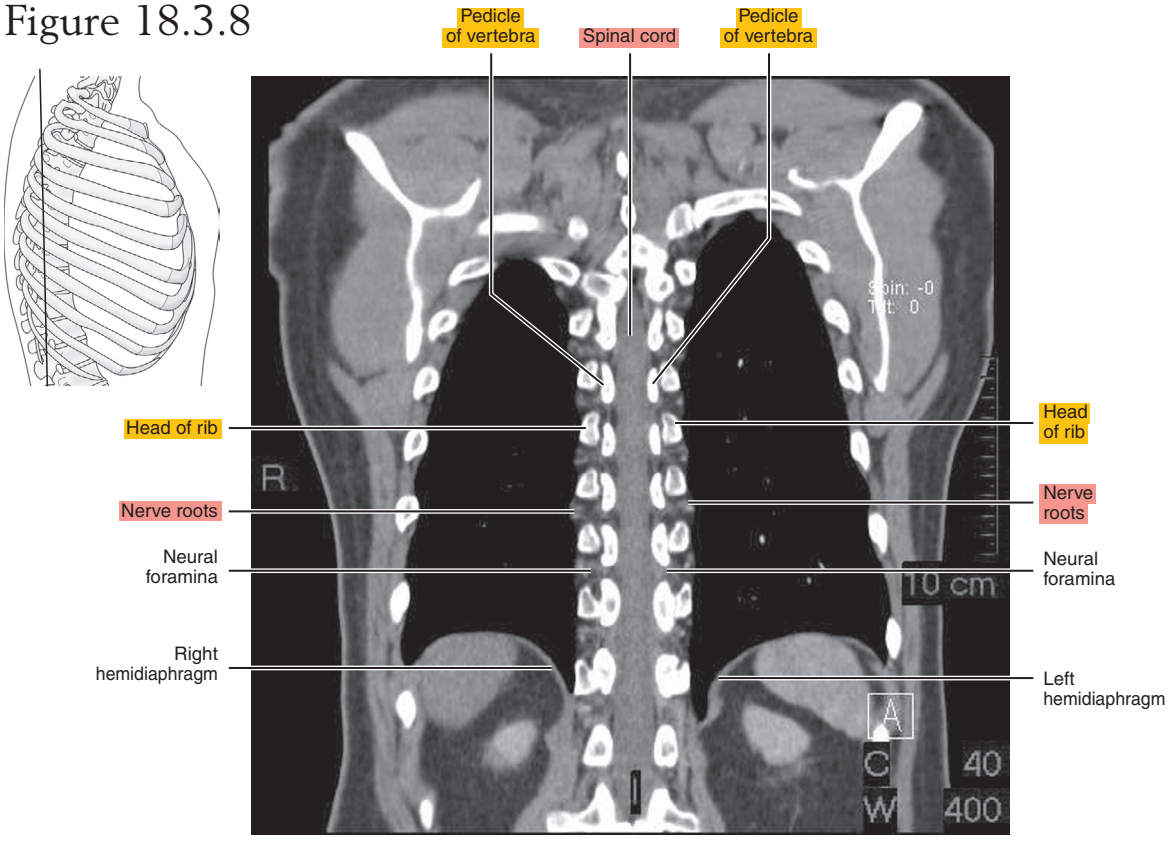

Pedicle of vertebra
Spinal cord
Pedicle of vertebra
Head of rib
Nerve roots
Neural foramina
Right hemidiaphragm
Head of rib
Nerve roots
Neural foramina
Left hemidiaphragm
R
10 cm
A
C
W
40
400

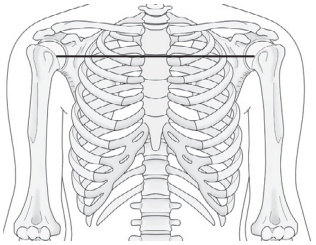
Chapter

19

MRI of the Heart

AXIAL

Figure 19.1.1



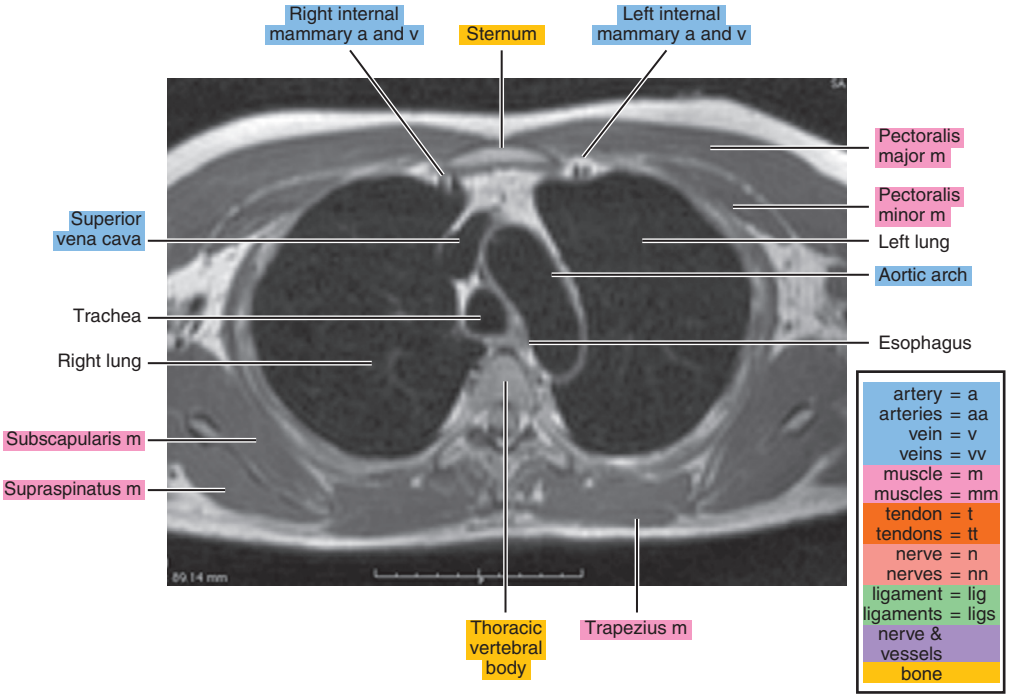
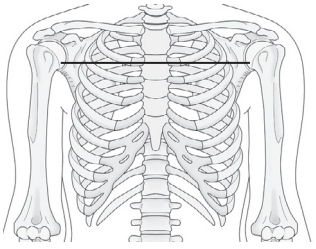


Figure 19.1.2



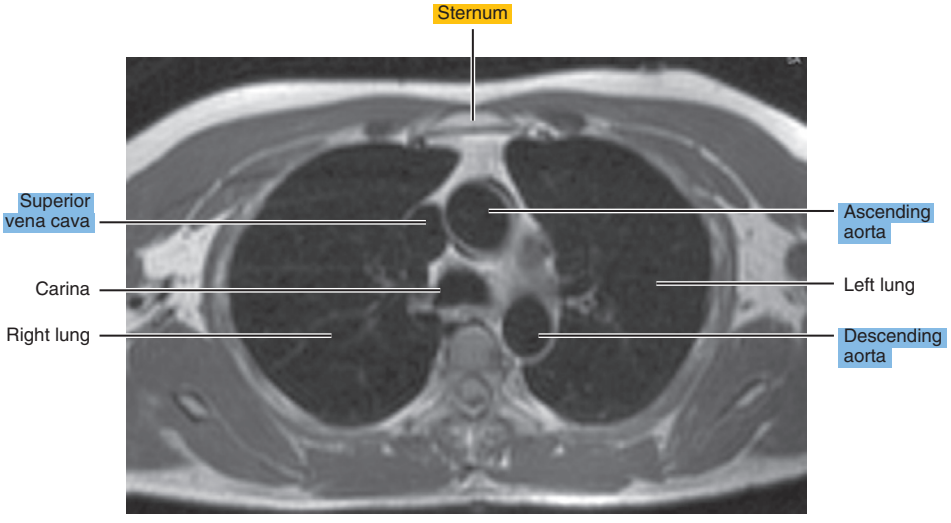
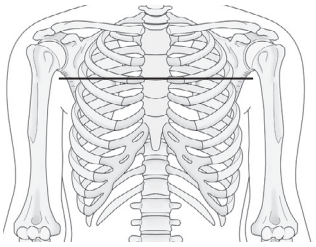


Figure 19.1.3



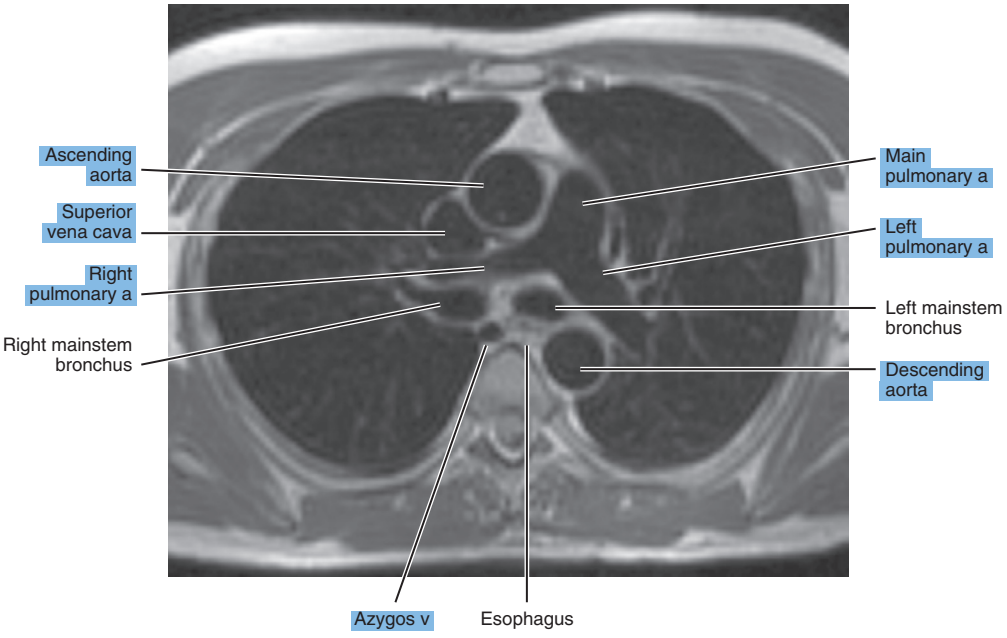
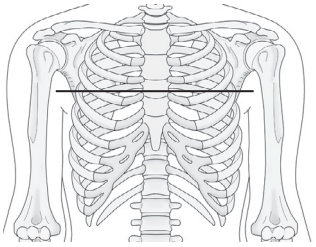


Figure 19.1.4



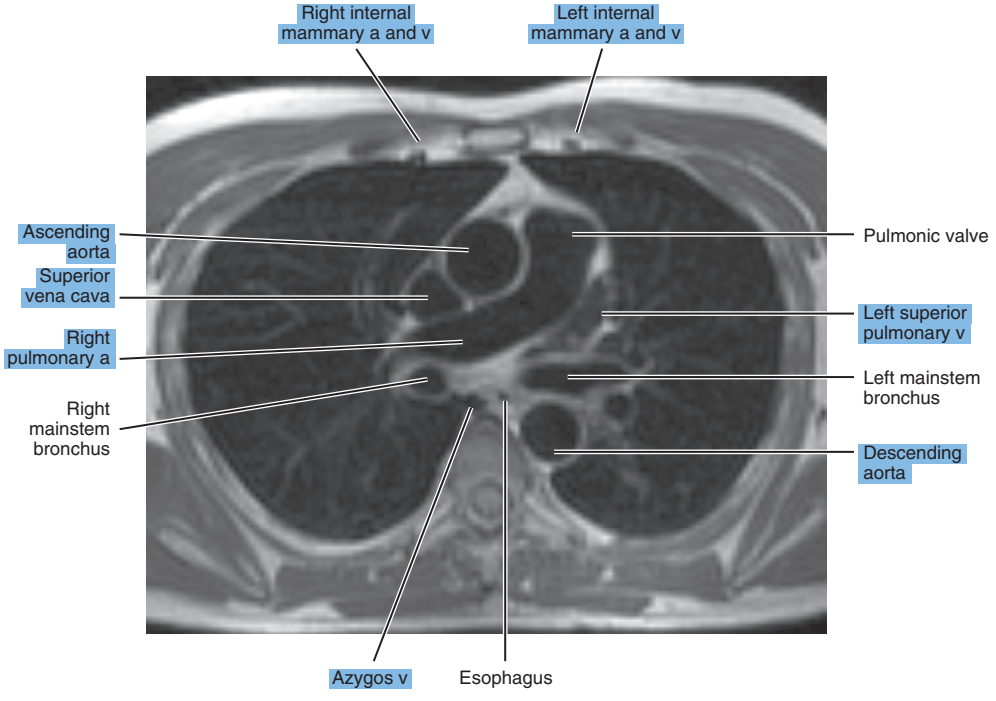
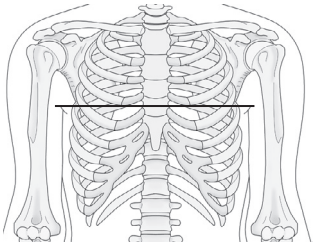
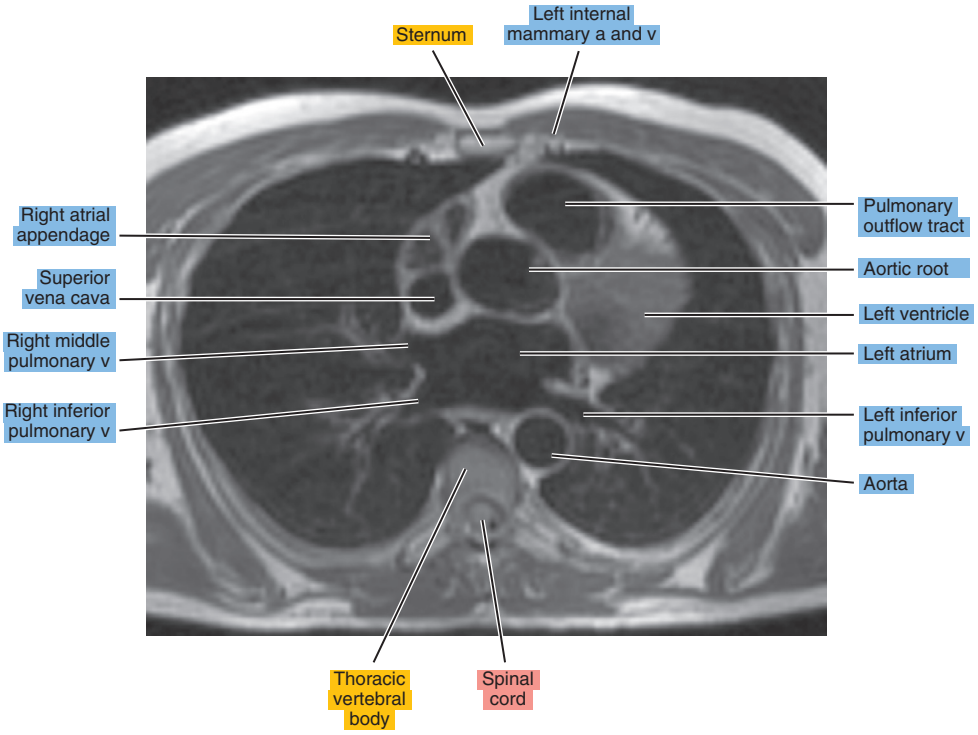


Figure 19.1.5





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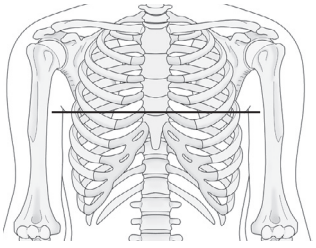

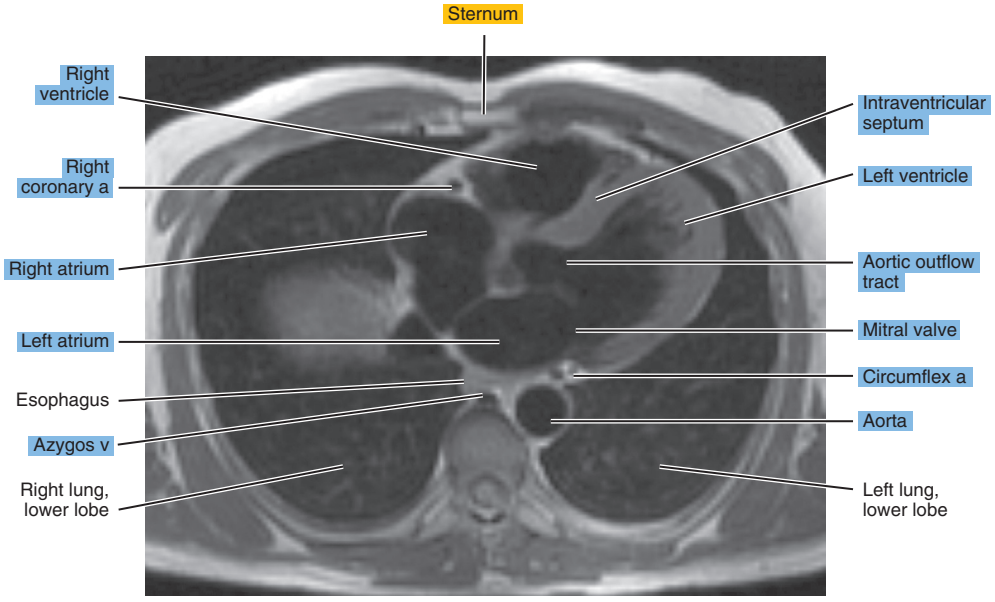

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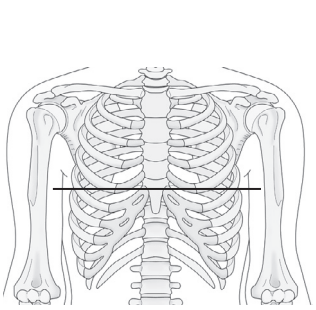
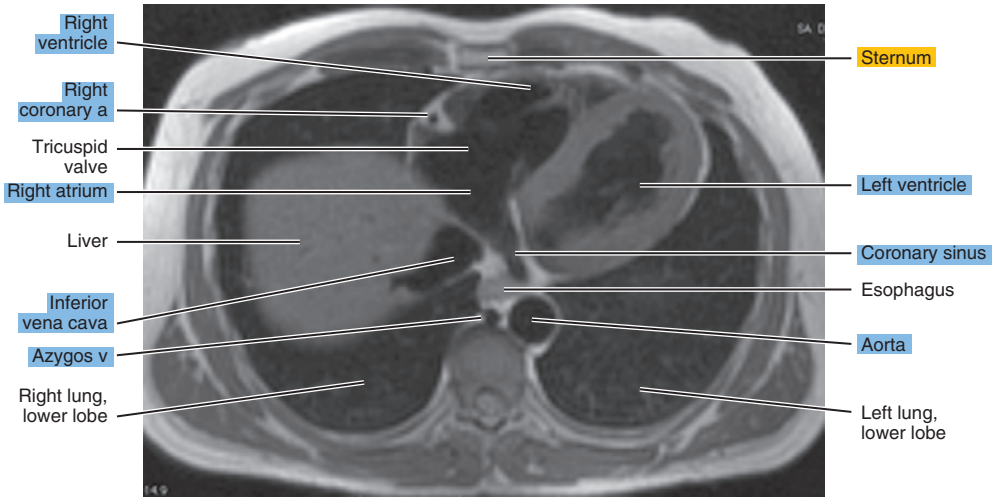
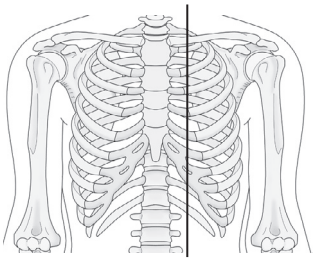
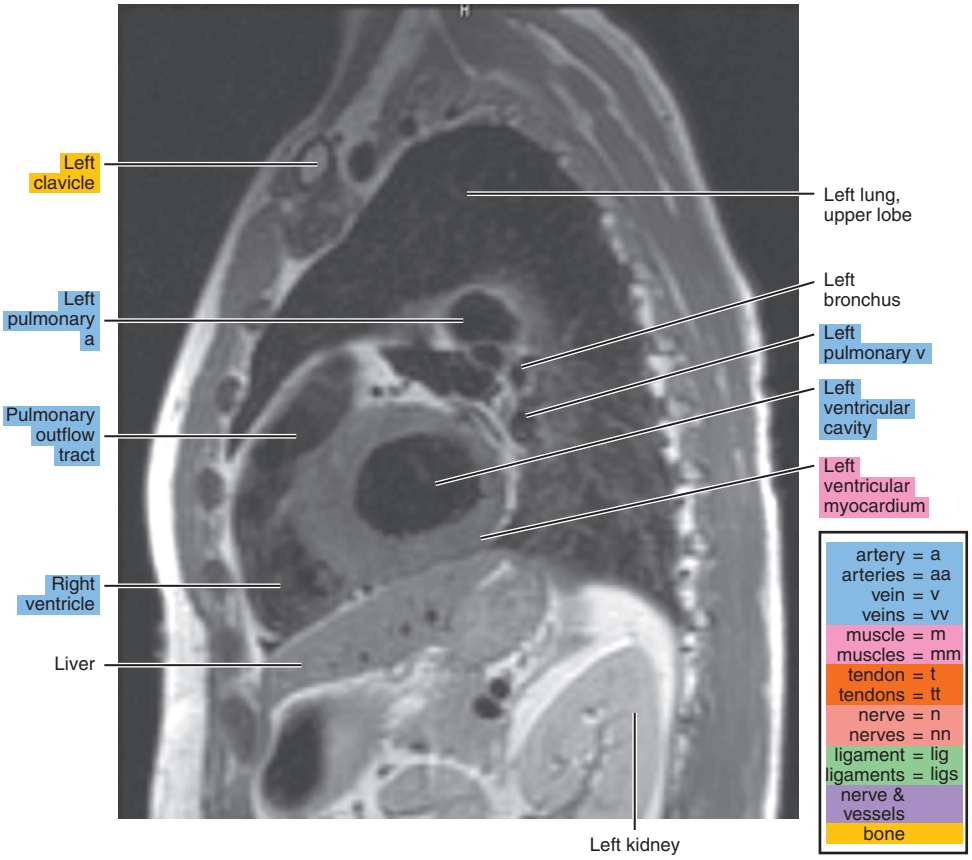



Right ventricle
Right coronary a
Tricuspid valve
Right atrium
Liver
Inferior vena cava
Azygos v
Right lung, lower lobe
Sternum
Left ventricle
Coronary sinus
Esophagus
Aorta
Left lung, lower lobe

SAGITTAL

Figure 19.2.1





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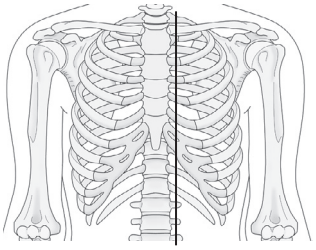


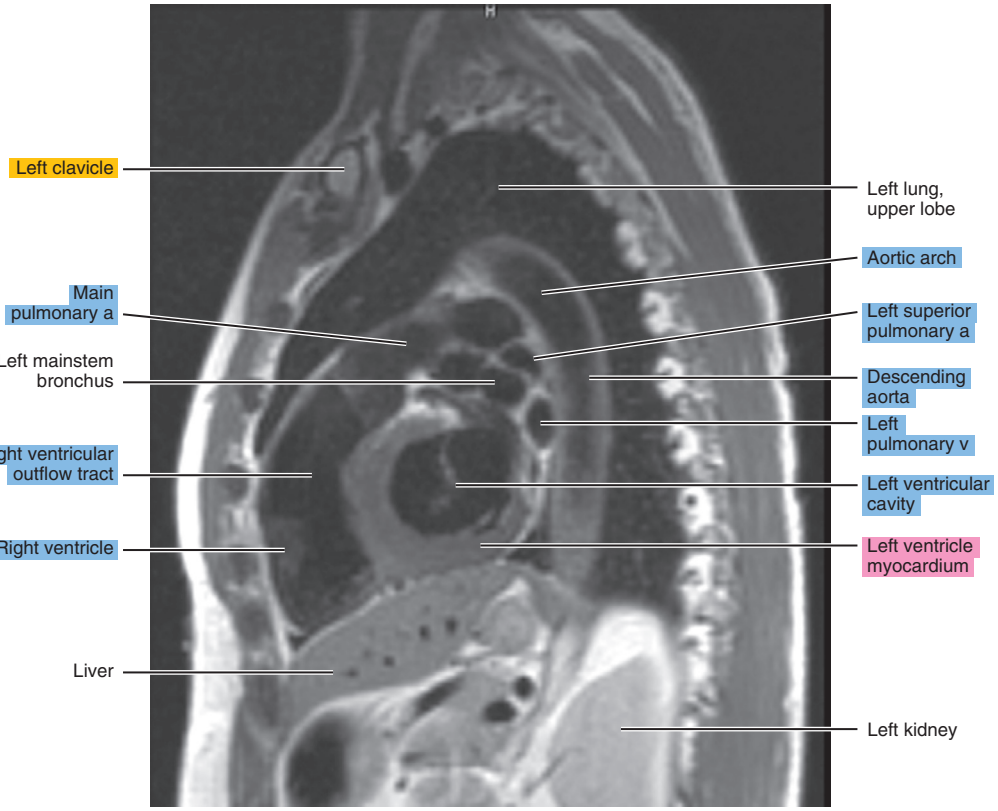
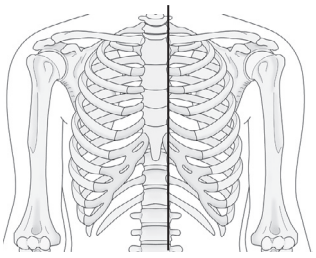


Figure 19.2.3



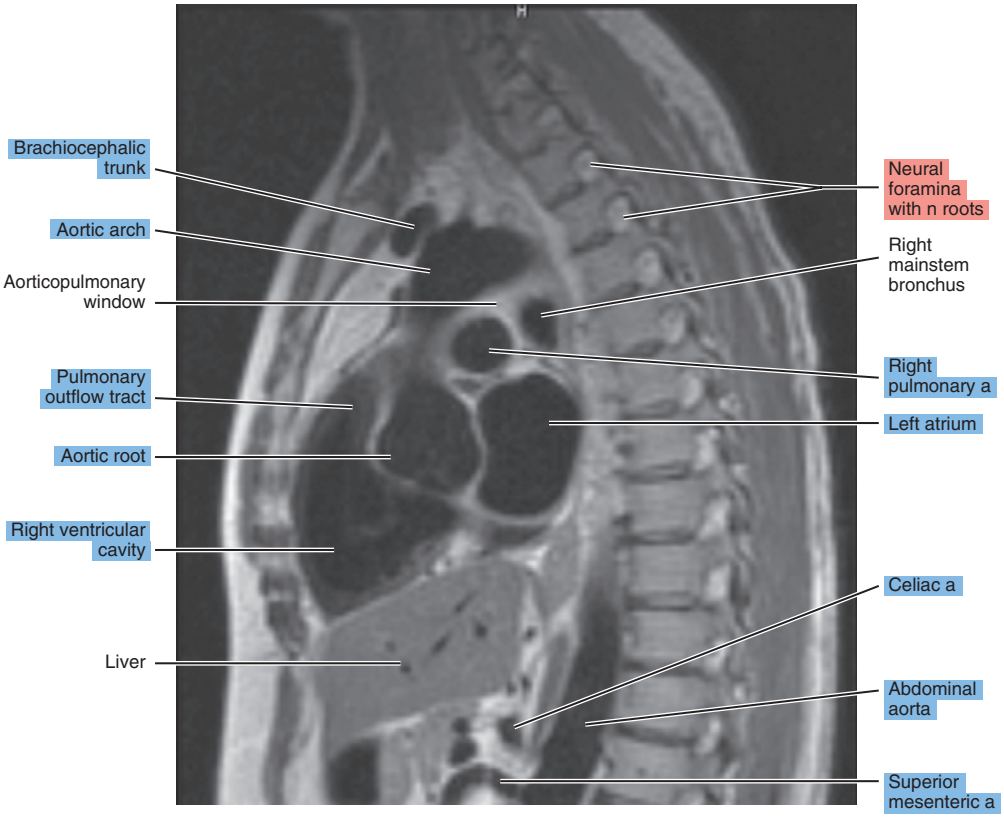
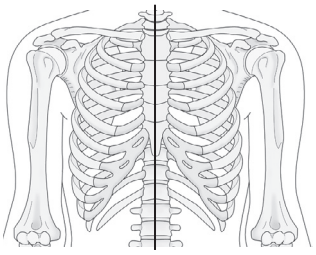
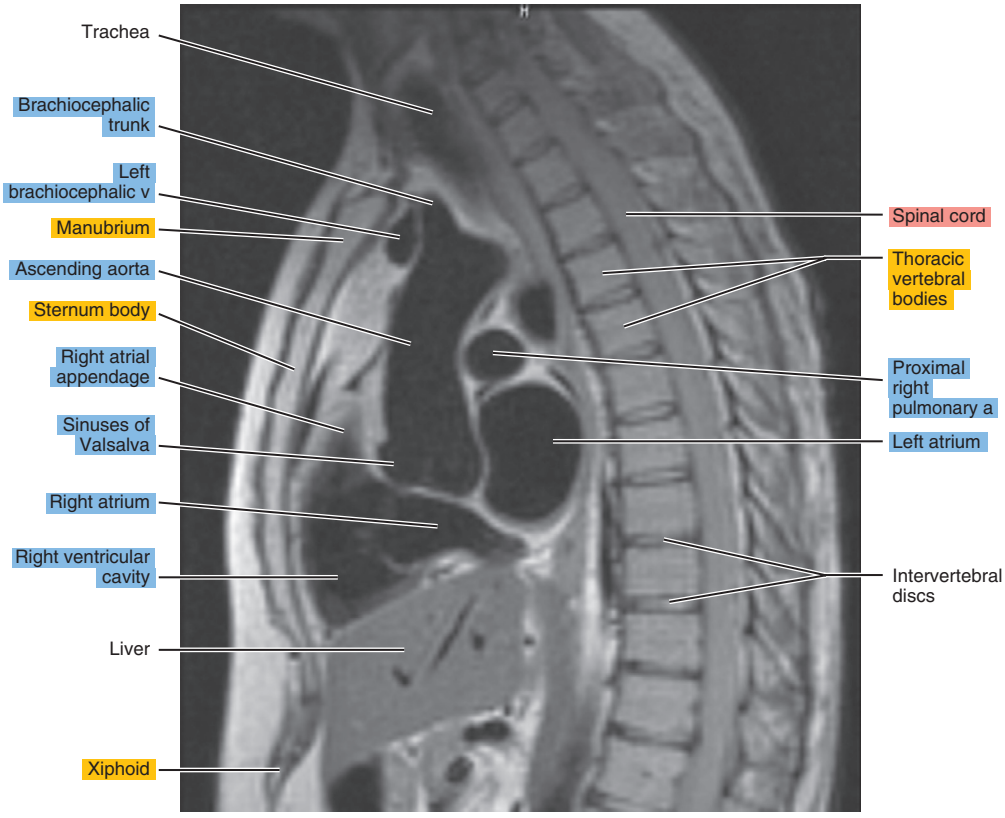


Figure 19.2.4





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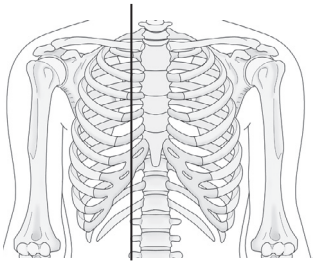
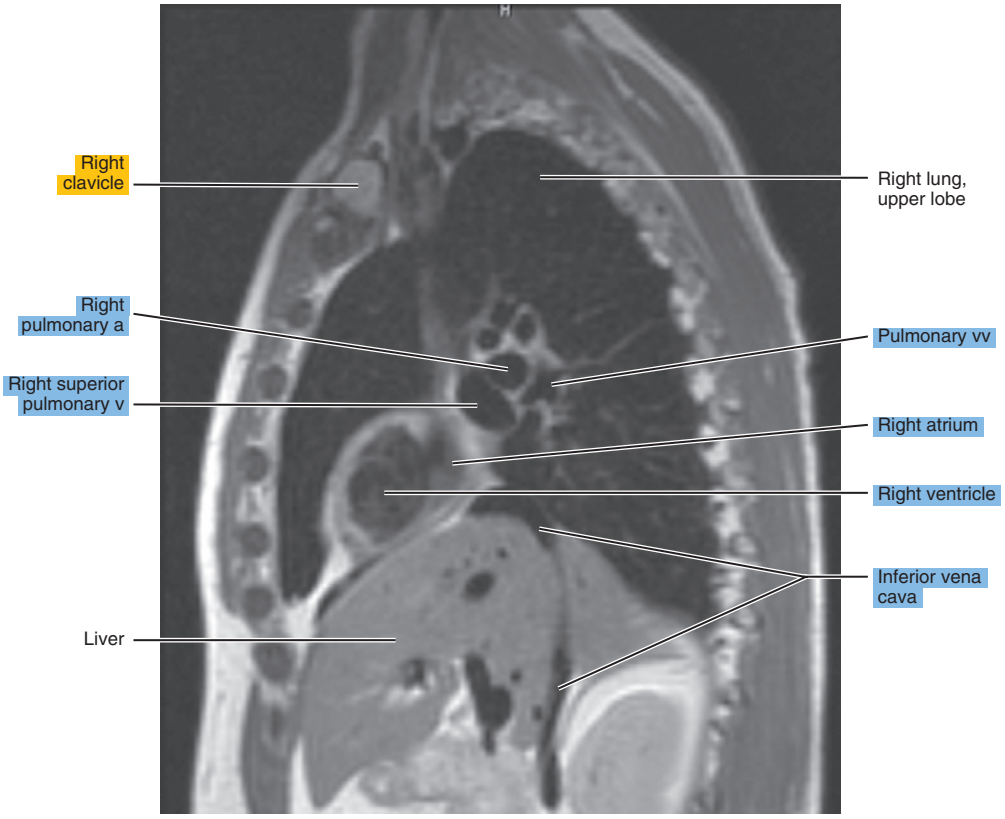
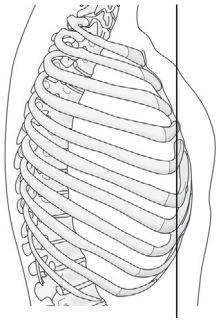



Right clavicle
Right lung, upper lobe
Right pulmonary a
Pulmonary vv
Right superior pulmonary v
Right atrium
Right ventricle
Inferior vena cava
Liver

CORONAL

Figure 19.3.1



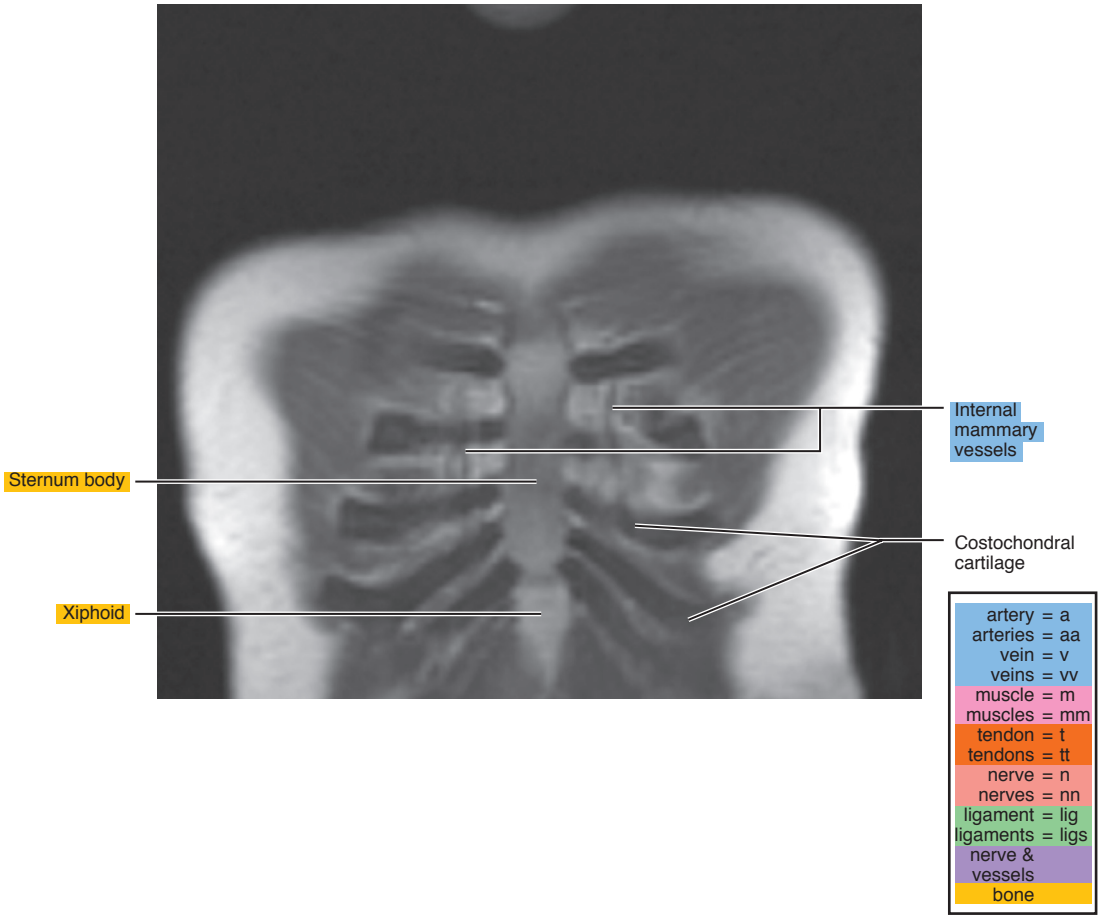
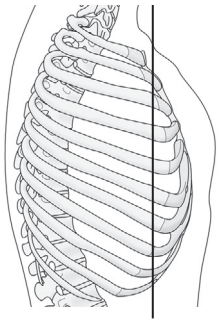


Figure 19.3.2



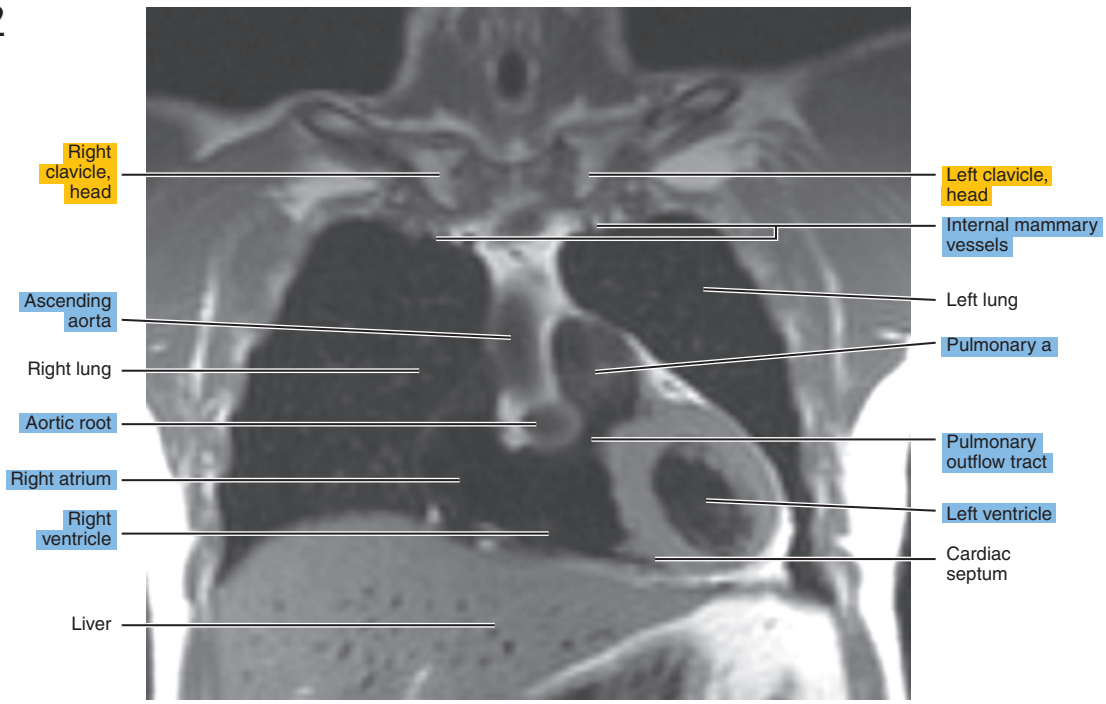
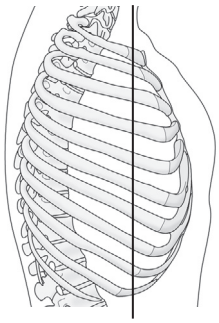


Figure 19.3.3



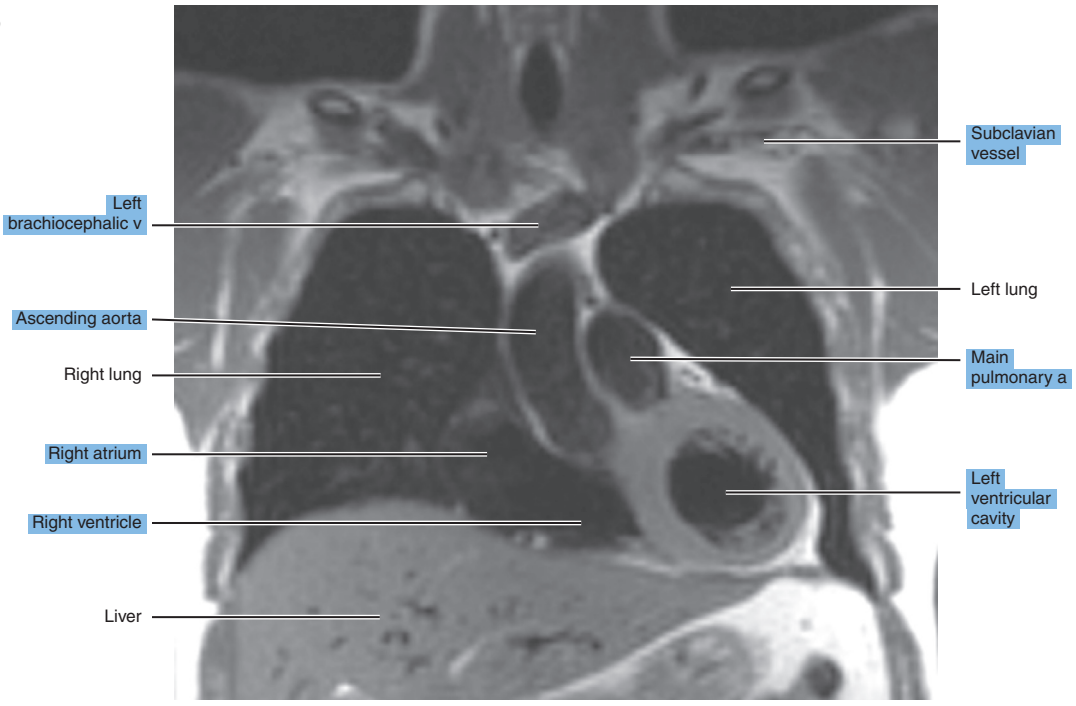
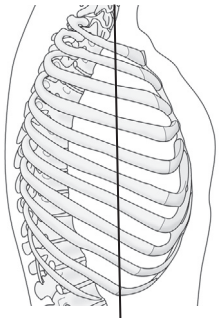


Figure 19.3.4



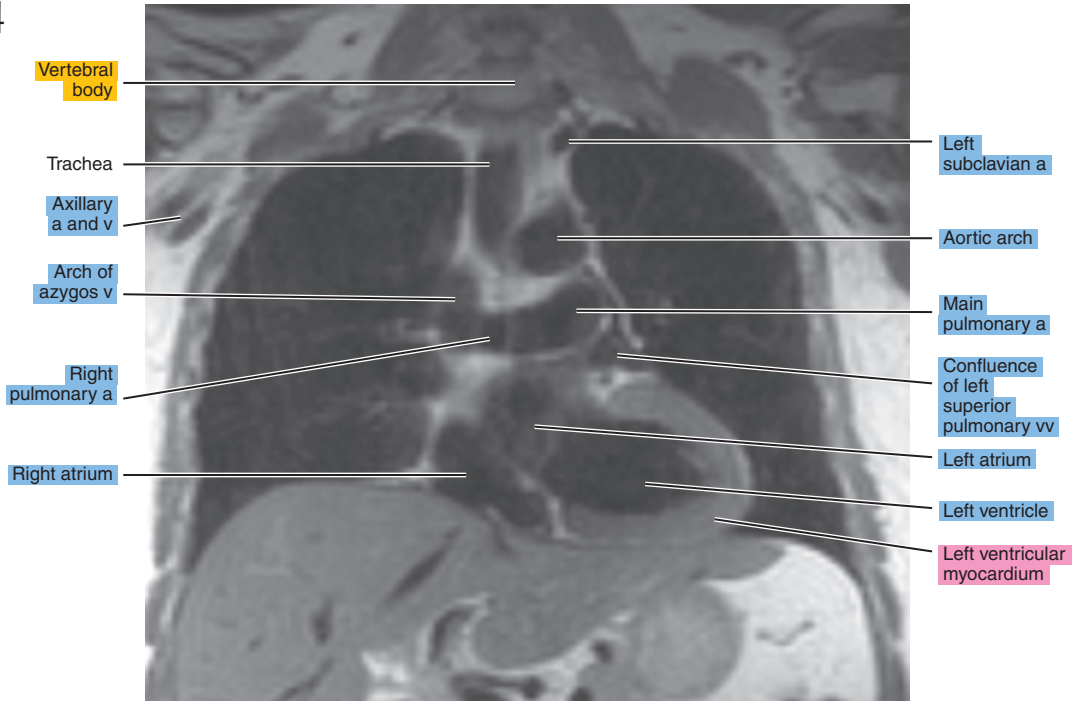
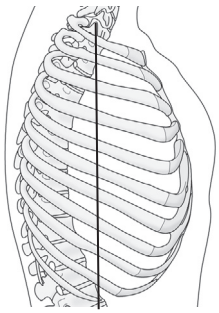
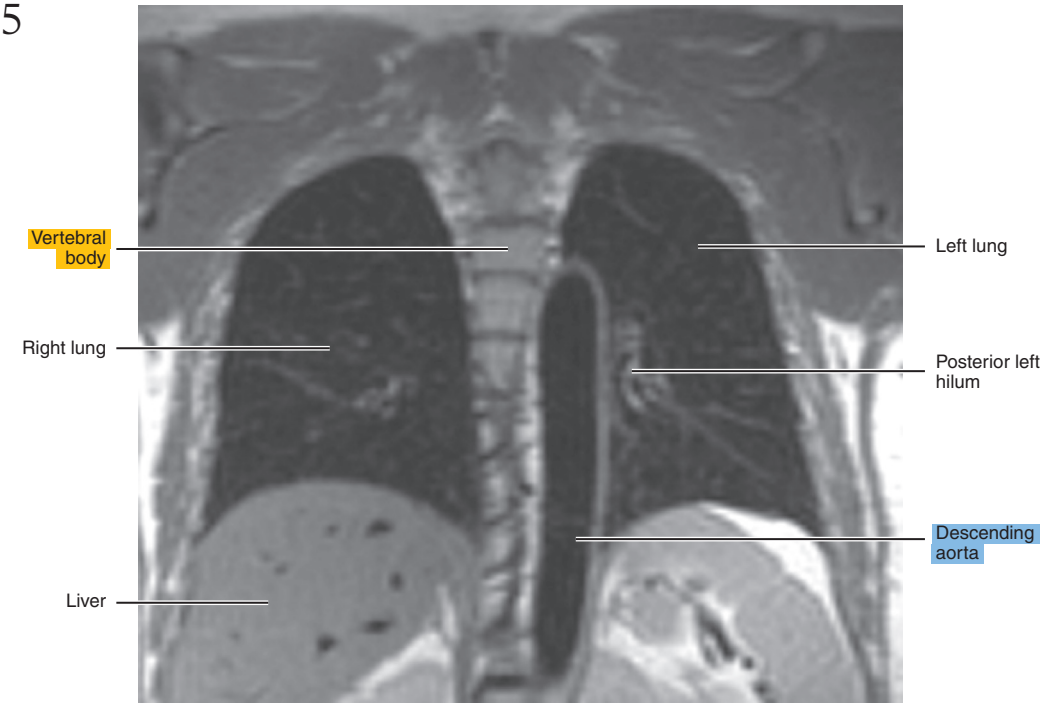


Figure 19.3.5




Vertebral body
Right lung
Liver
Left lung
Posterior left hilum
Descending aorta

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Section

V

Abdomen

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Chapter

20

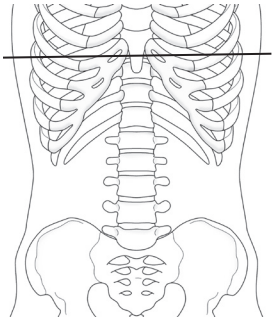
CT of the Abdomen

Table 20-1. Muscles of the Abdominal Wall

MUSCLE	ORIGIN	INSERTION	NERVE SUPPLY
Rectus abdominis	Crest and symphysis of the pubis	Xiphoid process and fifth to seventh costal cartilages	Branches of the lower thoracic
External oblique (obliquus externus abdominis)	Fifth to twelfth ribs	Anterior half of the iliac crest, inguinal ligament, and anterior layer of the sheath of the rectus abdominis	Ventral branches of the lower thoracic
Internal oblique (obliquus internus abdominis)	Tenth to twelfth ribs and sheath of the rectus abdominis; some fibers from the inguinal ligament terminate in the falx inguinalis	Iliac fascia deep to the lateral part of the inguinal ligament, the anterior half of the iliac crest, and the lumbar fascia	Lower thoracic
Transversus abdominis	Seventh to twelfth costal cartilages, lumbar fascia, iliac crest, and inguinal ligament	Xiphoid cartilage and linea alba and through the falx inguinalis, pubic tubercle, and pecten	Lower thoracic

AXIAL

Figure 20.1.1



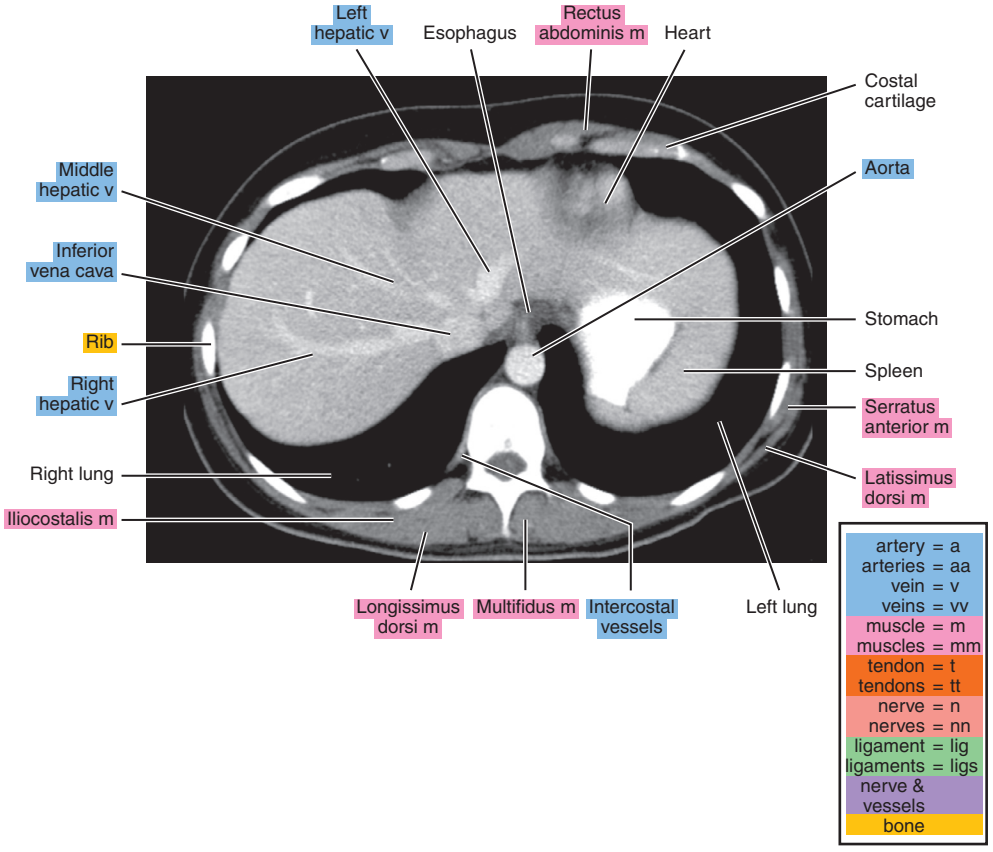
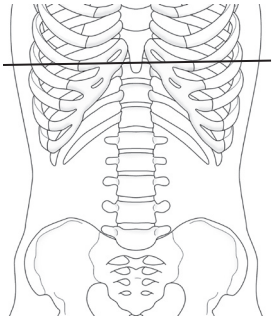


Figure 20.1.2



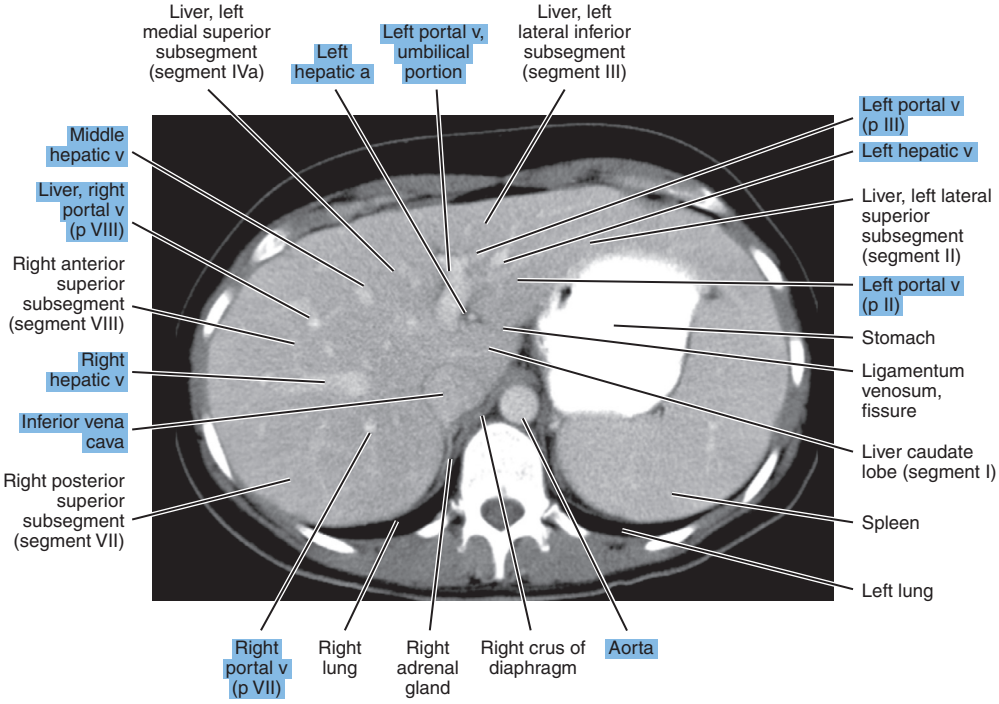
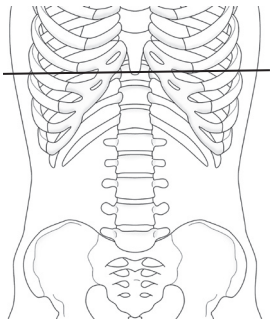
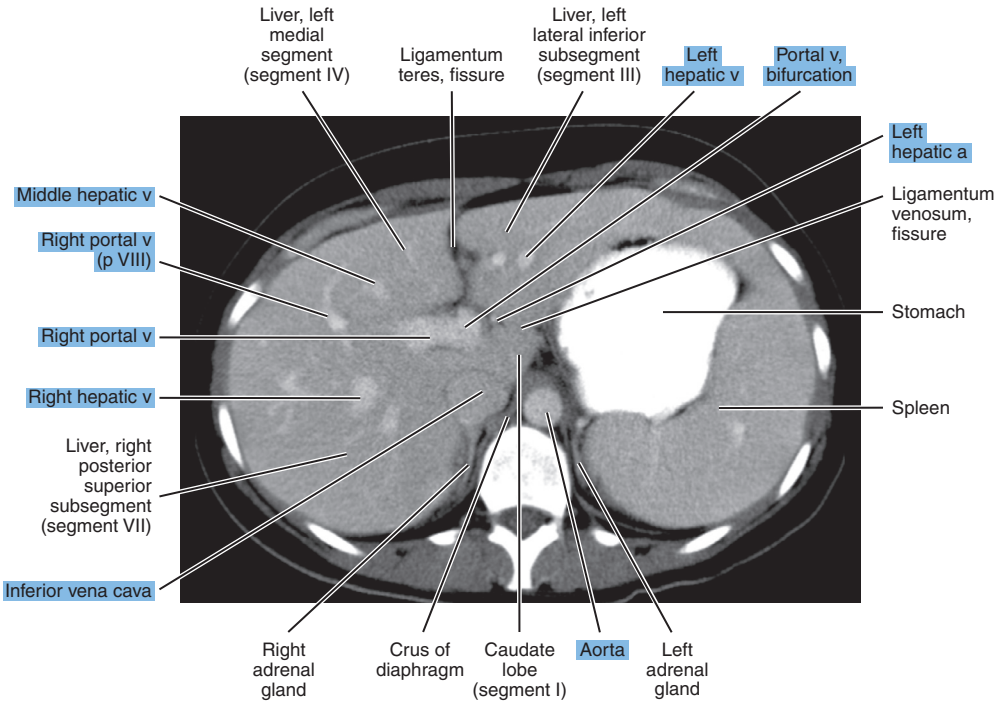


Figure 20.1.3





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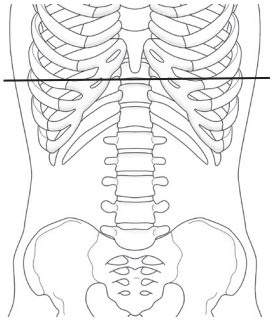

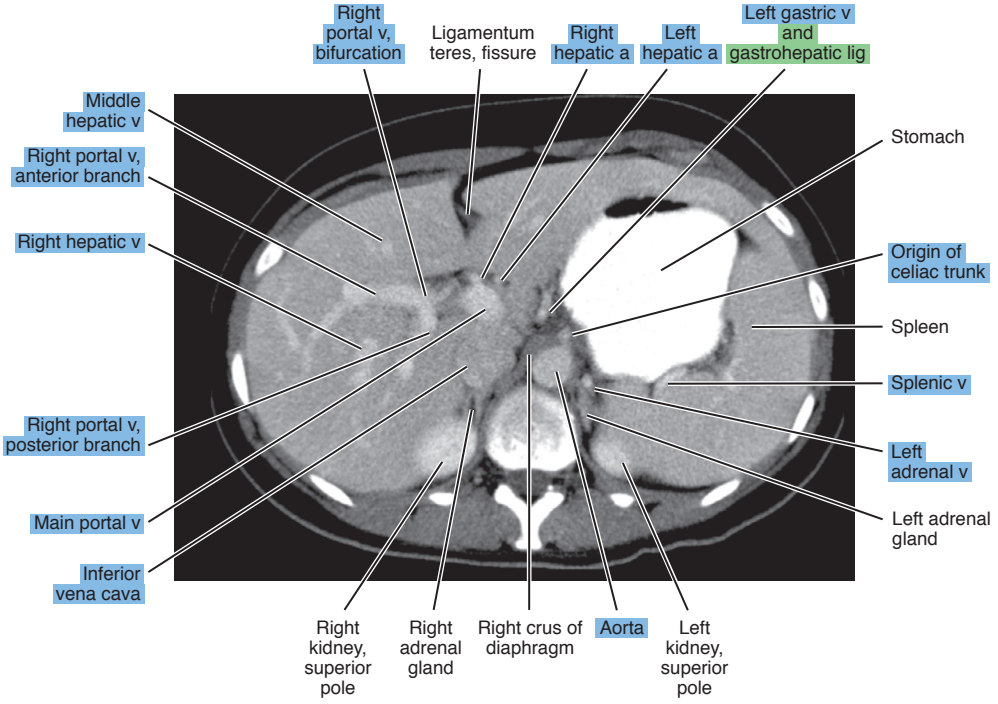

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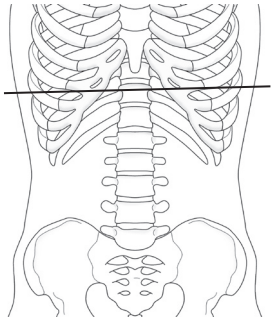

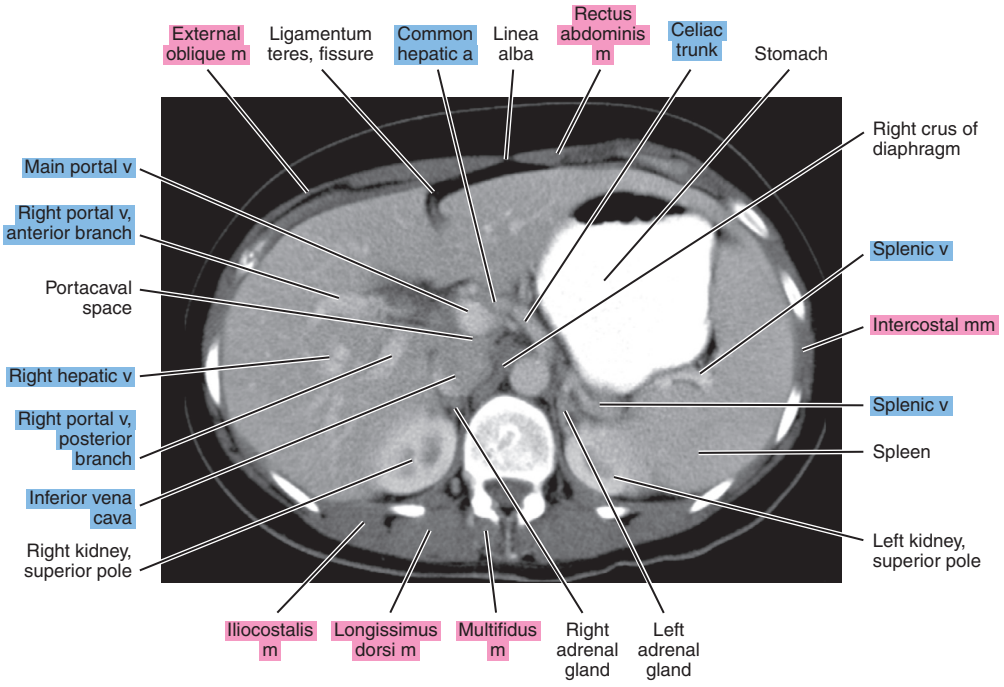

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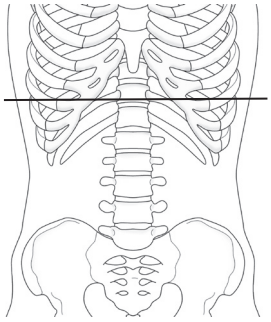

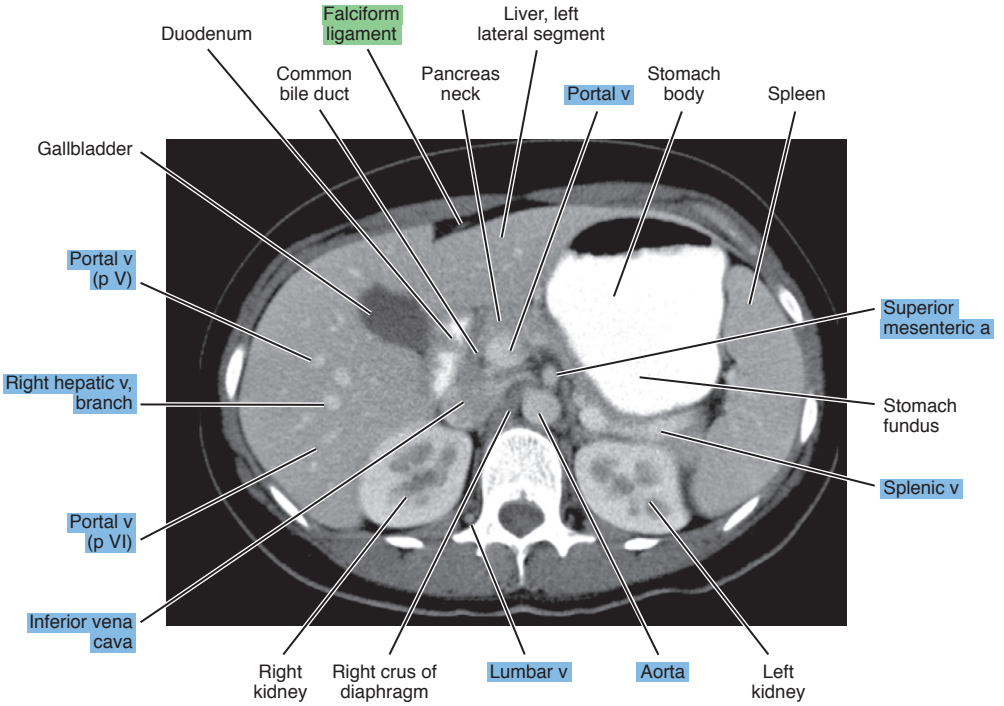

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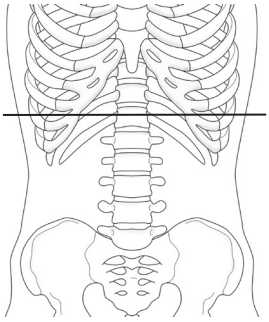

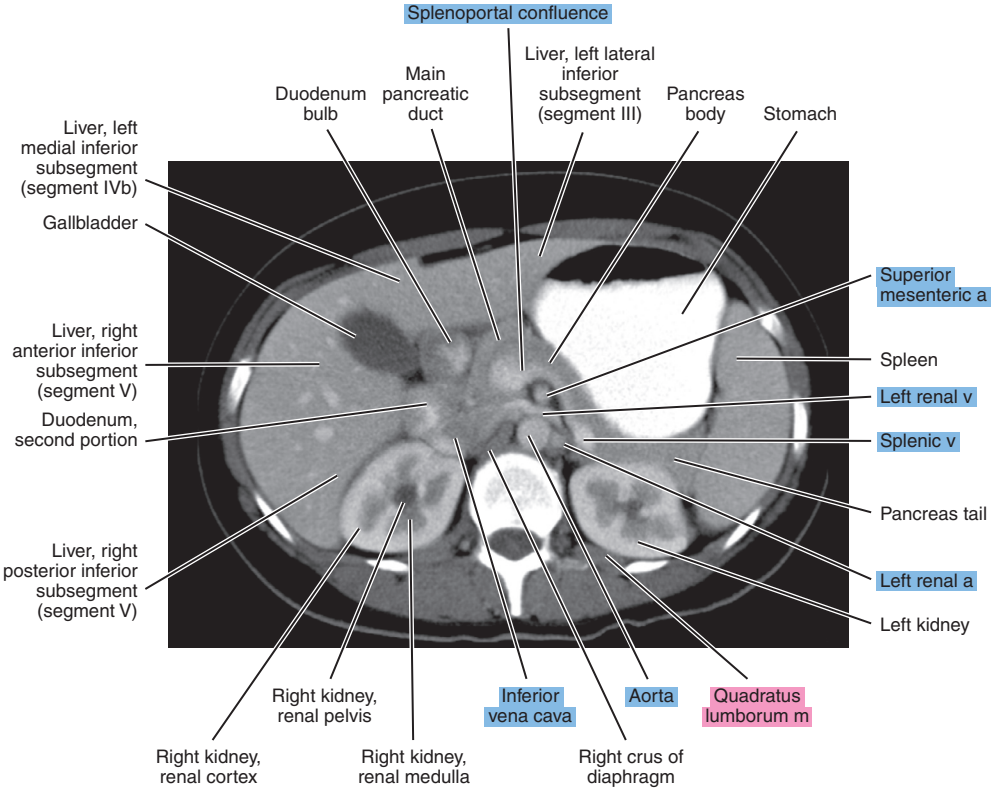

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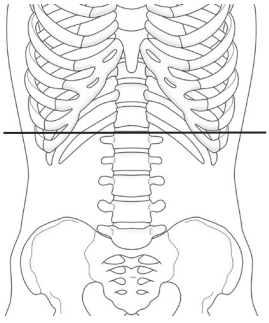

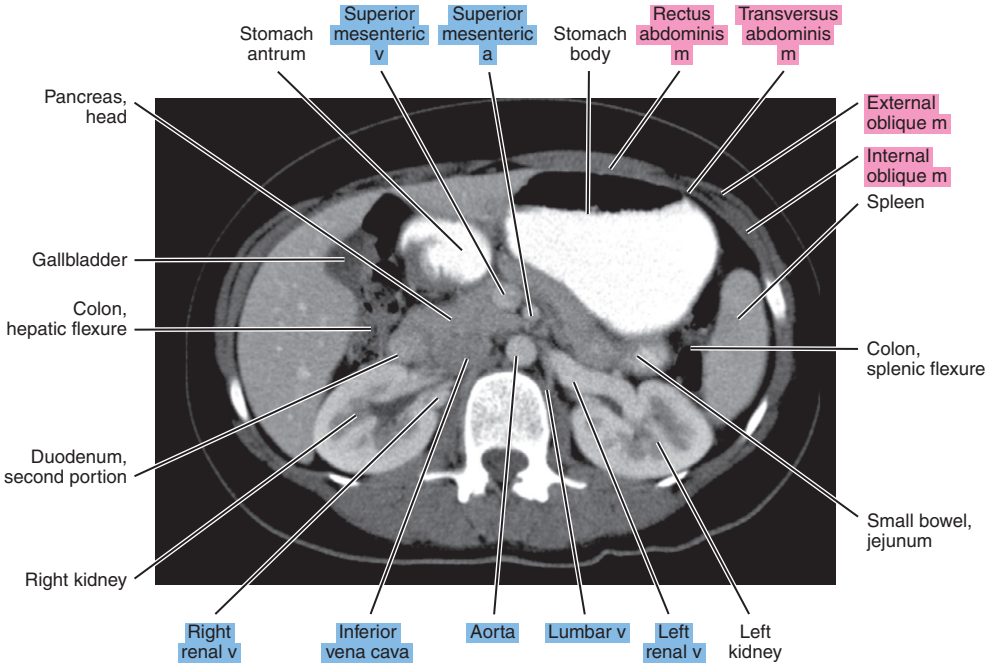

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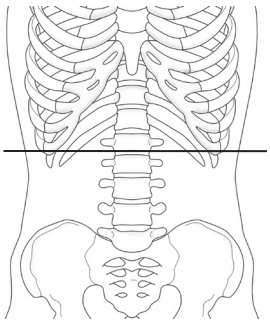

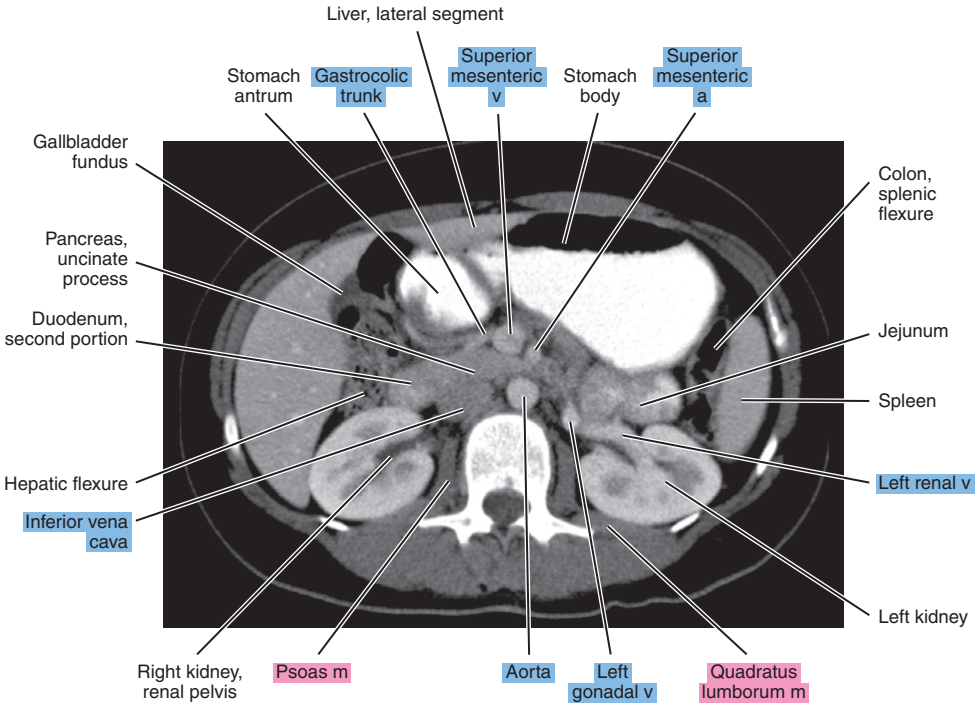

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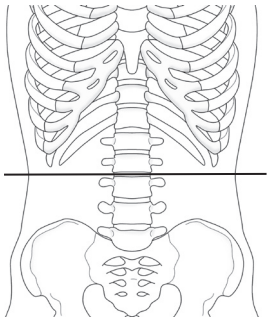

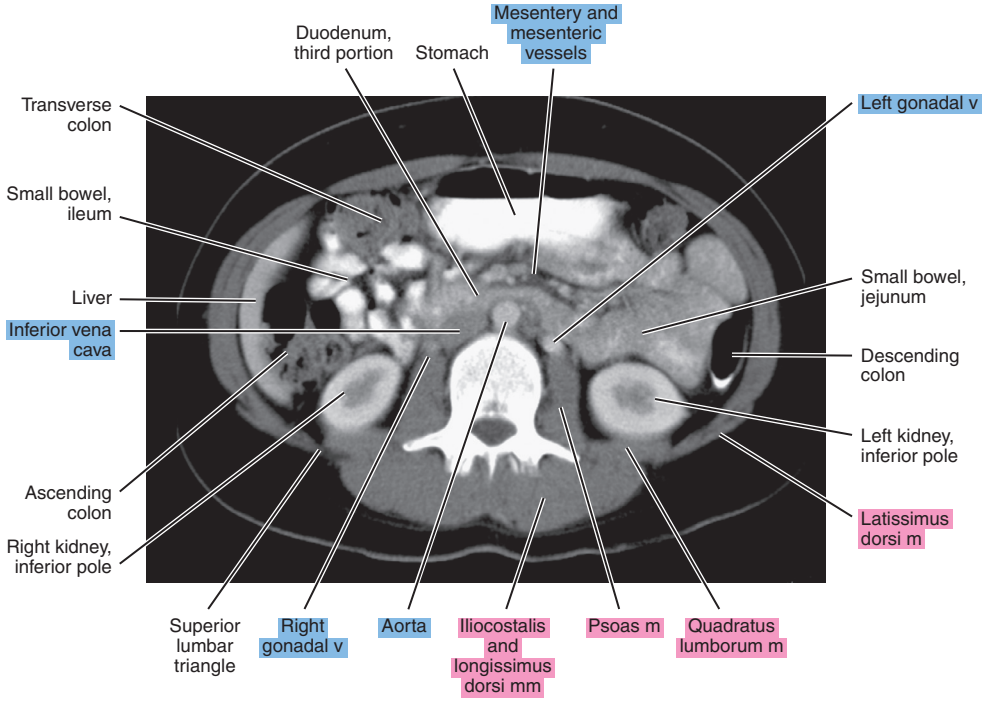

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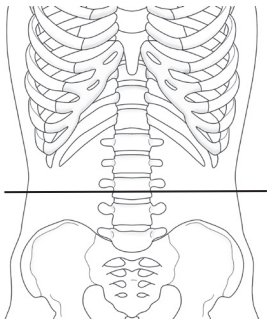

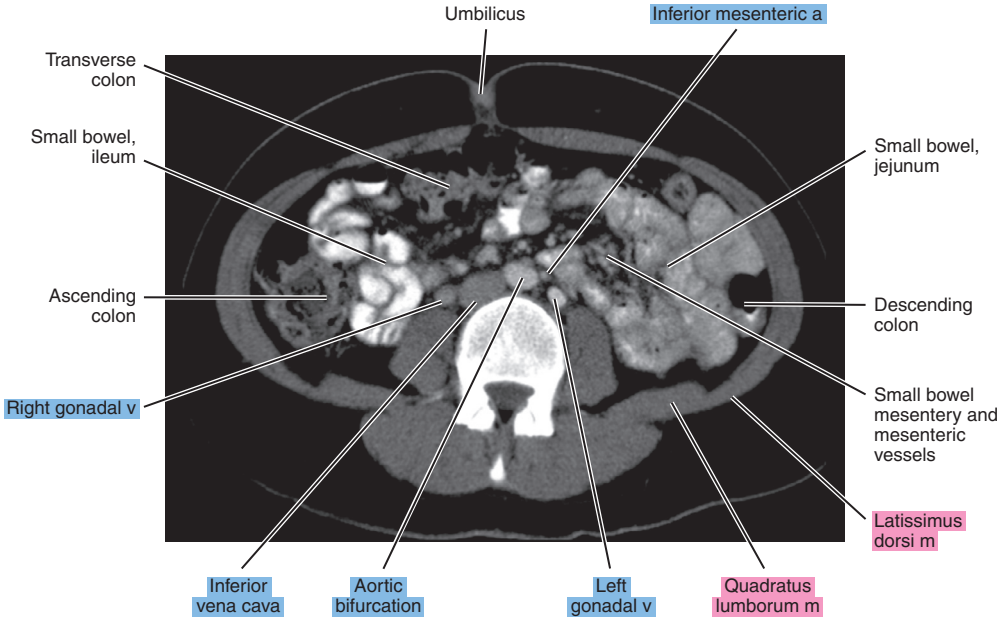

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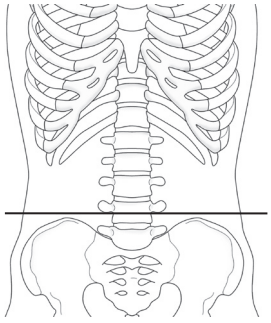
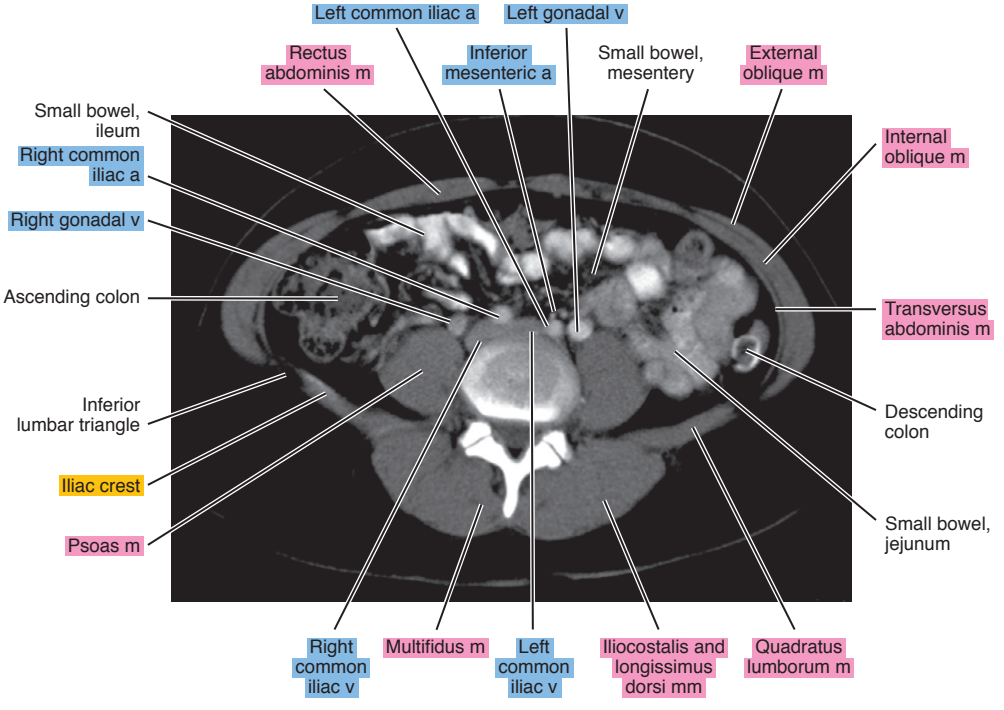
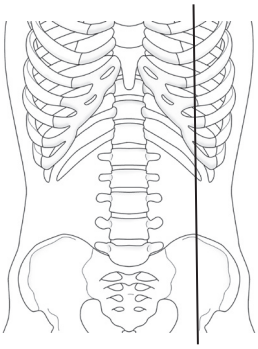
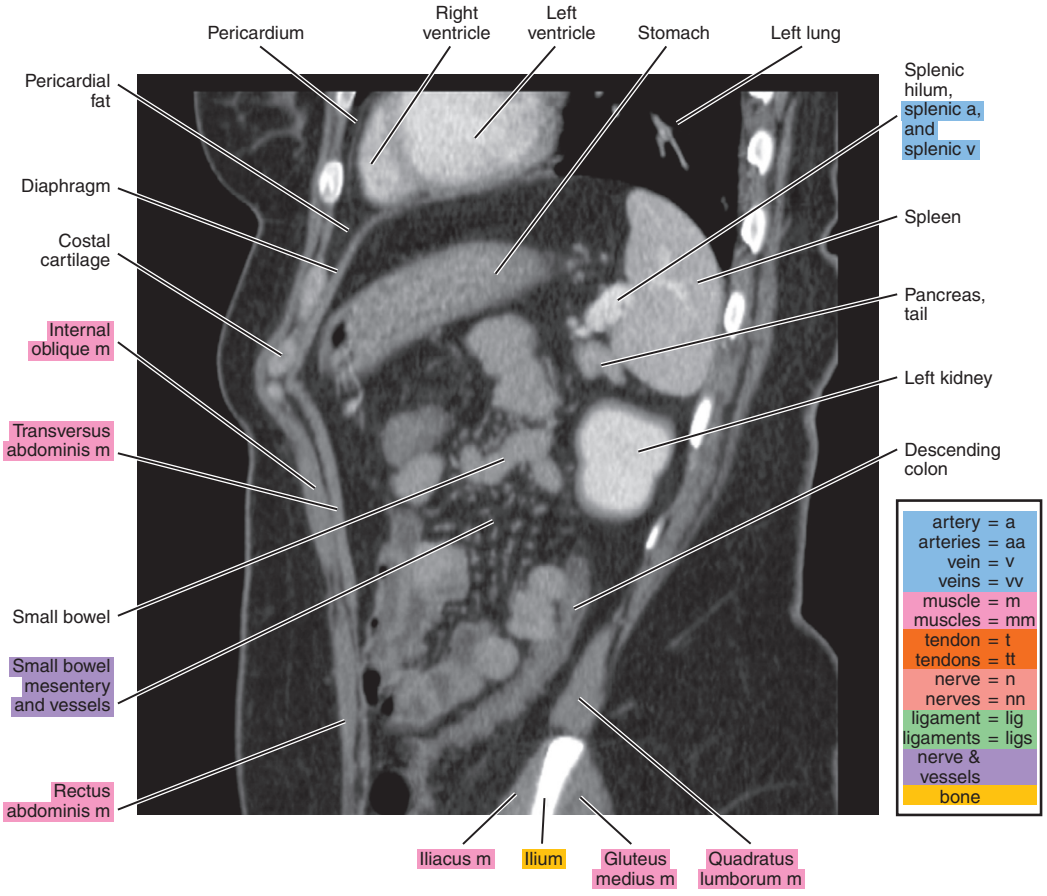




SAGITTAL

Figure 20.2.1





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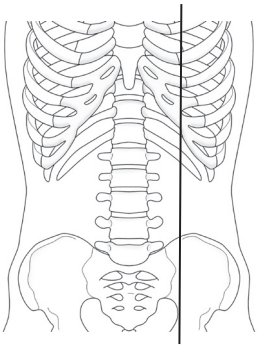

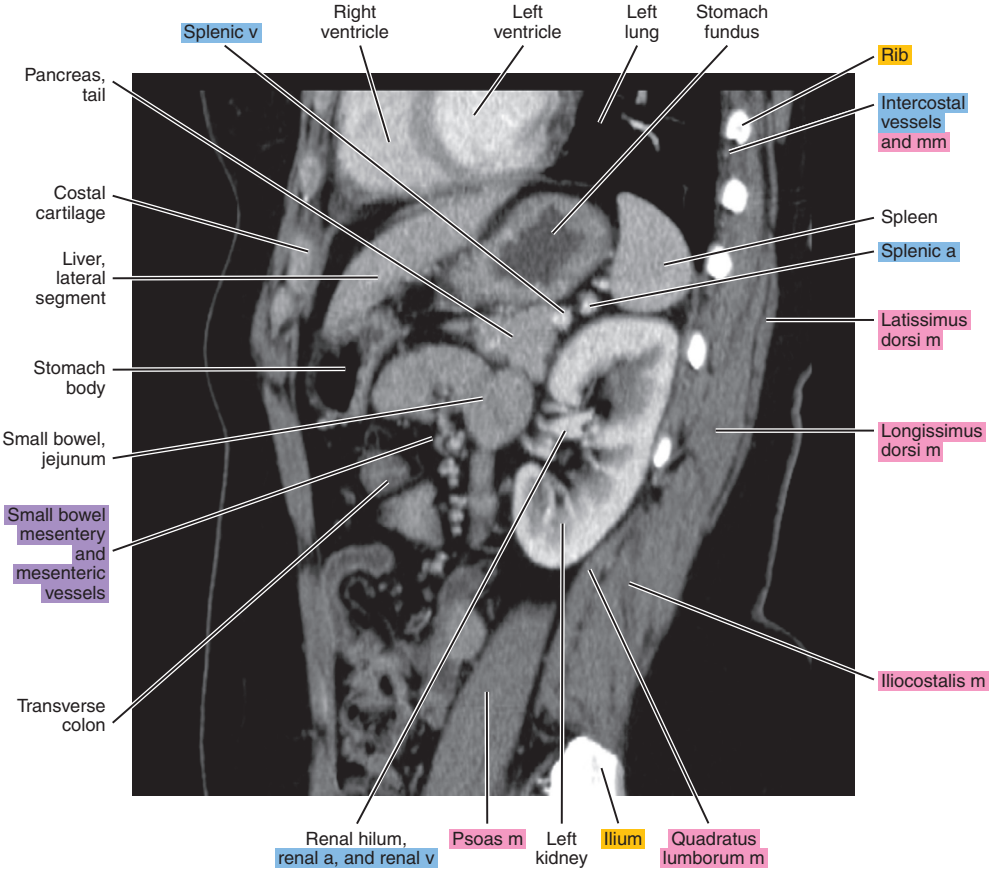

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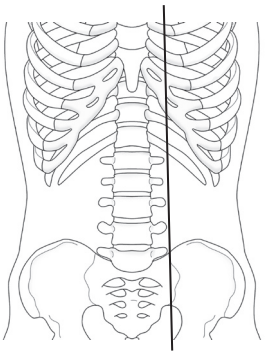

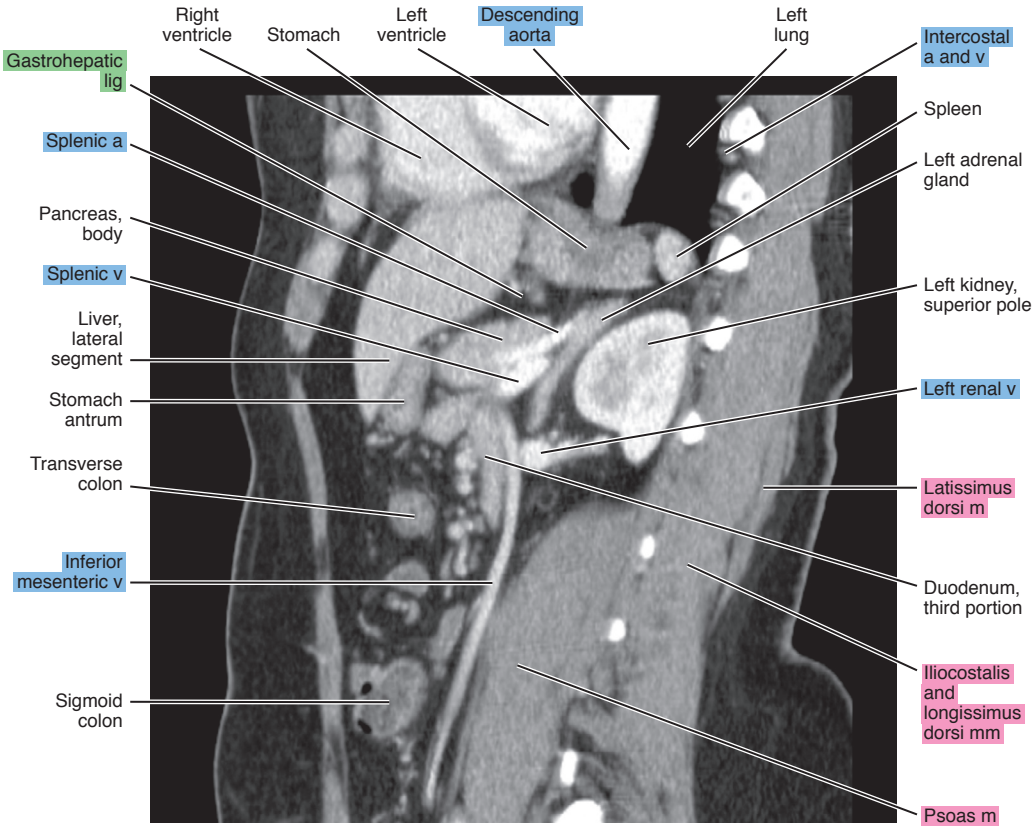

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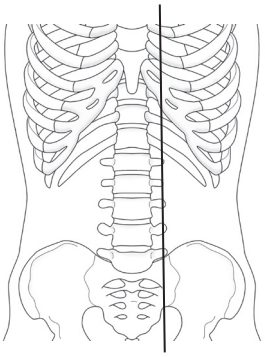

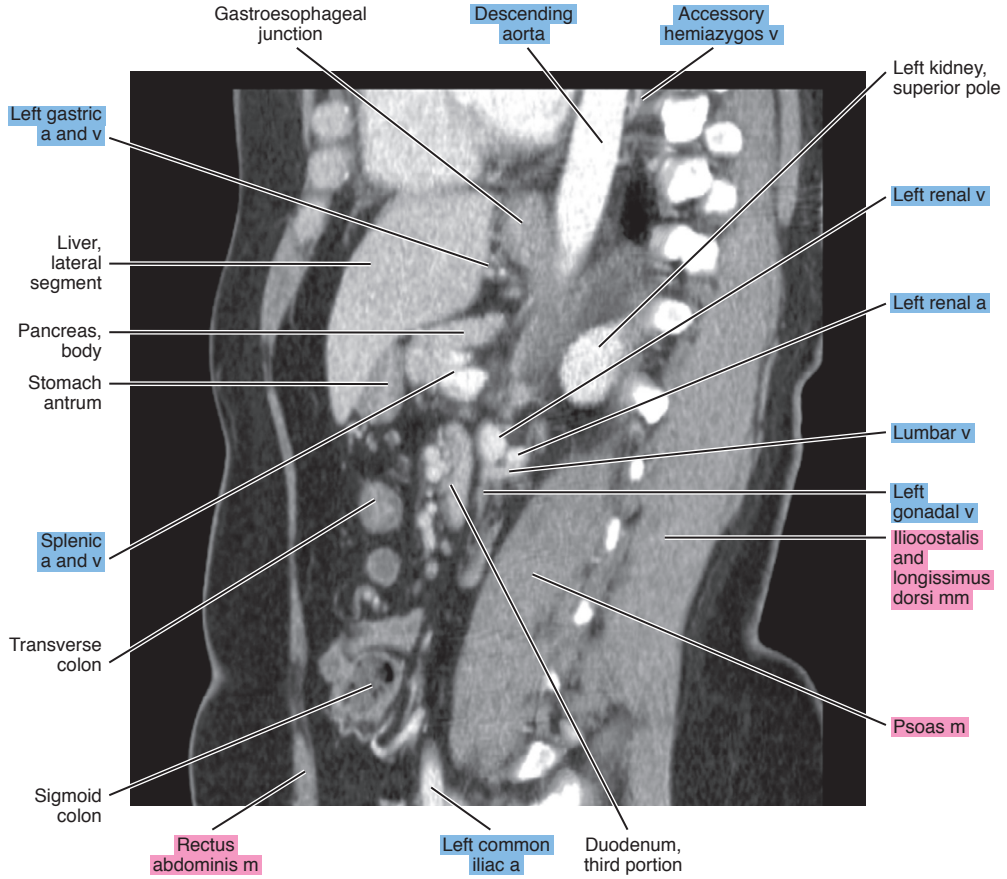

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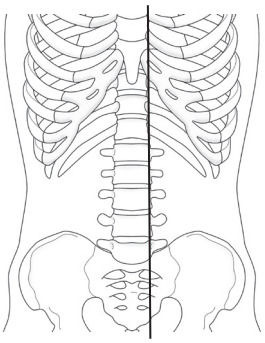

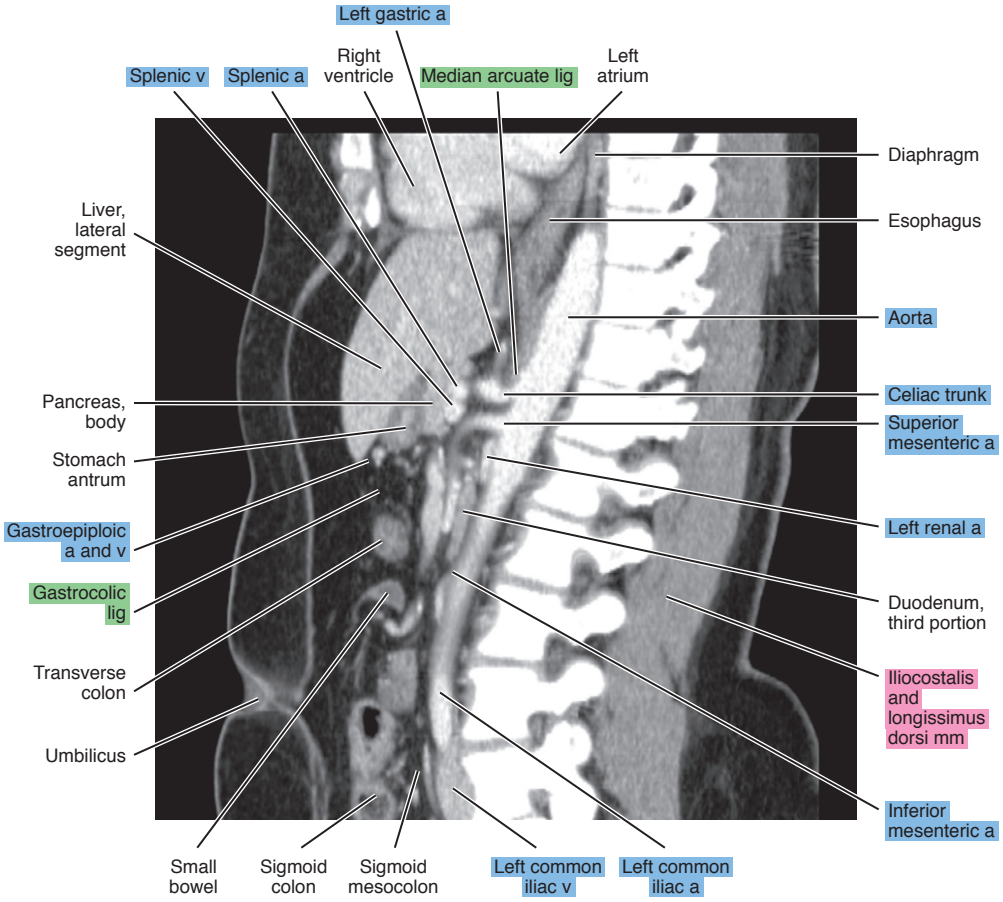

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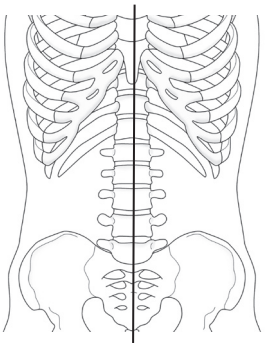

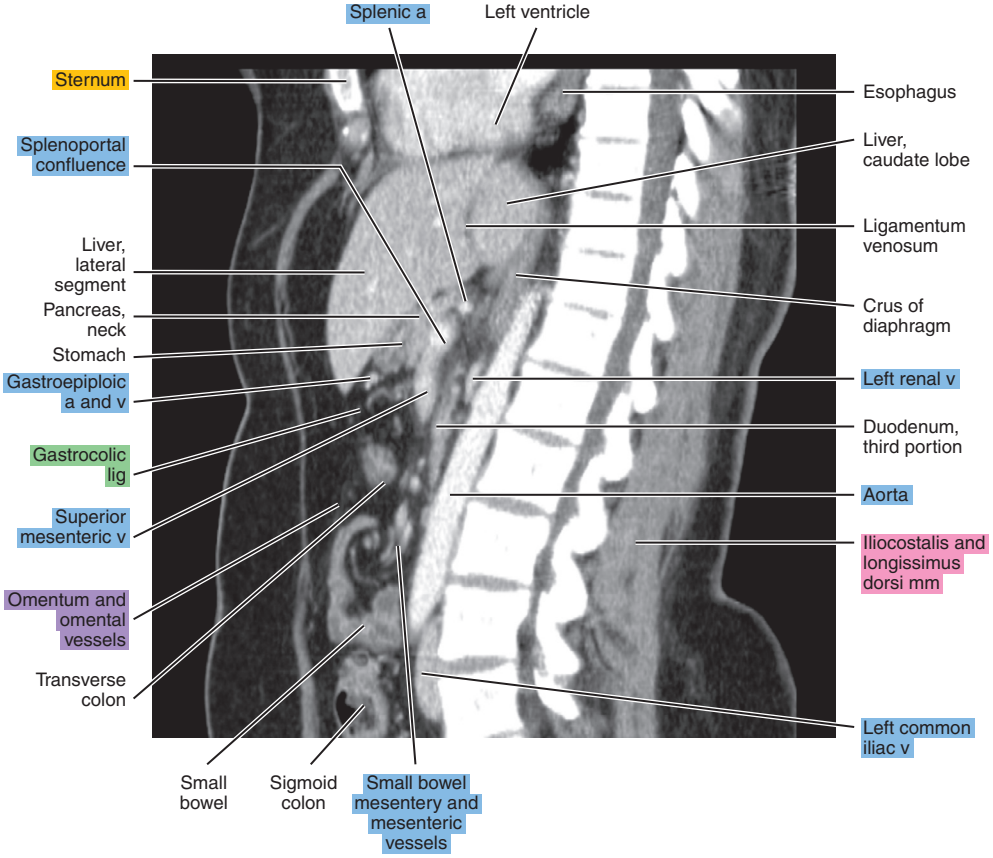

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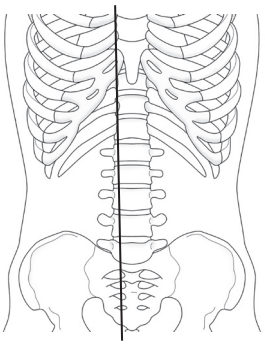

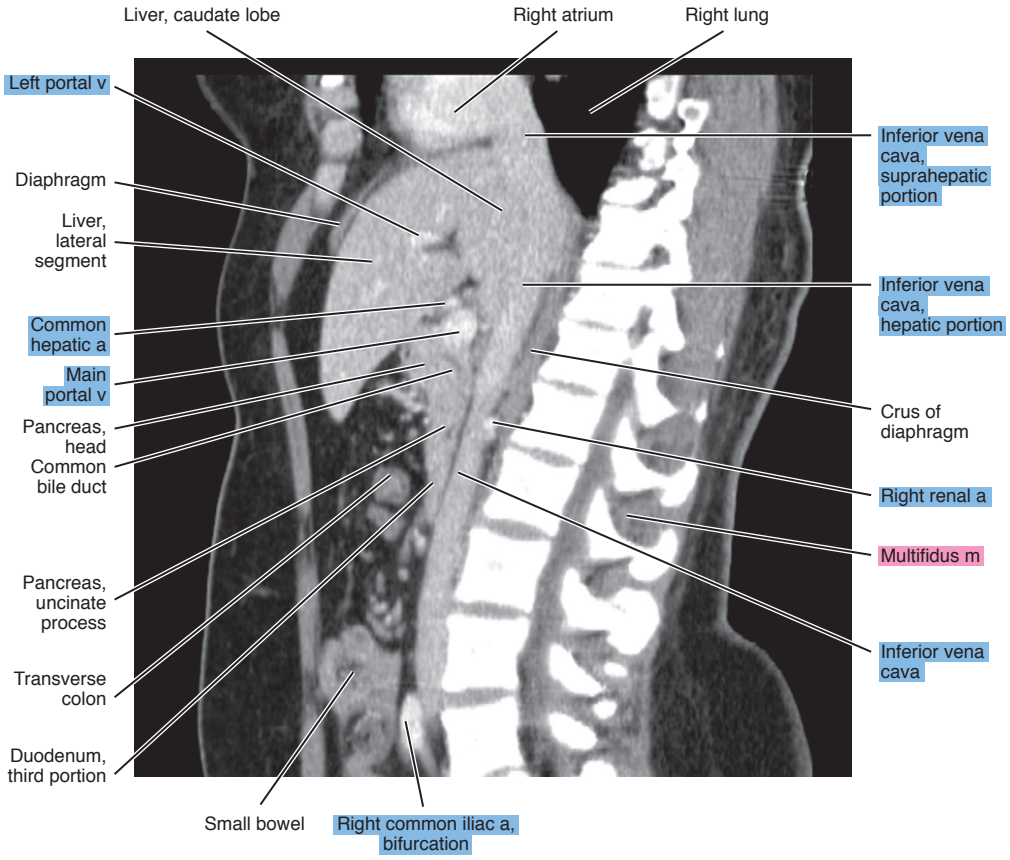

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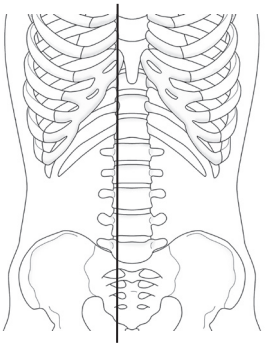

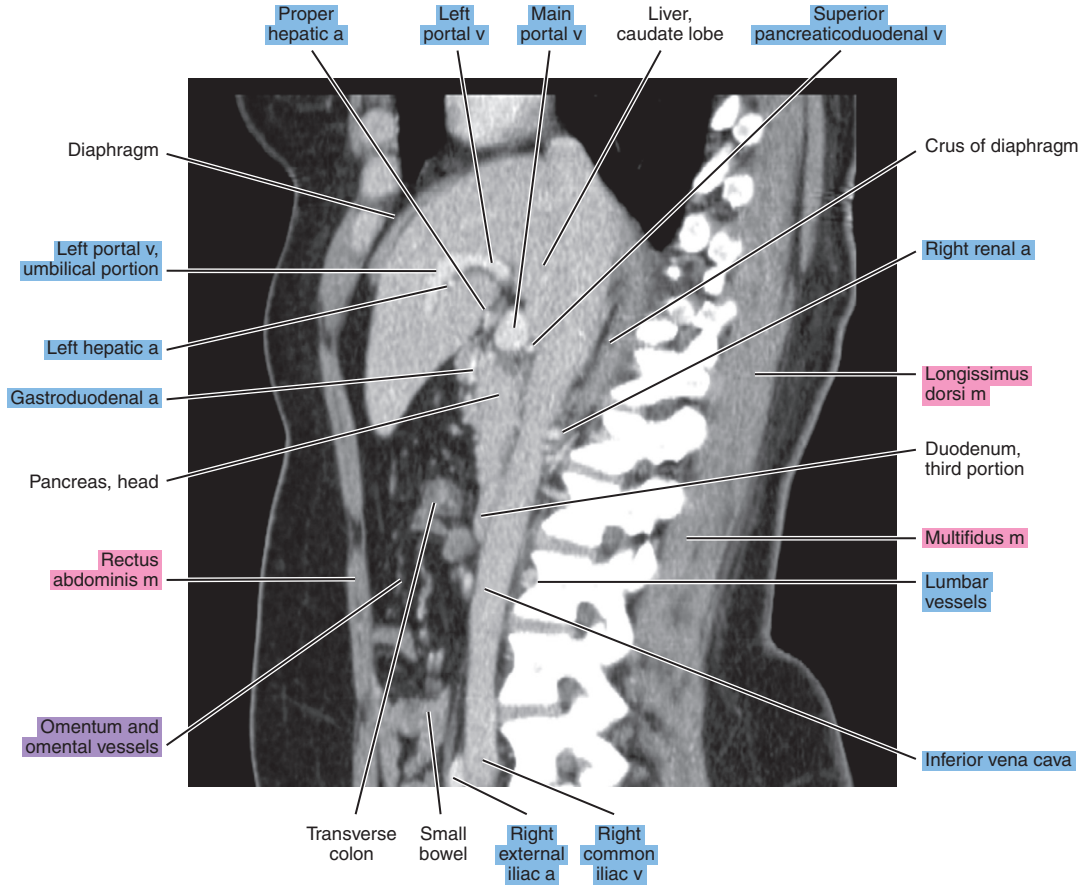

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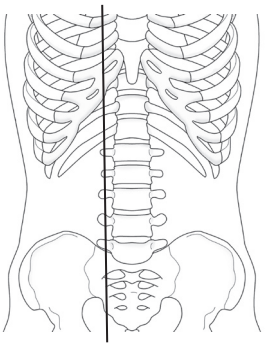

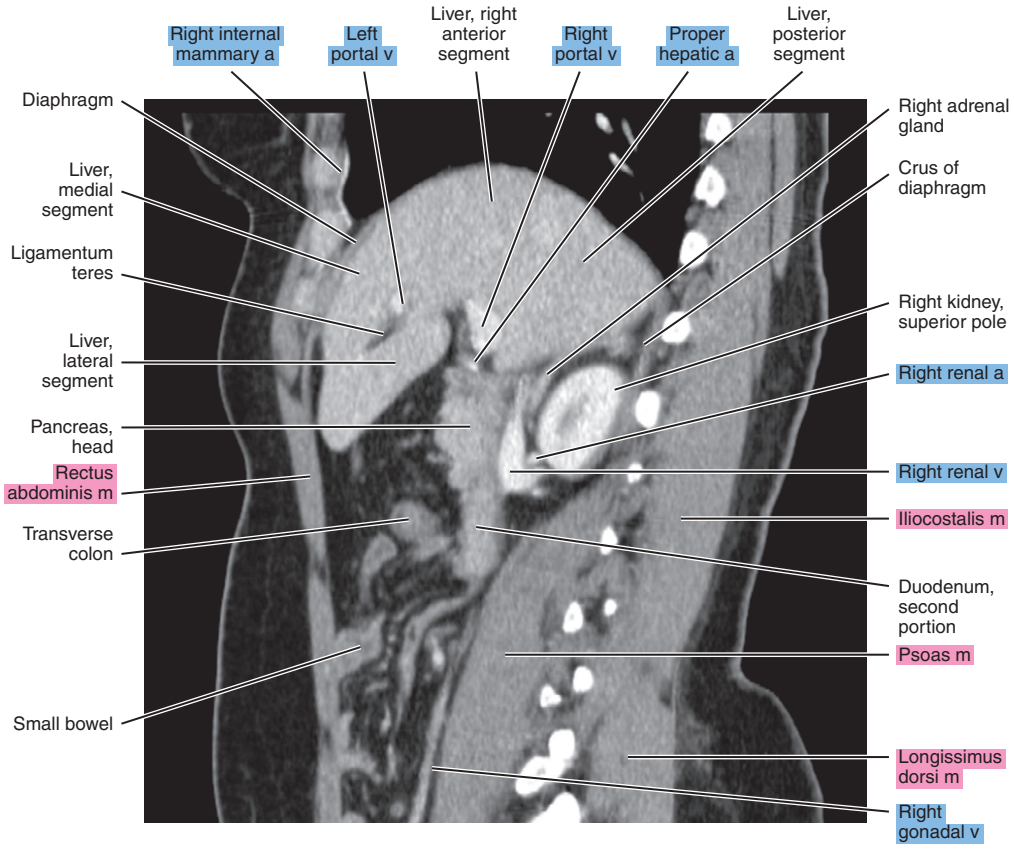

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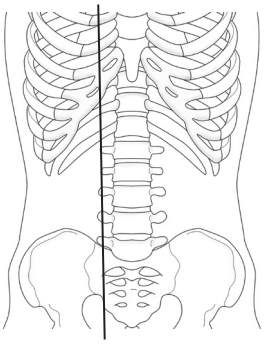

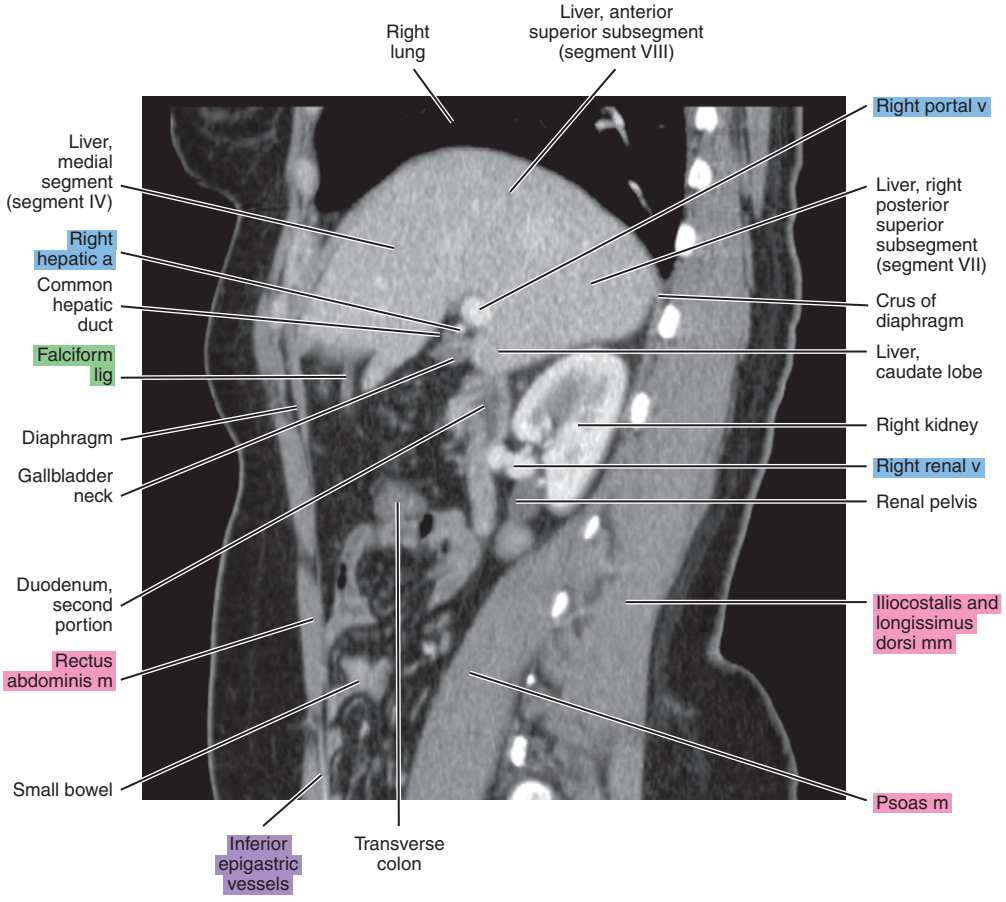

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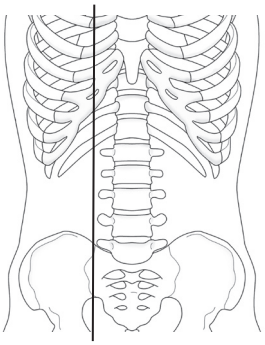

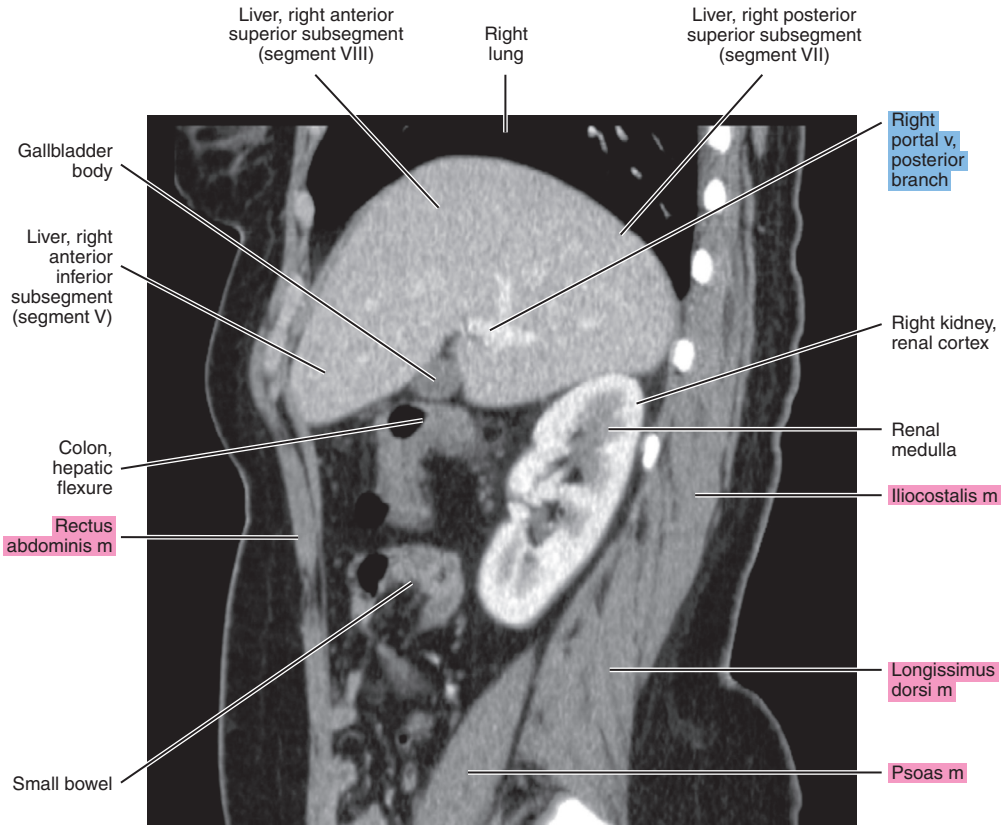

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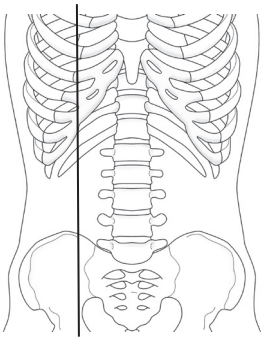

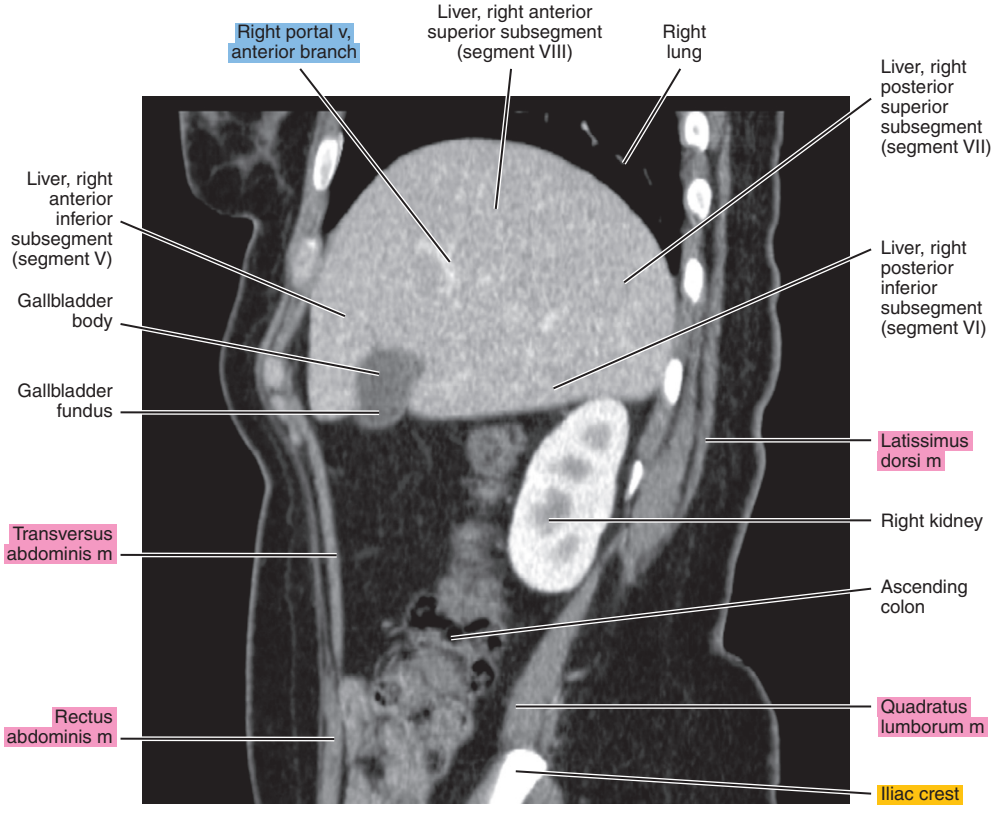

CORONAL

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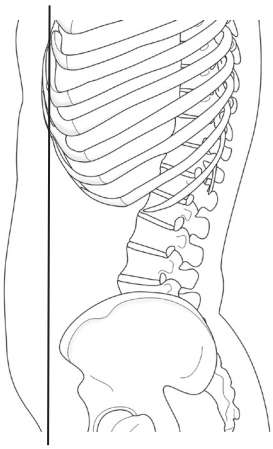

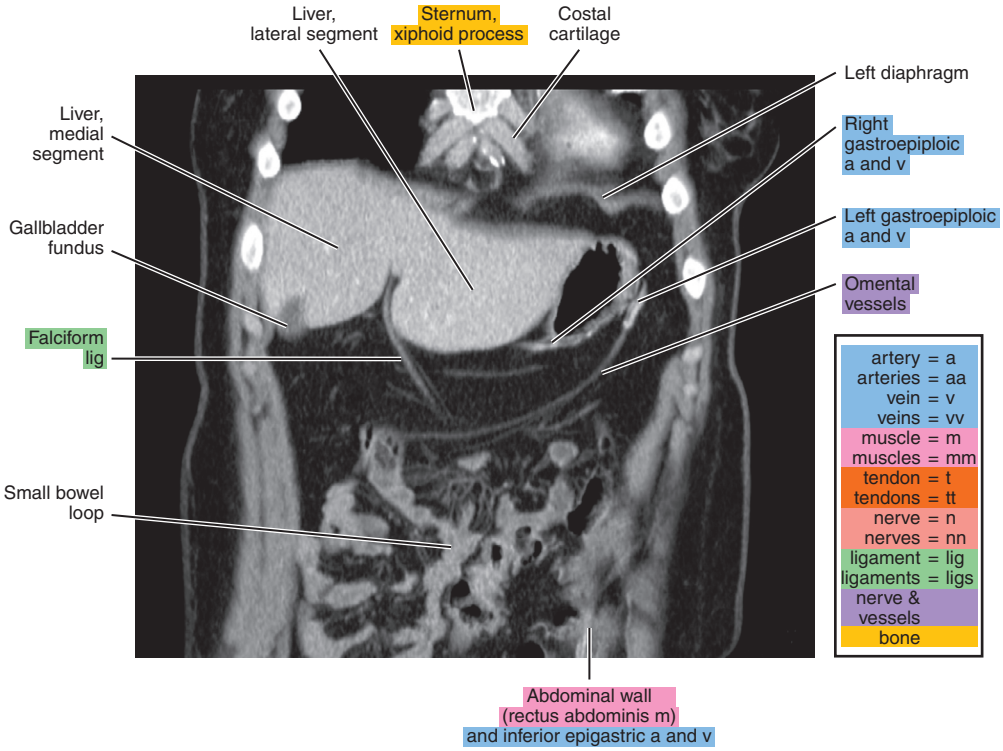

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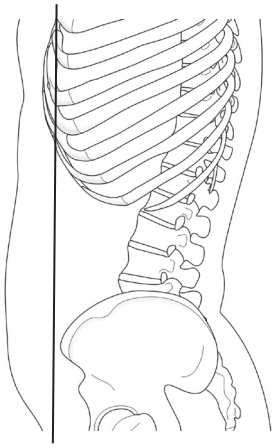


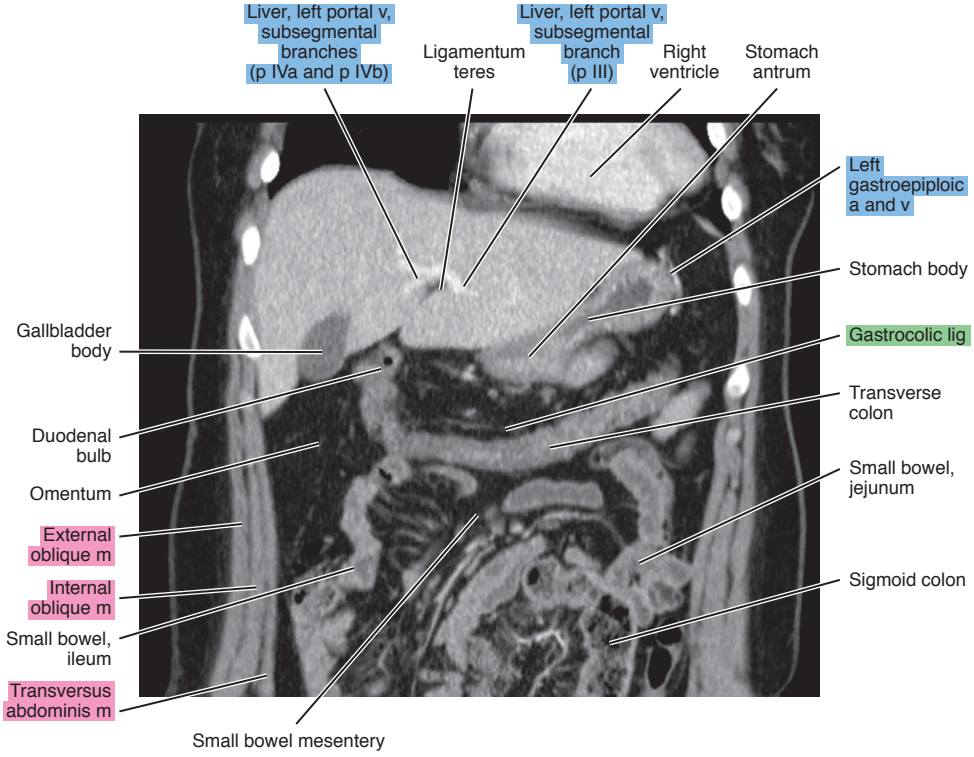
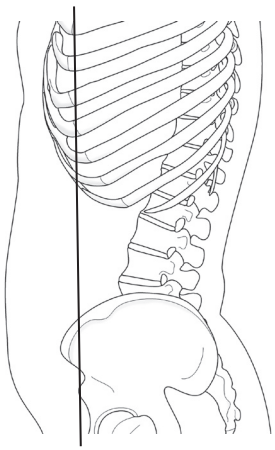
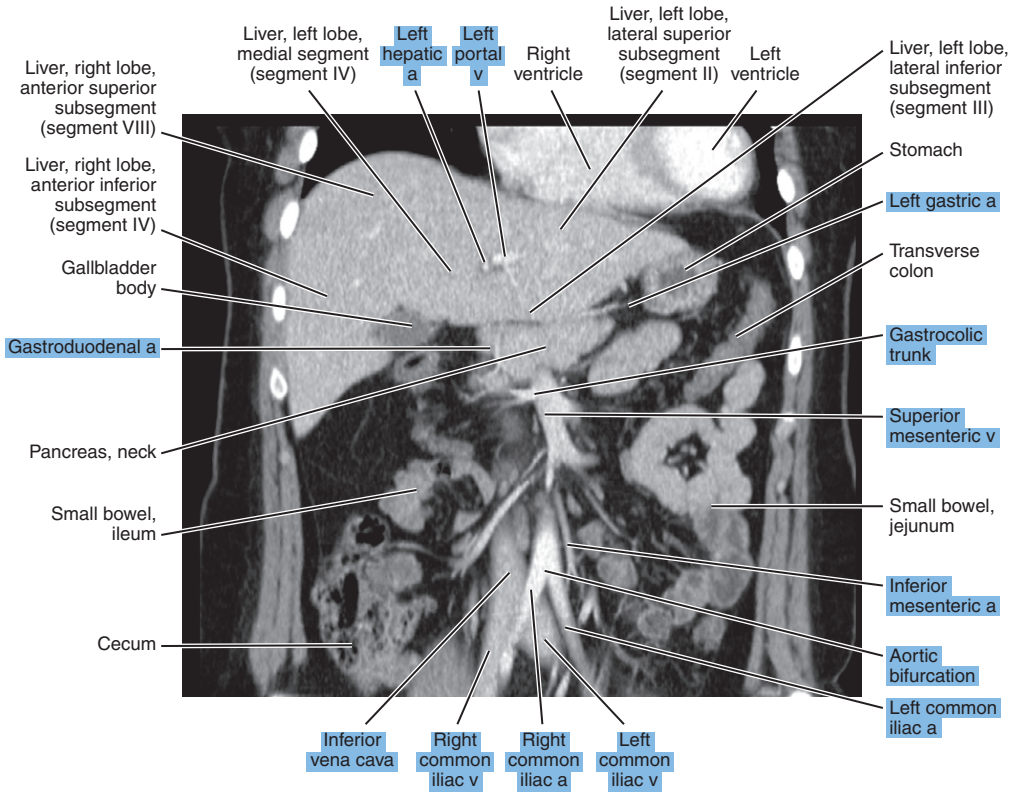


Figure 20.3.3





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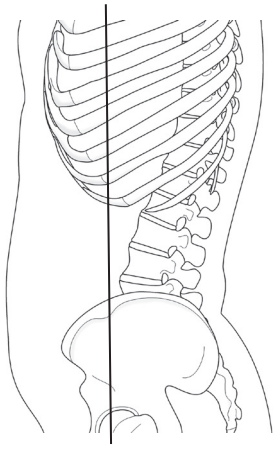

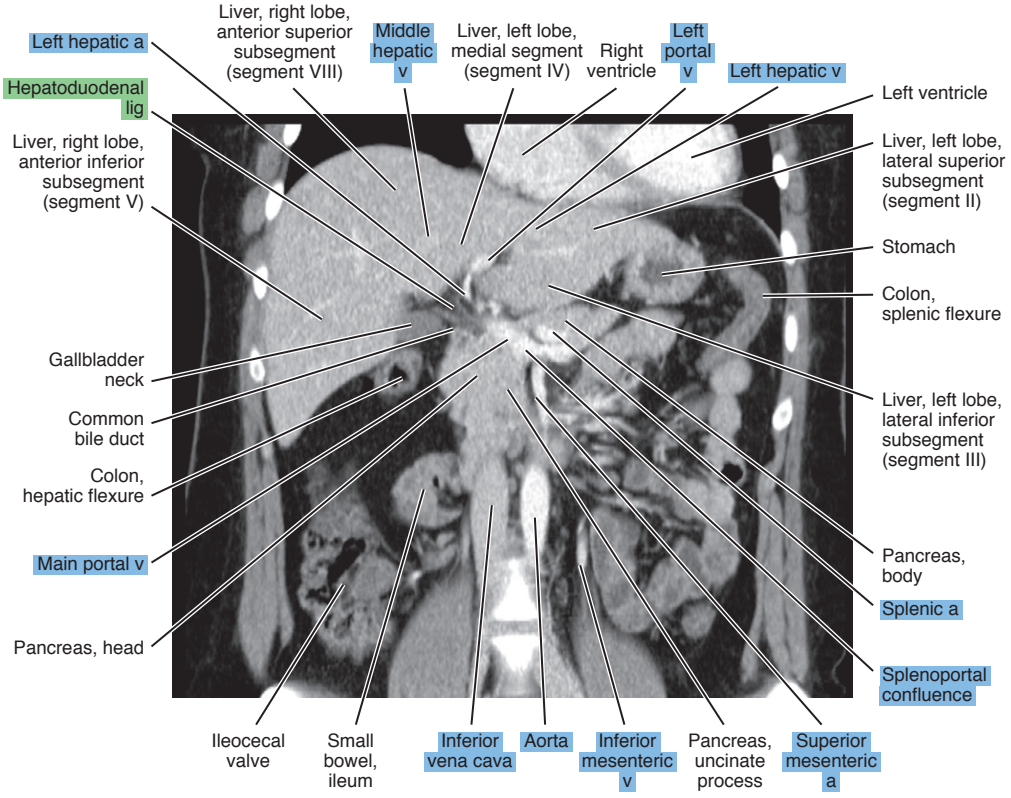

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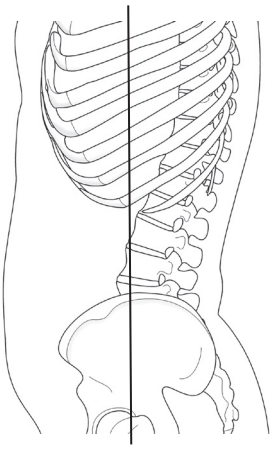

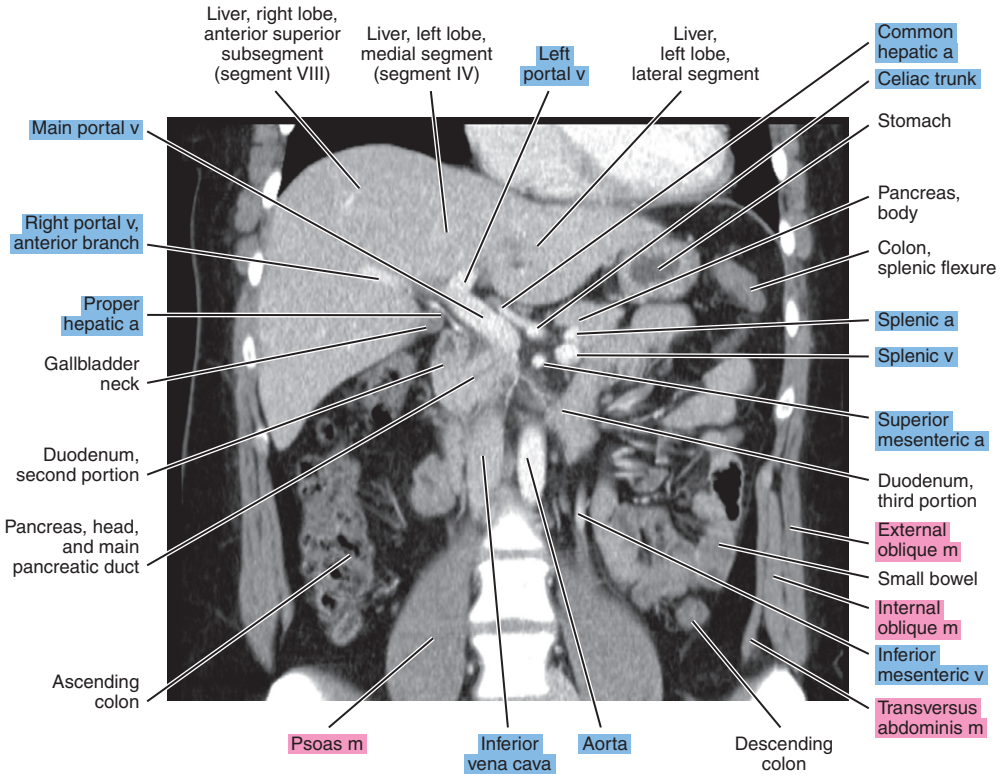

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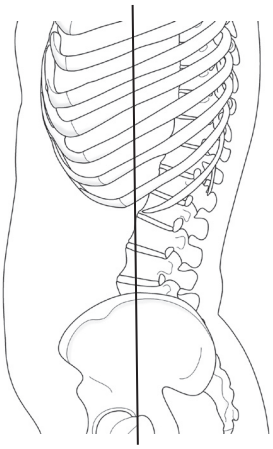


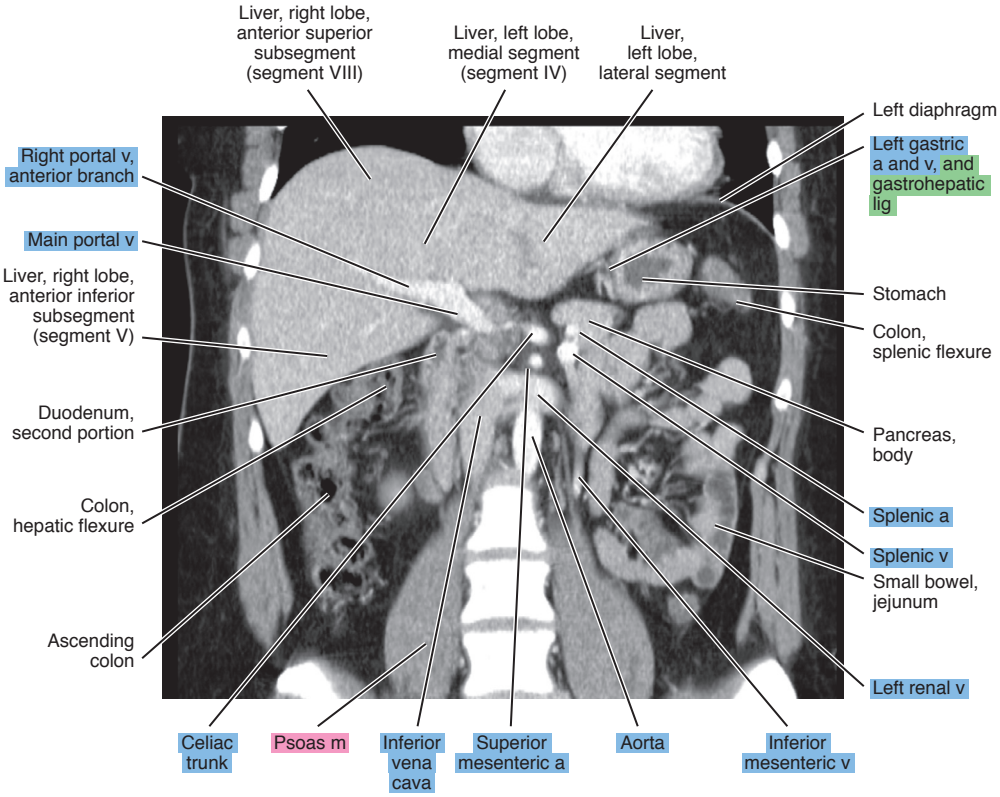
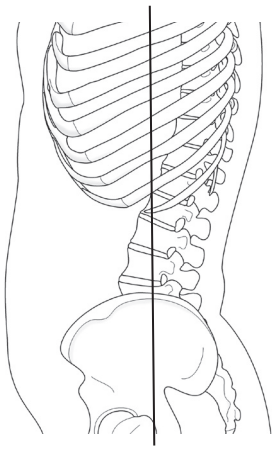
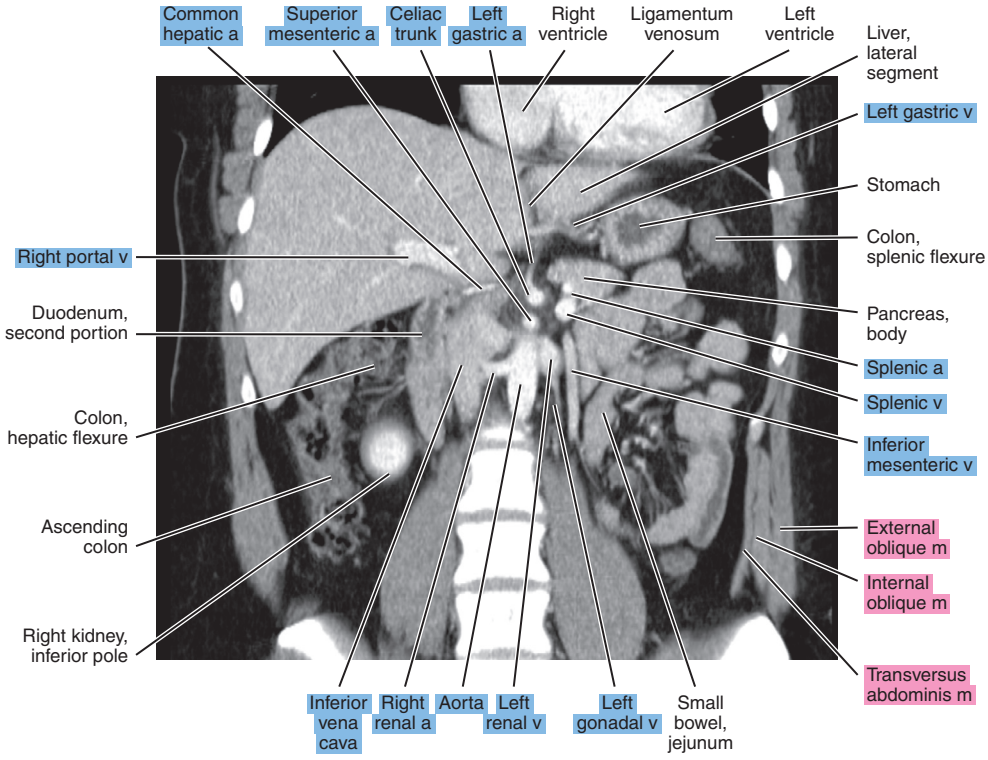


Figure 20.3.7





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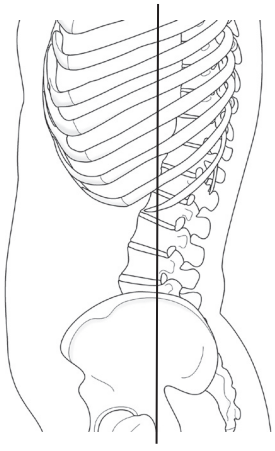

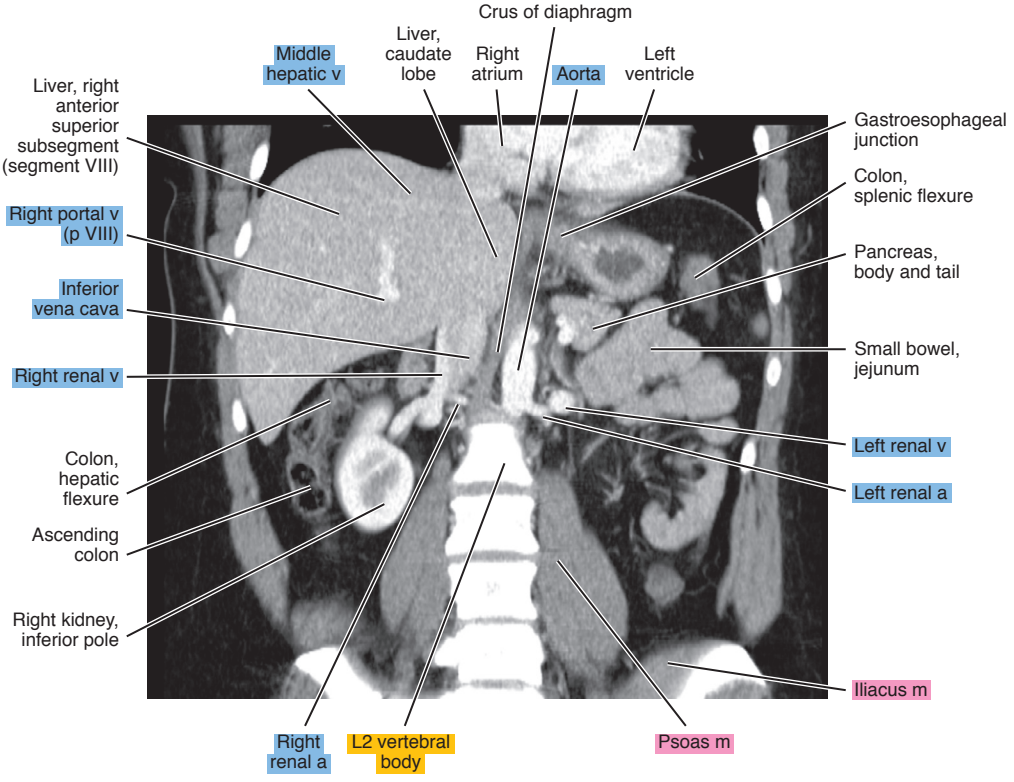

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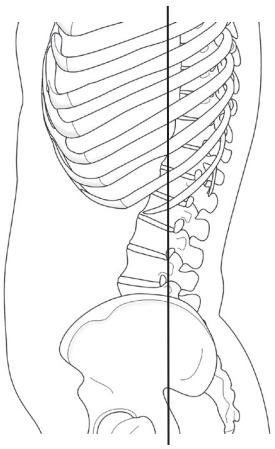

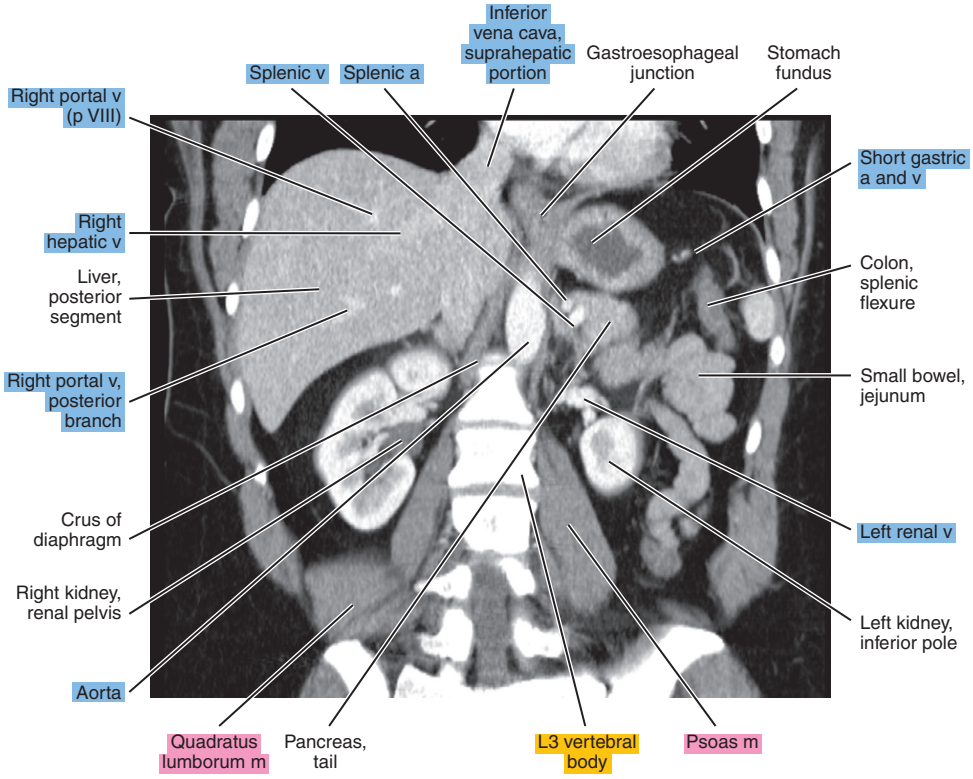

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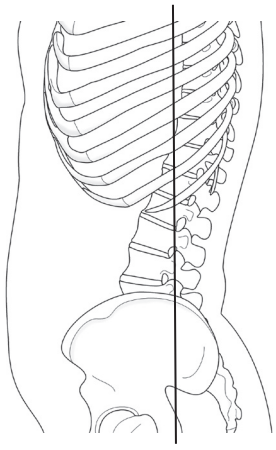

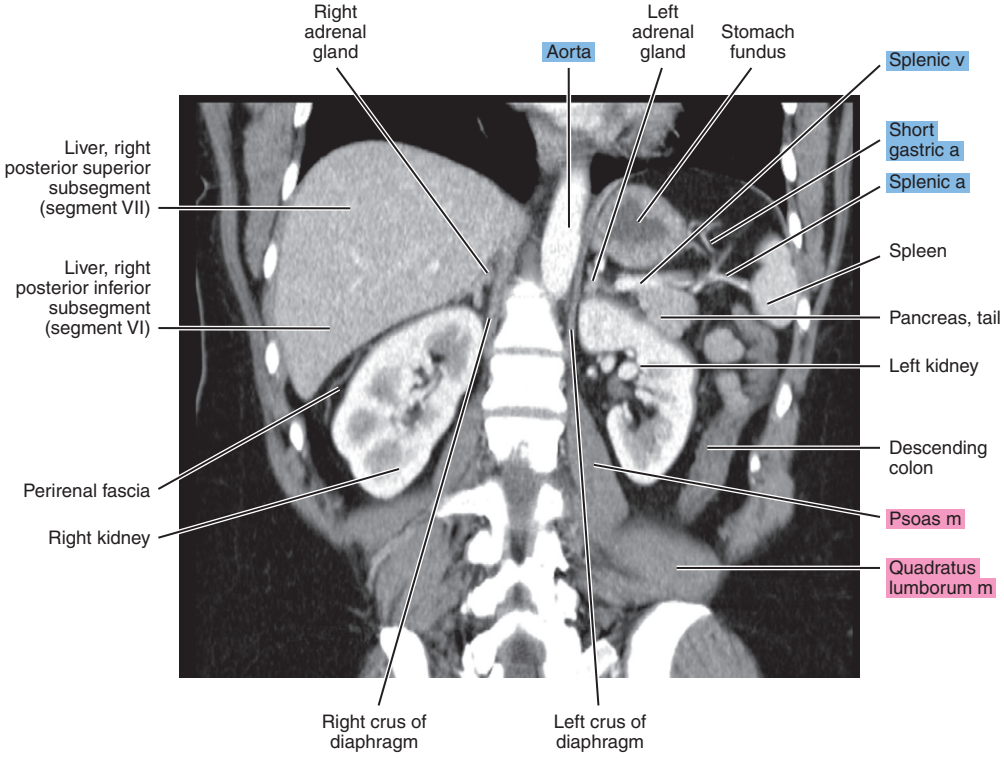

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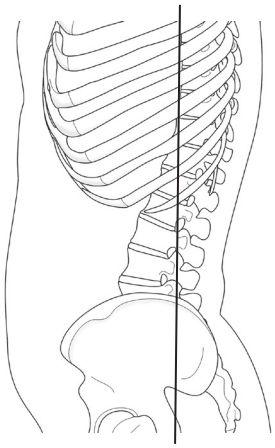

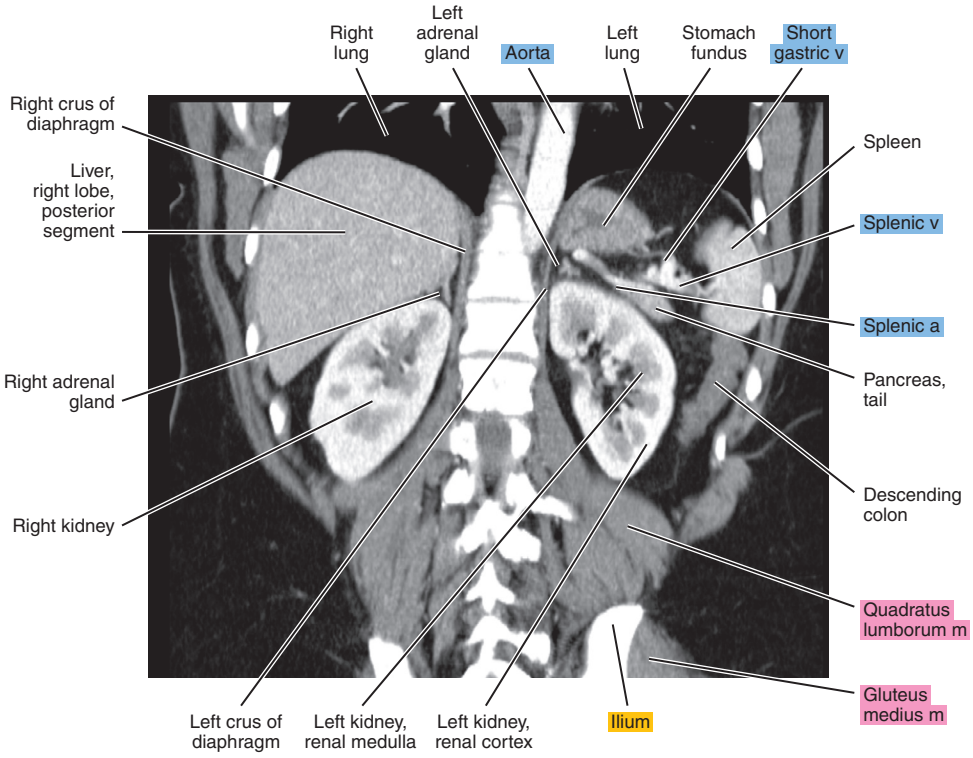

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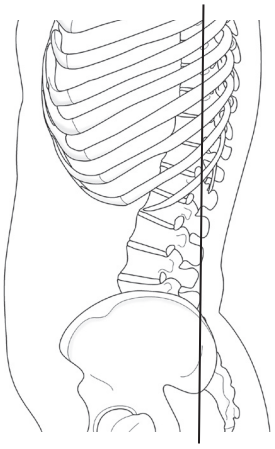
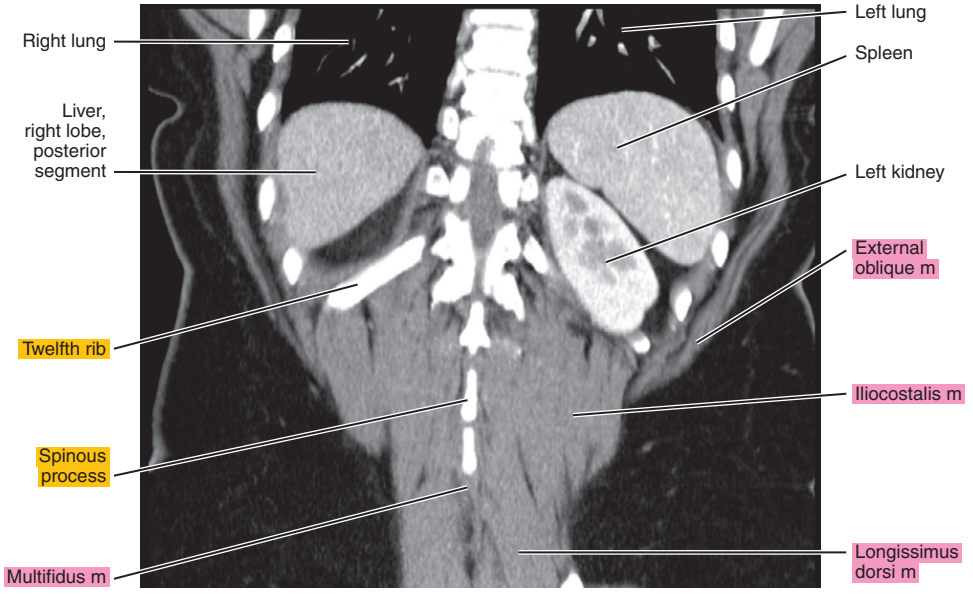




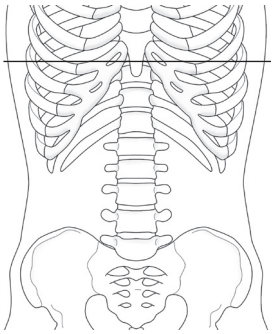
Chapter

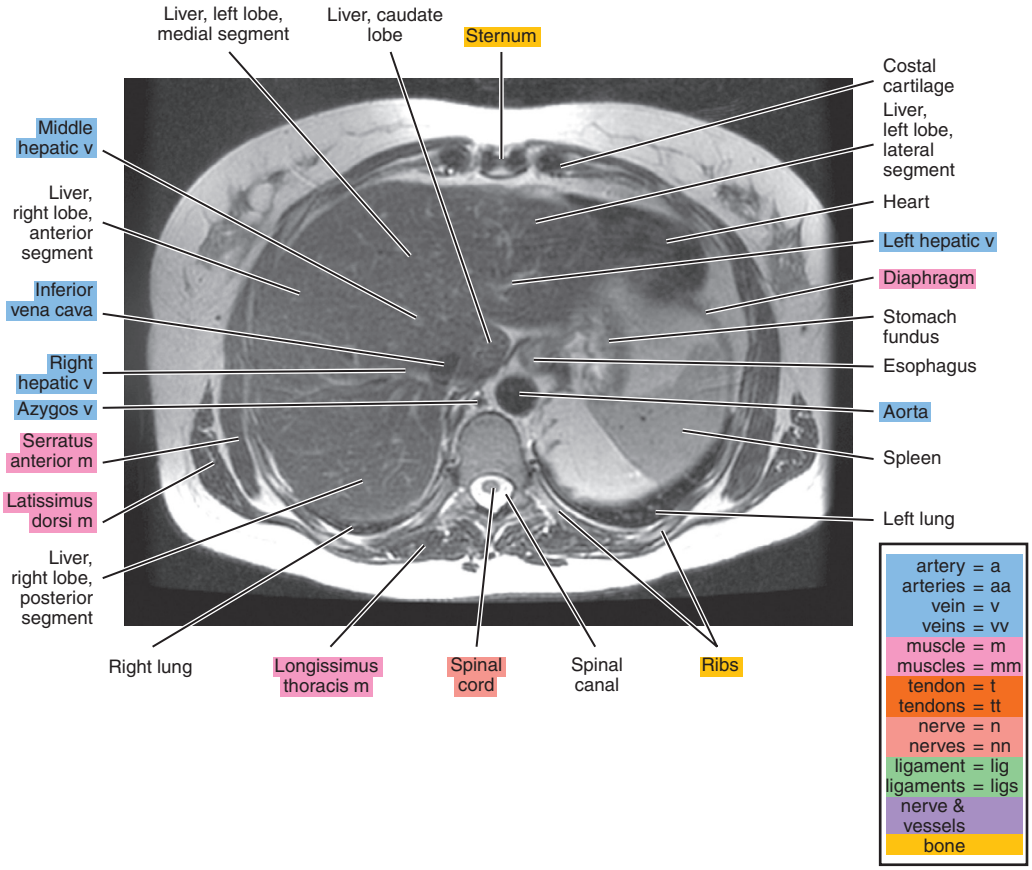
21

MRI of the Abdomen

AXIAL

Figure 21.1.1





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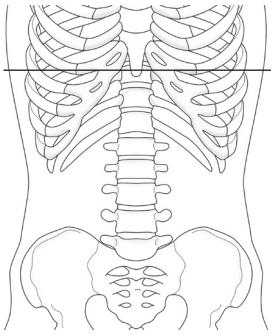

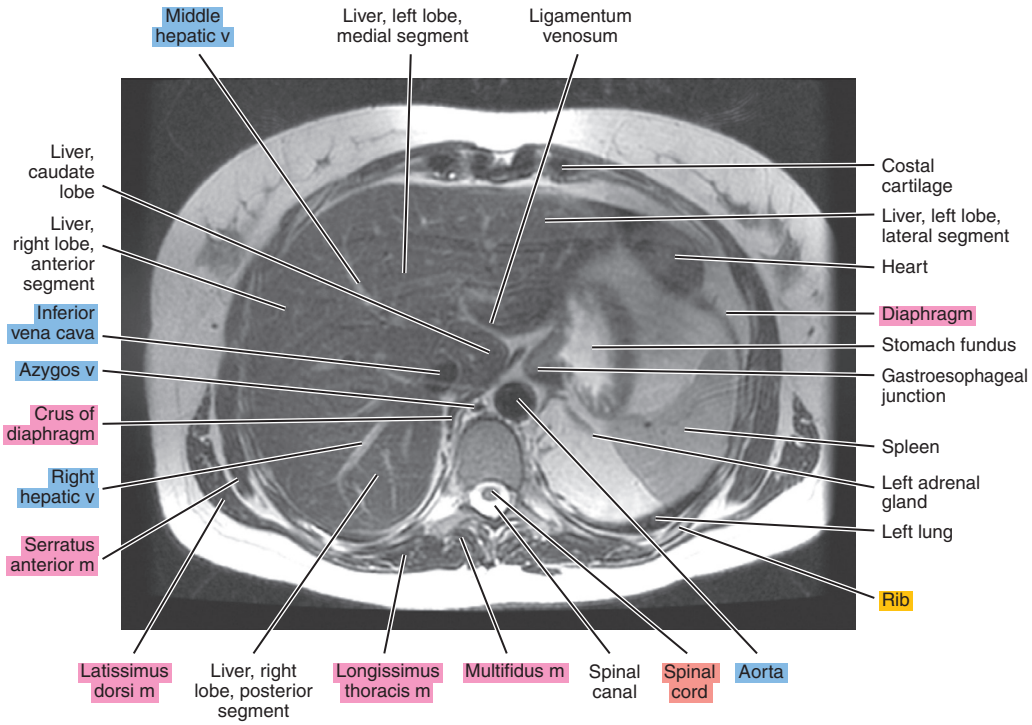

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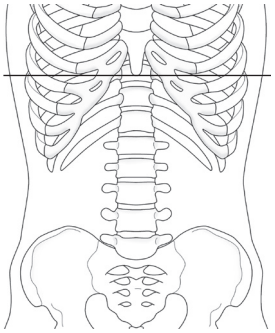

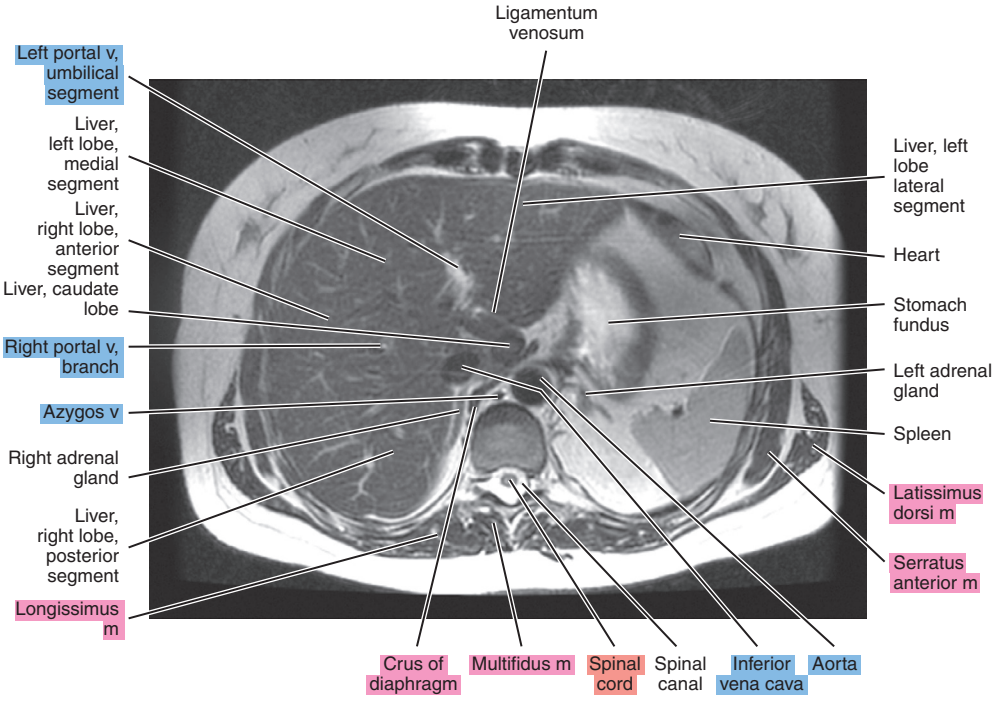

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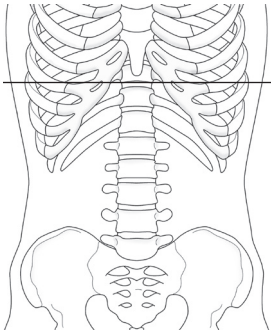

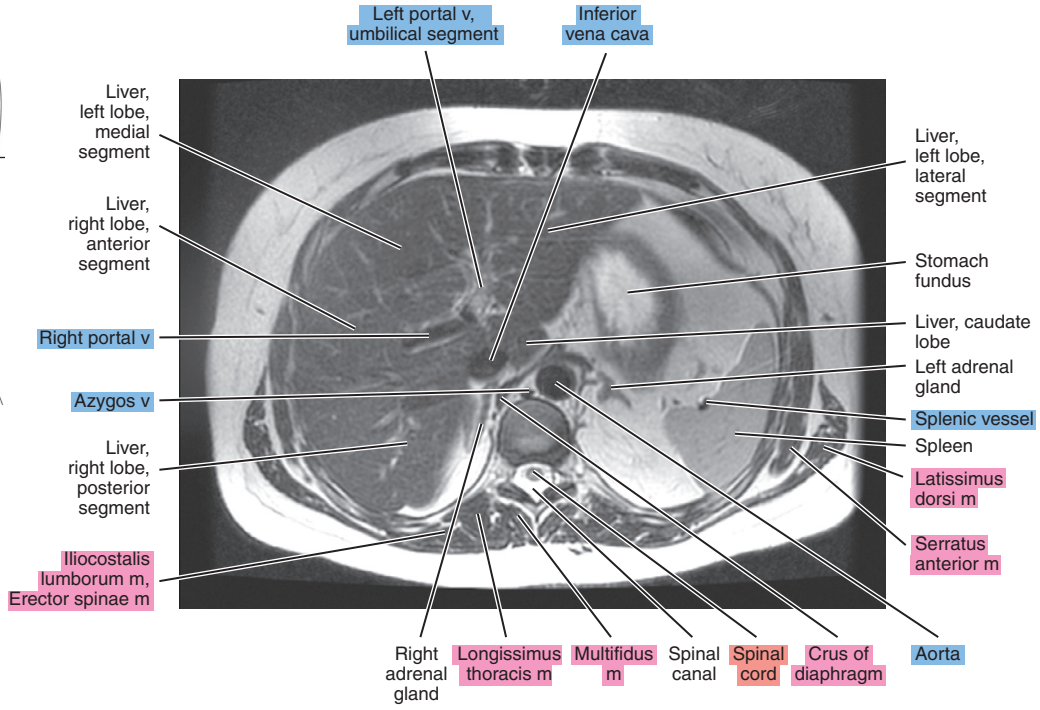

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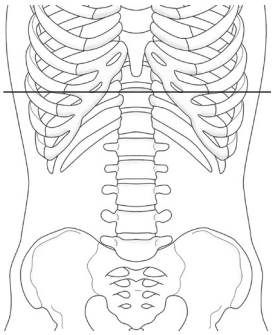

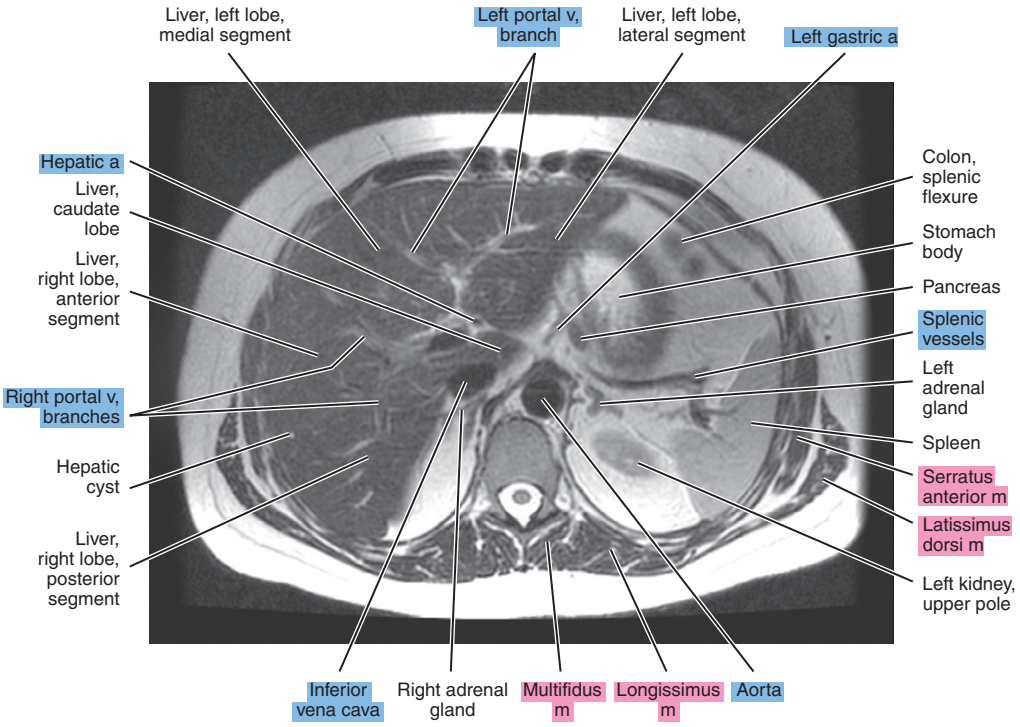

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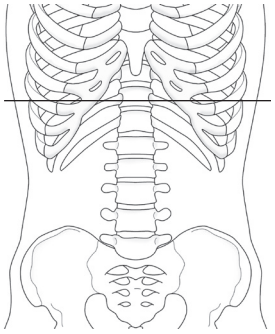

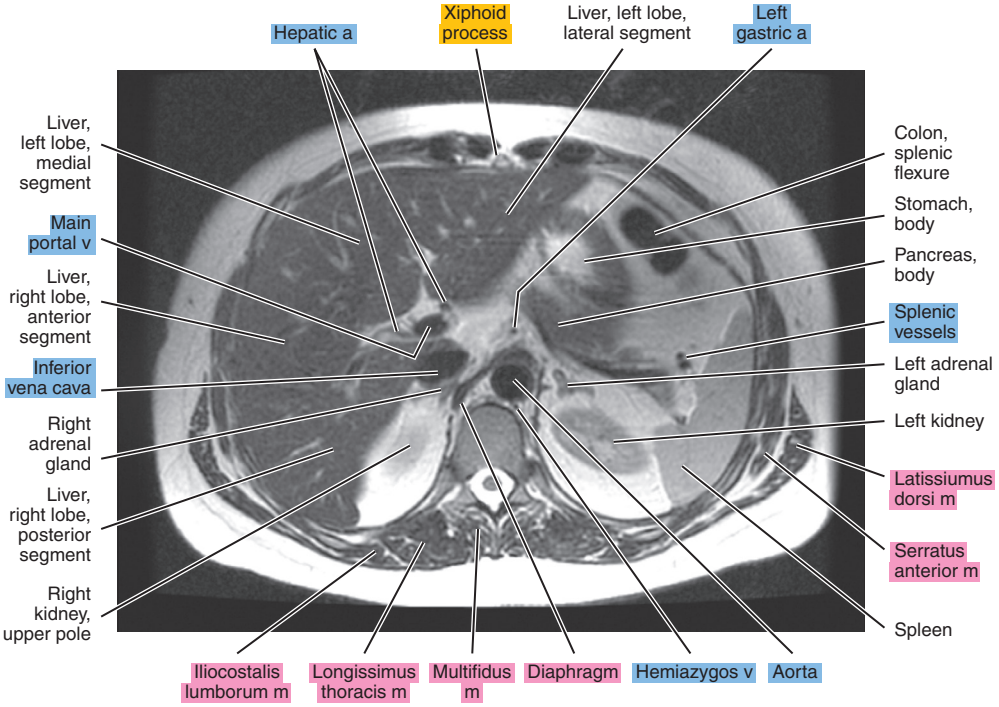

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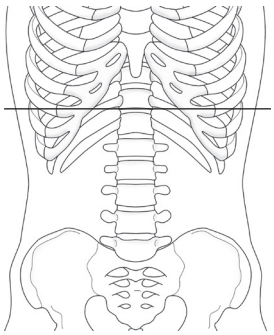

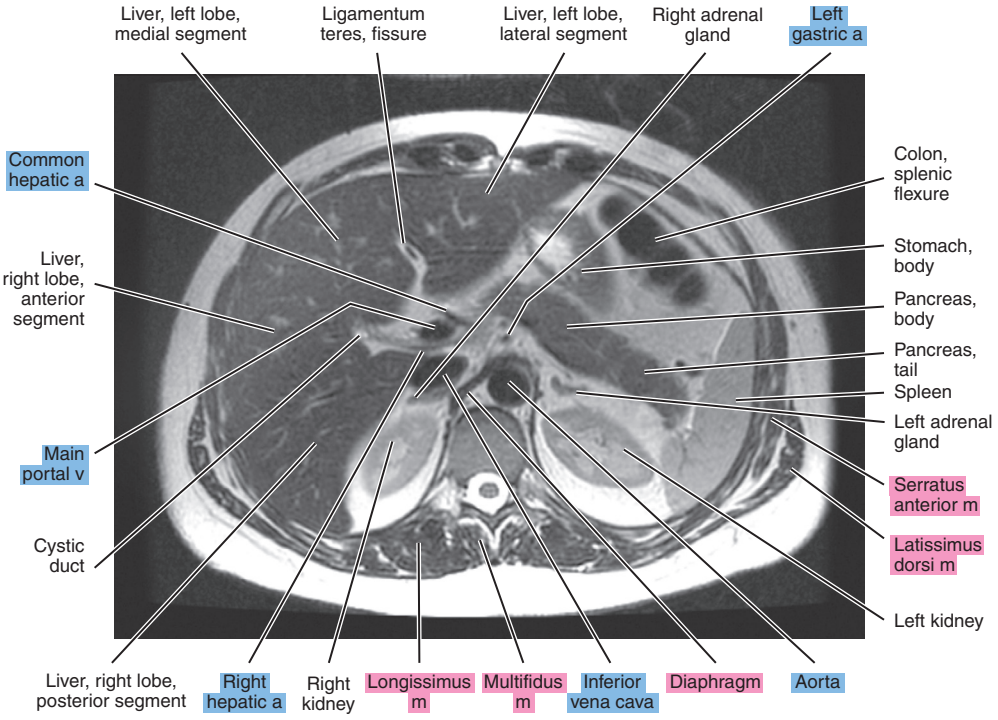

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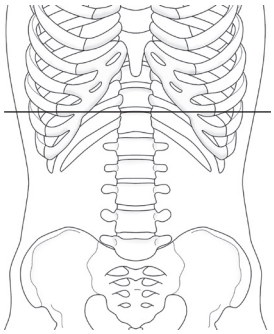

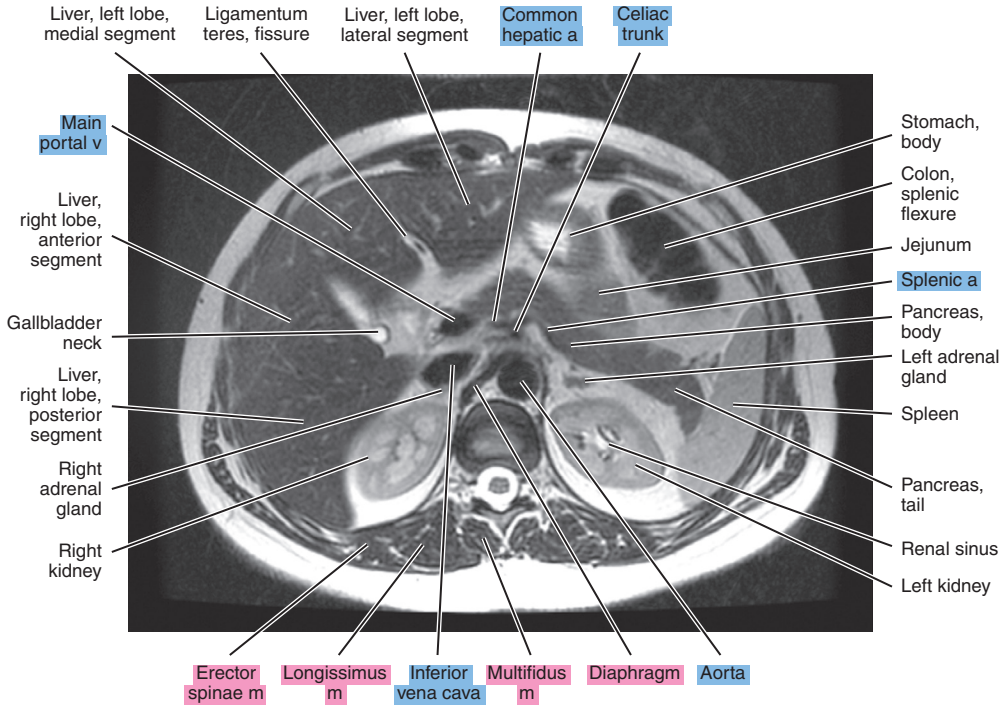

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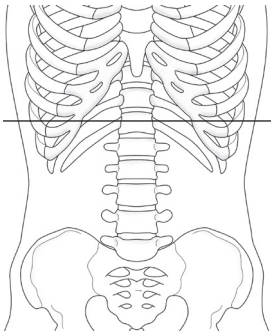

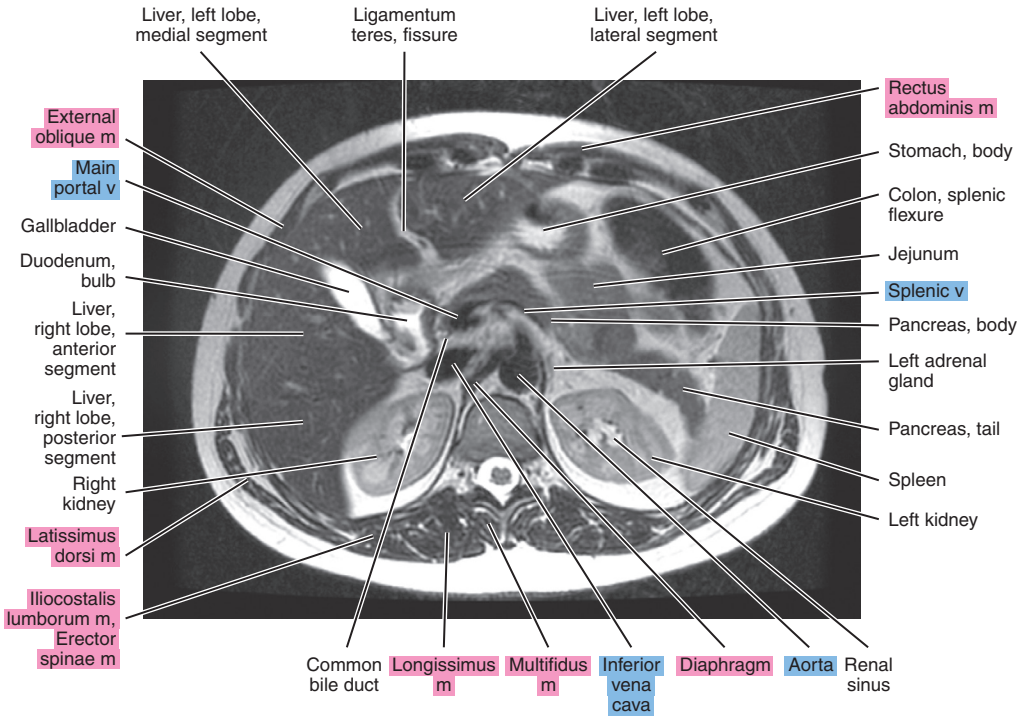

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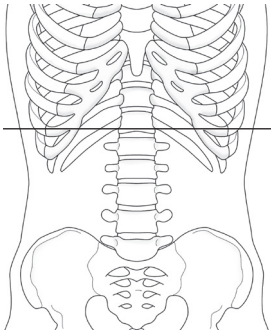

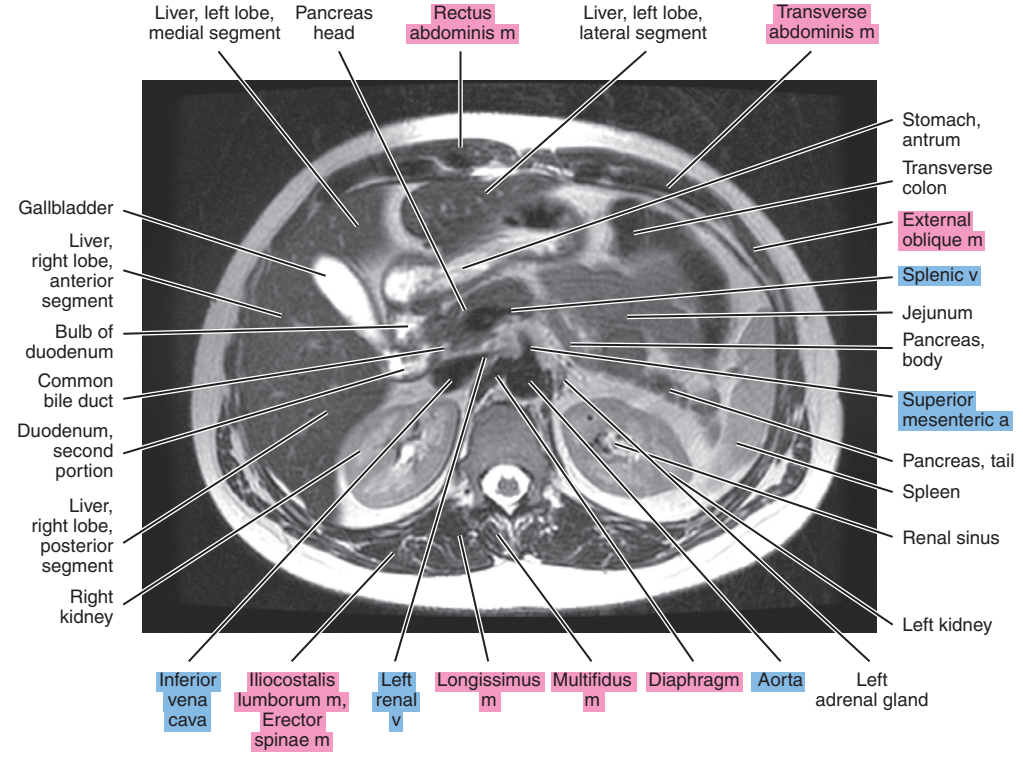

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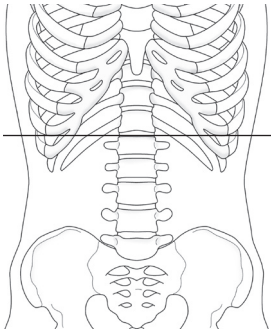

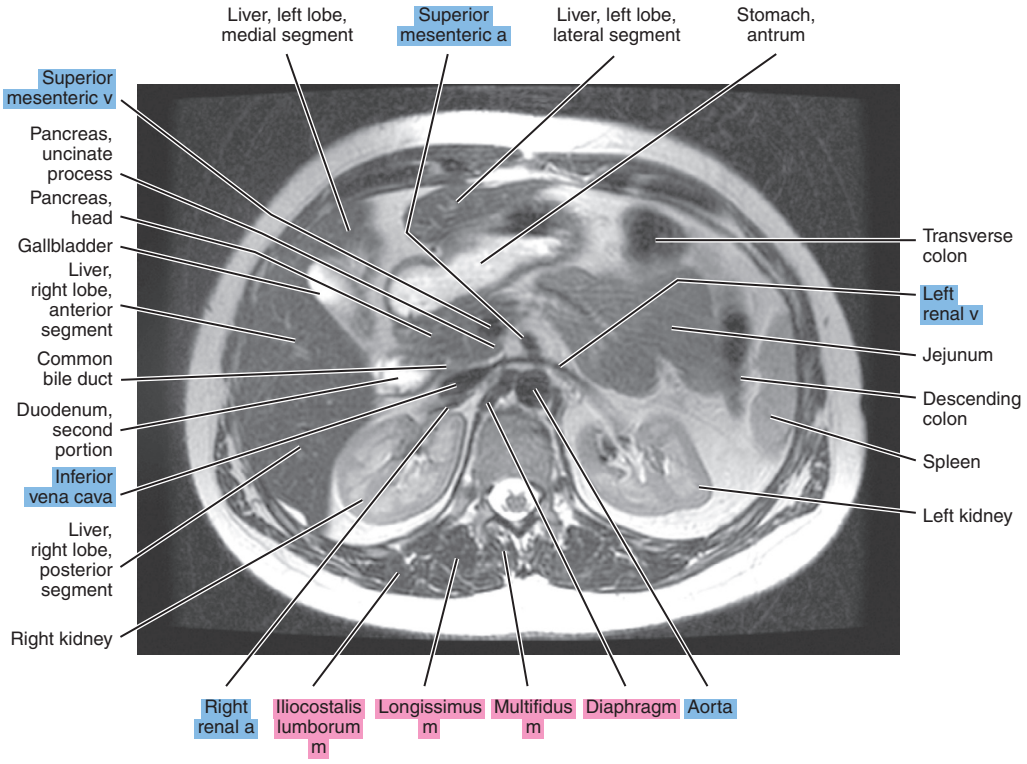

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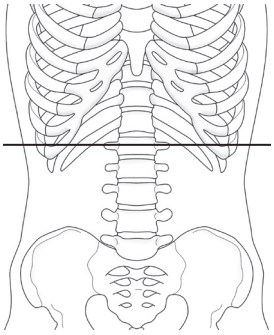

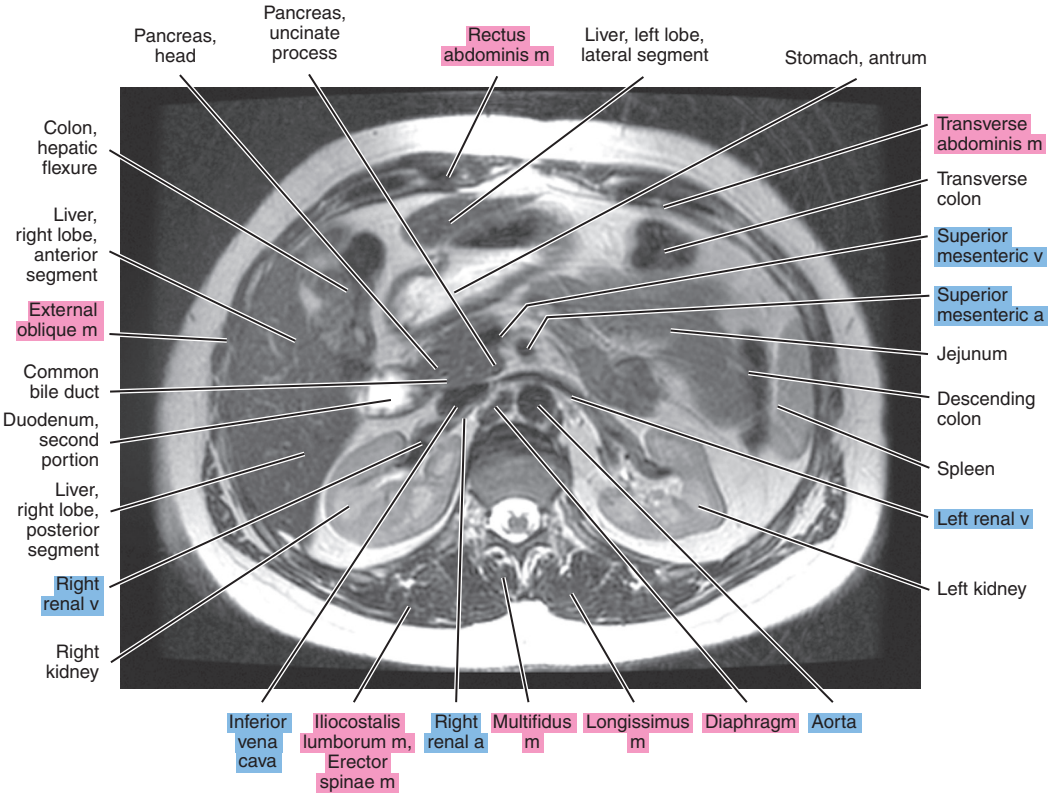

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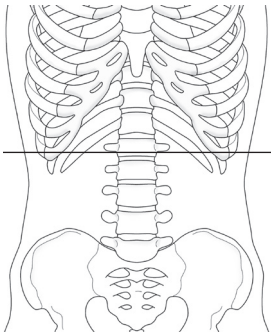

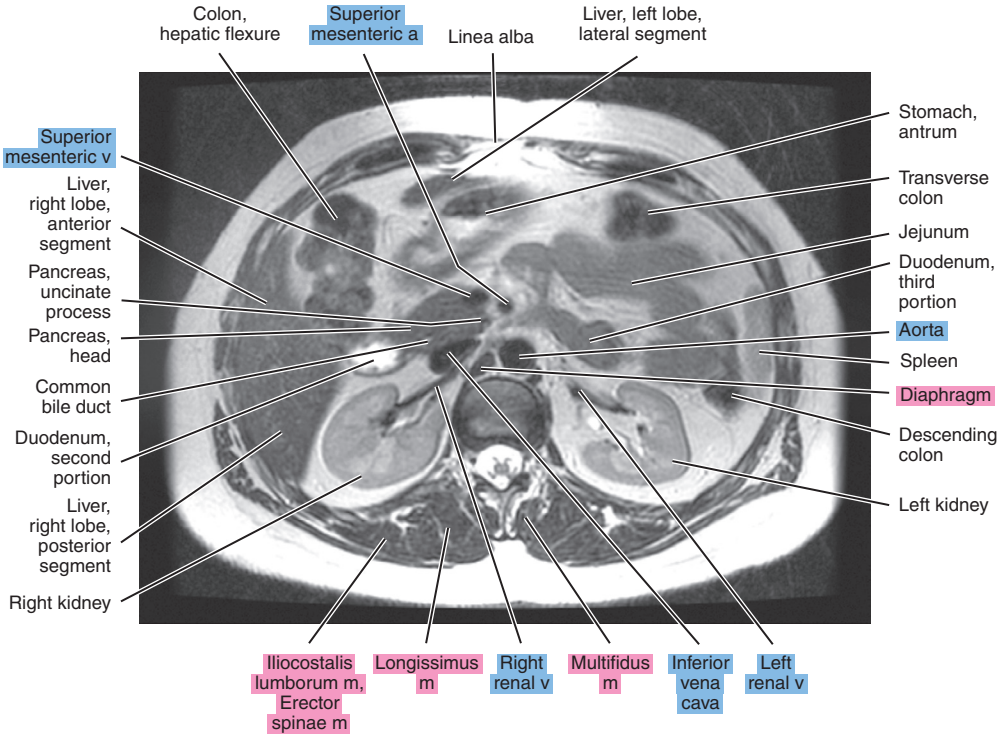

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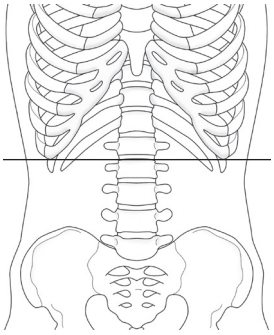

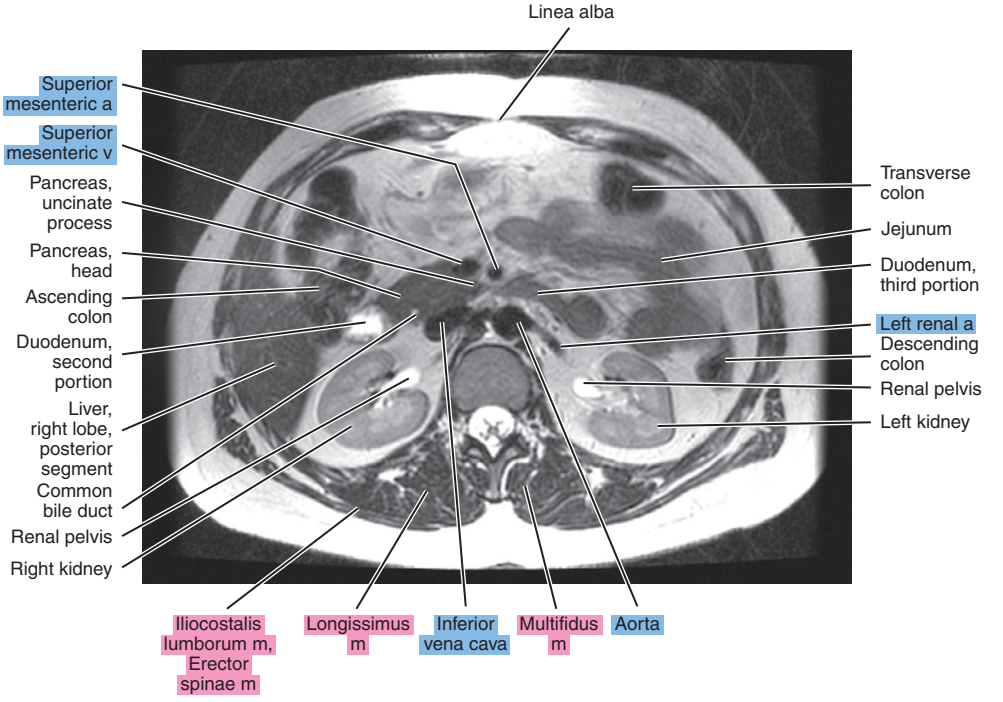

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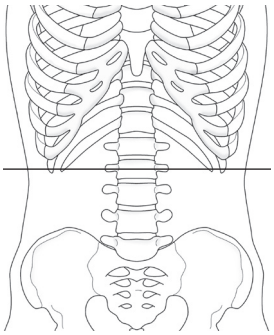

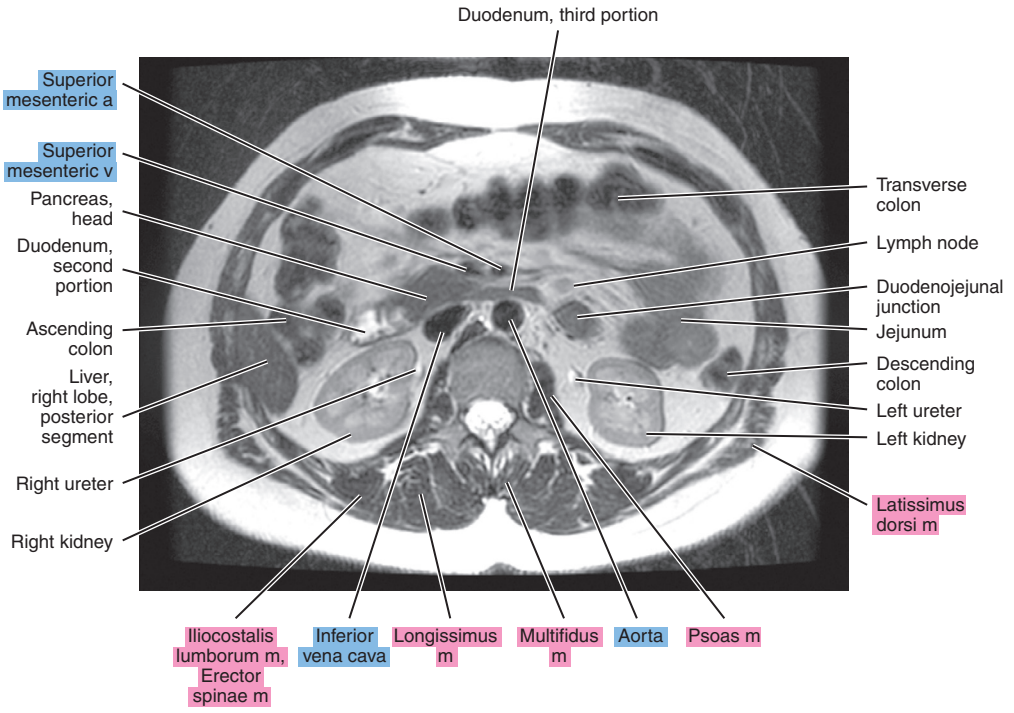

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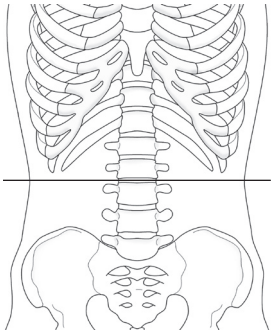

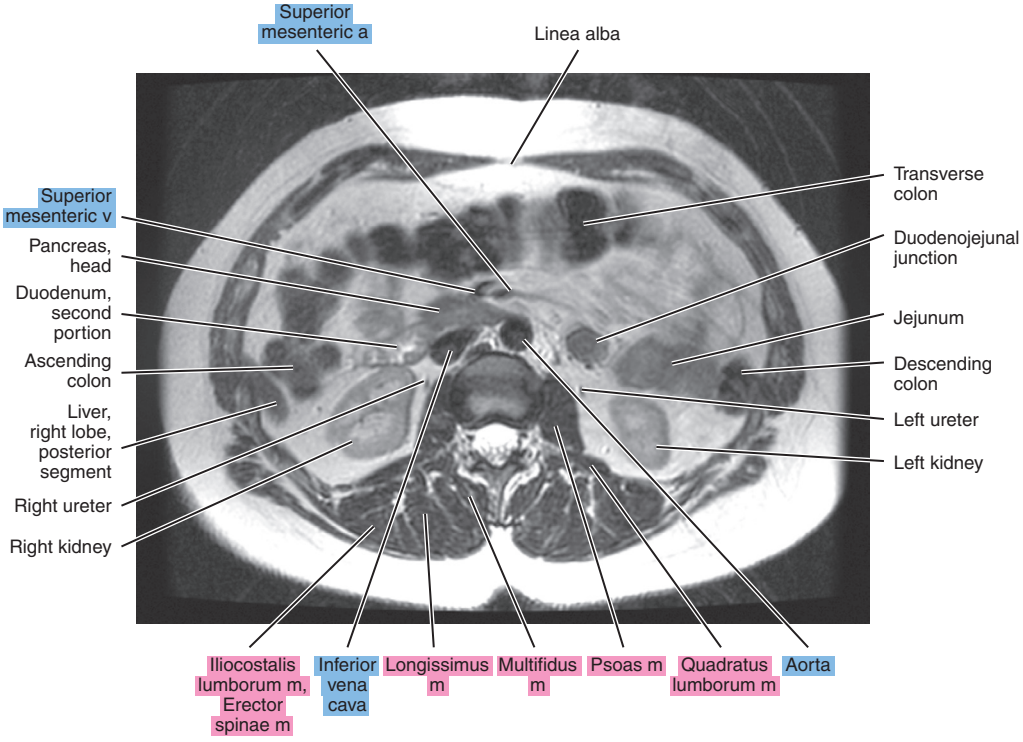

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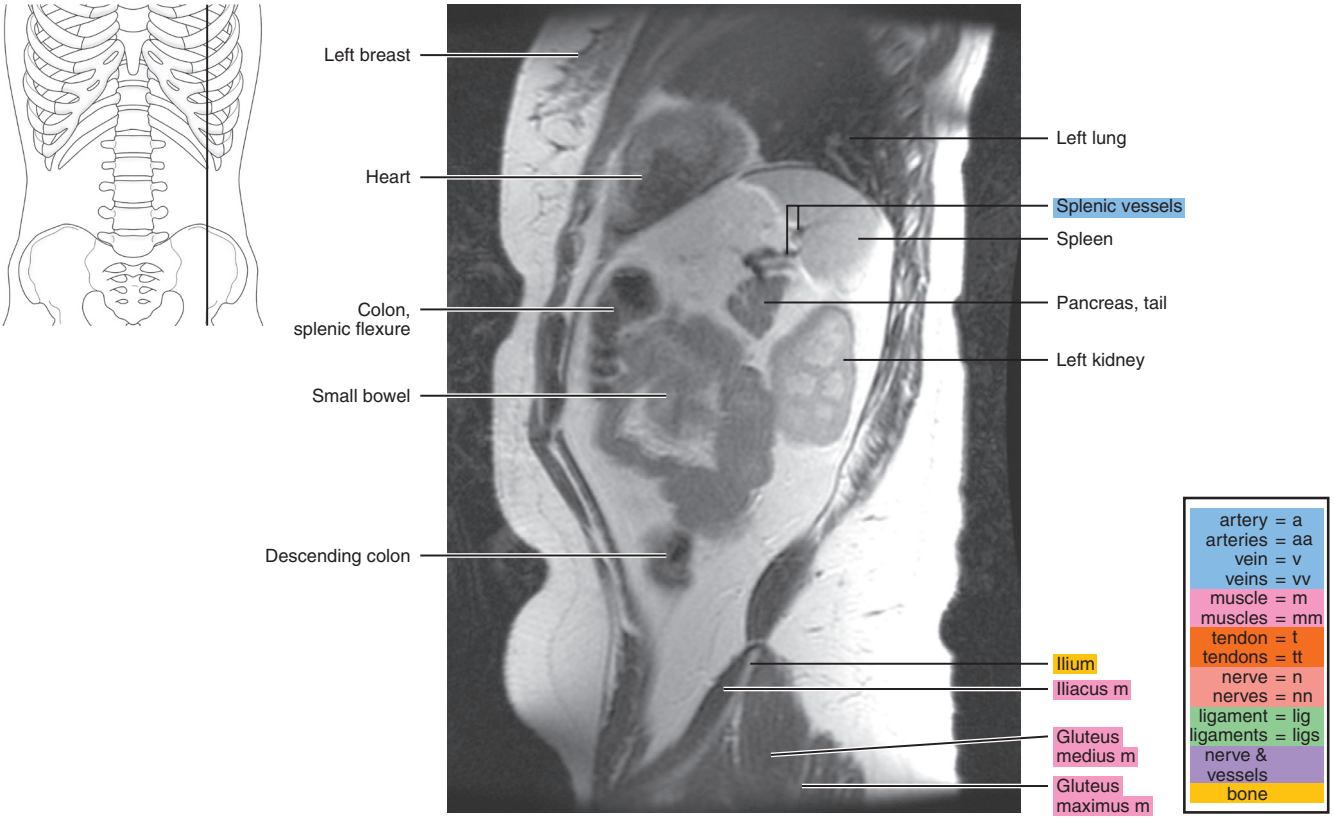

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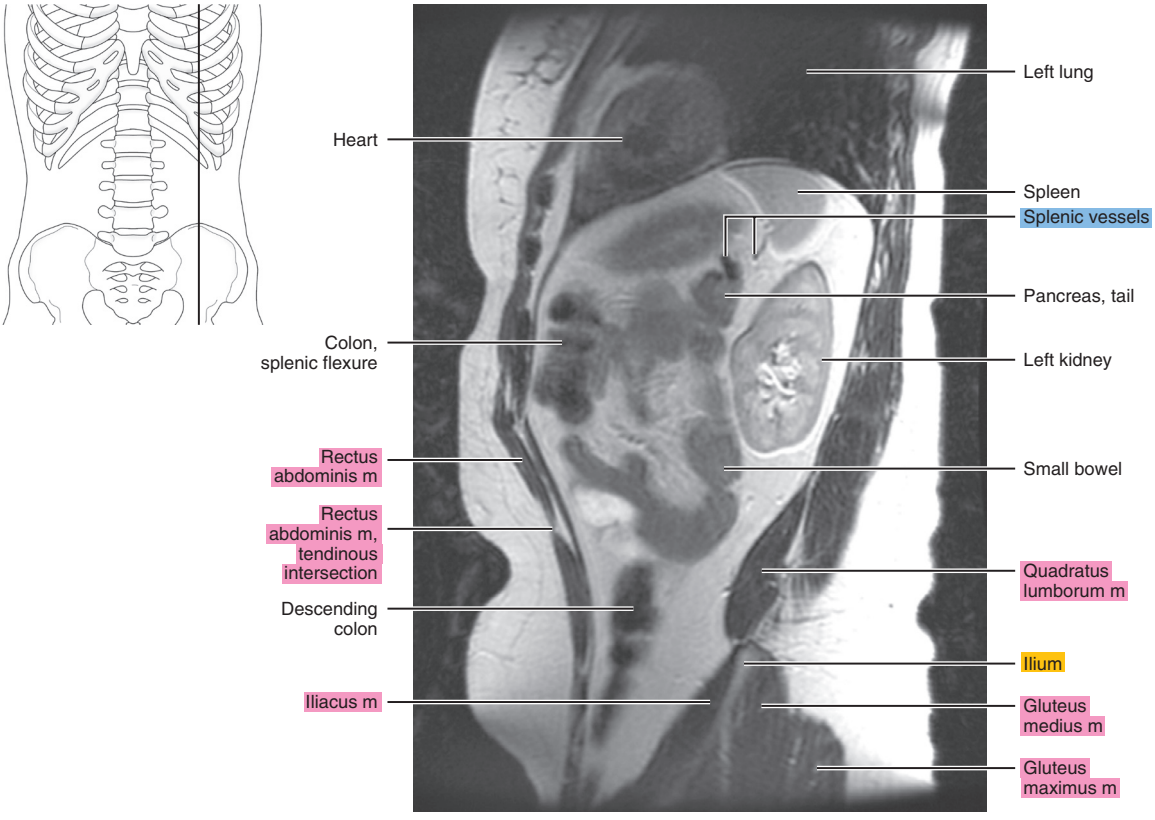

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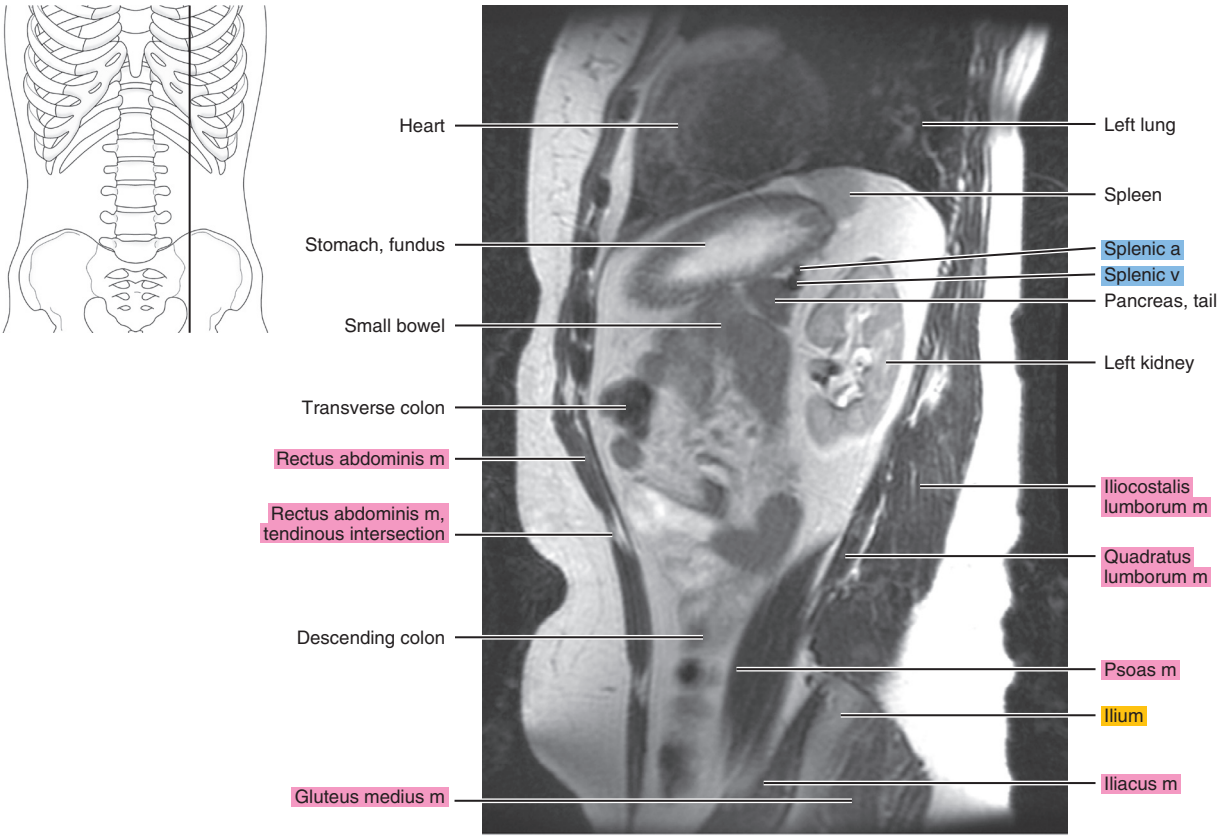

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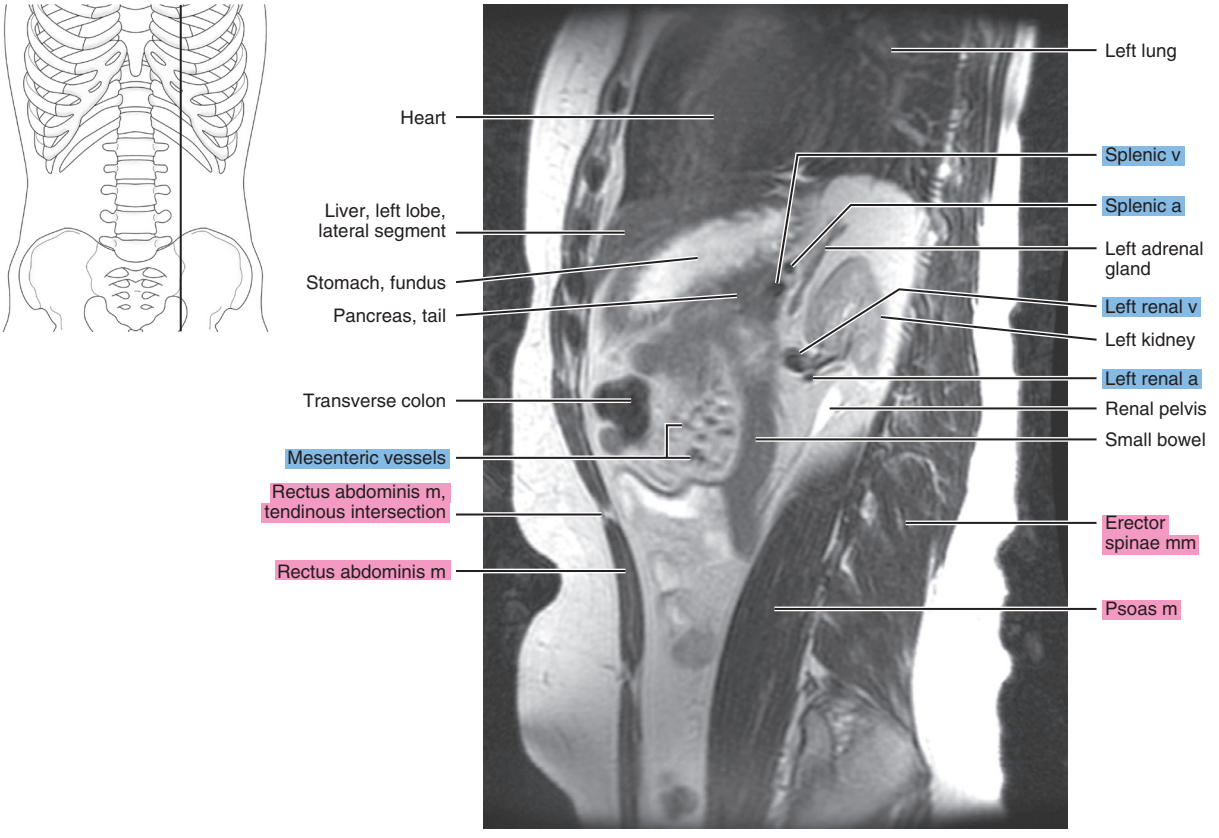

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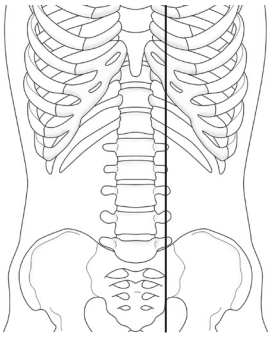

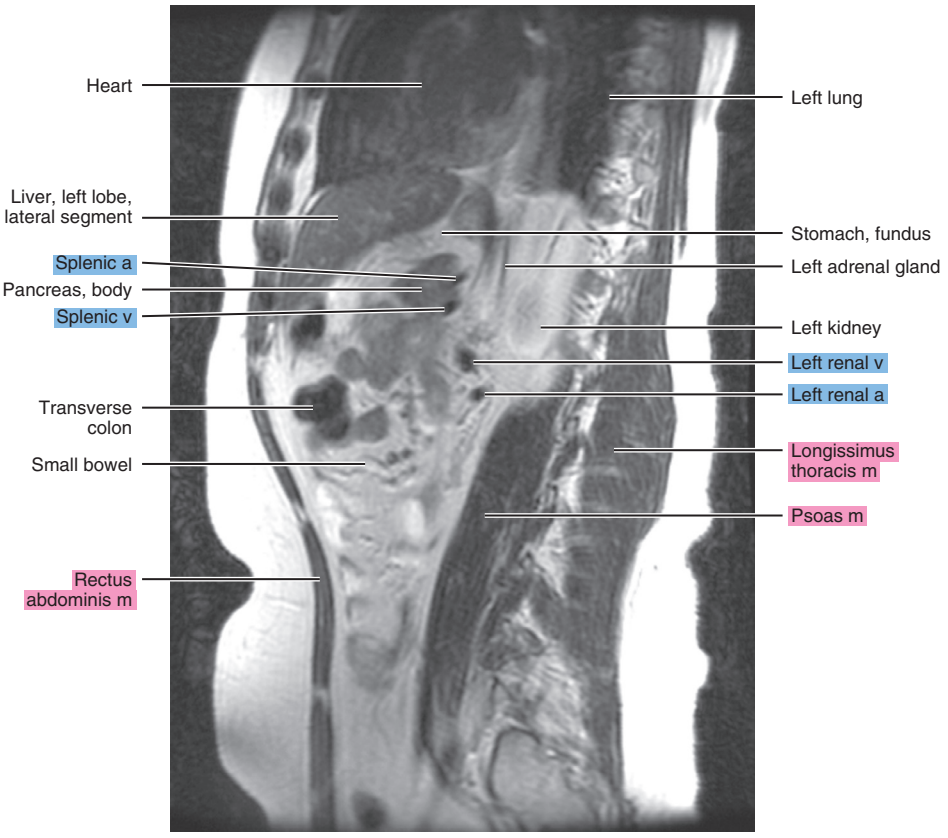

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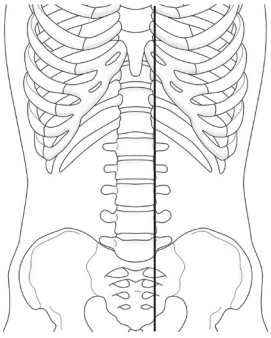

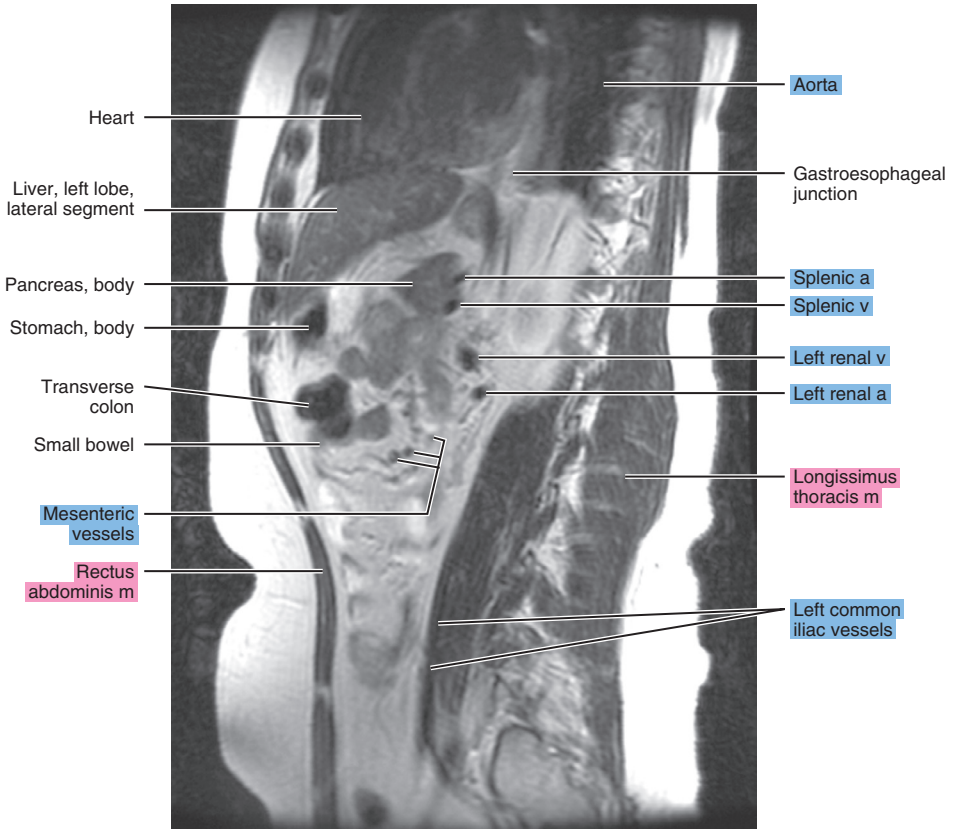

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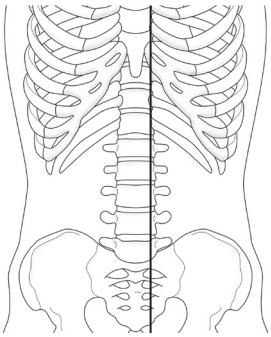

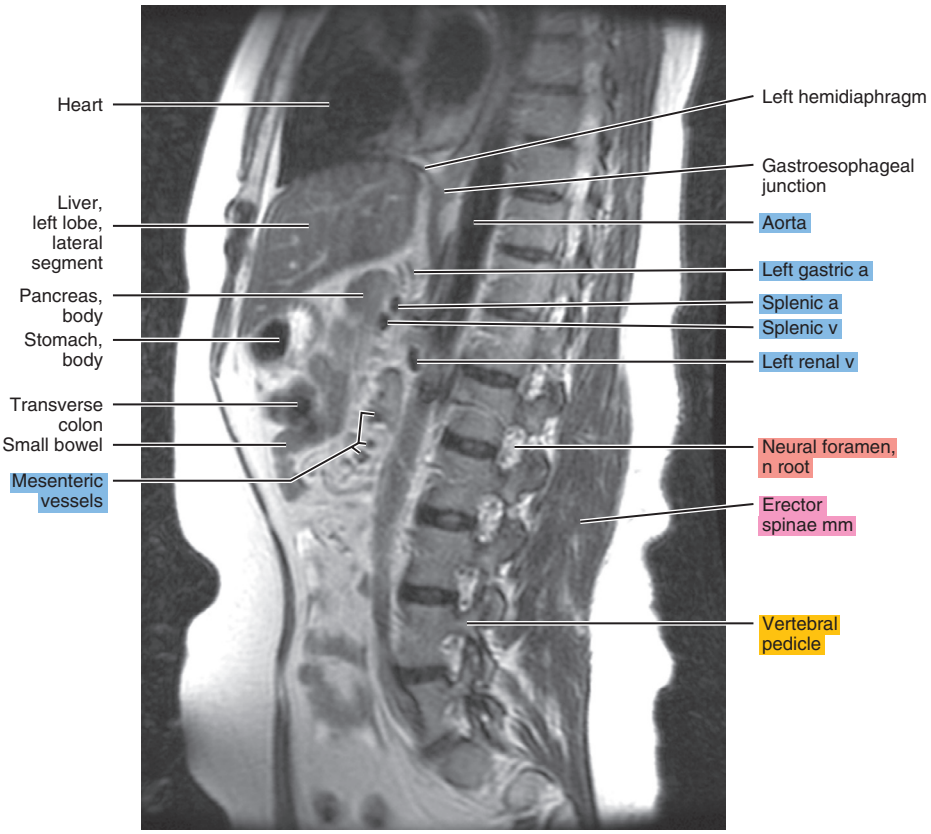

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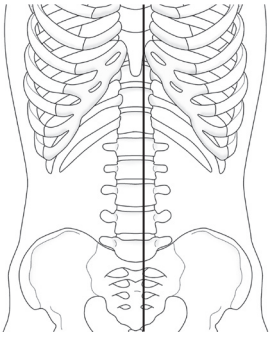

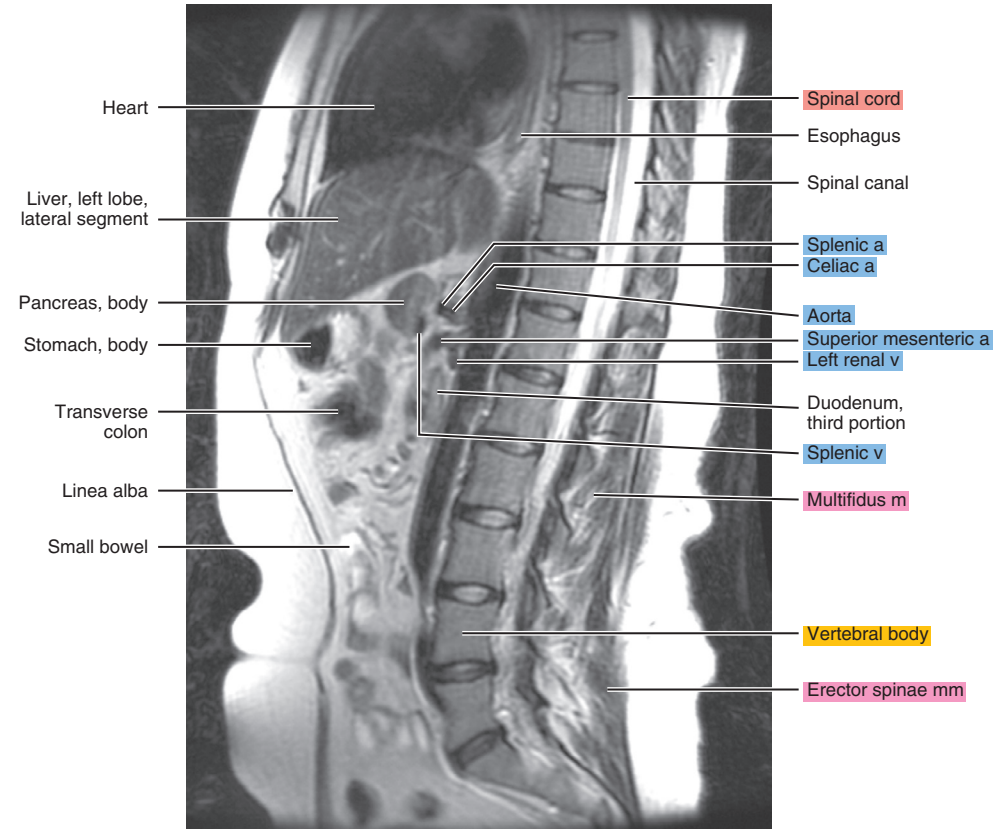

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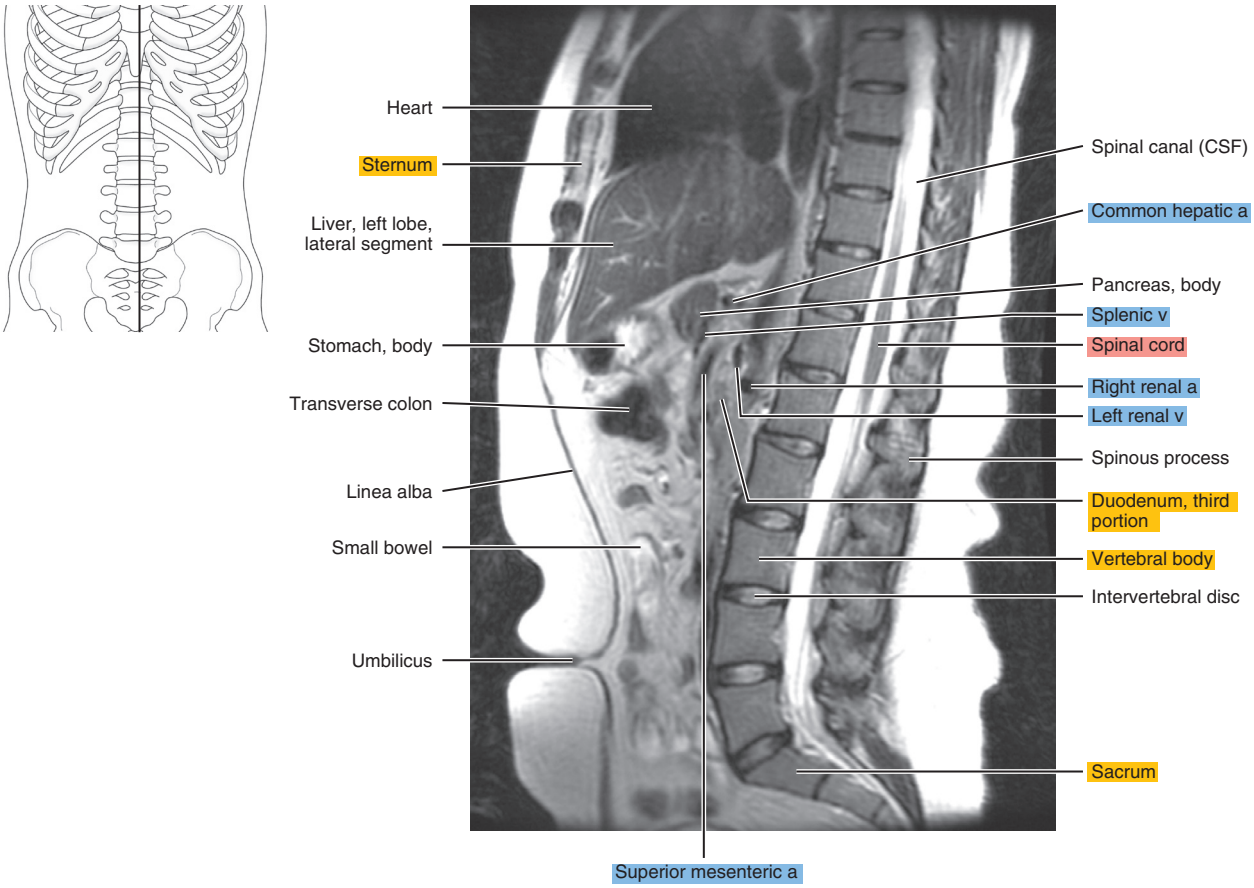

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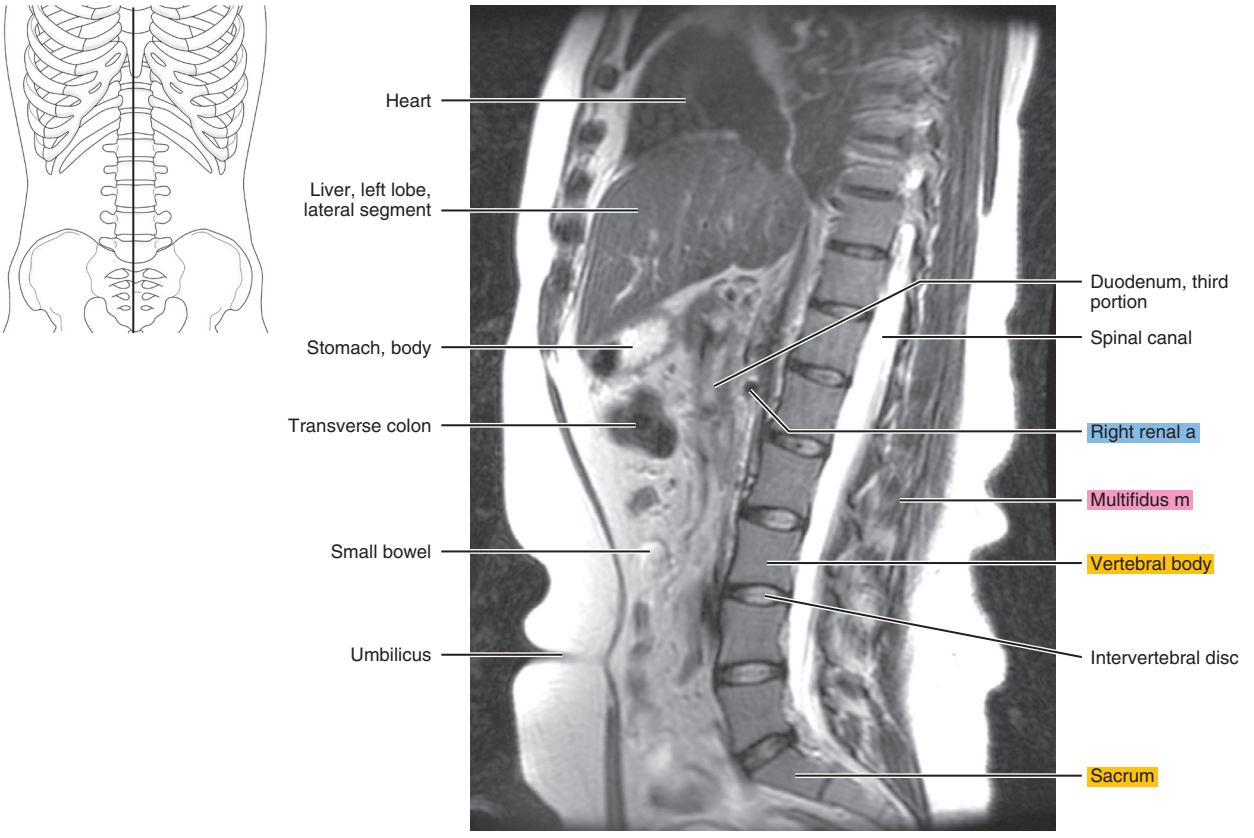

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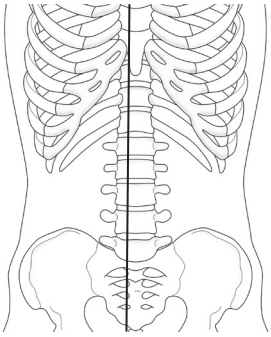

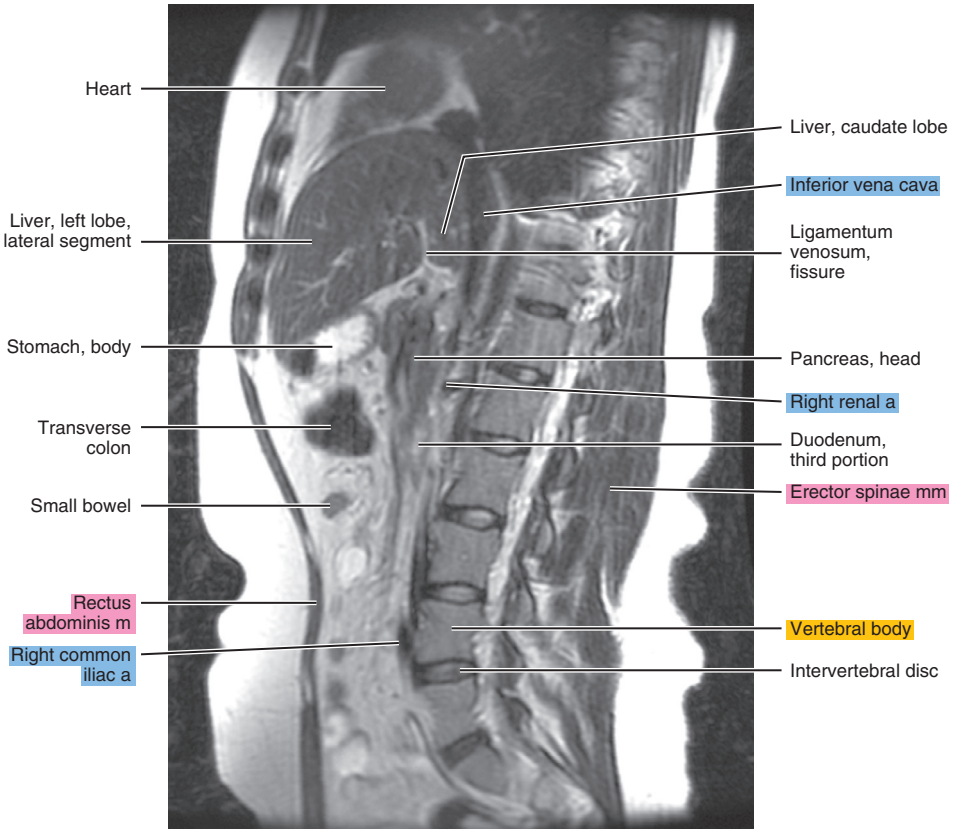

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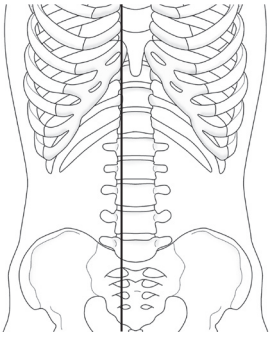

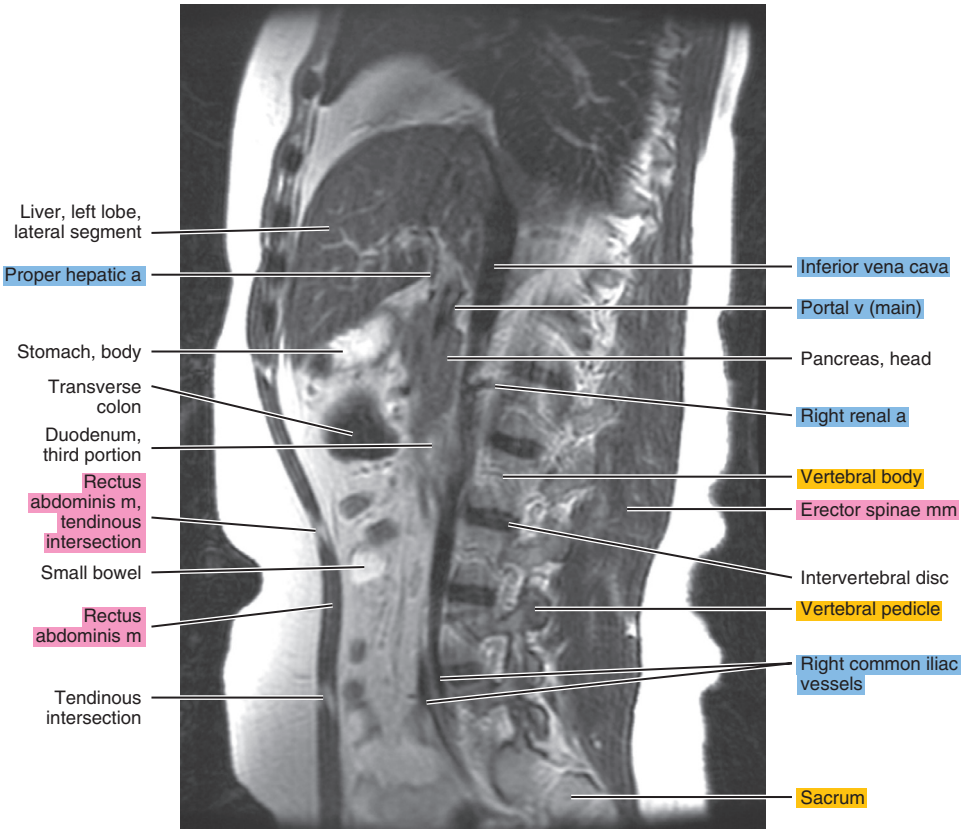

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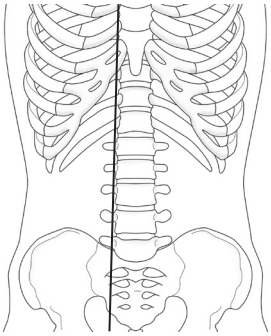

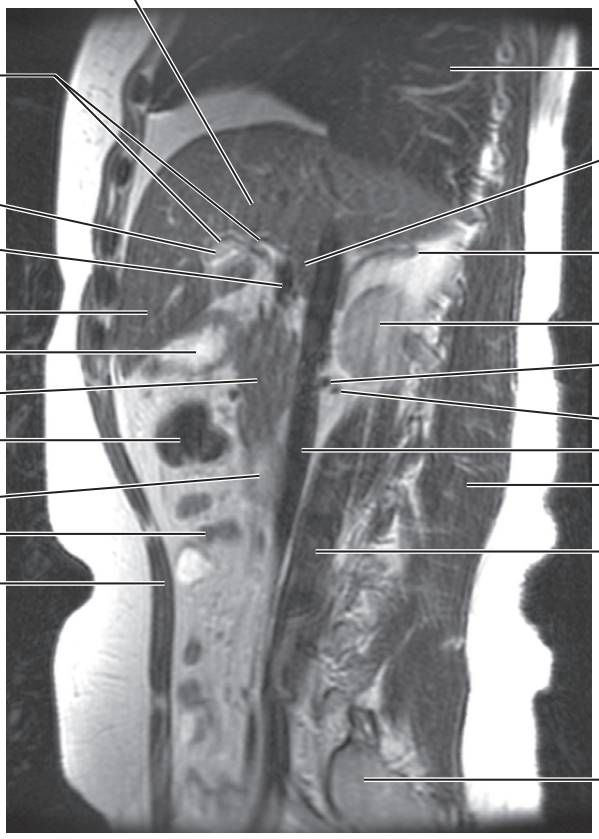

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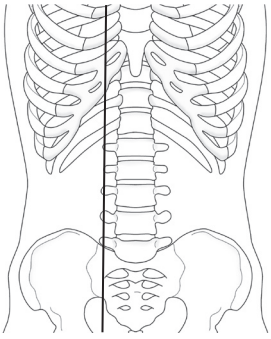

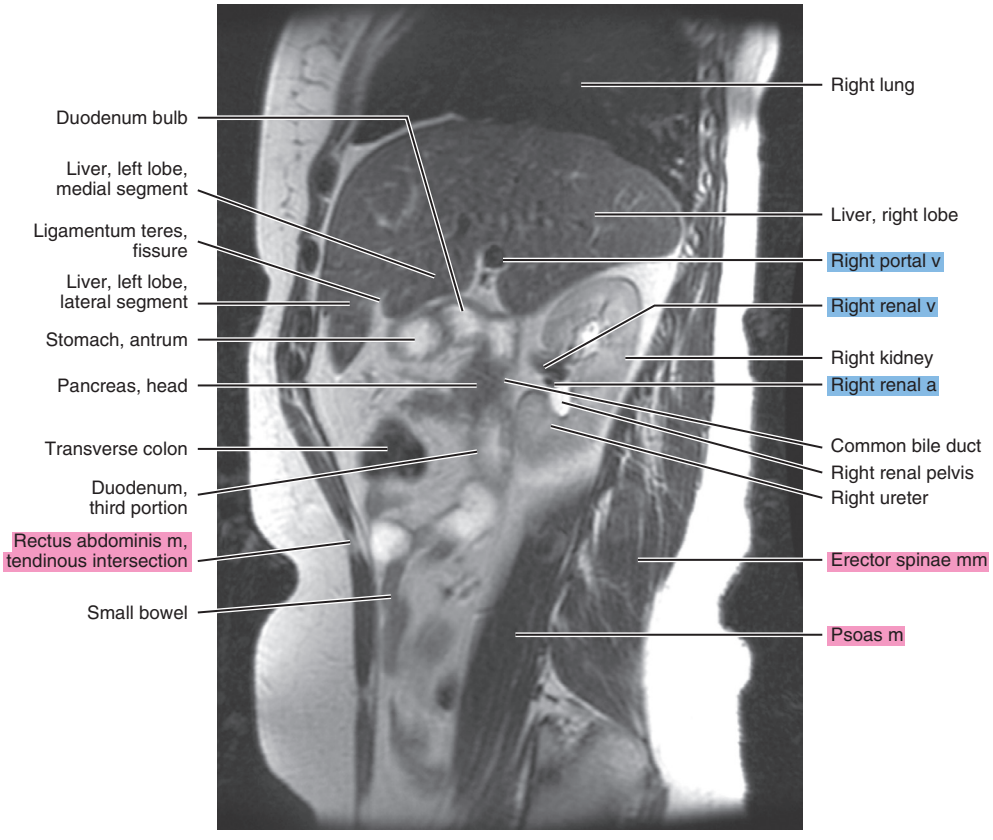

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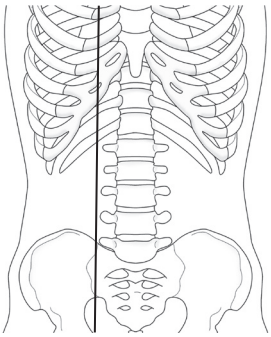

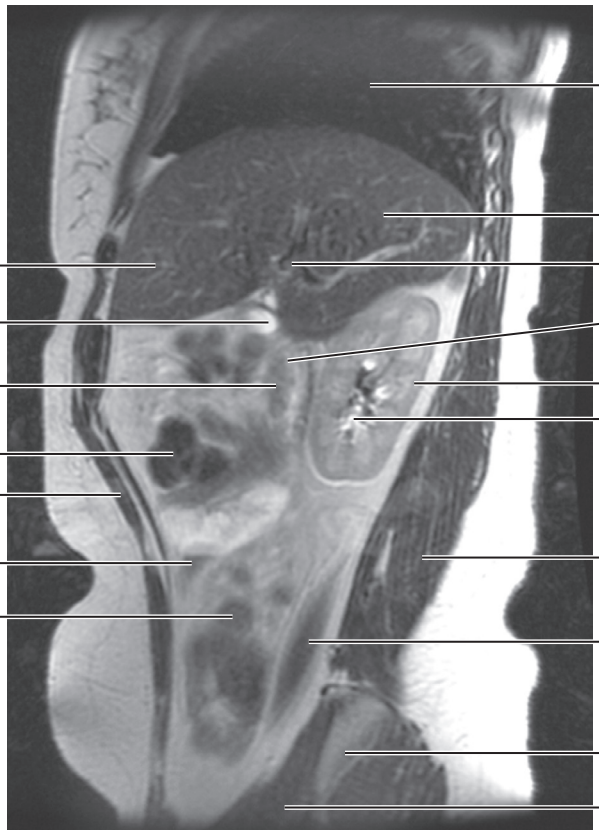

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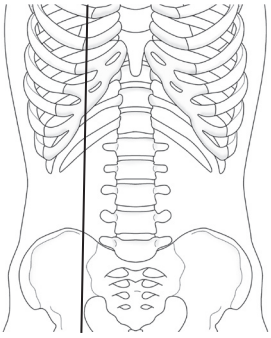

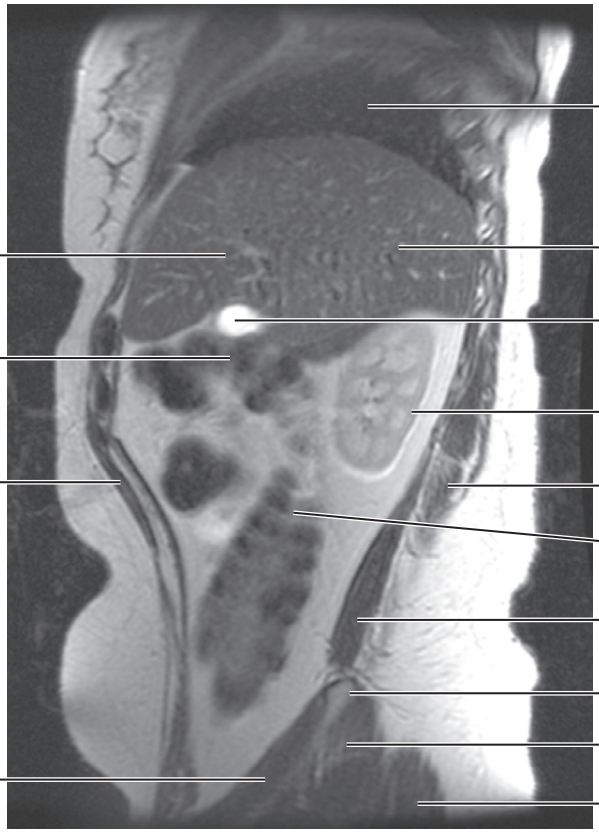

CORONAL

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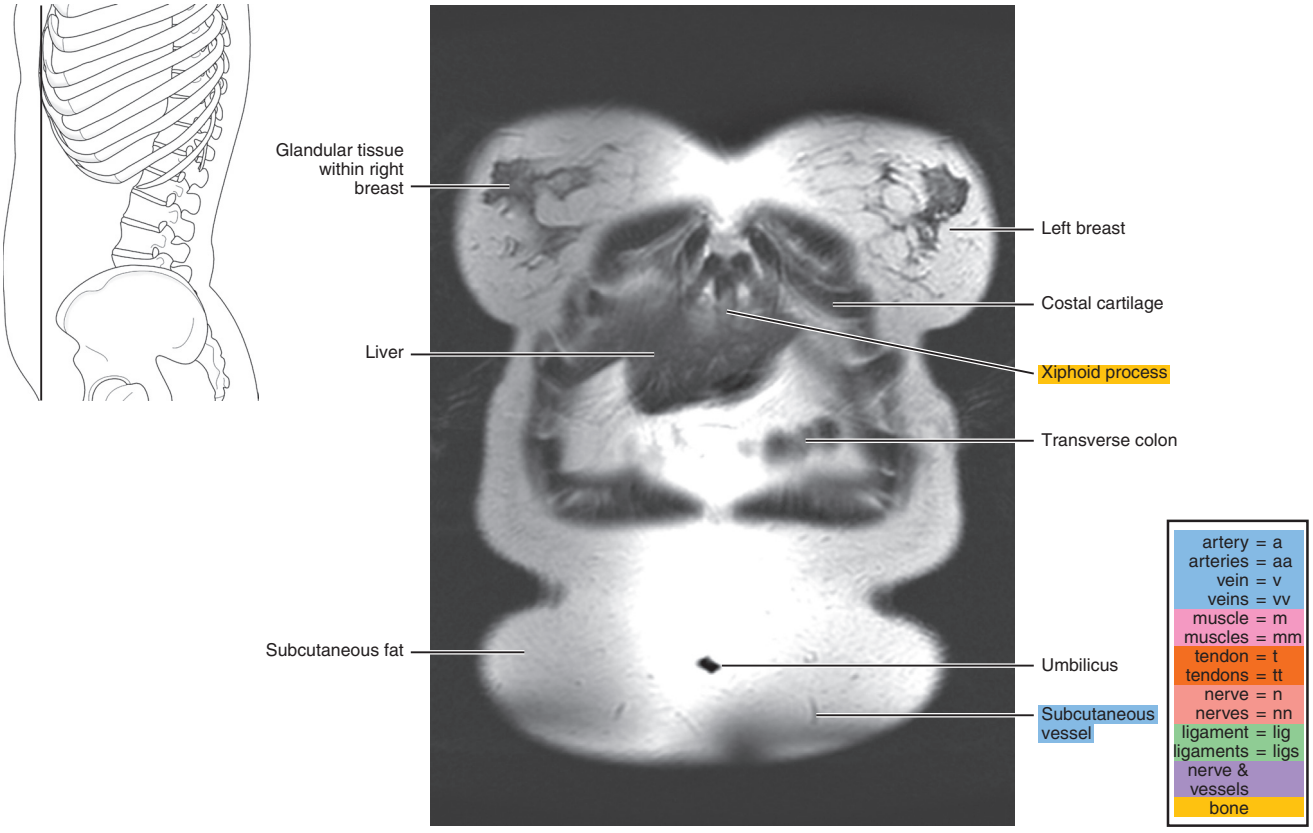

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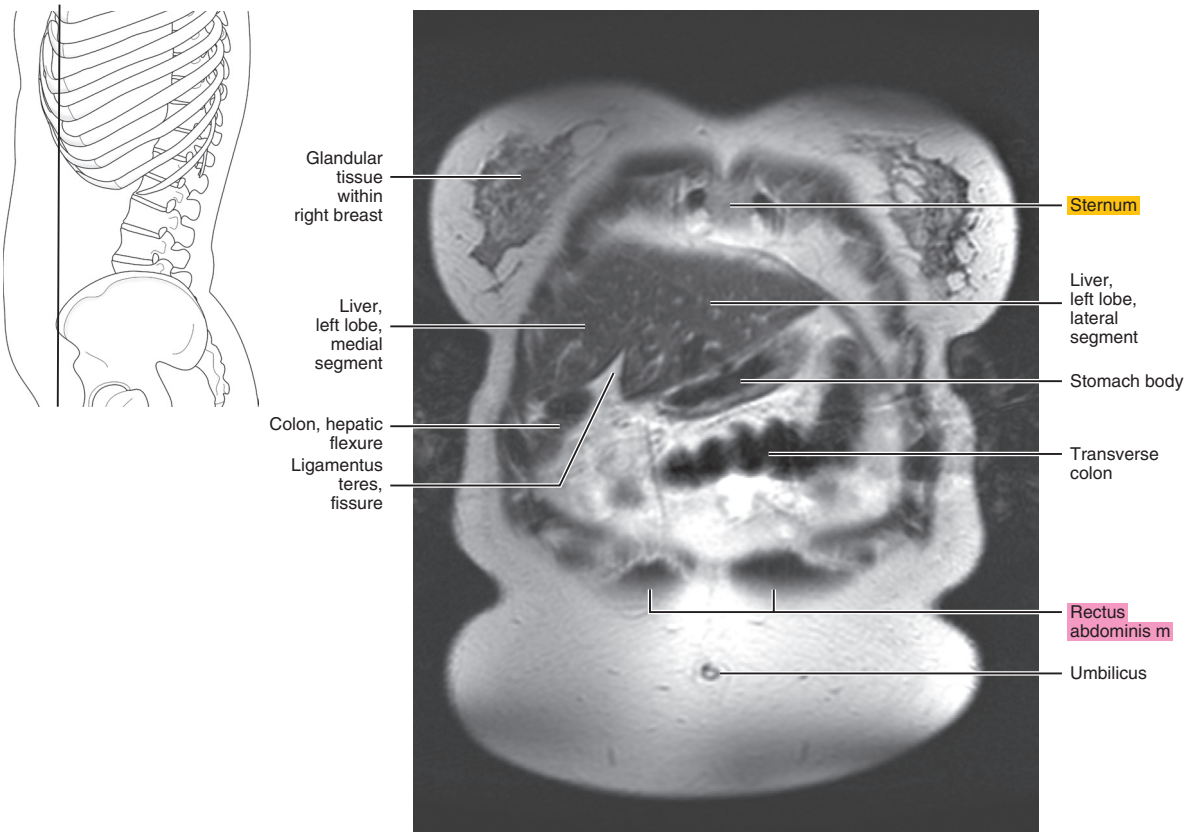

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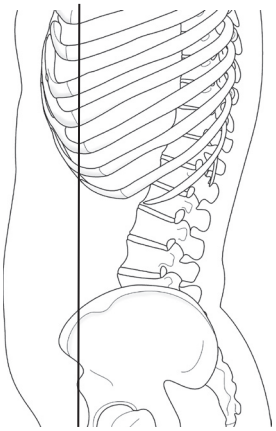

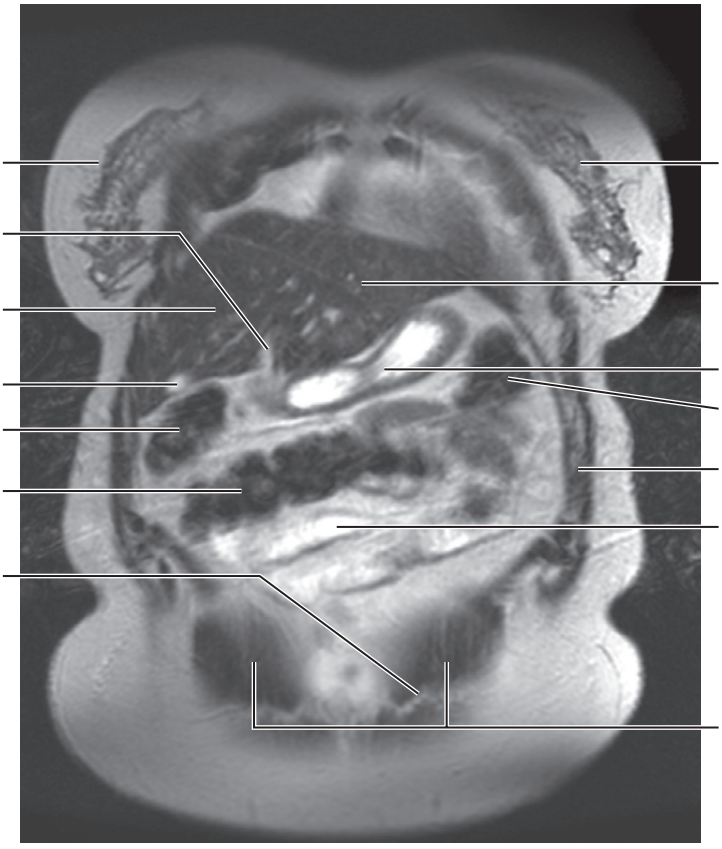

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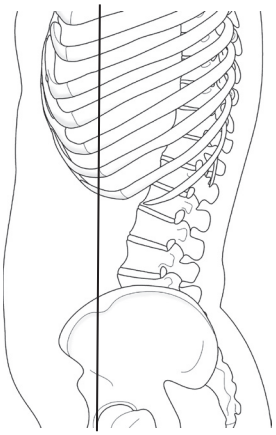

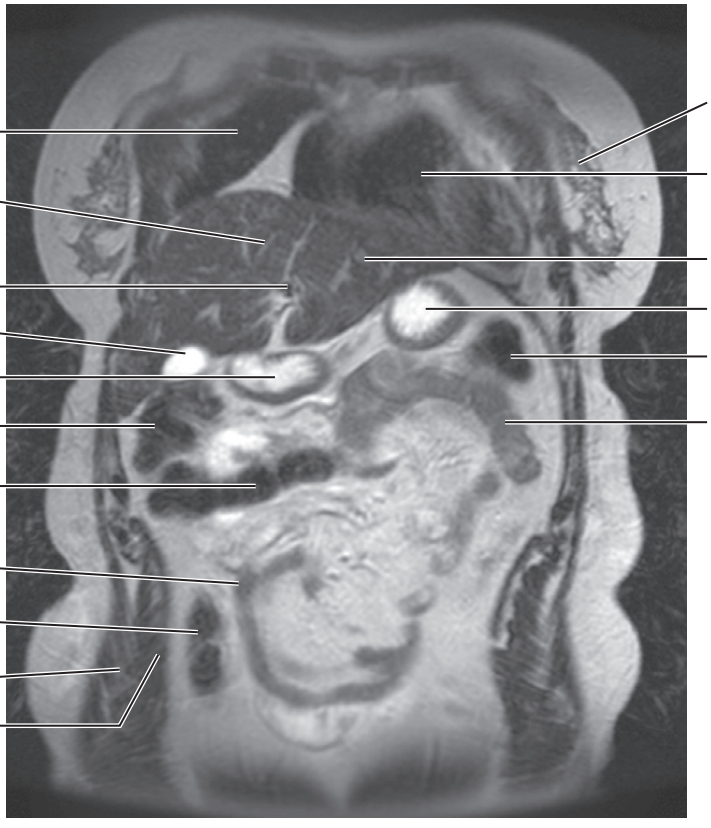

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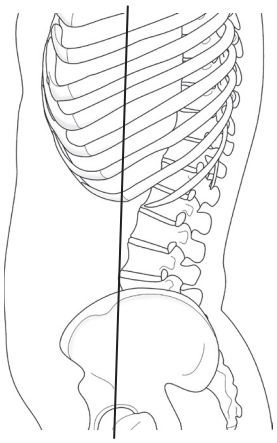

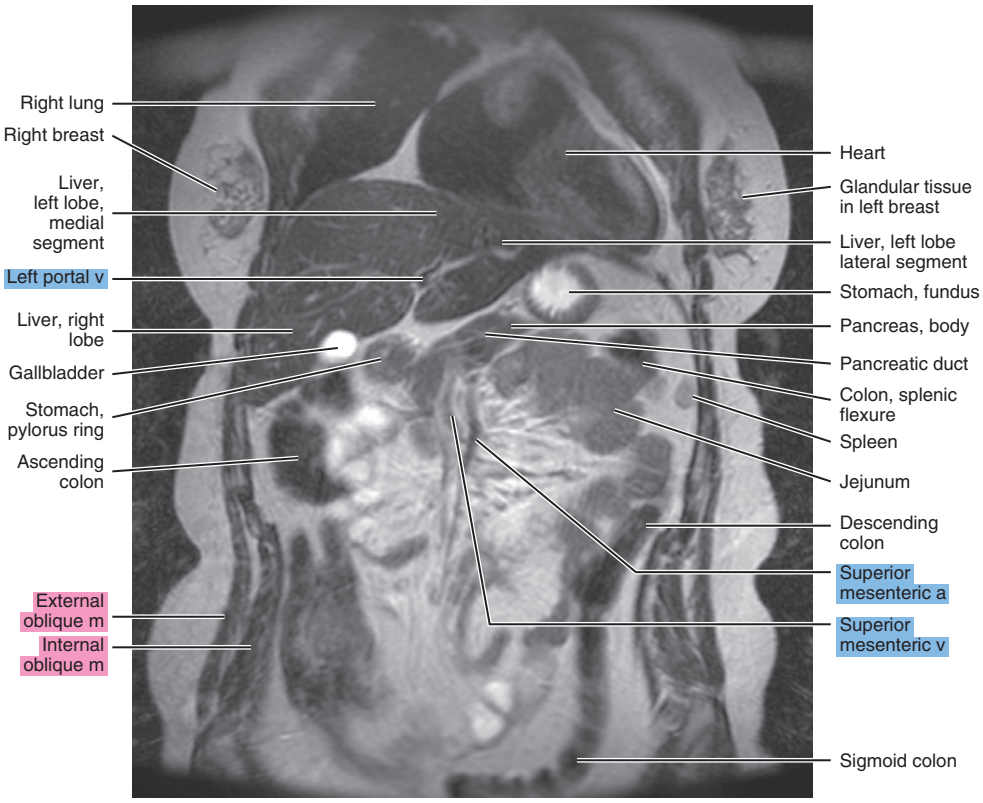

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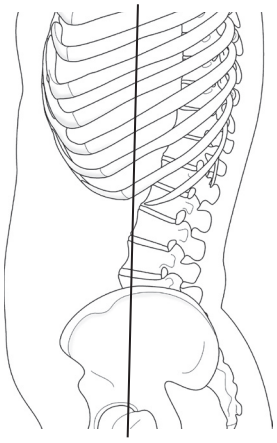

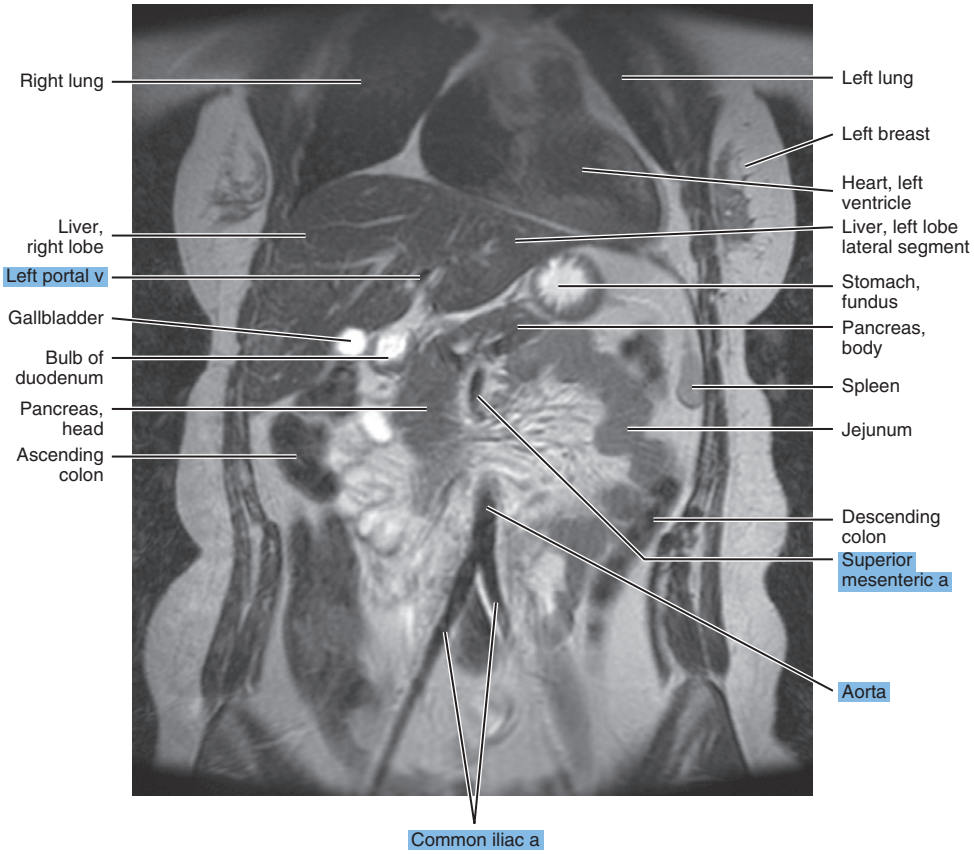

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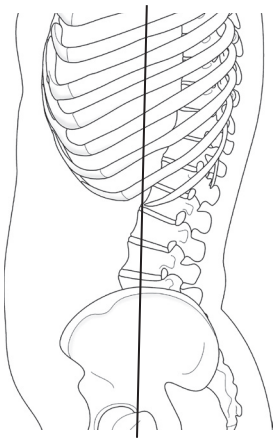

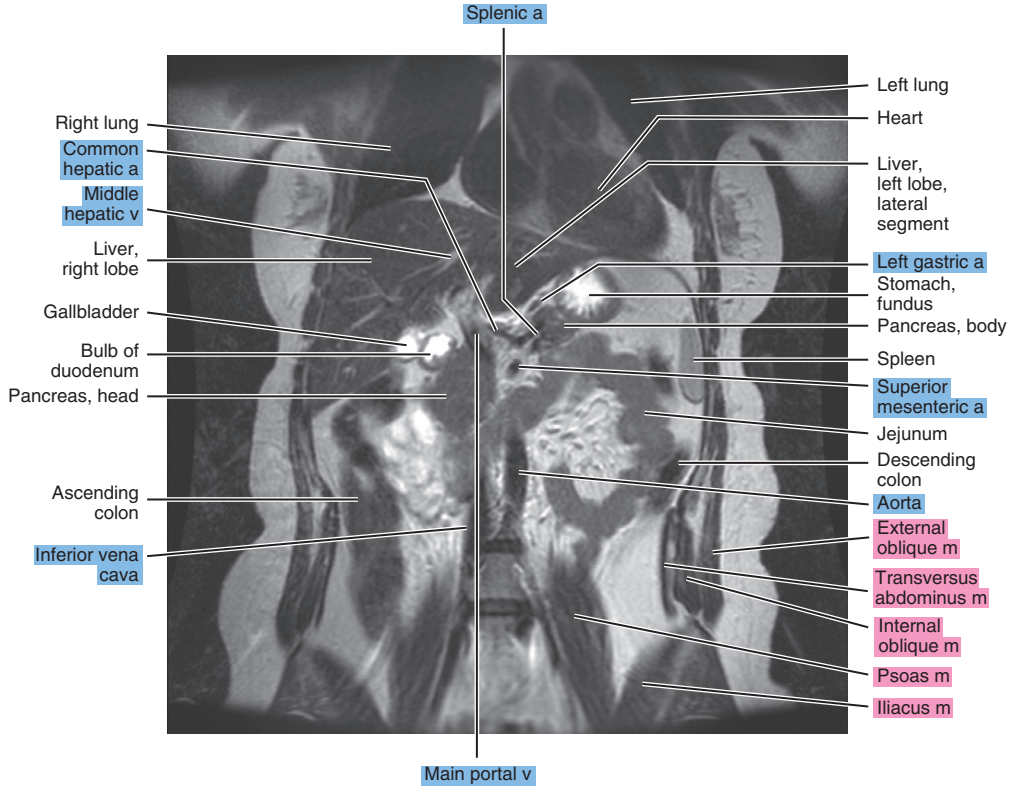

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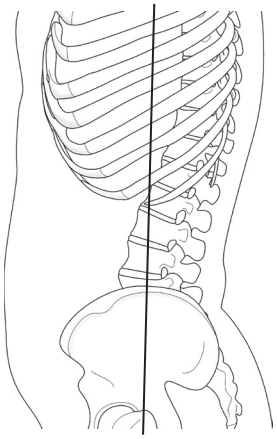

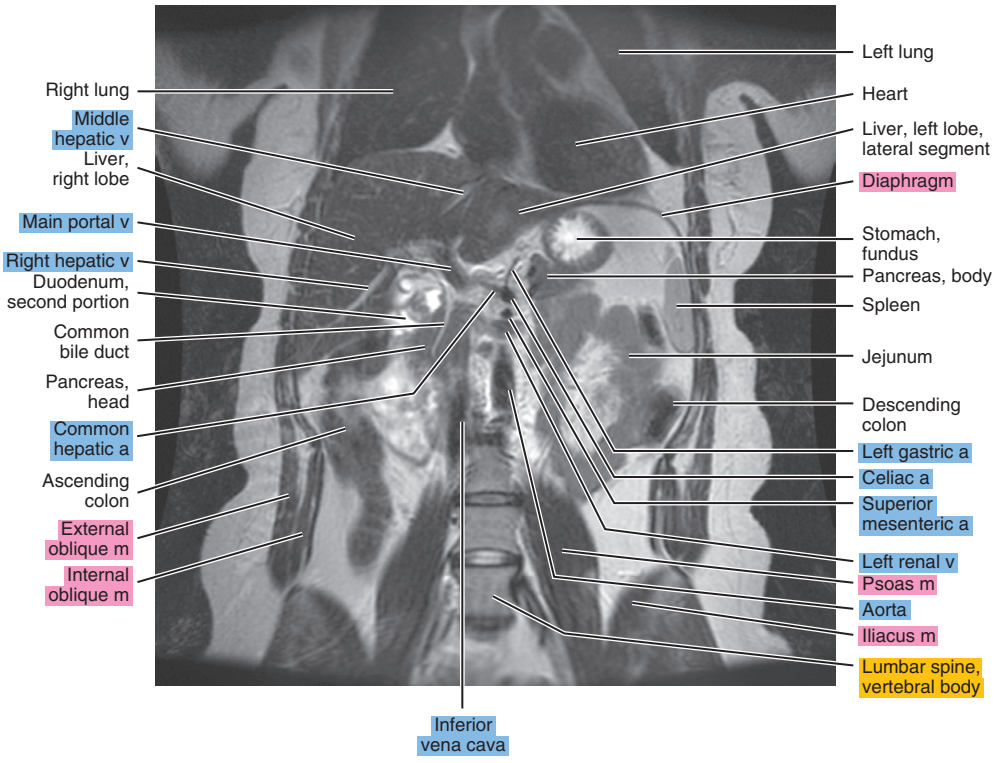

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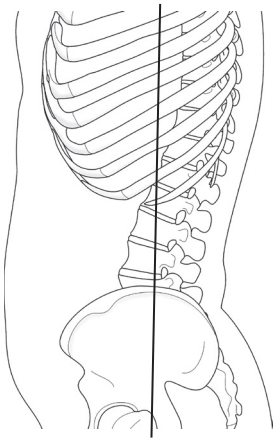

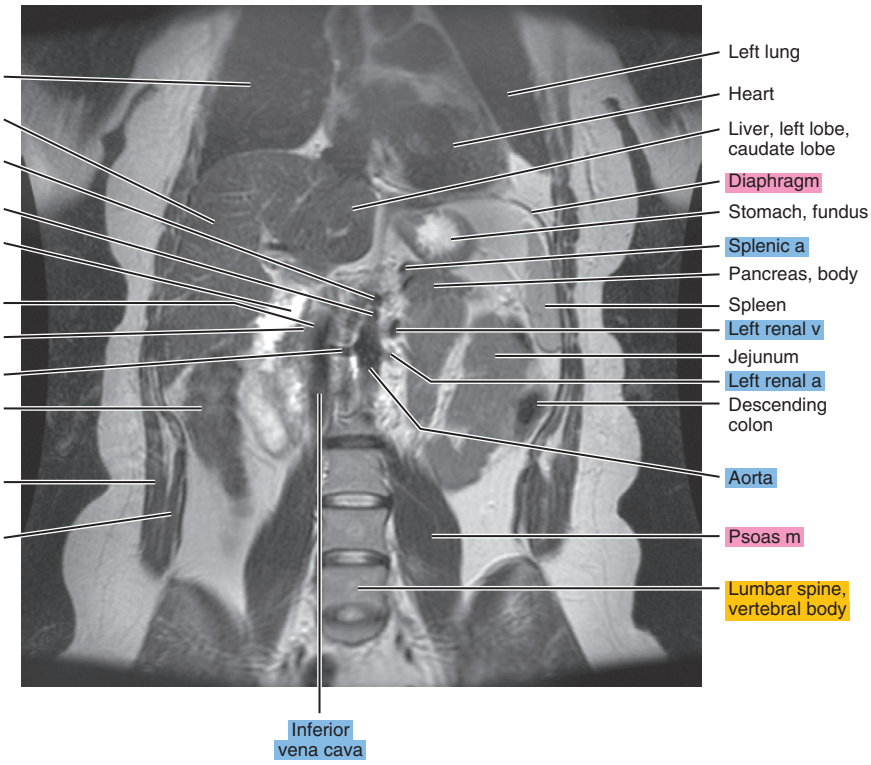

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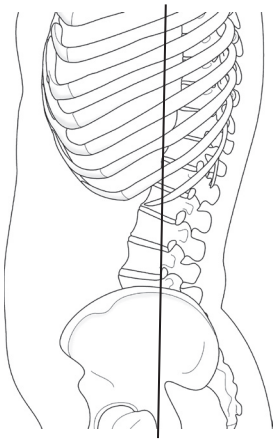

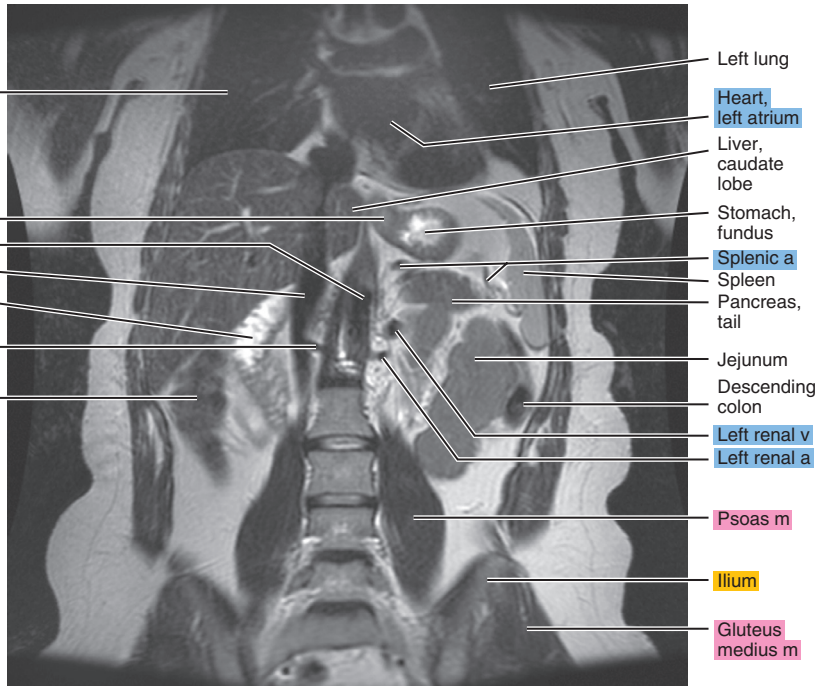

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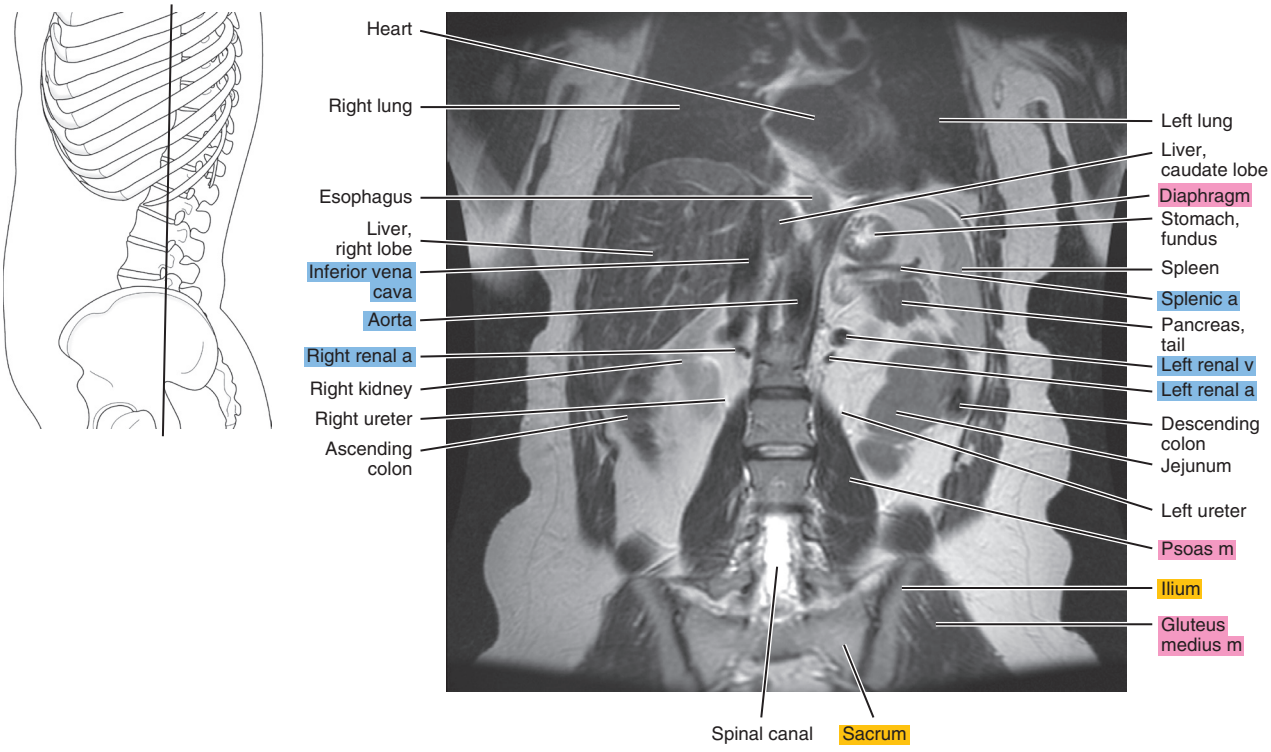

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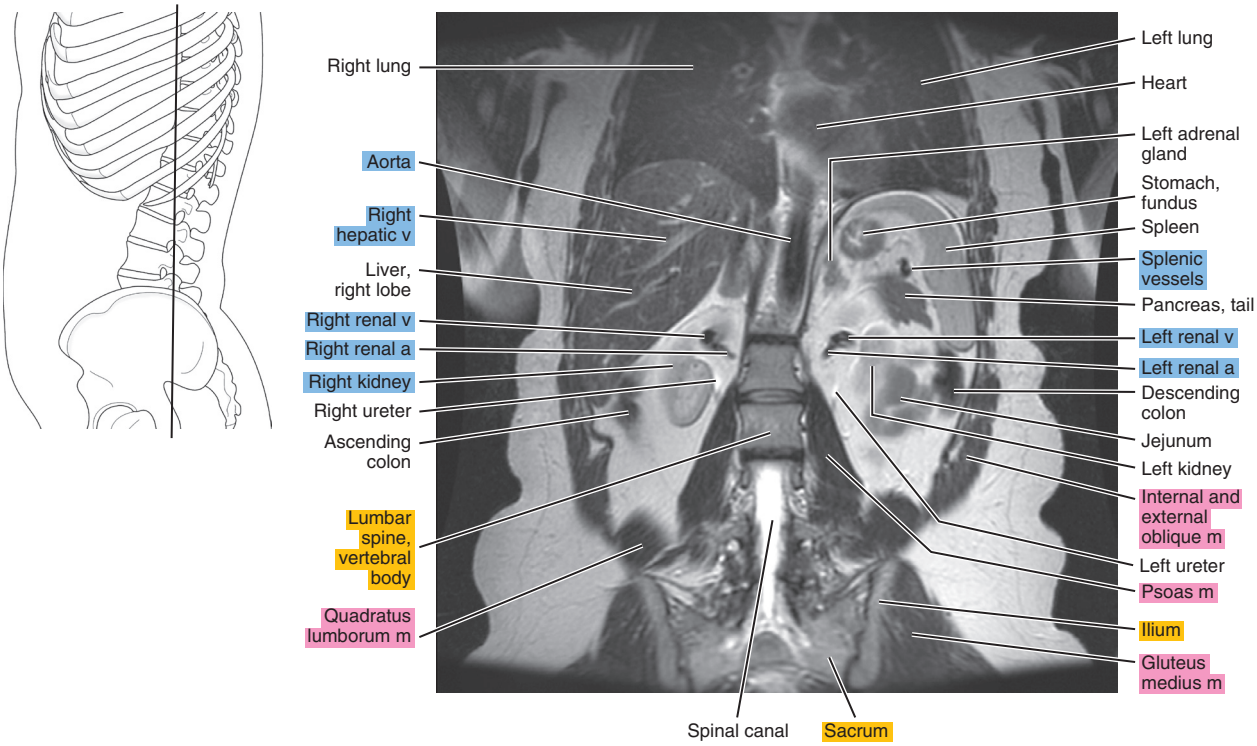

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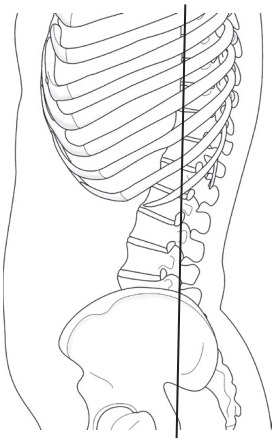

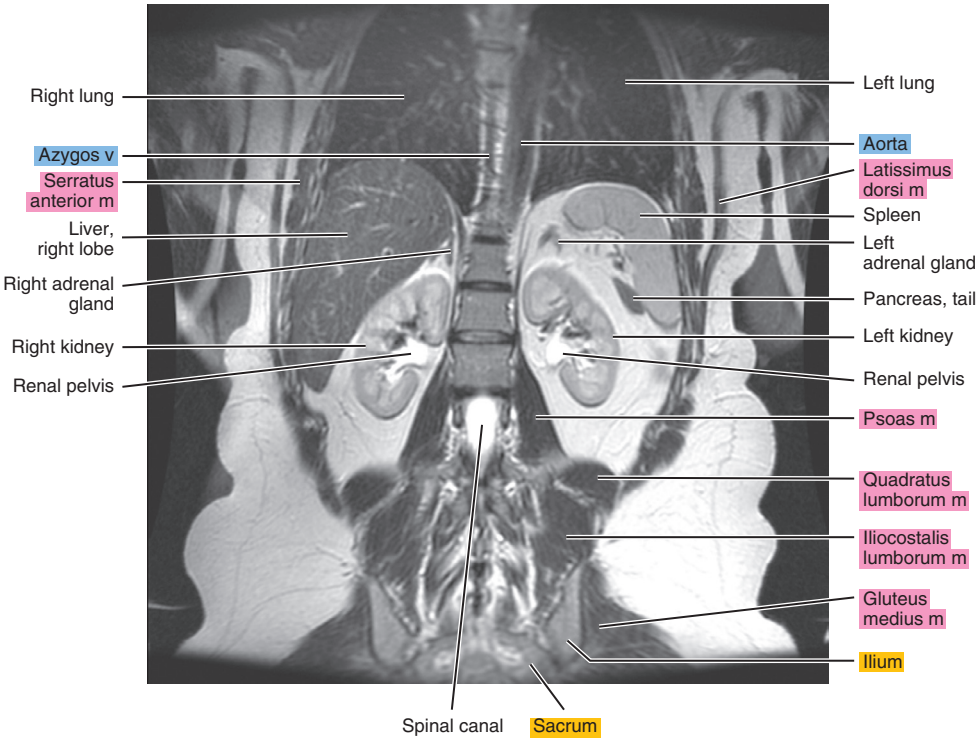

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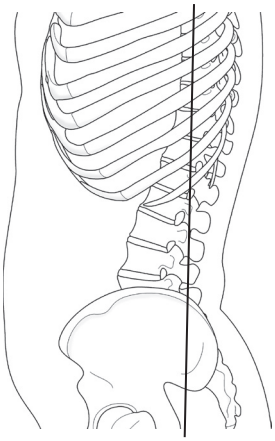

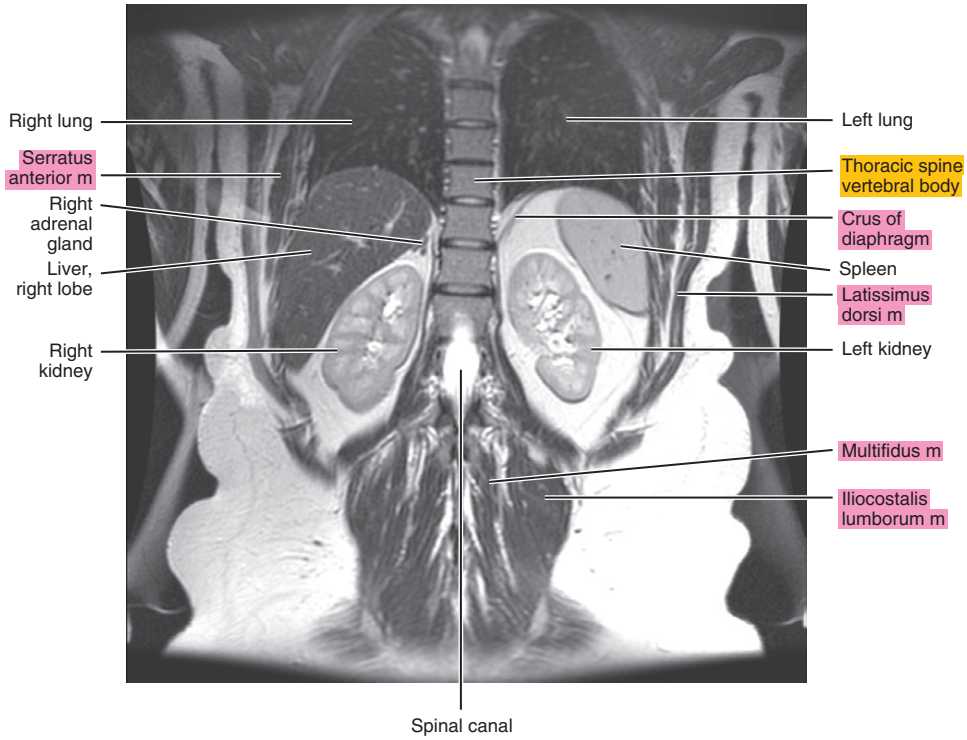

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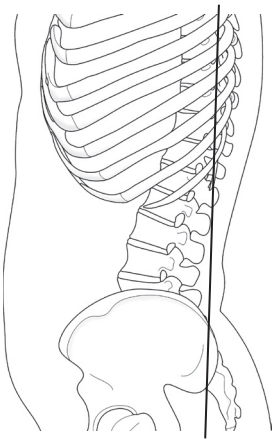

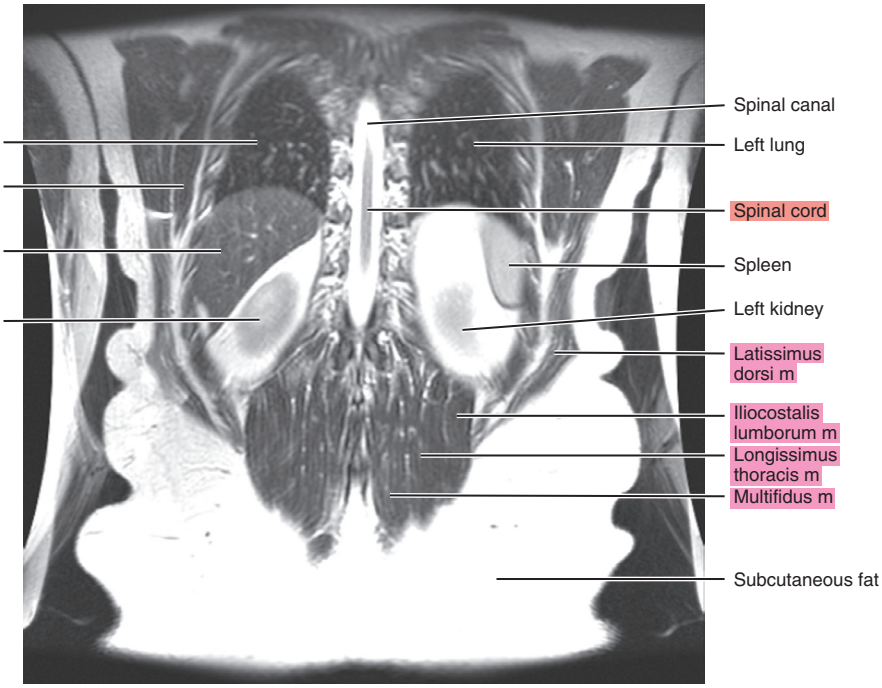

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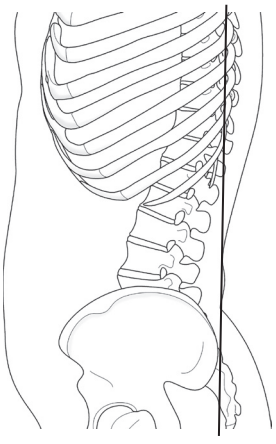

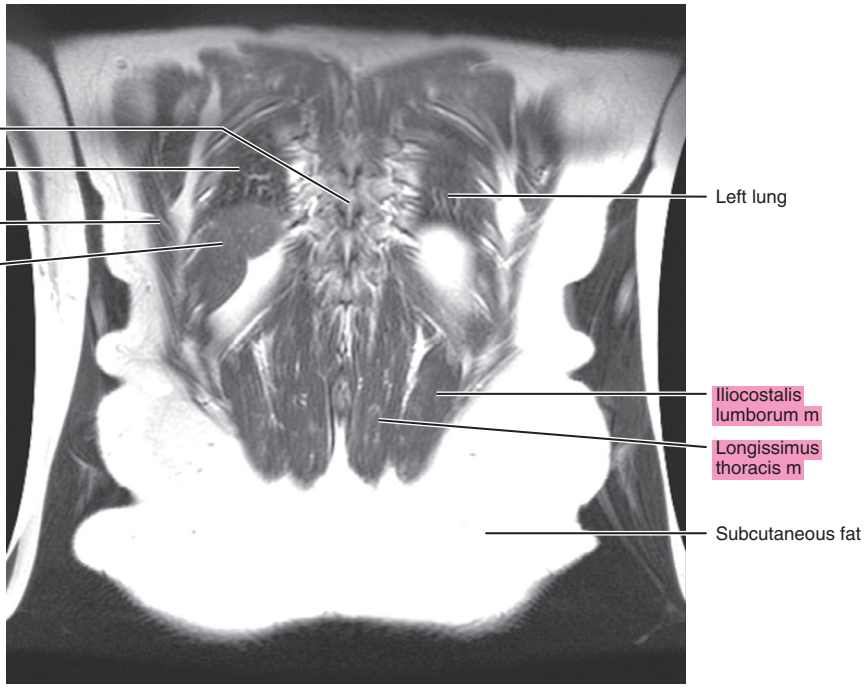

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Section

VI

Pelvis

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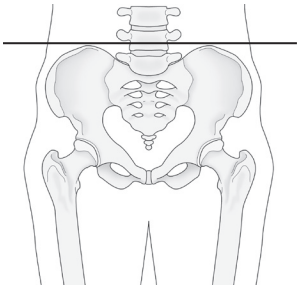
Chapter

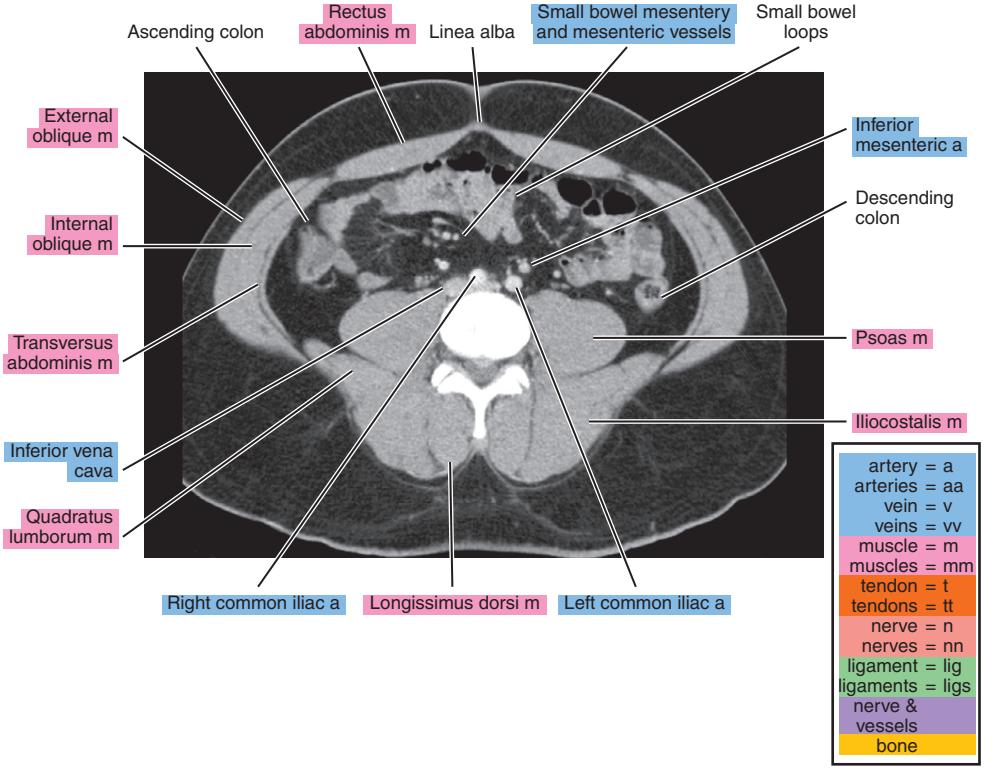
22

CT of the Male Pelvis

AXIAL

Figure 22.1.1





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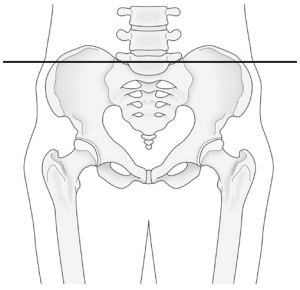

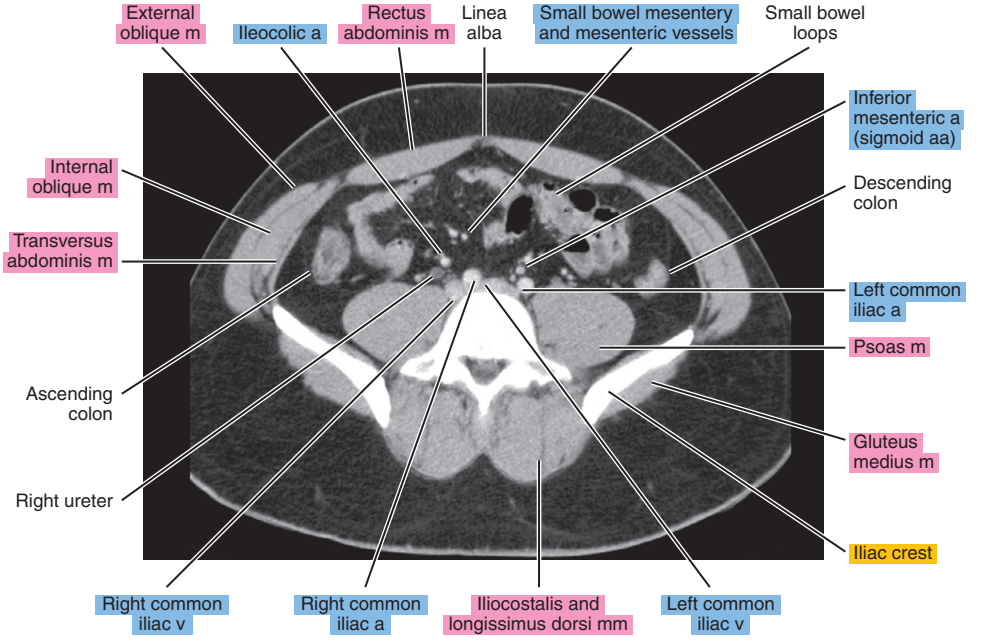

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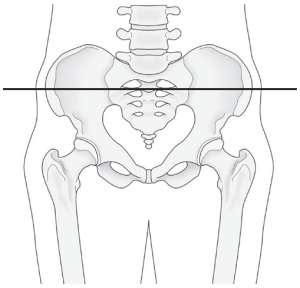

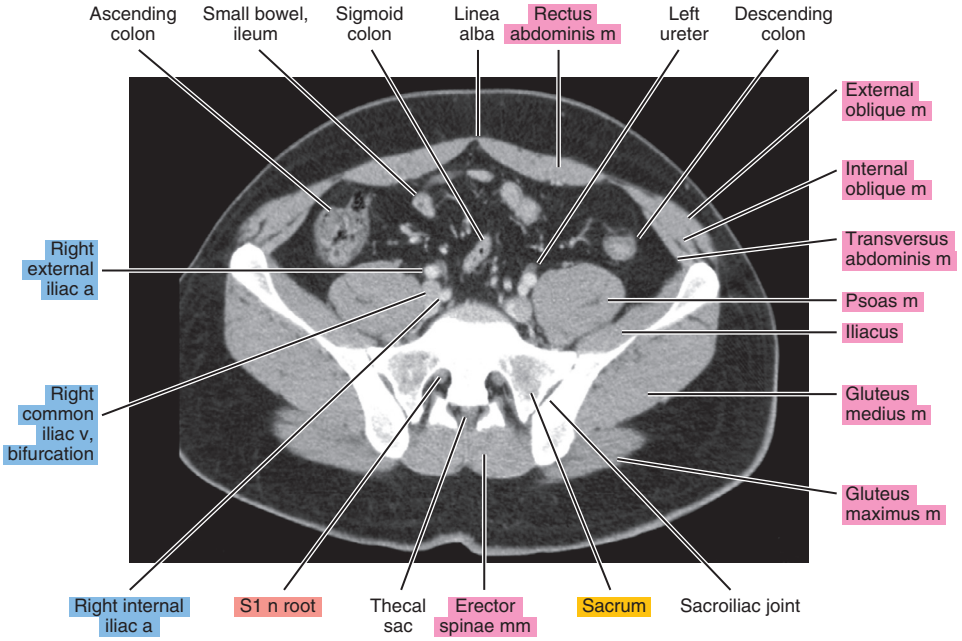

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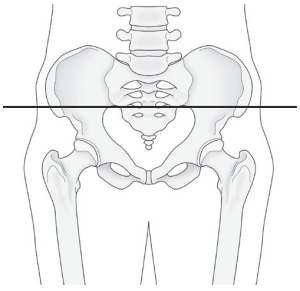

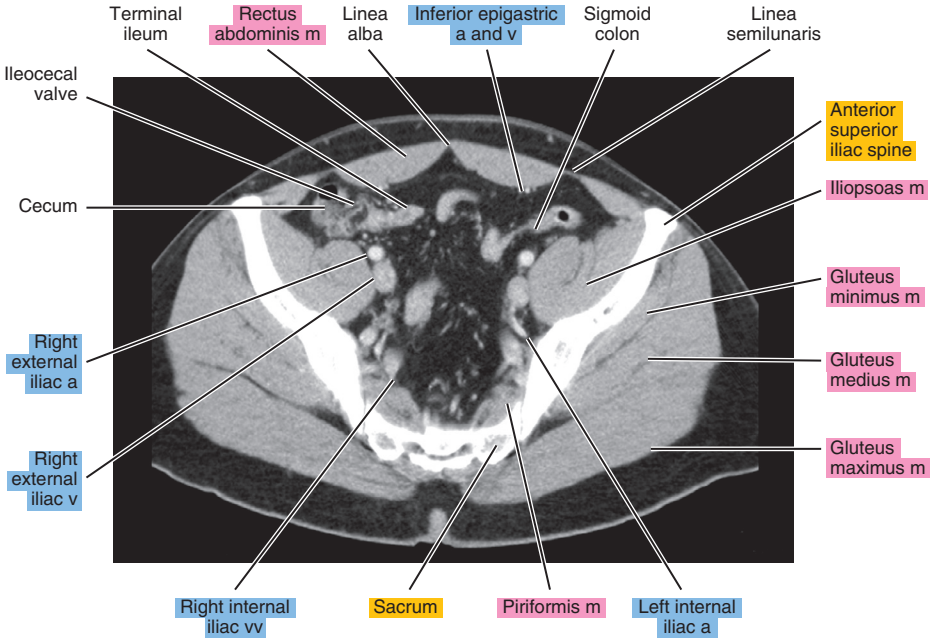

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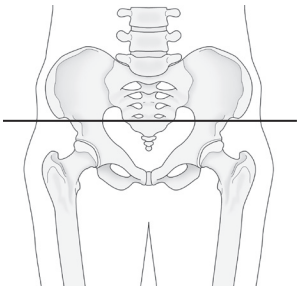

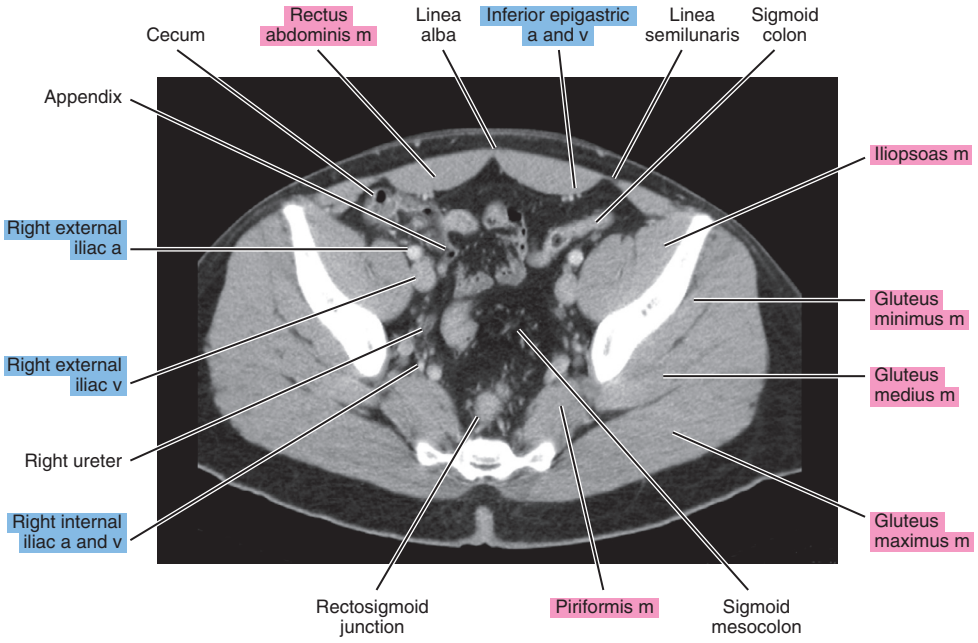

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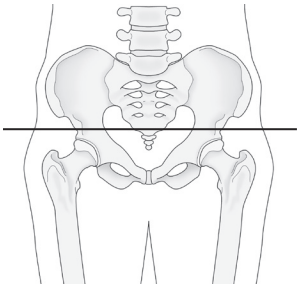


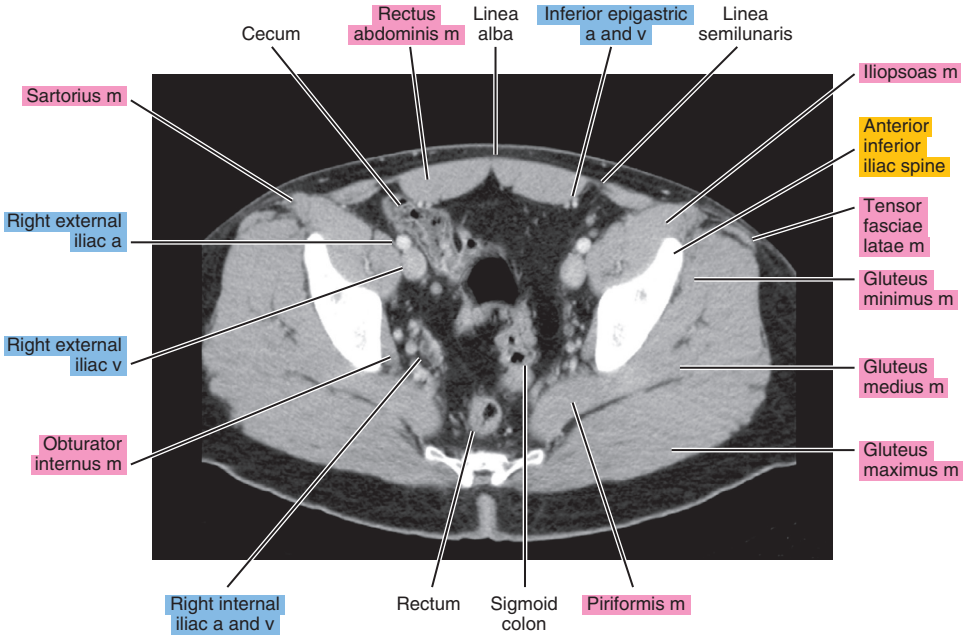
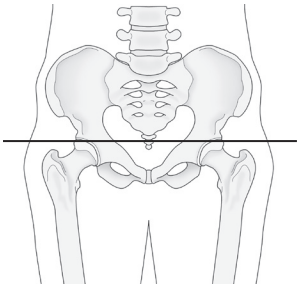
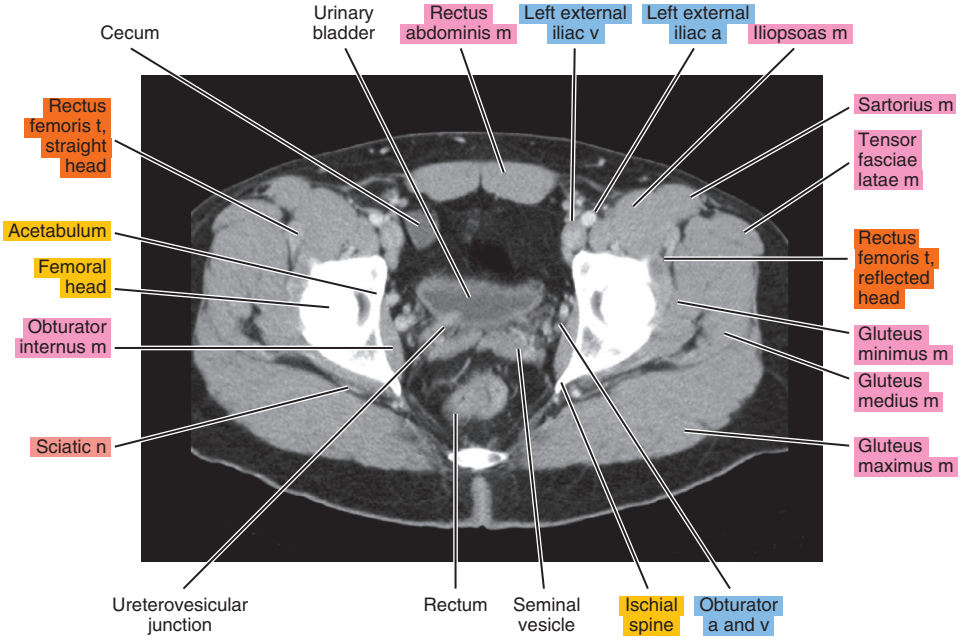


Figure 22.1.7





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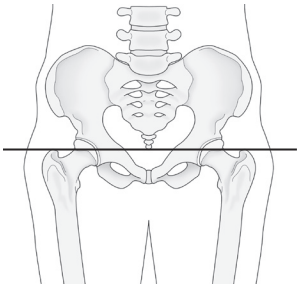

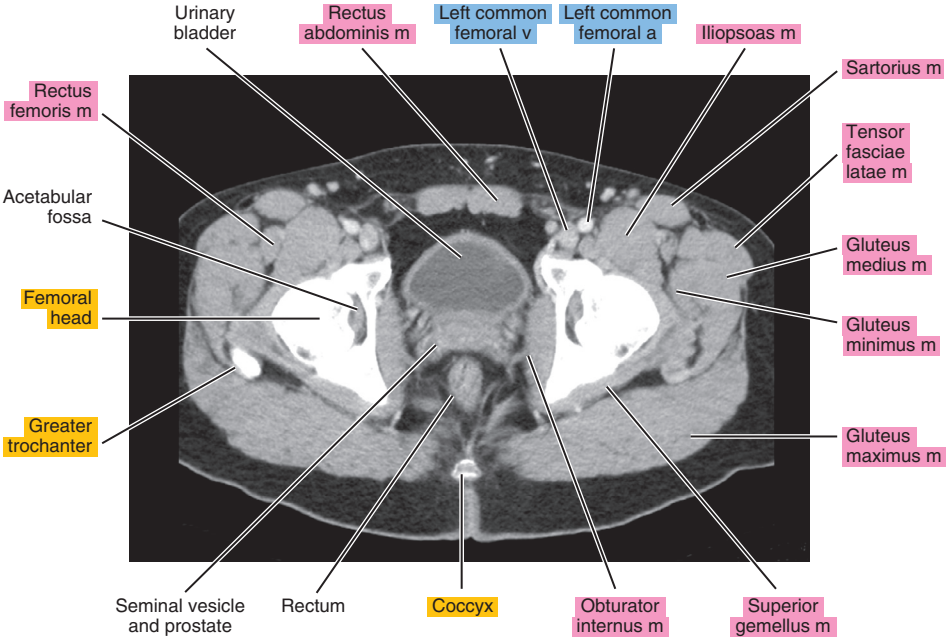

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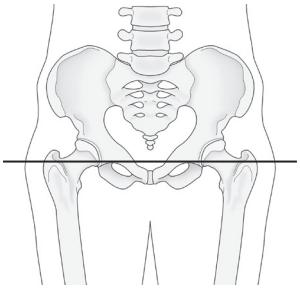

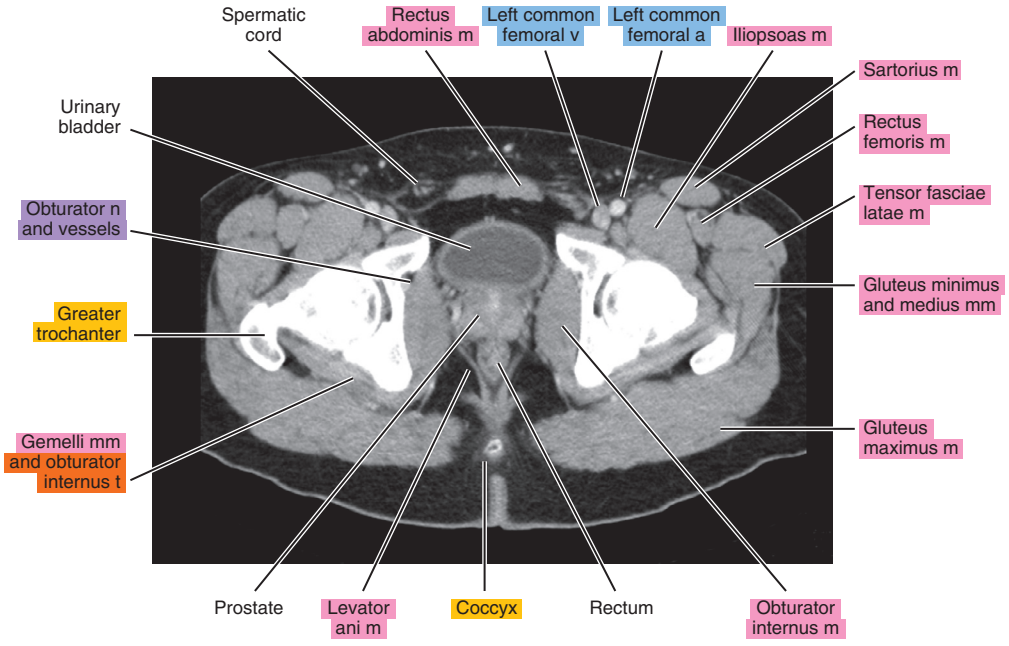

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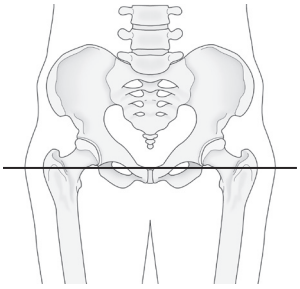

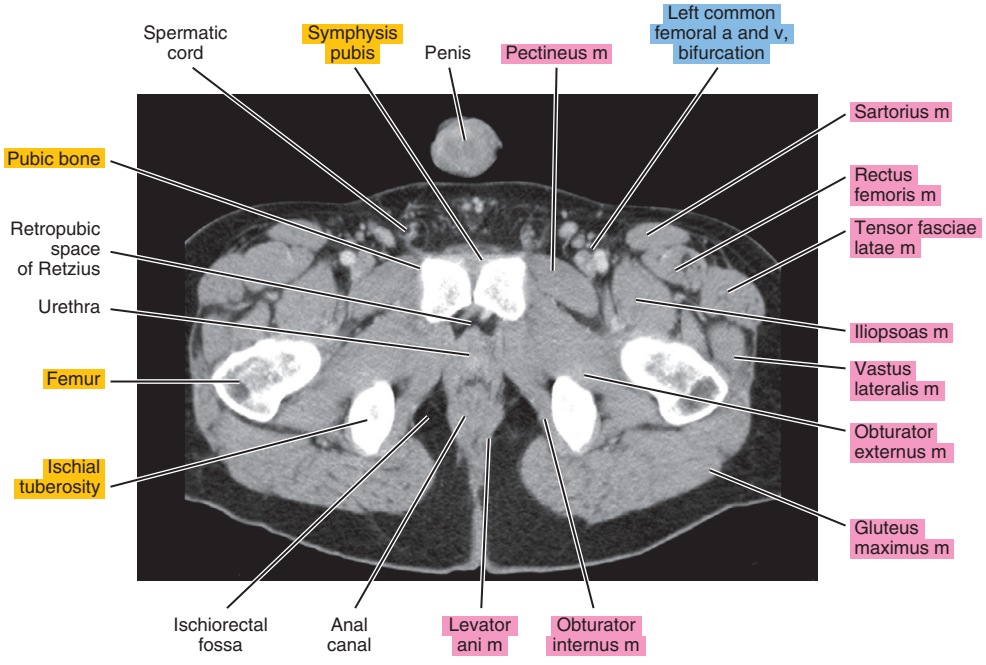

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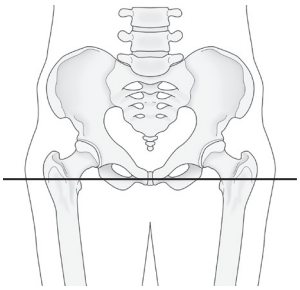

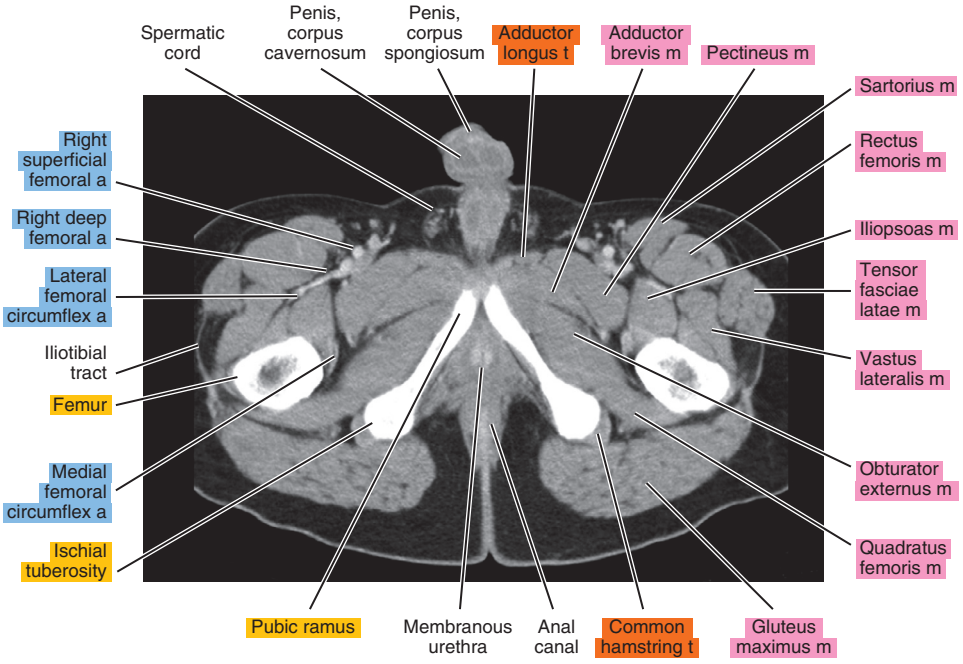

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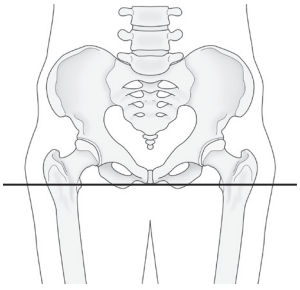

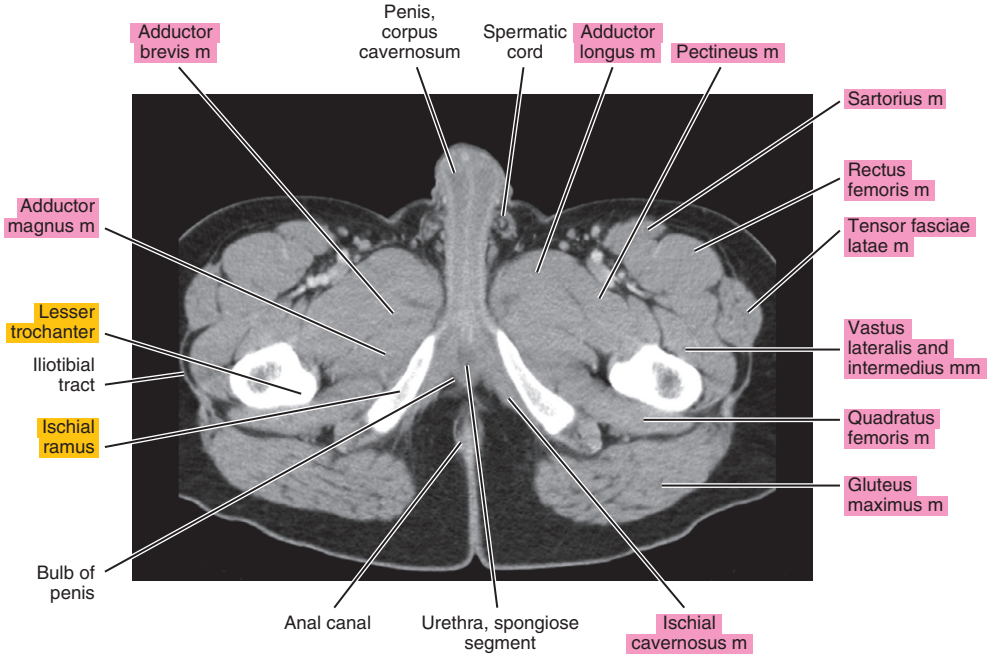

SAGITTAL

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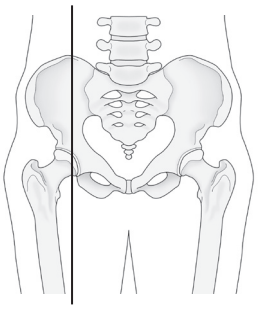

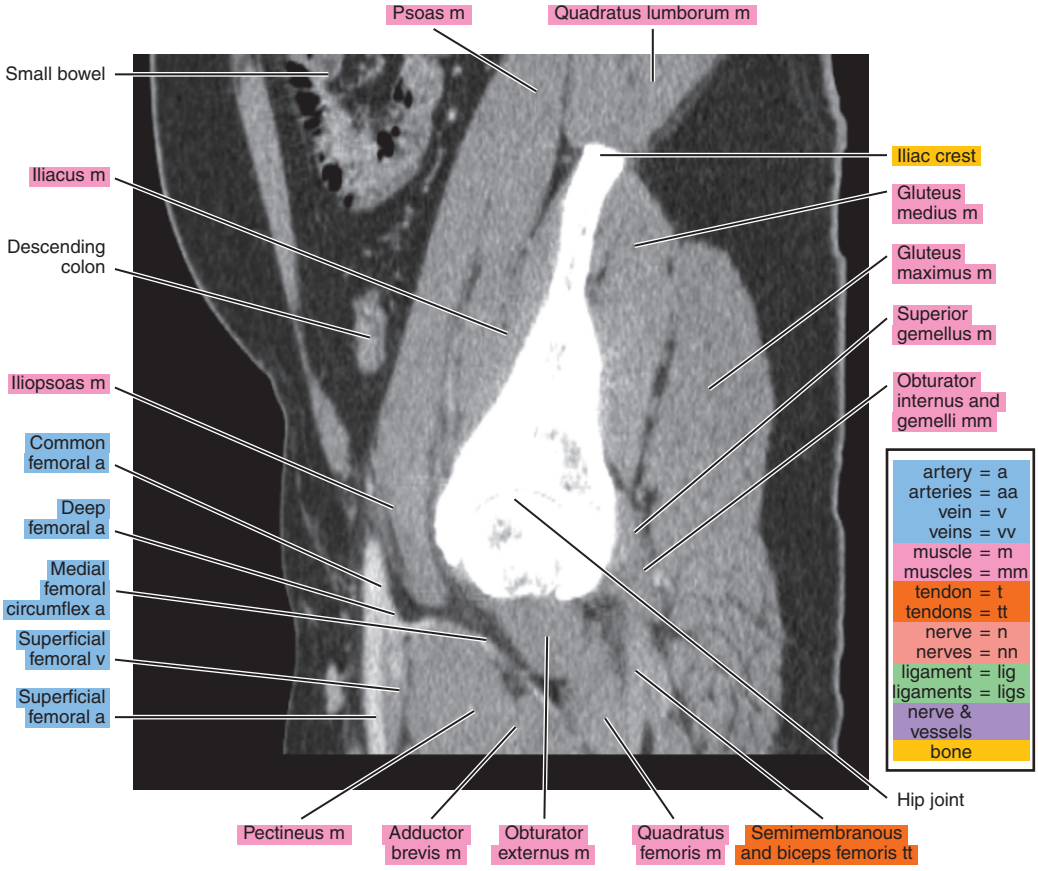

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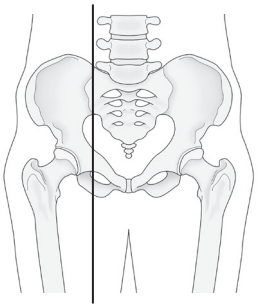

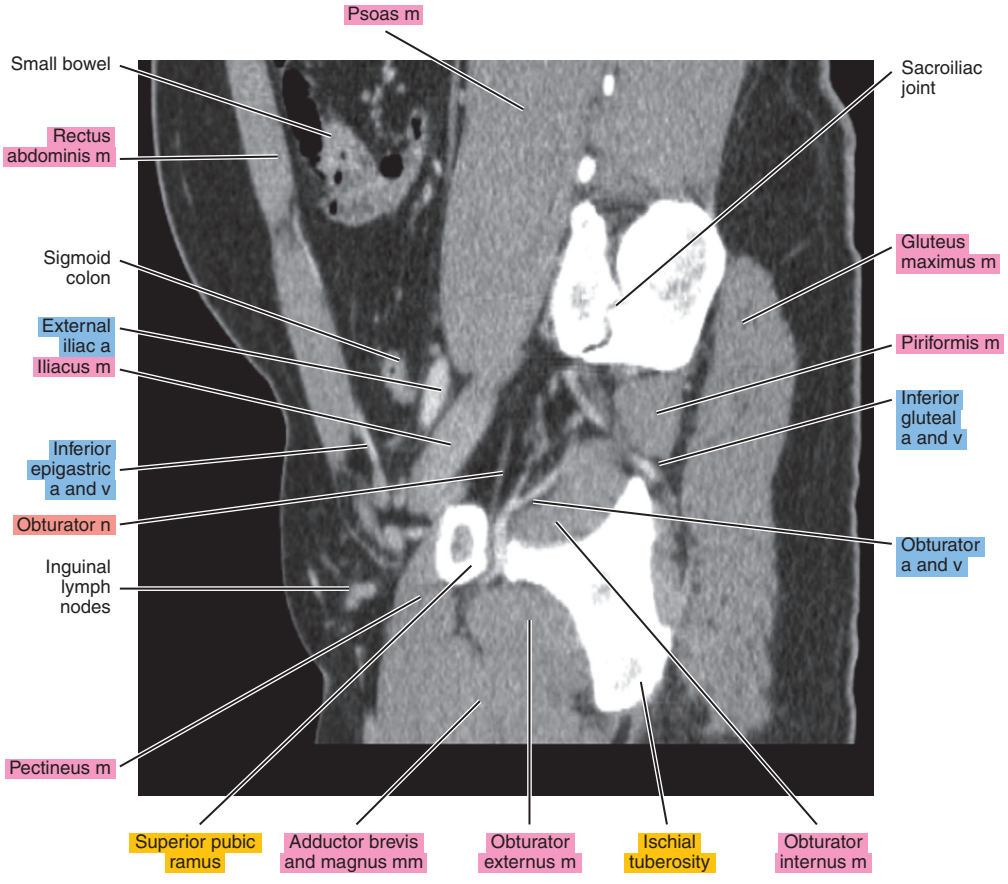

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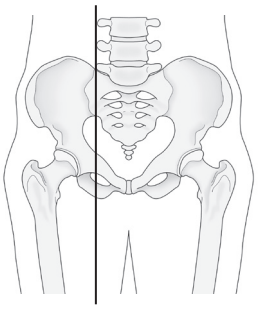

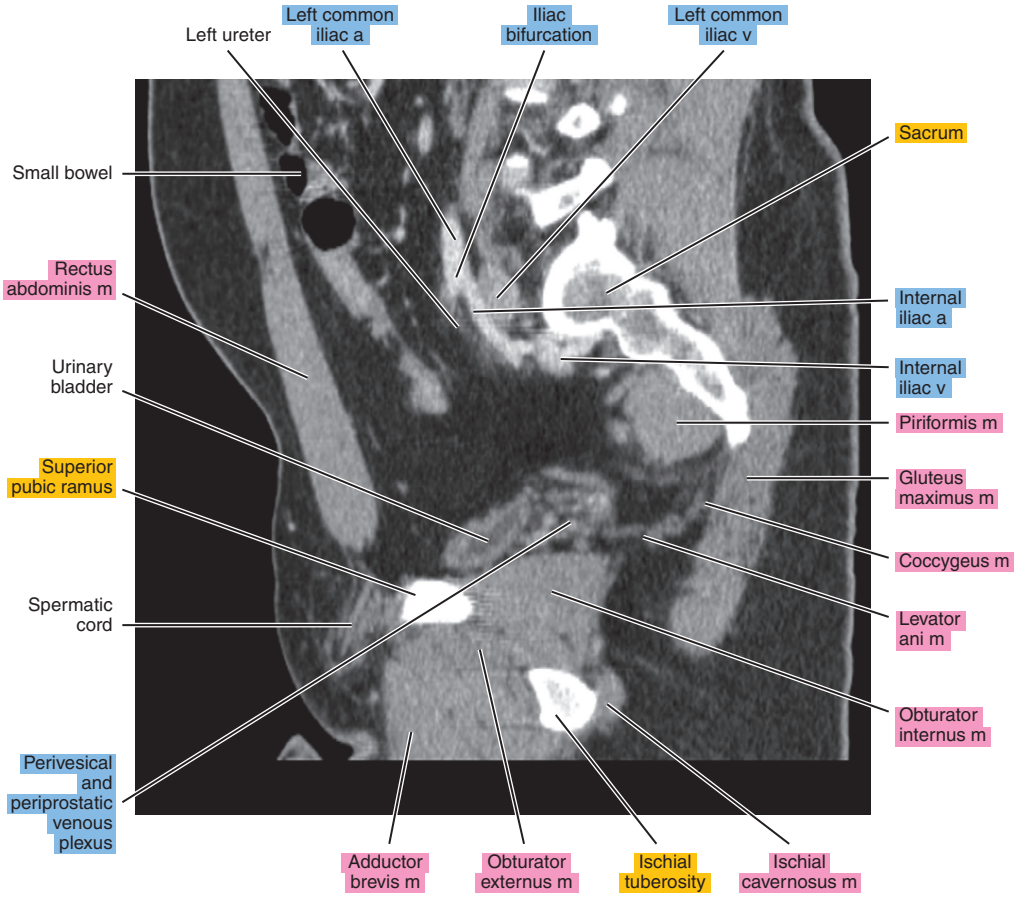

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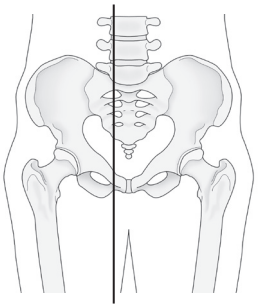

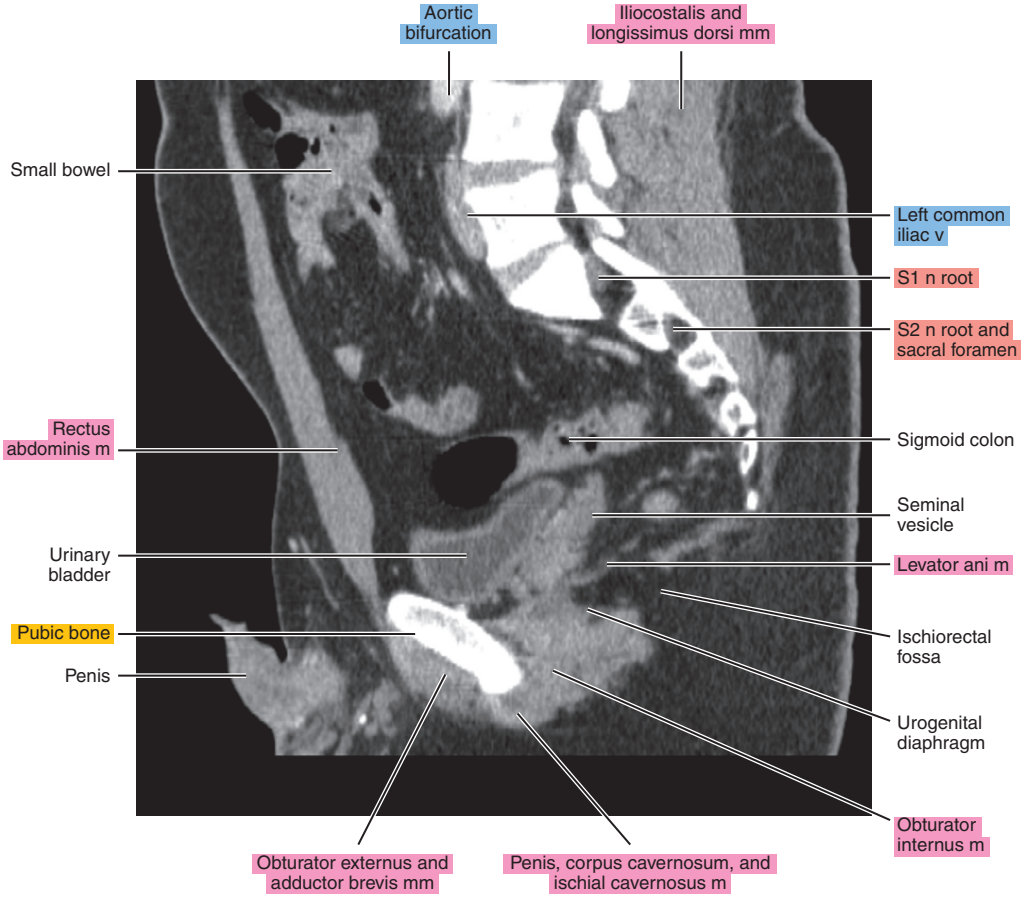

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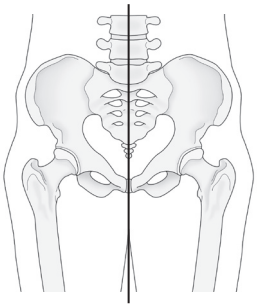
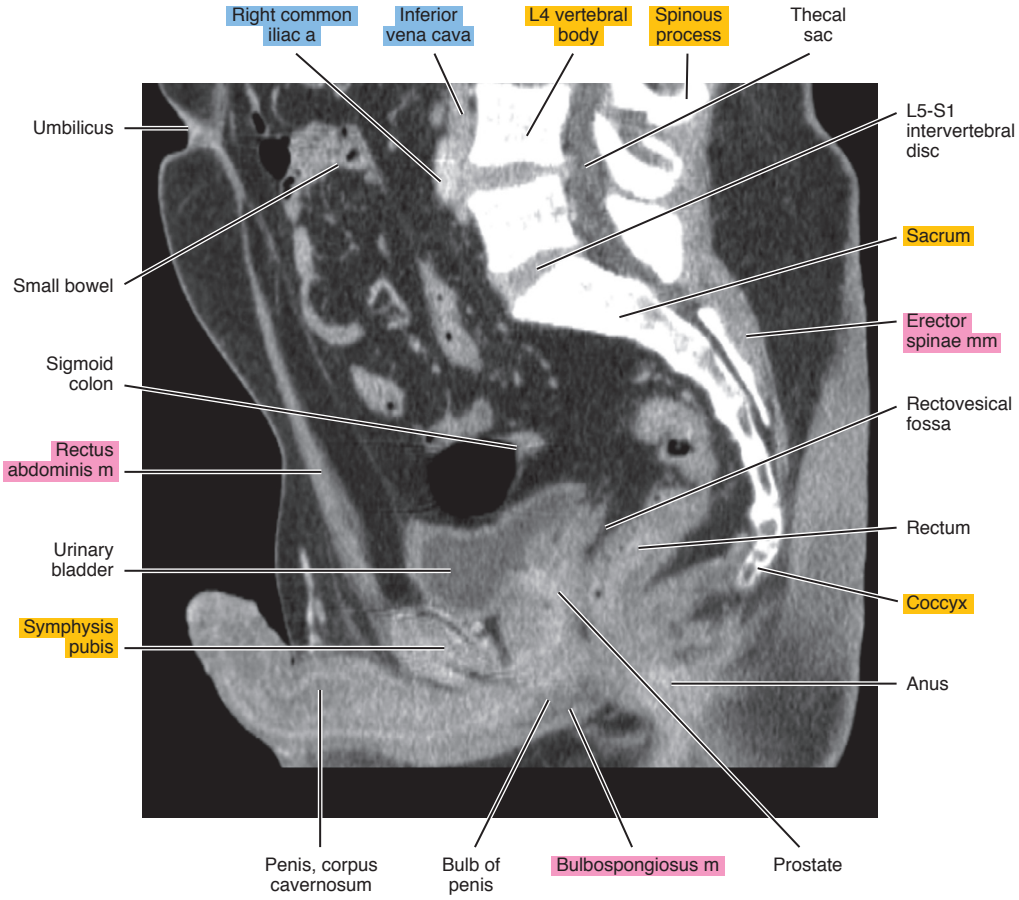
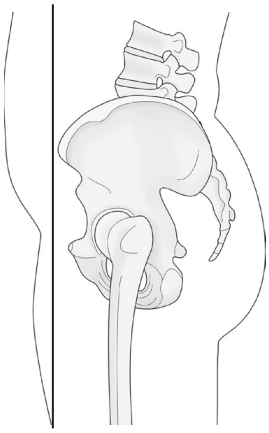
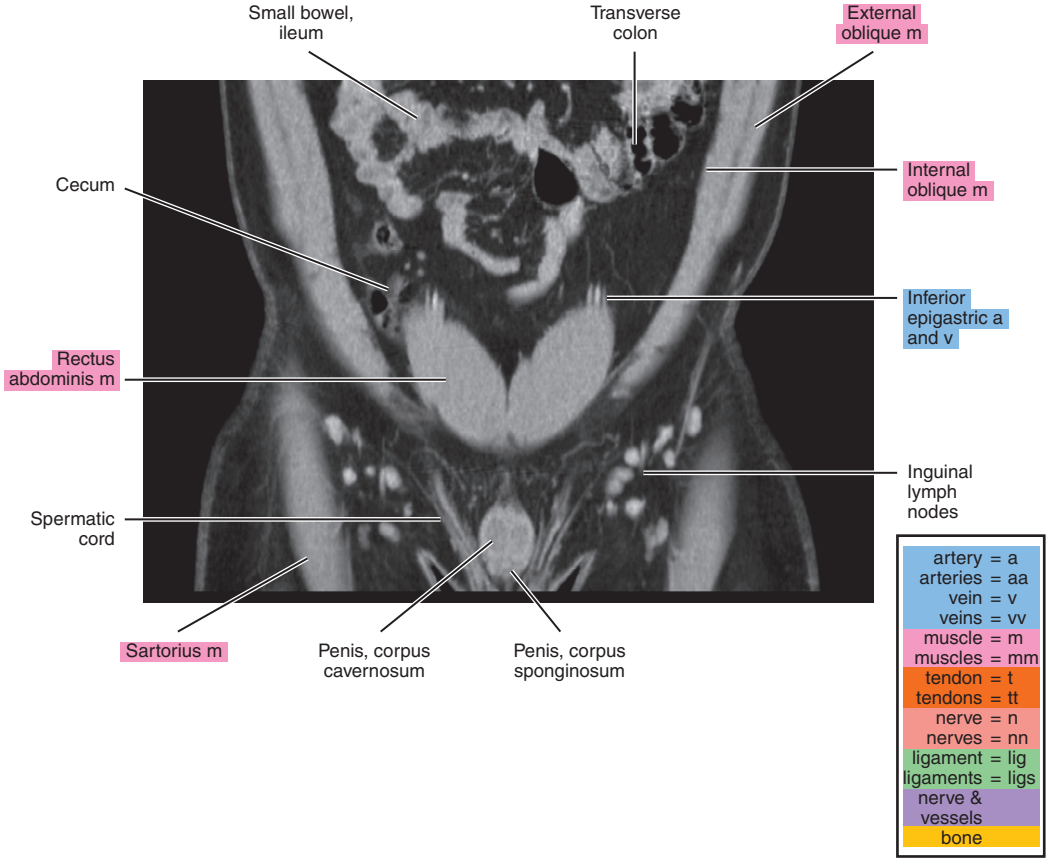



Right common iliac a
Inferior vena cava
L4 vertebral body
Spinous process
Thecal sac
Umbilicus
L5-S1 intervertebral disc
Sacrum
Small bowel
Erector spinae mm
Sigmoid colon
Rectovesical fossa
Rectus abdominis m
Rectum
Urinary bladder
Coccyx
Symphysis pubis
Anus
Penis, corpus cavernosum
Bulb of penis
Bulbospongiosus m
Prostate

CORONAL

Figure 22.3.1





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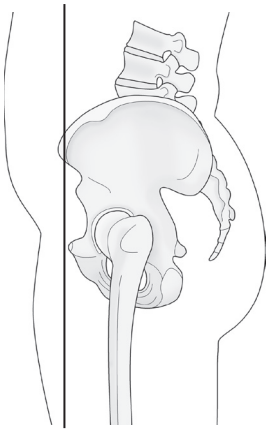

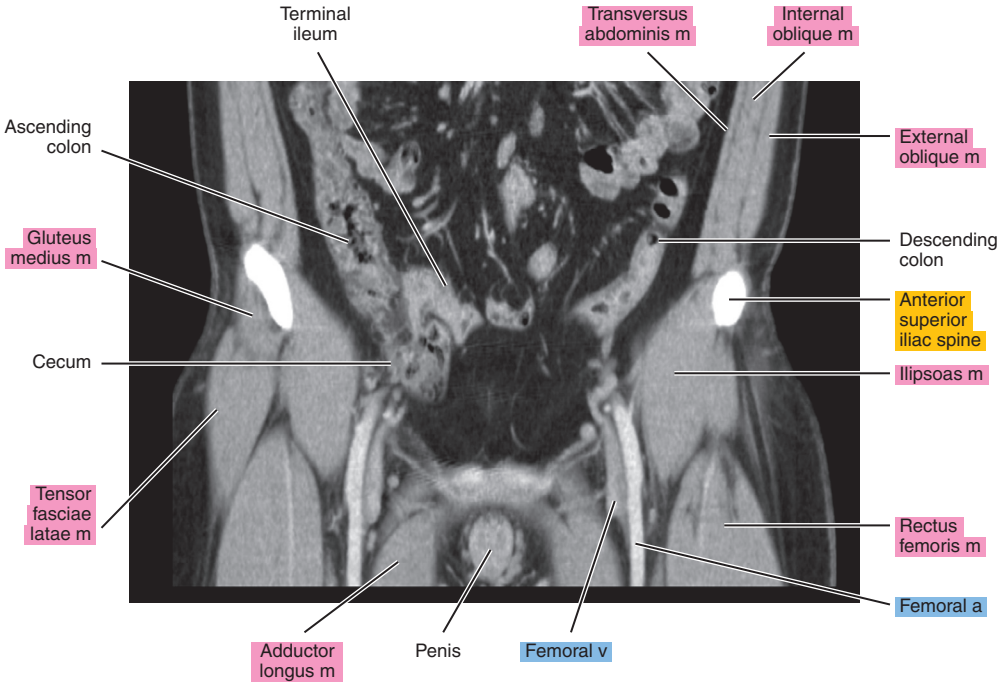

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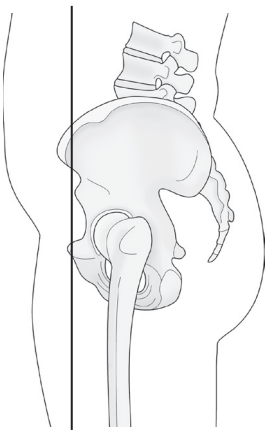

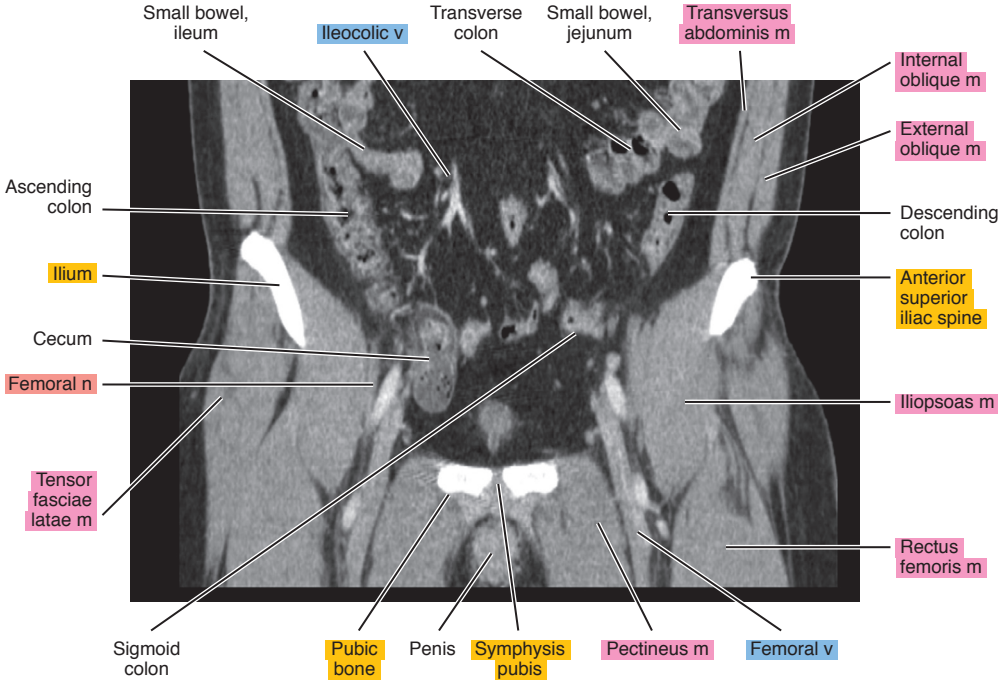

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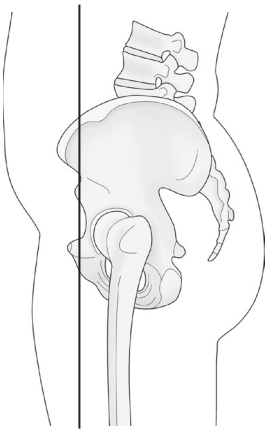

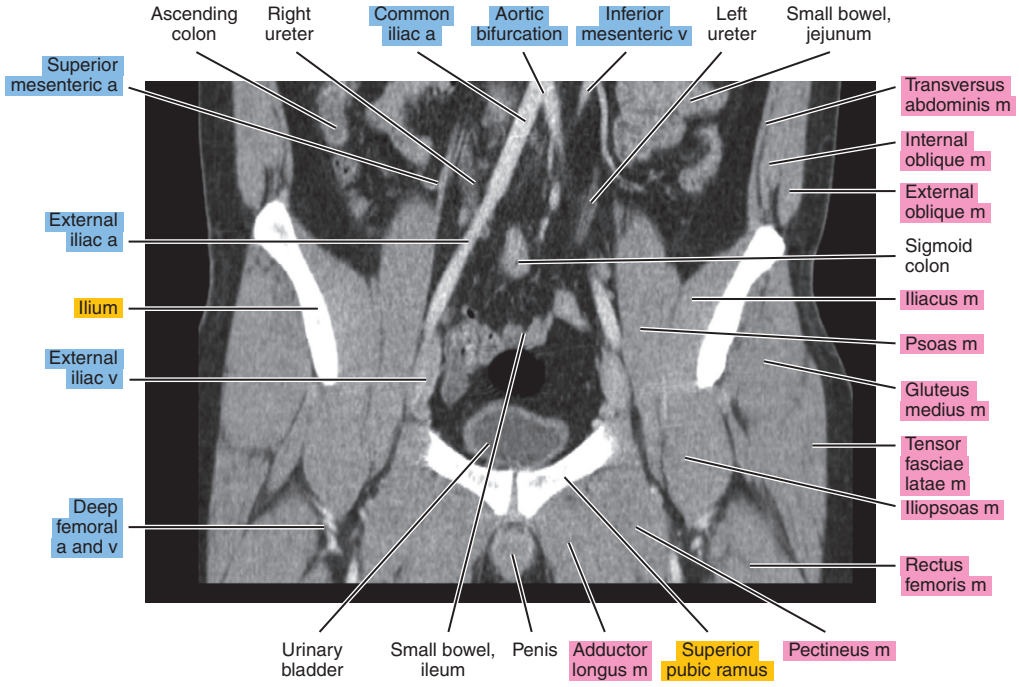

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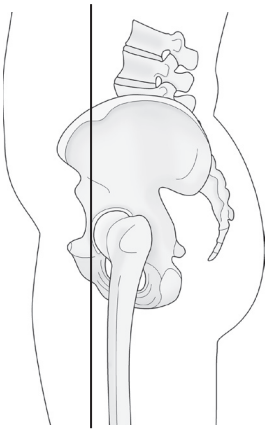

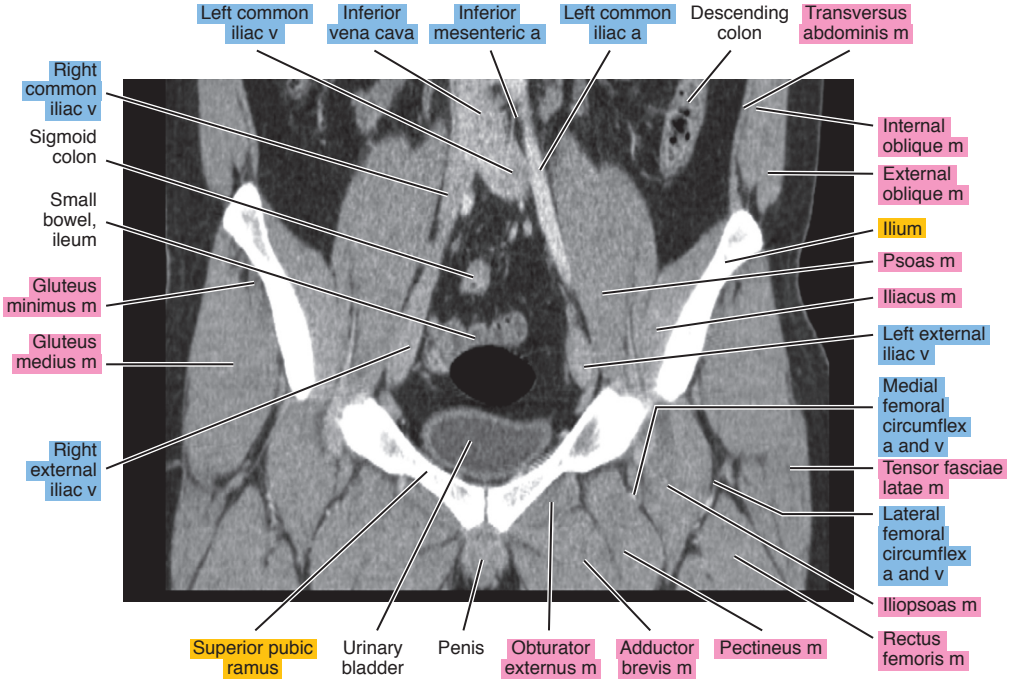

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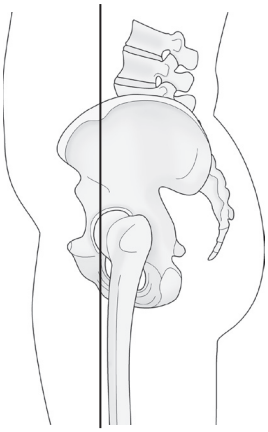

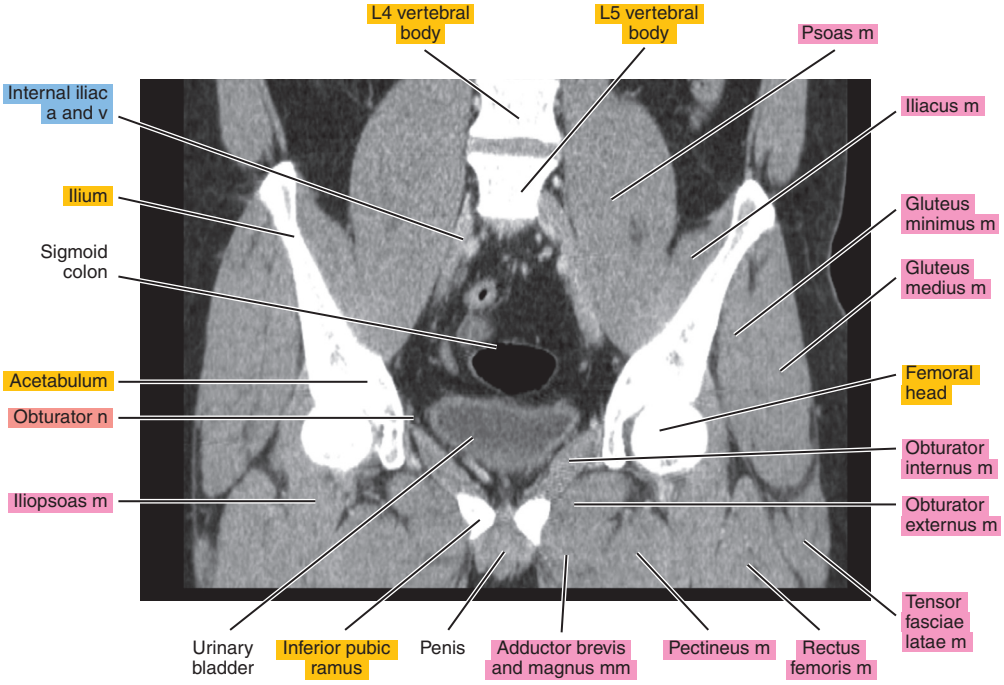

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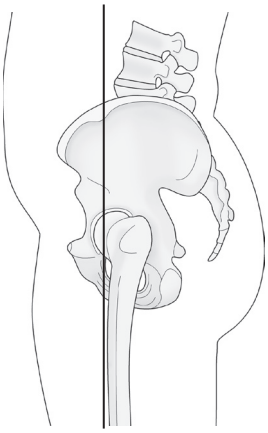

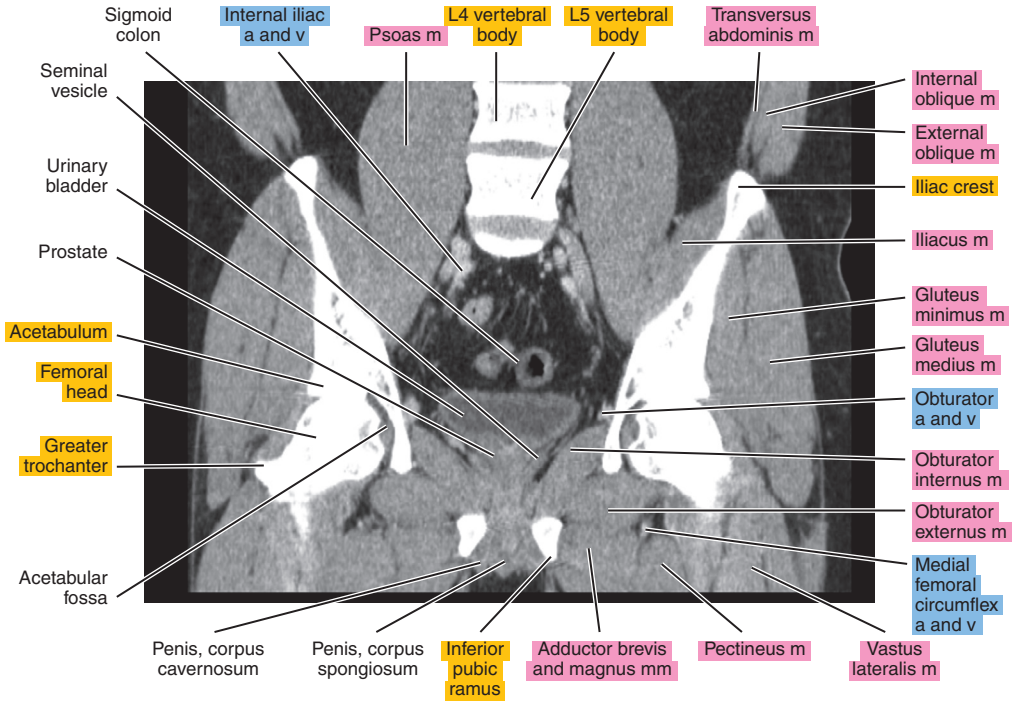

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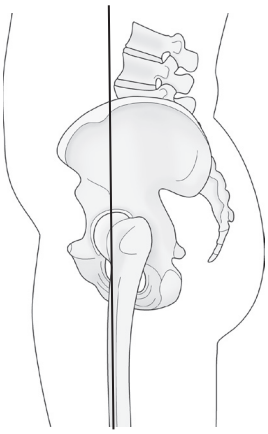


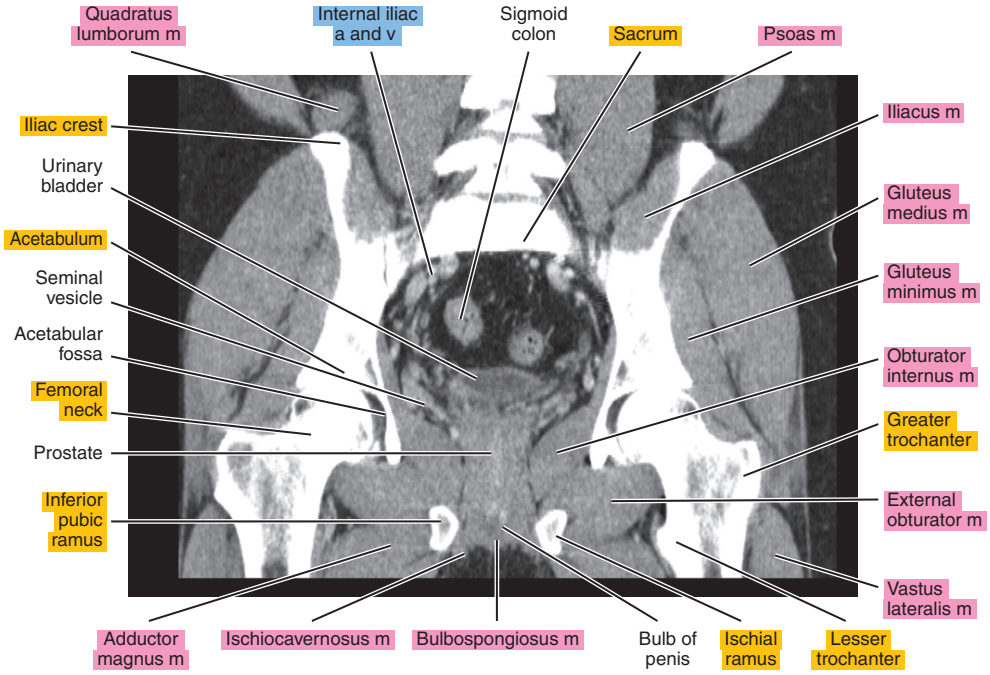
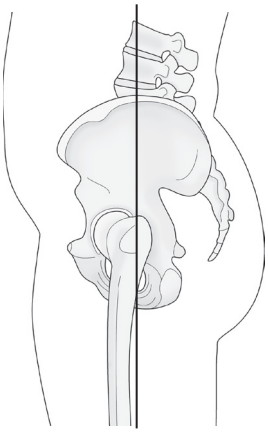
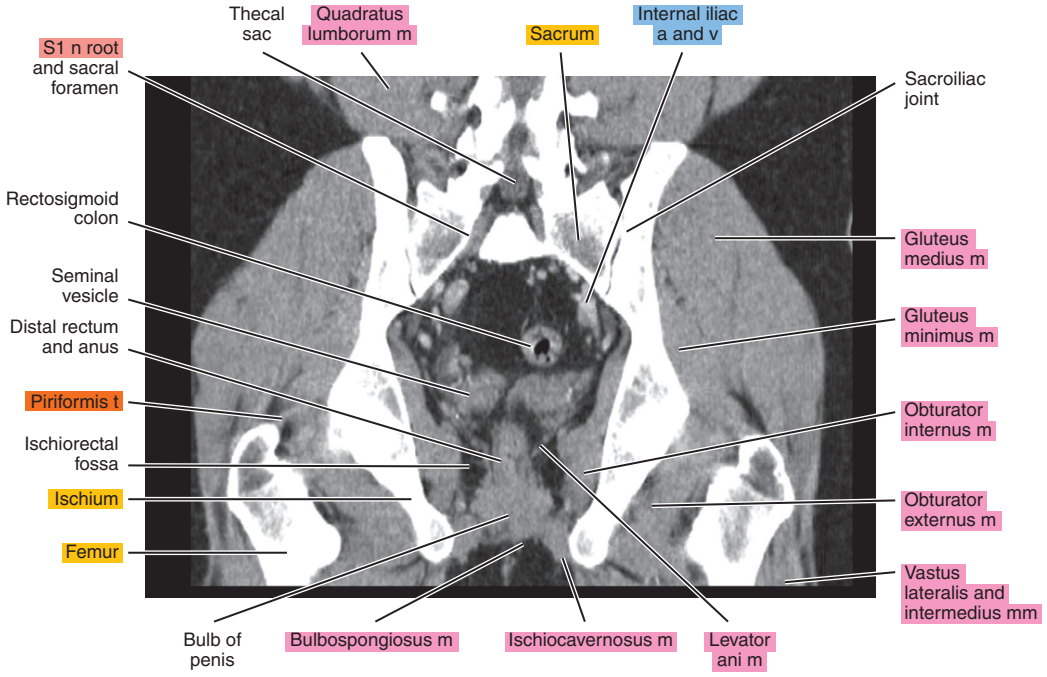


Figure 22.3.9





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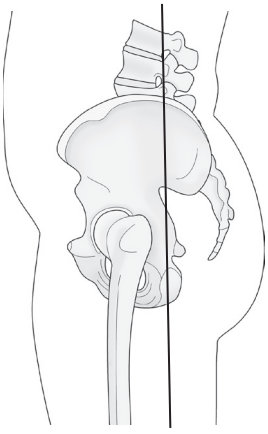


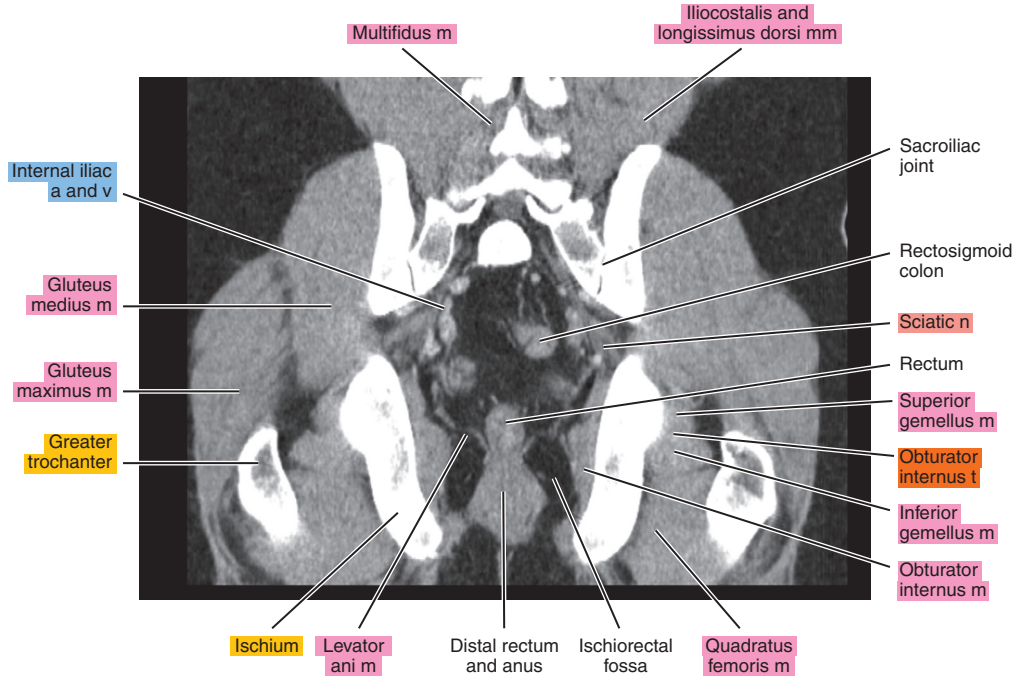
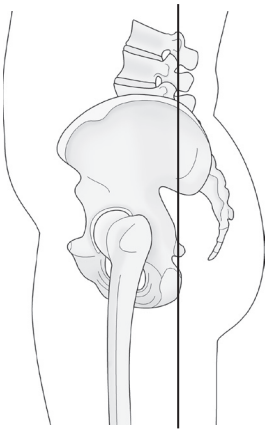
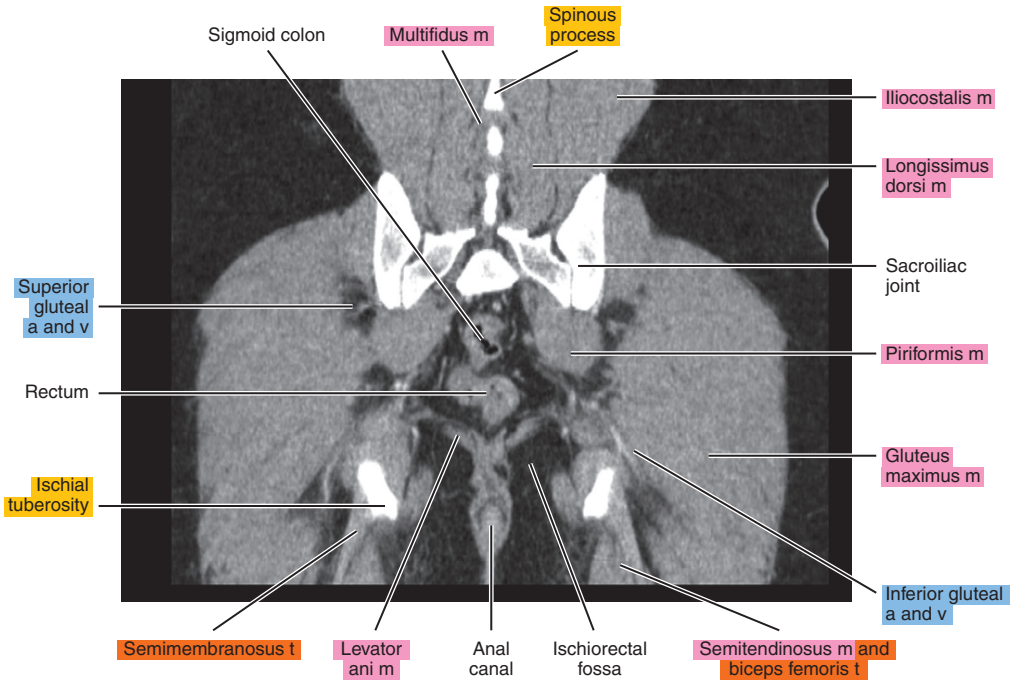


Figure 22.3.11





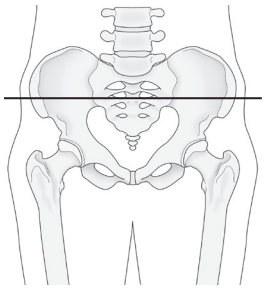
Chapter

23

CT of the Female Pelvis

AXIAL

Figure 23.1.1



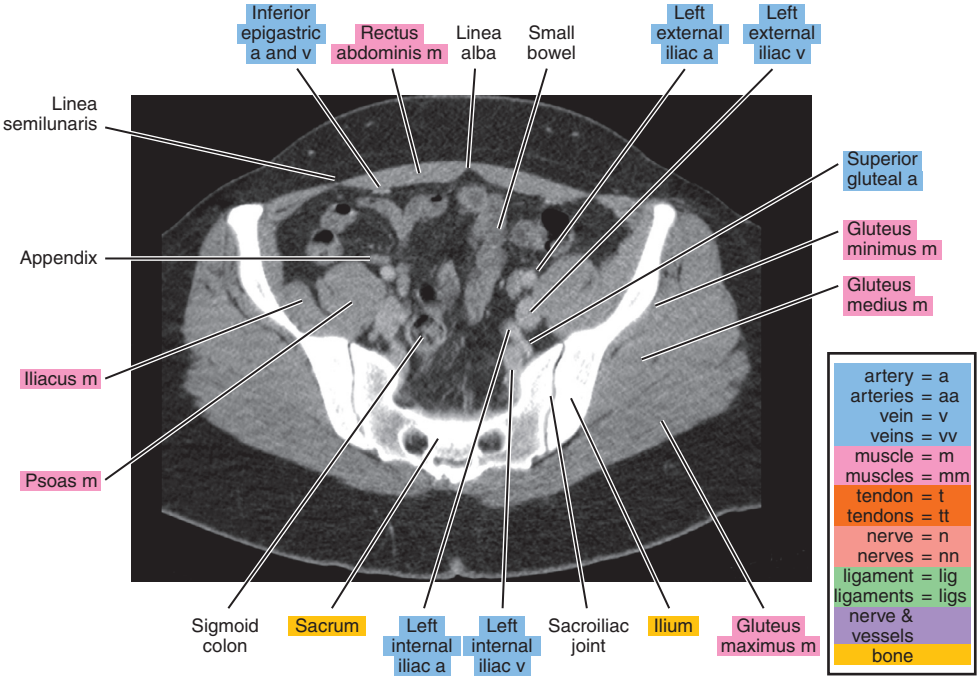
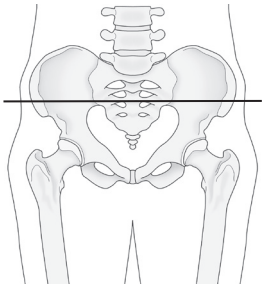
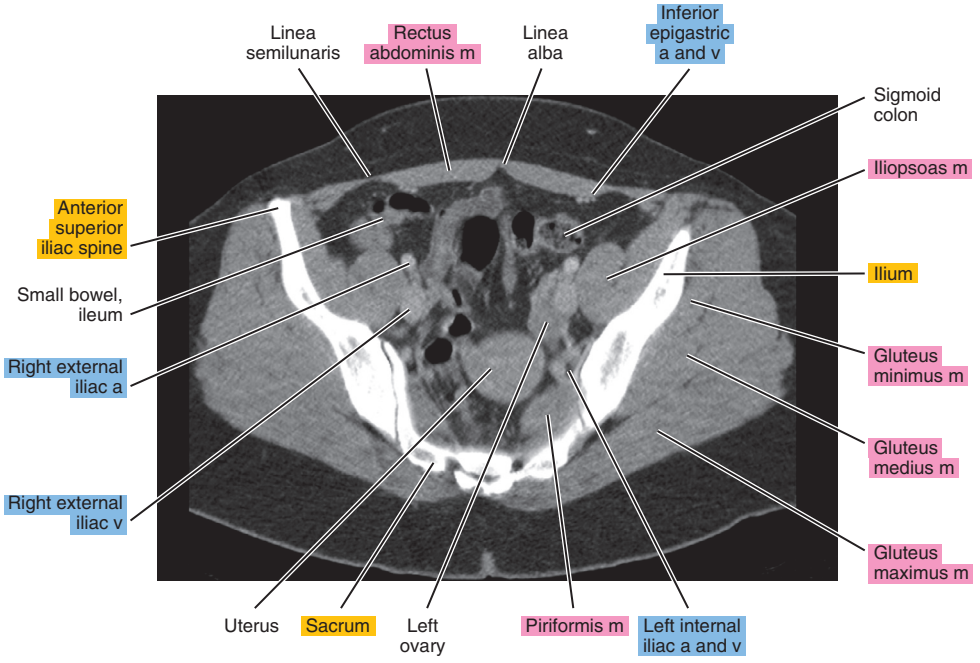


Figure 23.1.2





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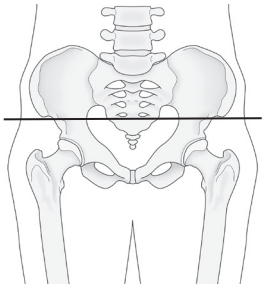

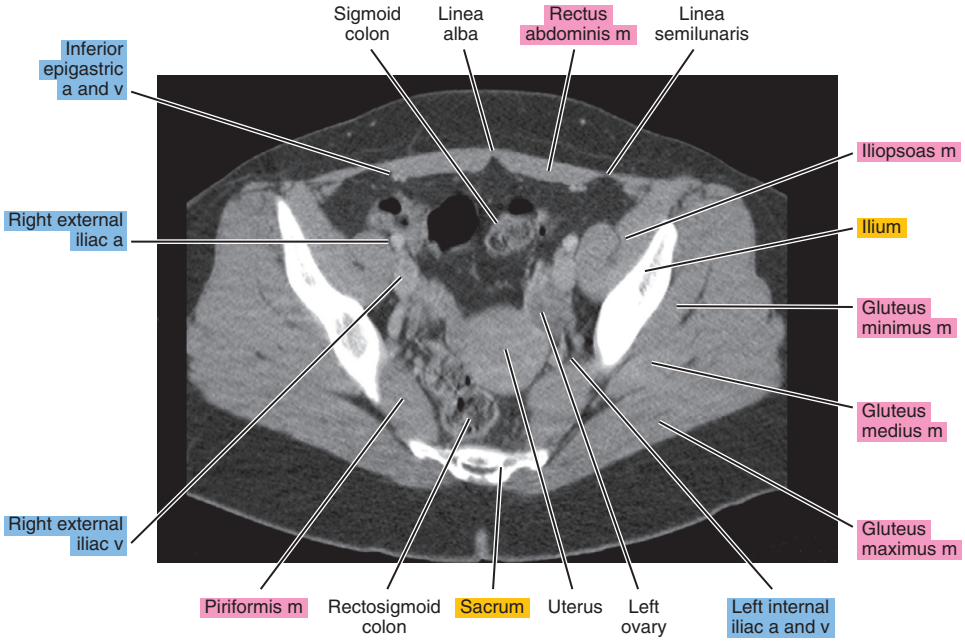

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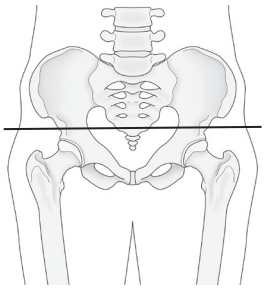

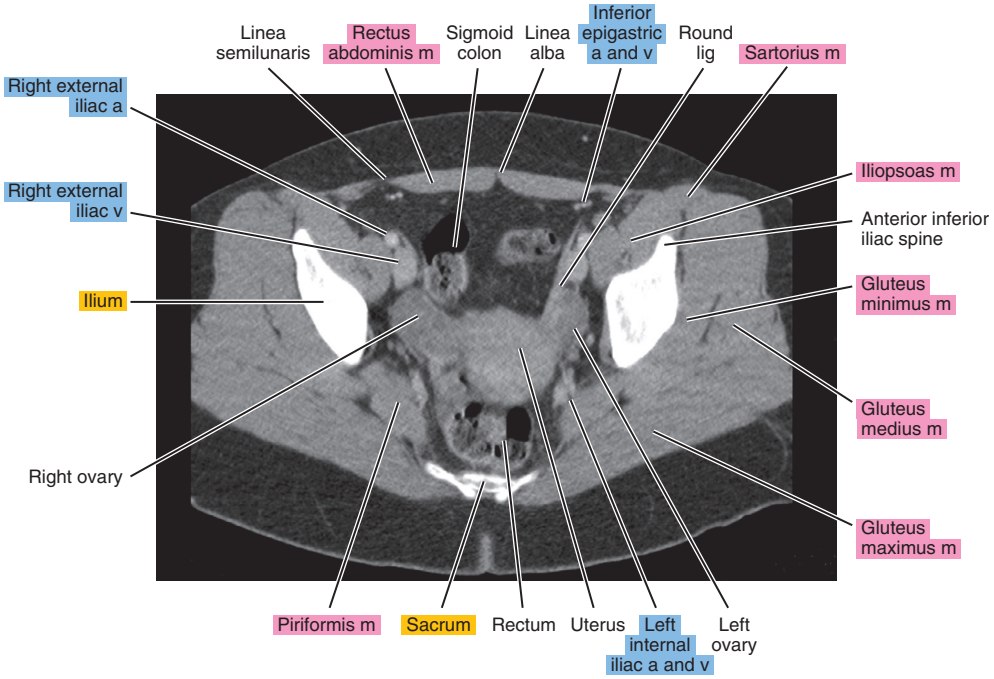

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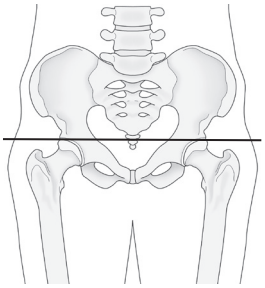


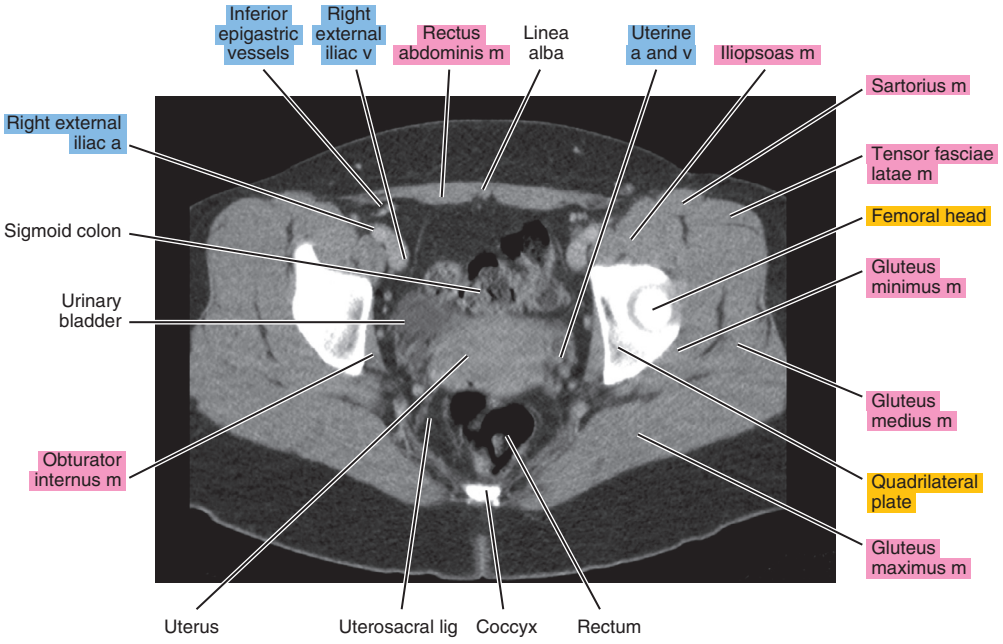
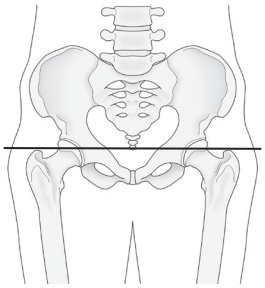
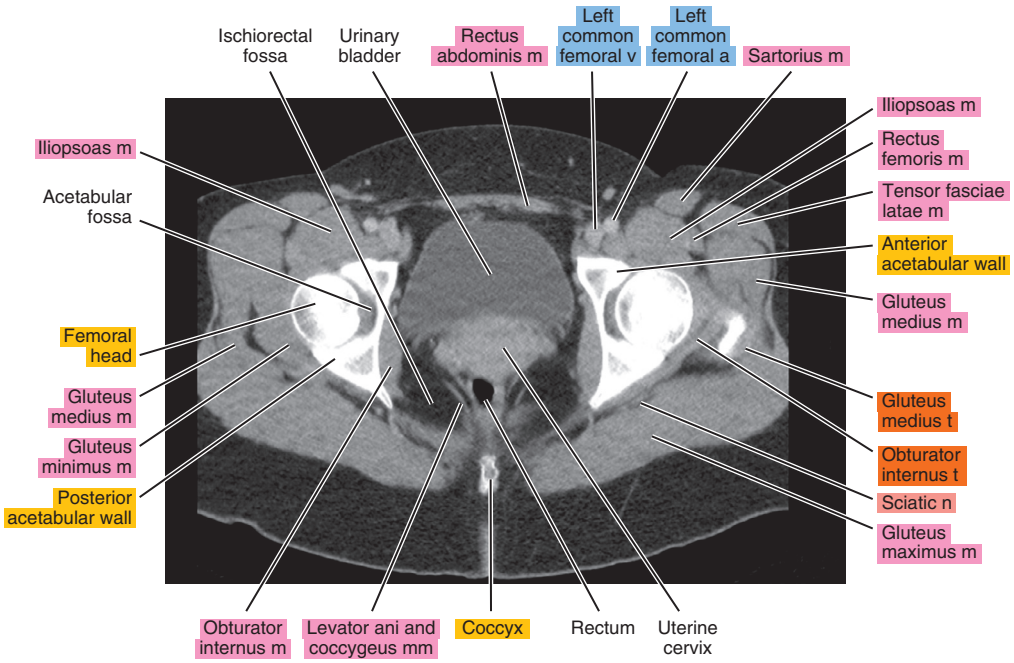


Figure 23.1.6





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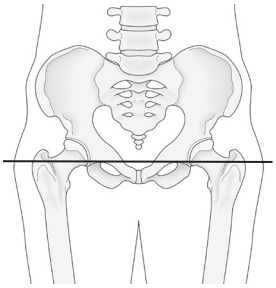

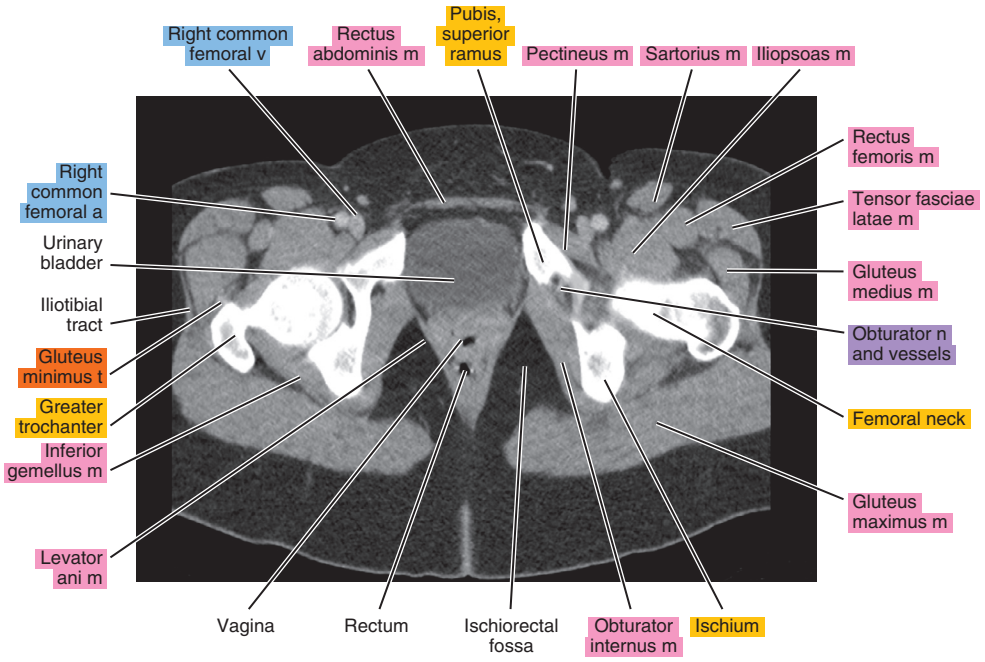

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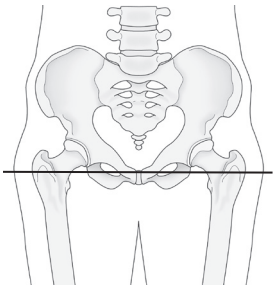

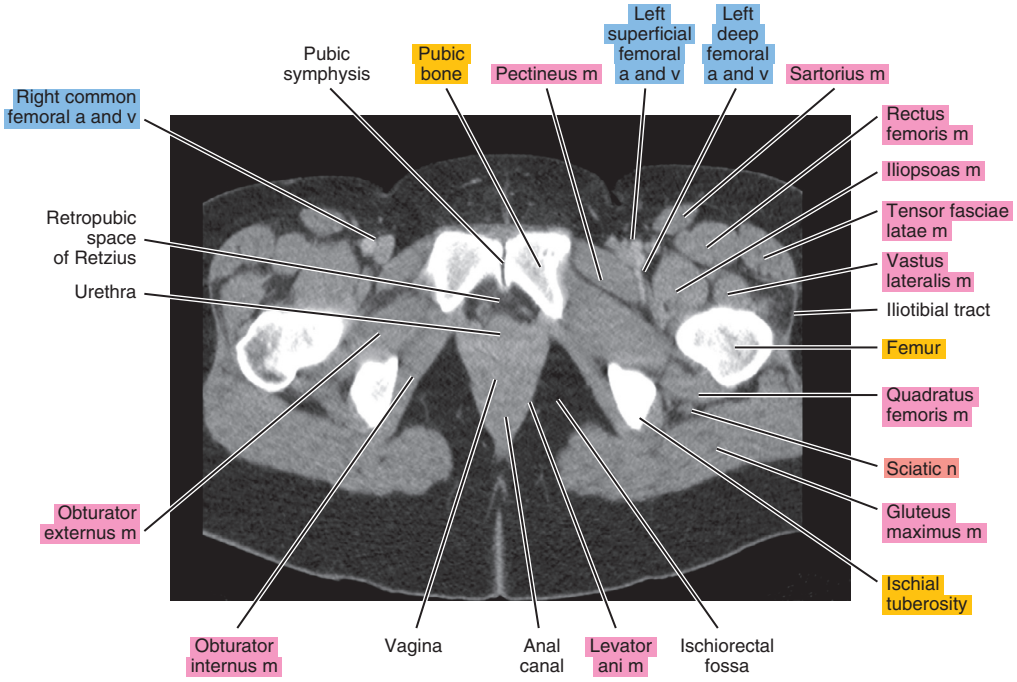

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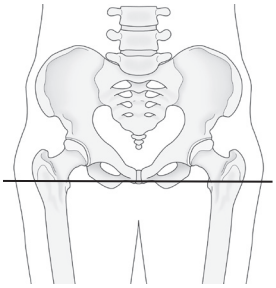
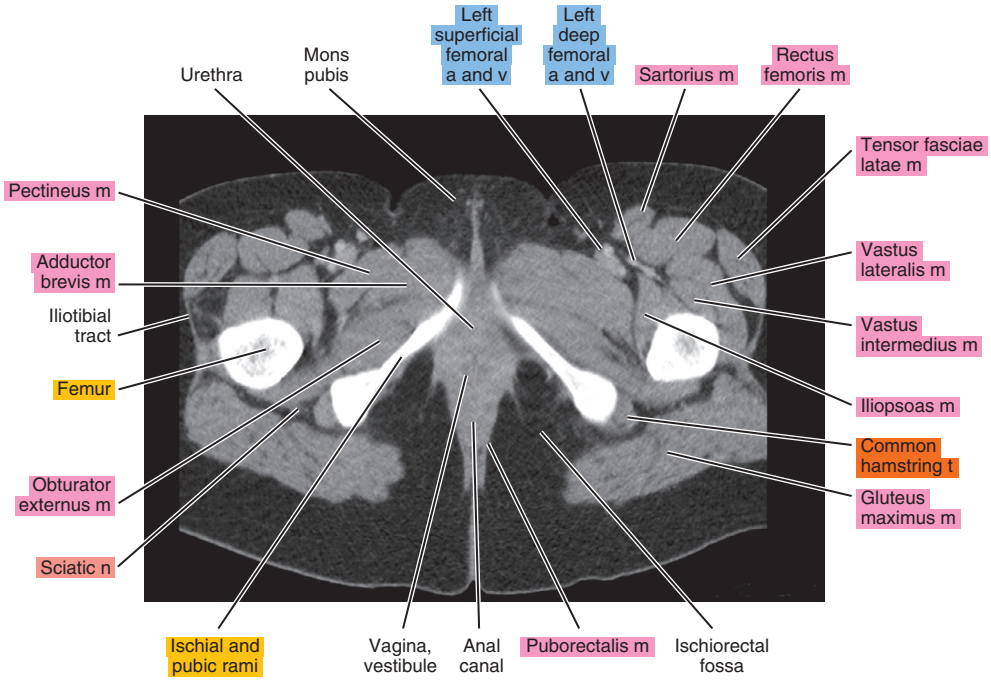
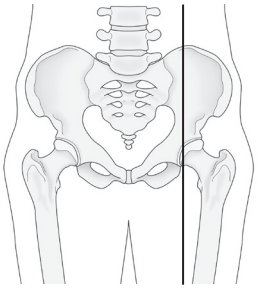
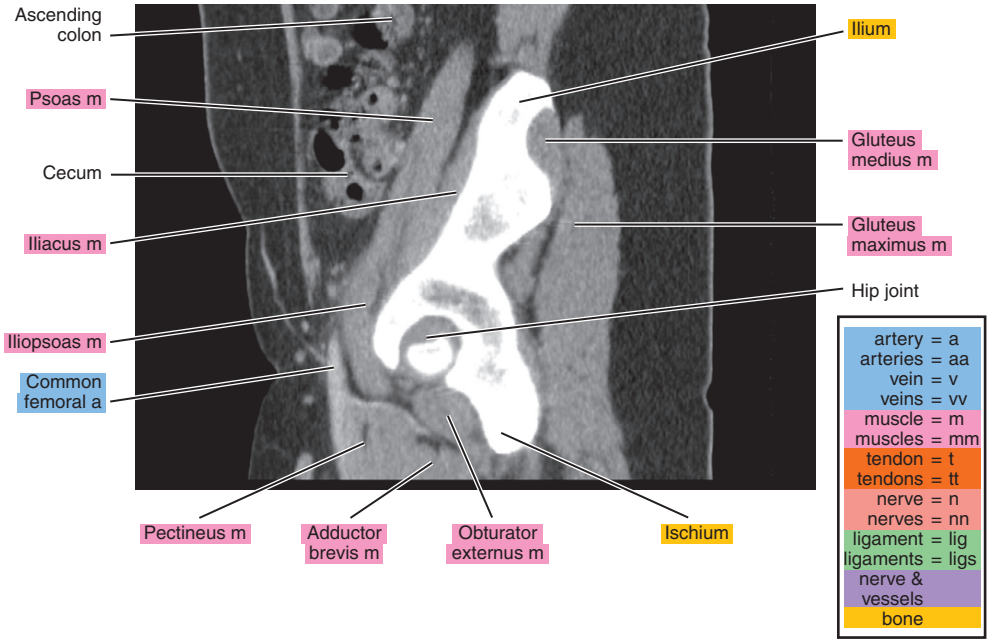



Urethra
Mons pubis
Left superficial femoral a and v
Left deep femoral a and v
Sartorius m
Rectus femoris m
Tensor fasciae latae m
Pectineus m
Vastus lateralis m
Adductor brevis m
Iliotibial tract
Vastus intermedius m
Femur
Iliopsoas m
Common hamstring t
Obturator externus m
Gluteus maximus m
Sciatic n
Ischial and pubic rami
Vagina, vestibule
Anal canal
Puborectalis m
Ischiorectal fossa

SAGITTAL

Figure 23.2.1





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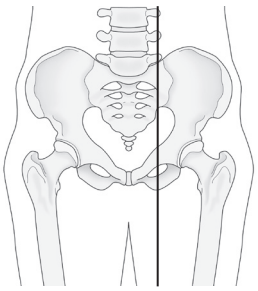


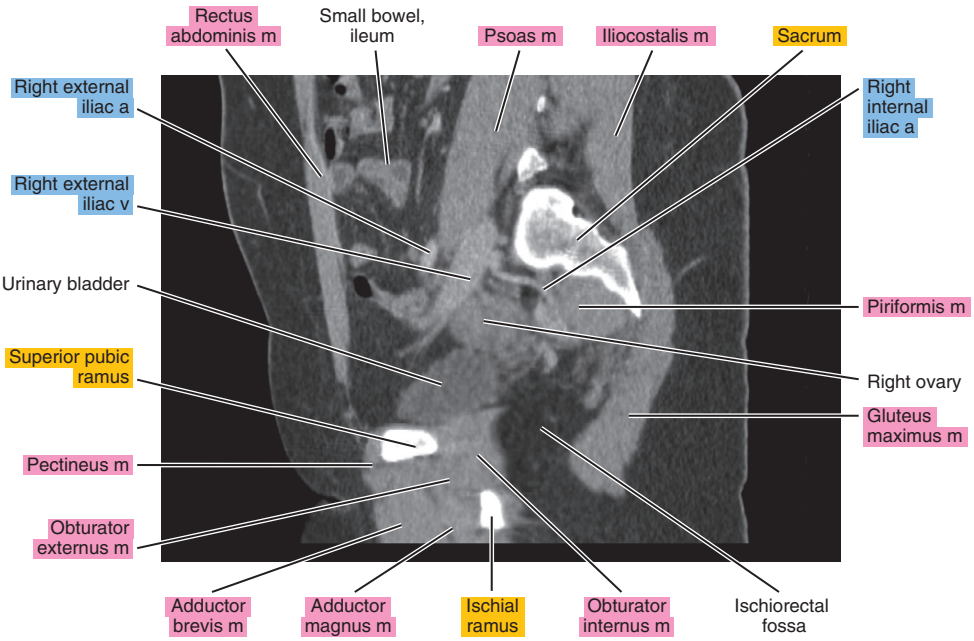
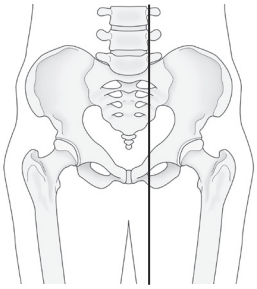
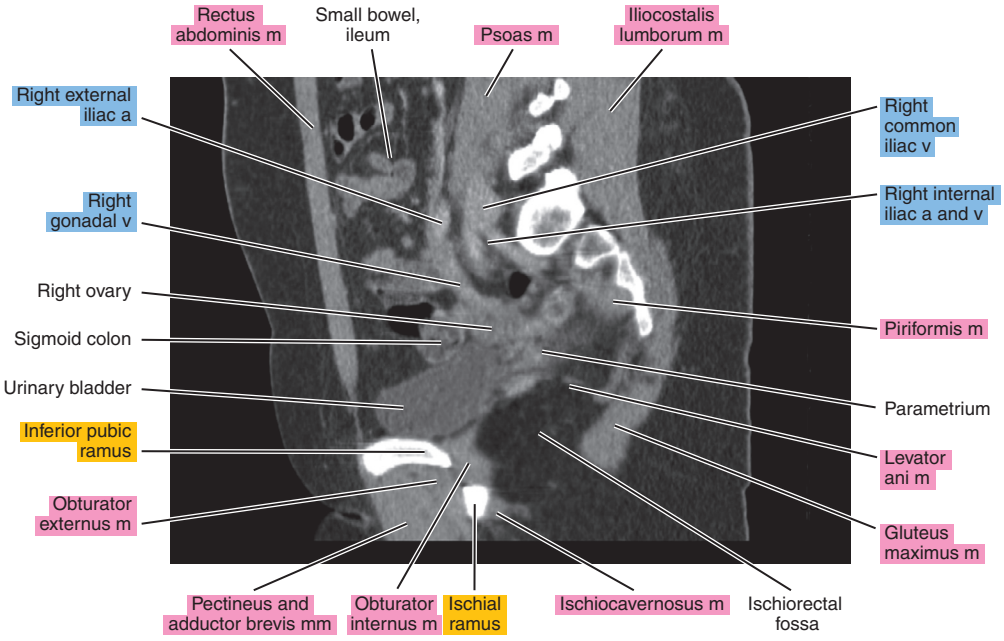


Figure 23.2.3





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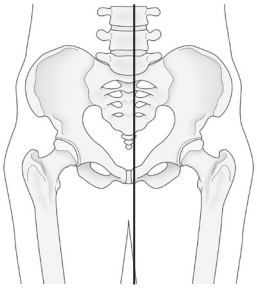


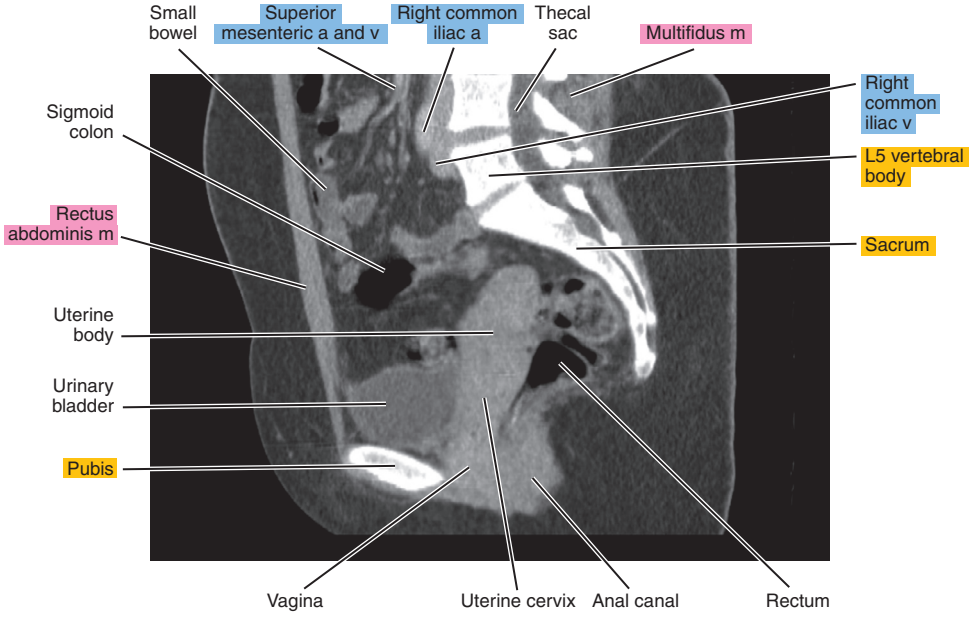
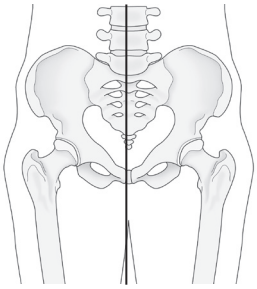
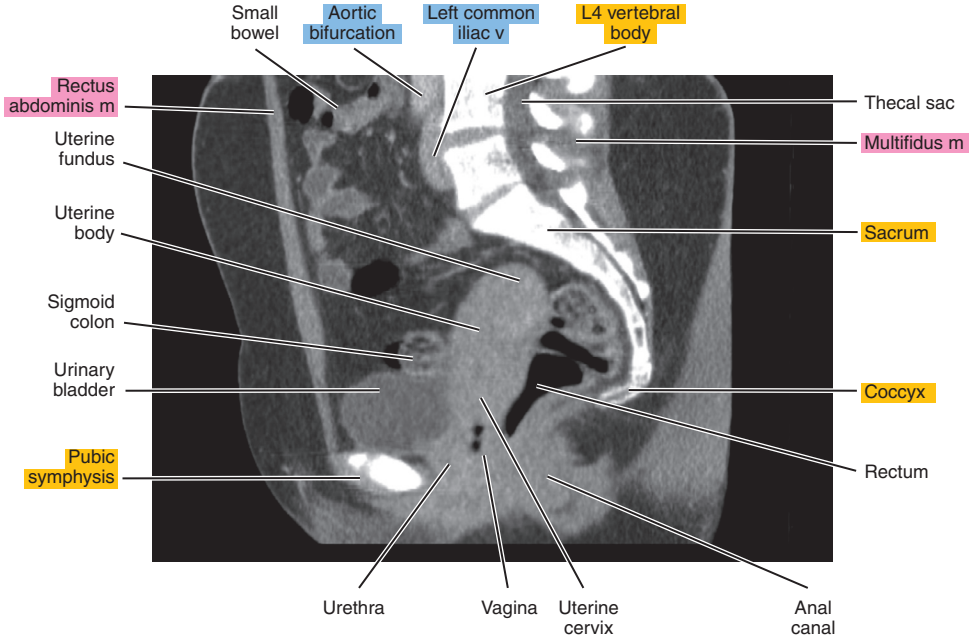


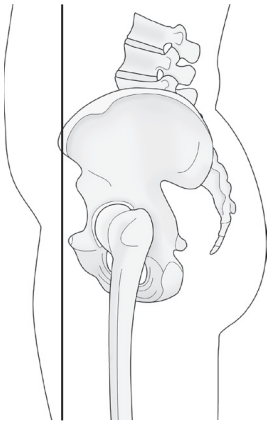
Figure 23.2.5




Small bowel
Aortic bifurcation
Left common iliac v
L4 vertebral body
Rectus abdominis m
Uterine fundus
Uterine body
Sigmoid colon
Urinary bladder
Pubic symphysis
Thecal sac
Multifidus m
Sacrum
Coccyx
Rectum
Urethra
Vagina
Uterine cervix
Anal canal

CORONAL

Figure 23.3.1



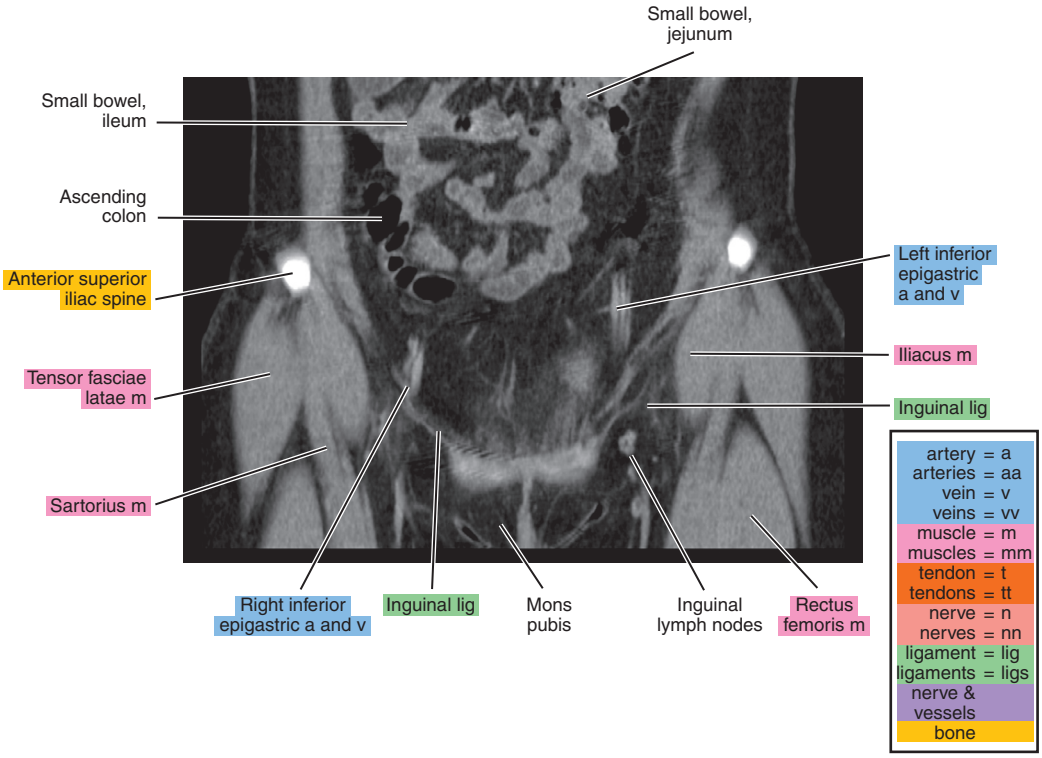
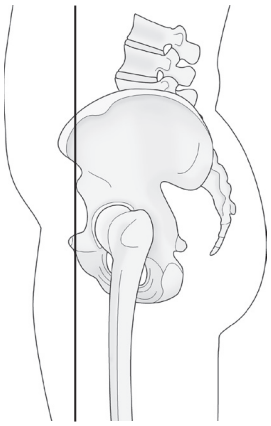


Figure 23.3.2



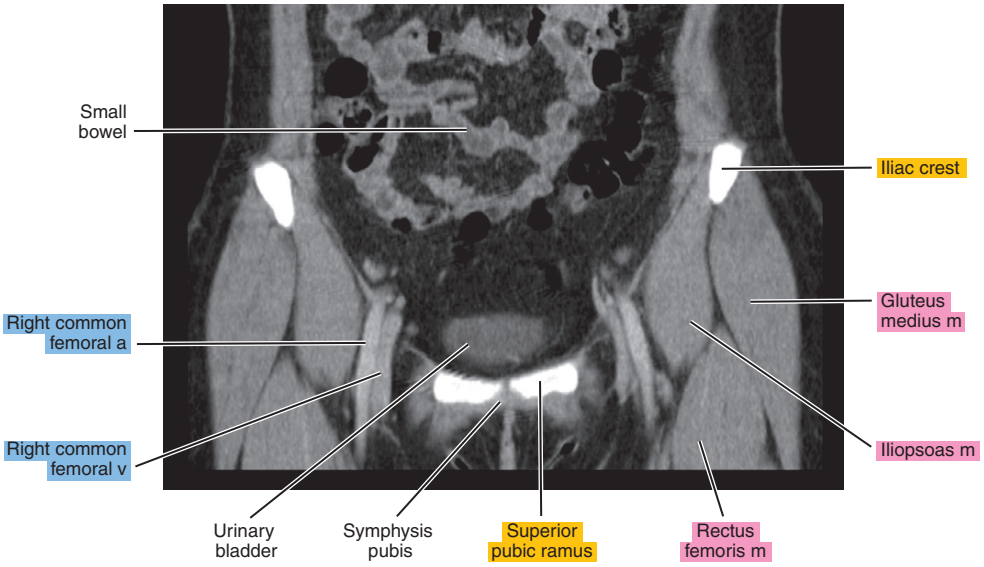
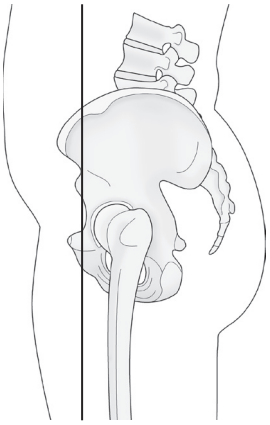


Figure 23.3.3



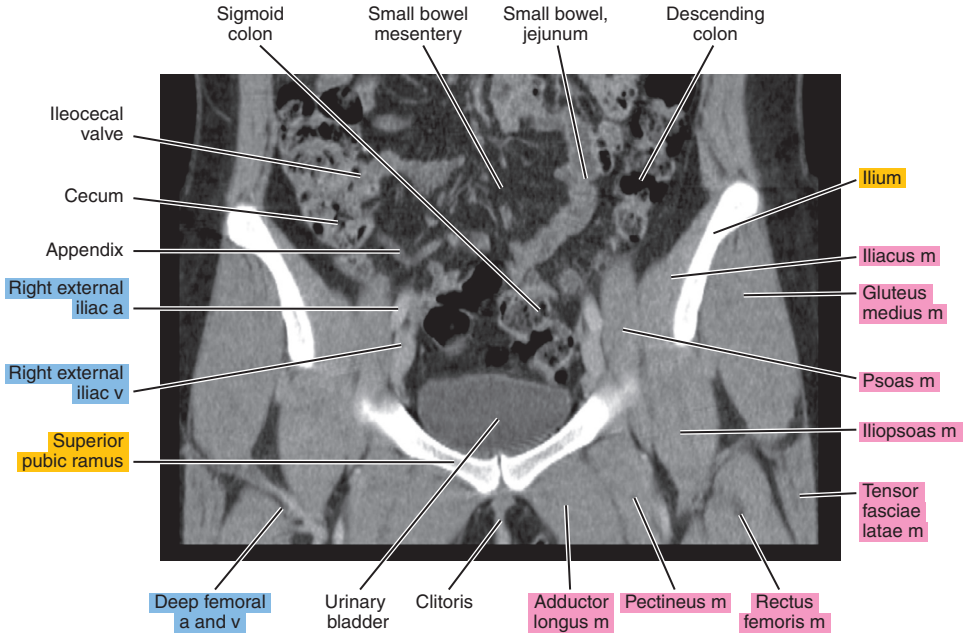
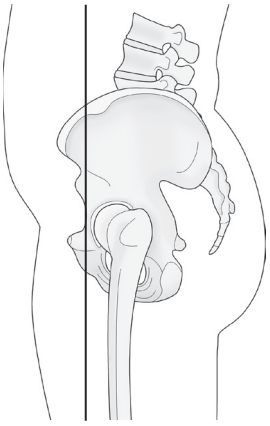
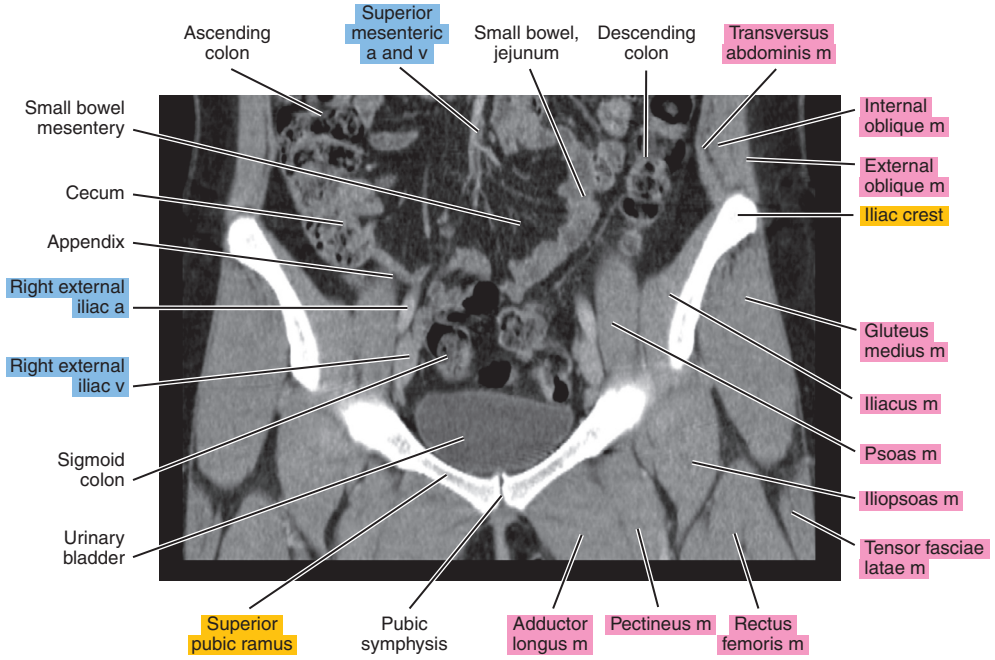


Figure 23.3.4





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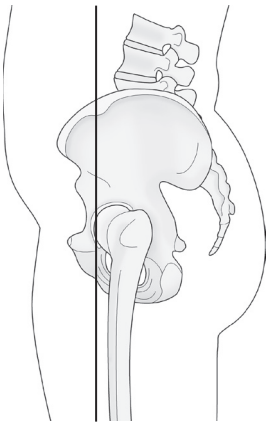

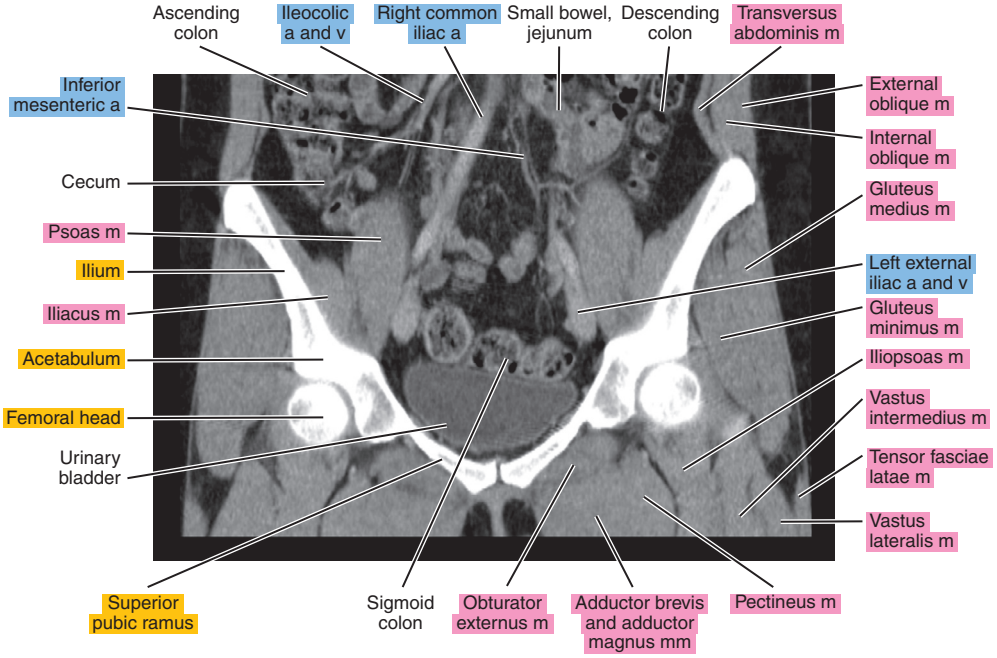

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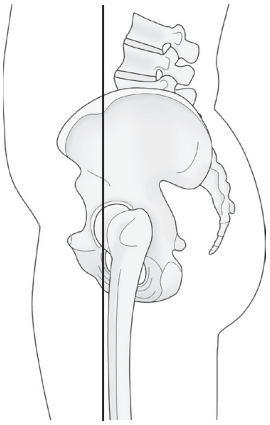

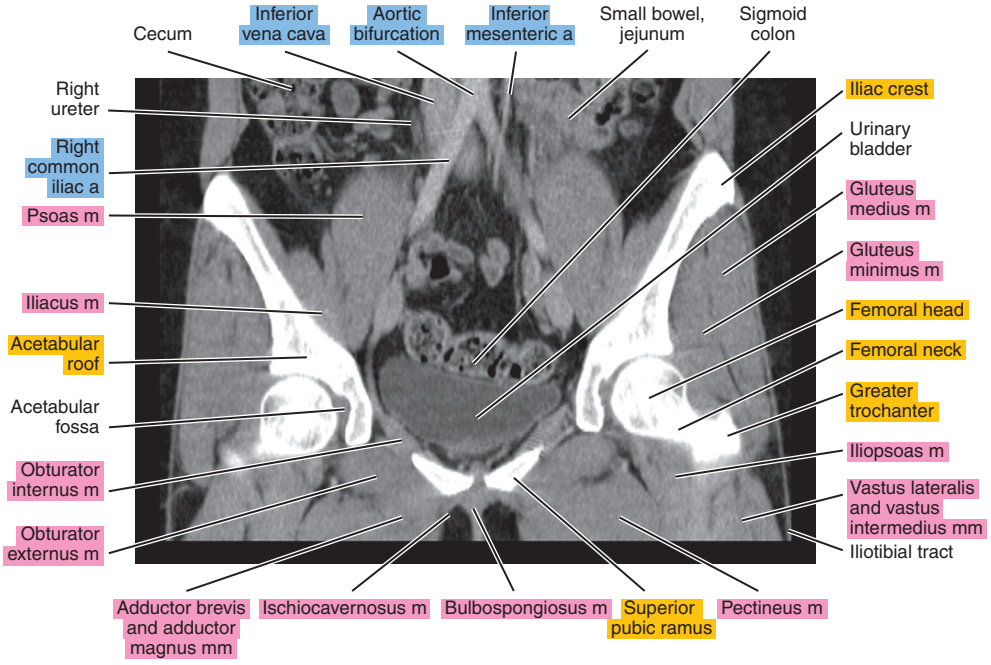

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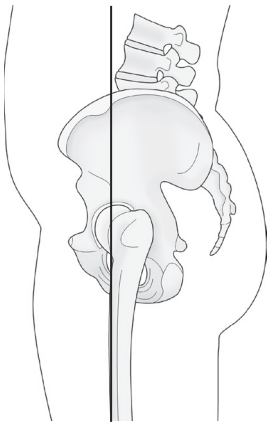


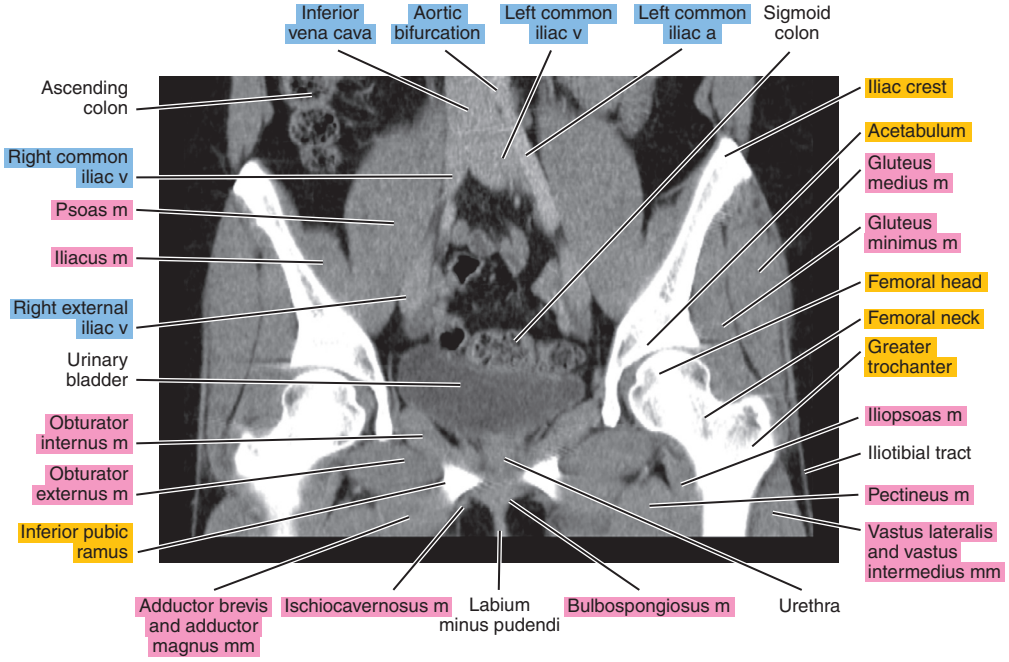
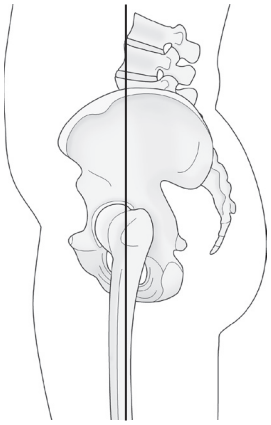
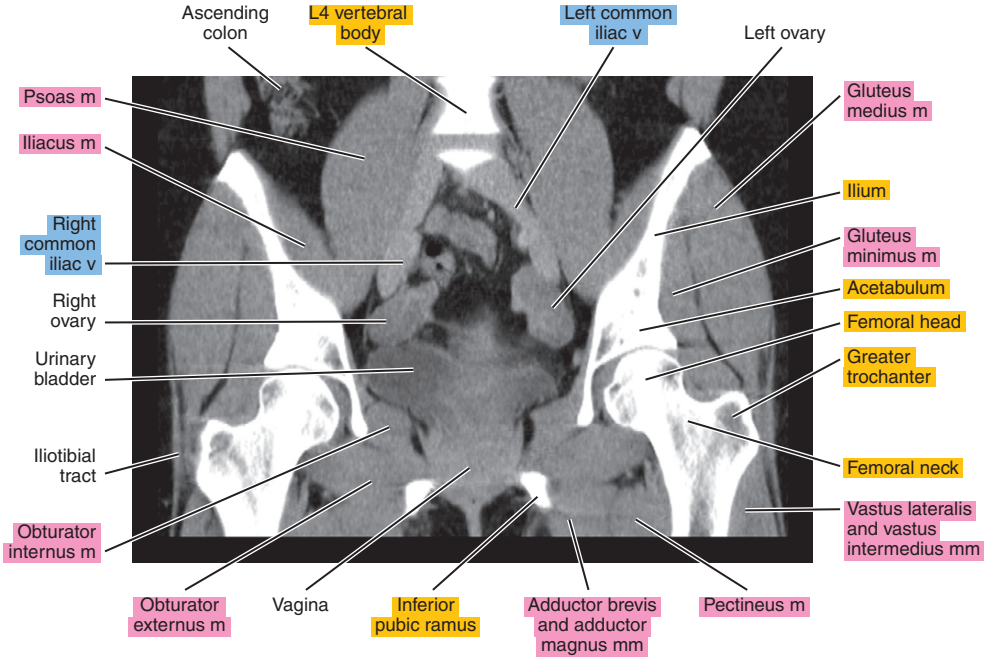


Figure 23.3.8





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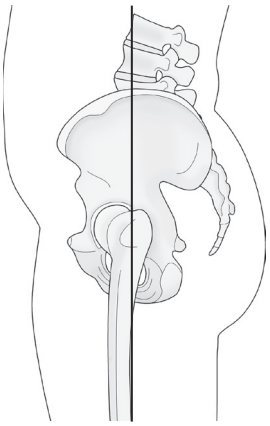

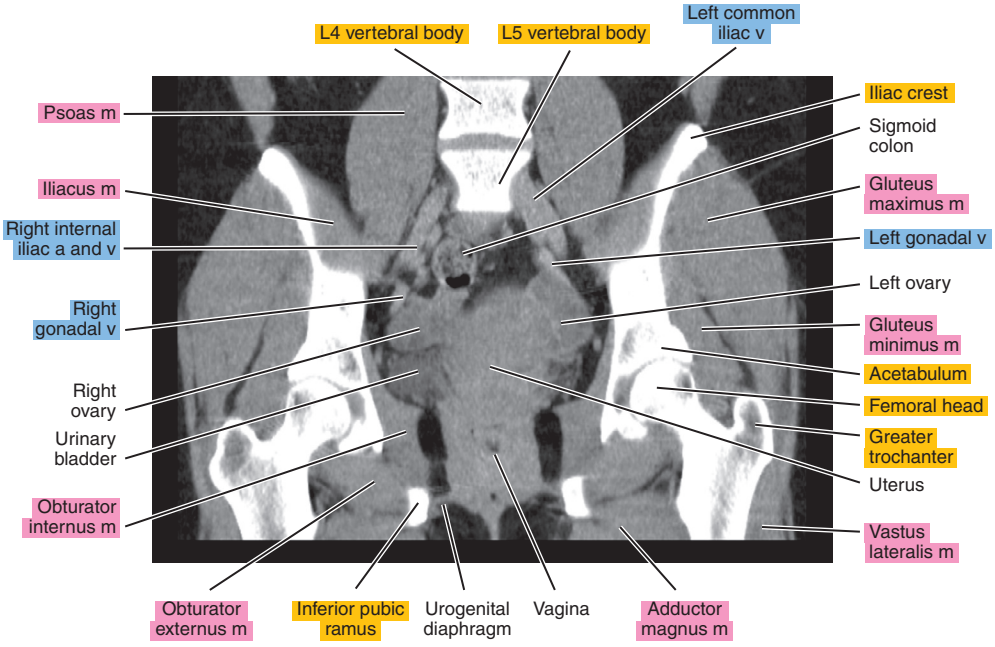

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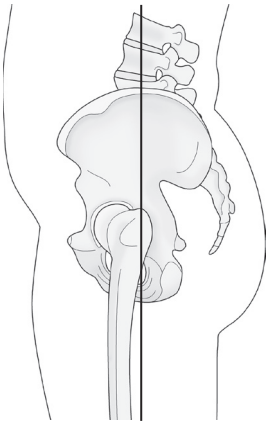


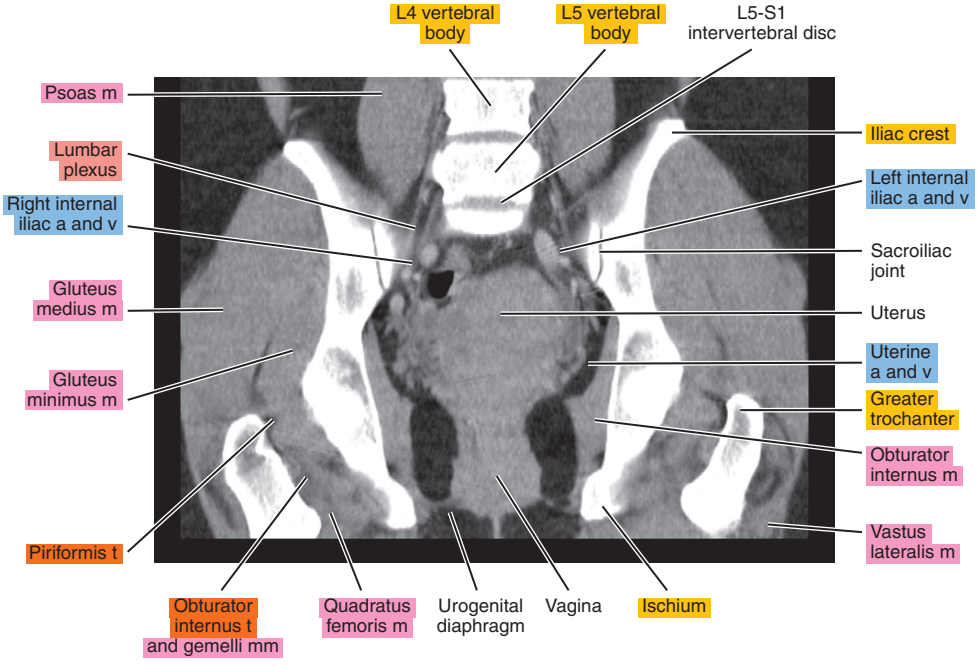
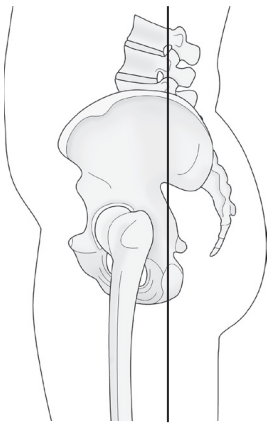


Figure 23.3.11



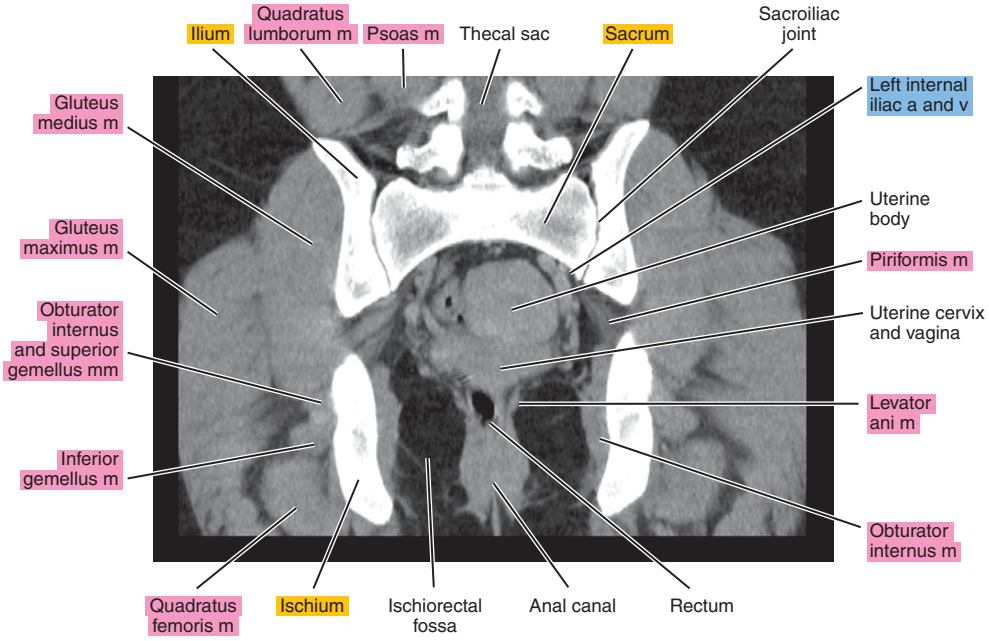
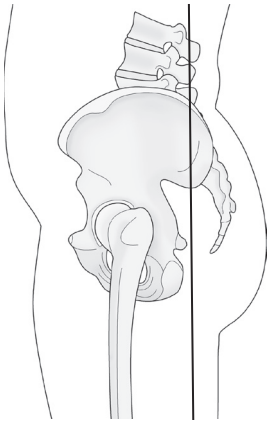
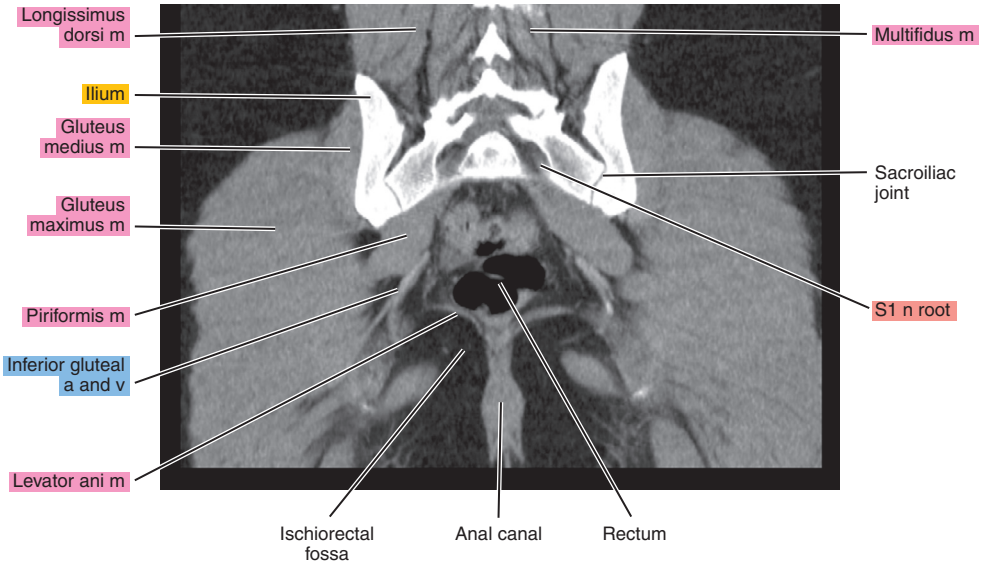


Figure 23.3.12





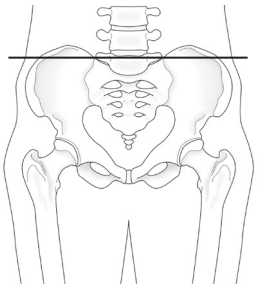
Chapter

24

MRI of the Male Pelvis

AXIAL

Figure 24.1.1



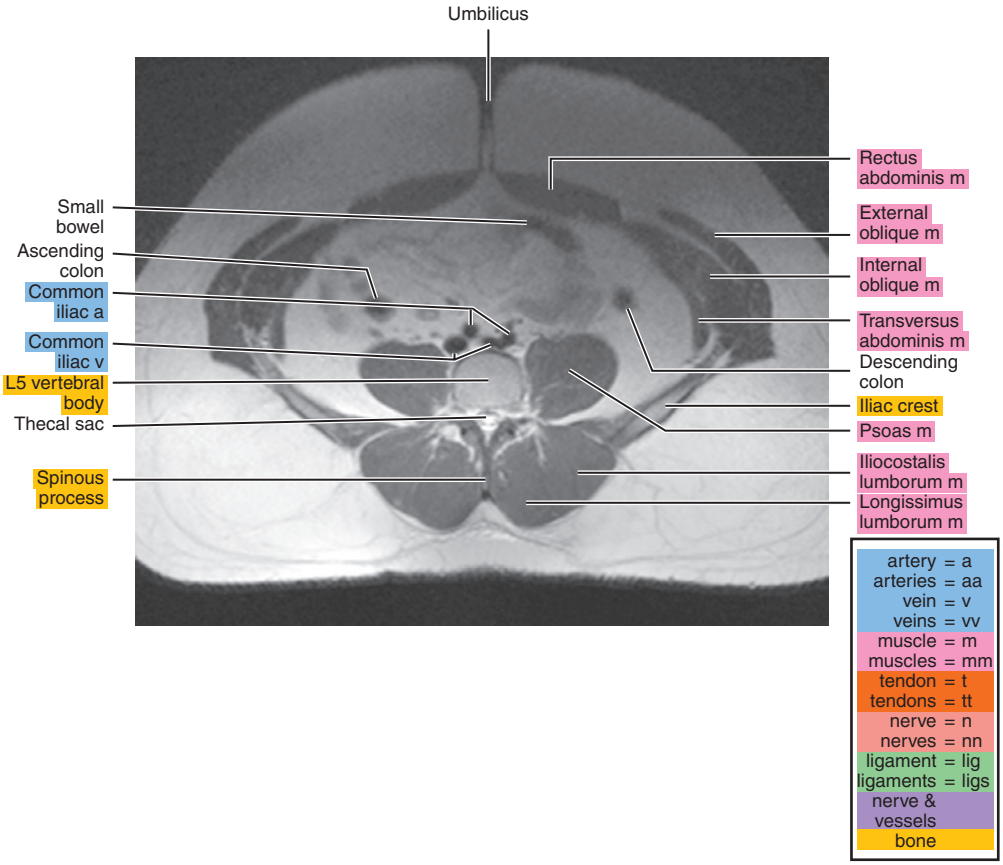
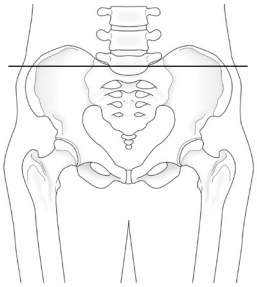


Figure 24.1.2



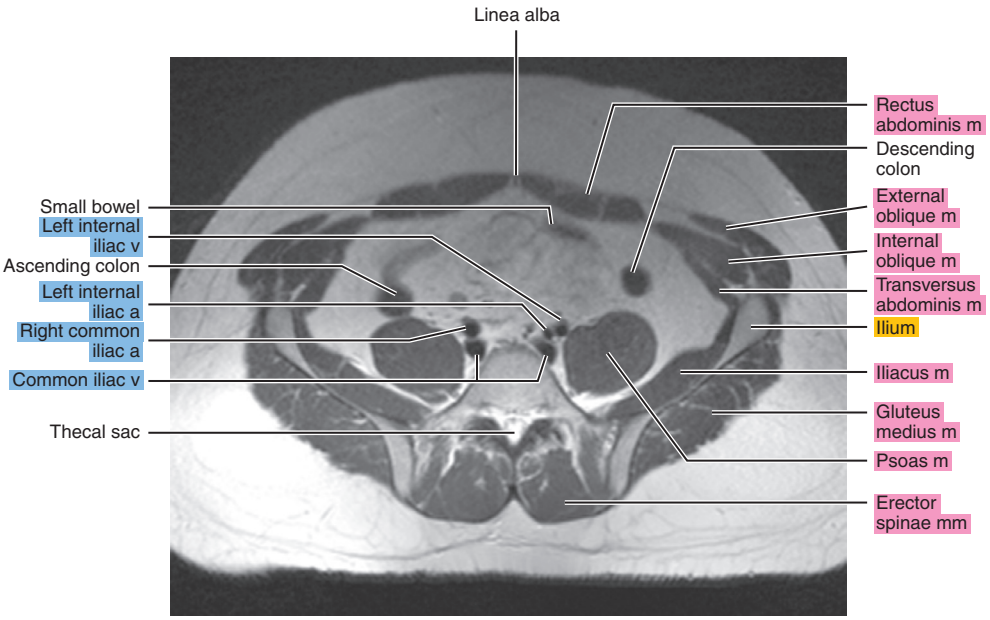
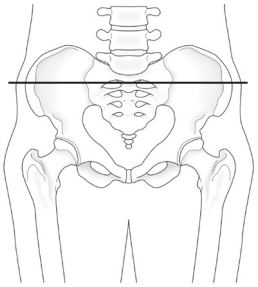


Figure 24.1.3



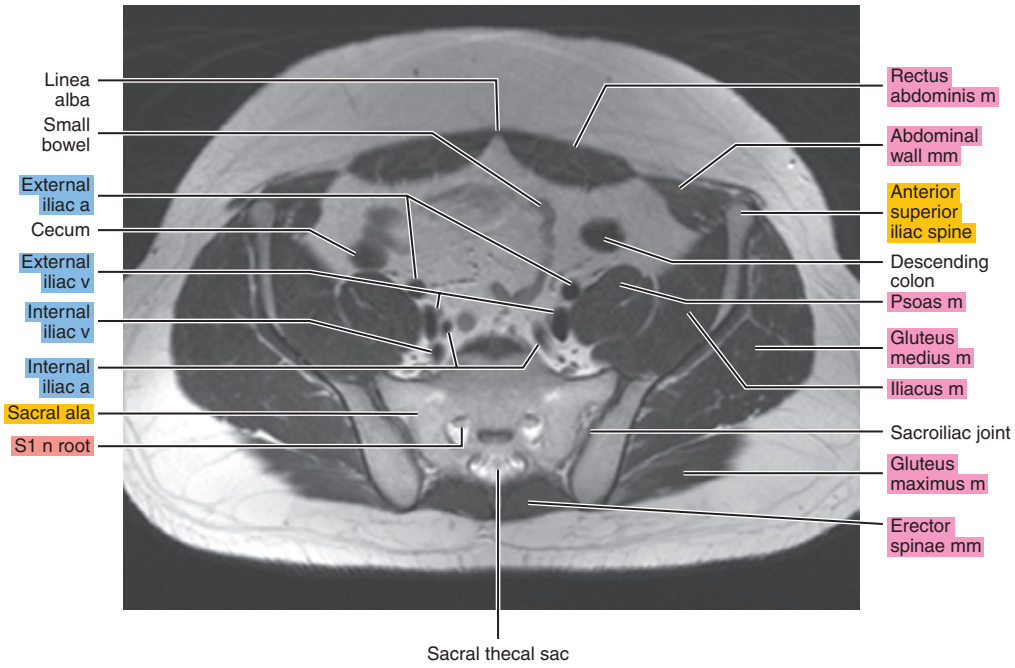
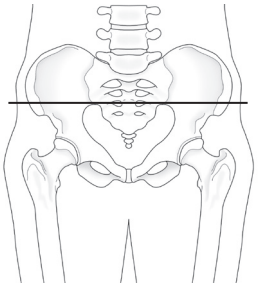


Figure 24.1.4



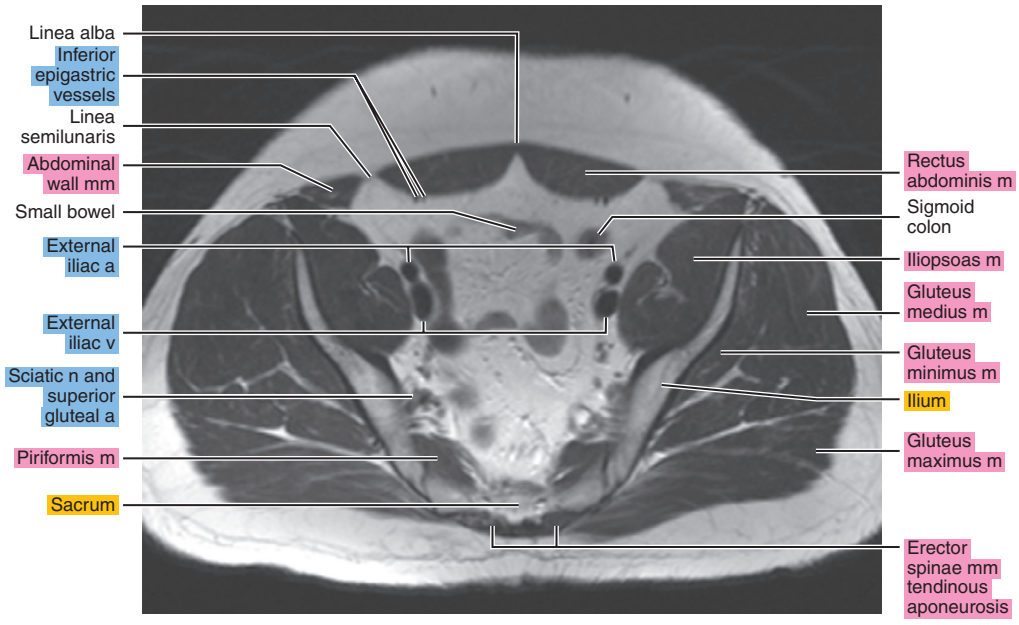
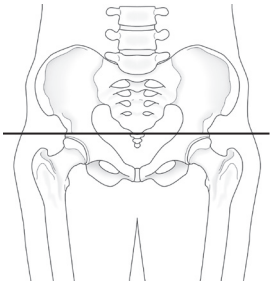
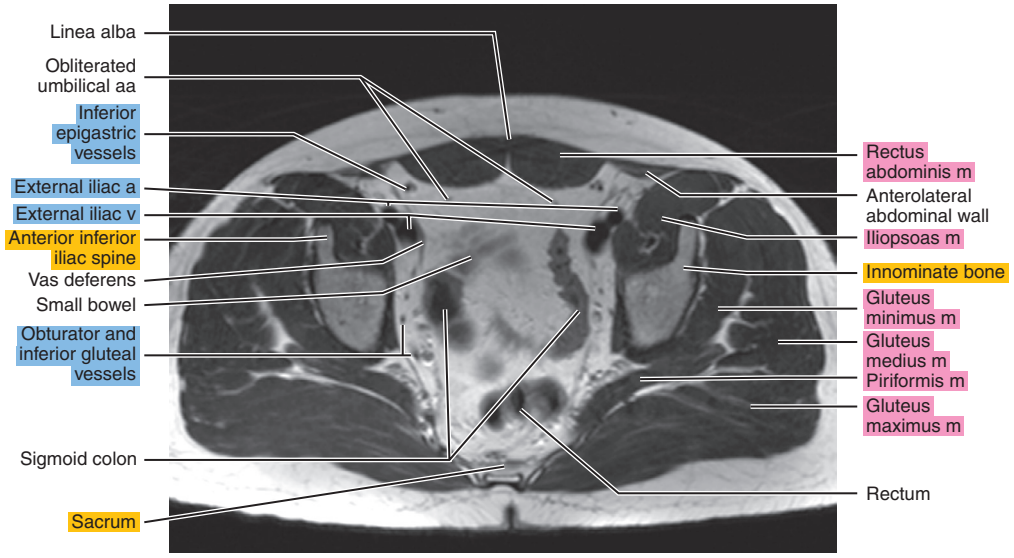


Figure 24.1.5





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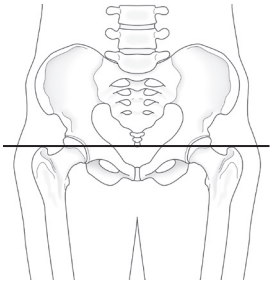

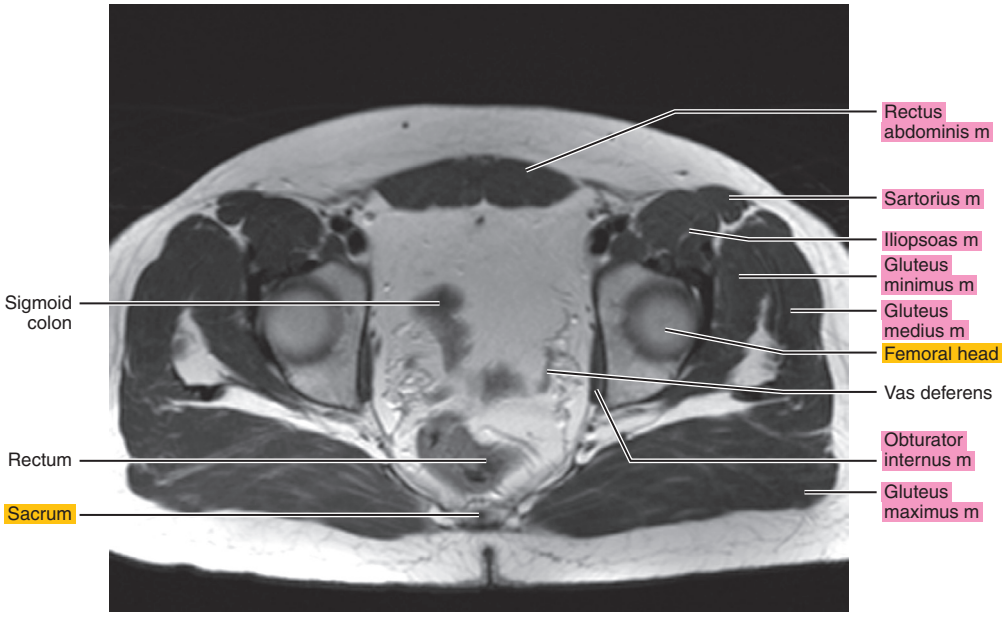

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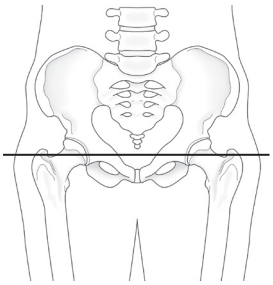

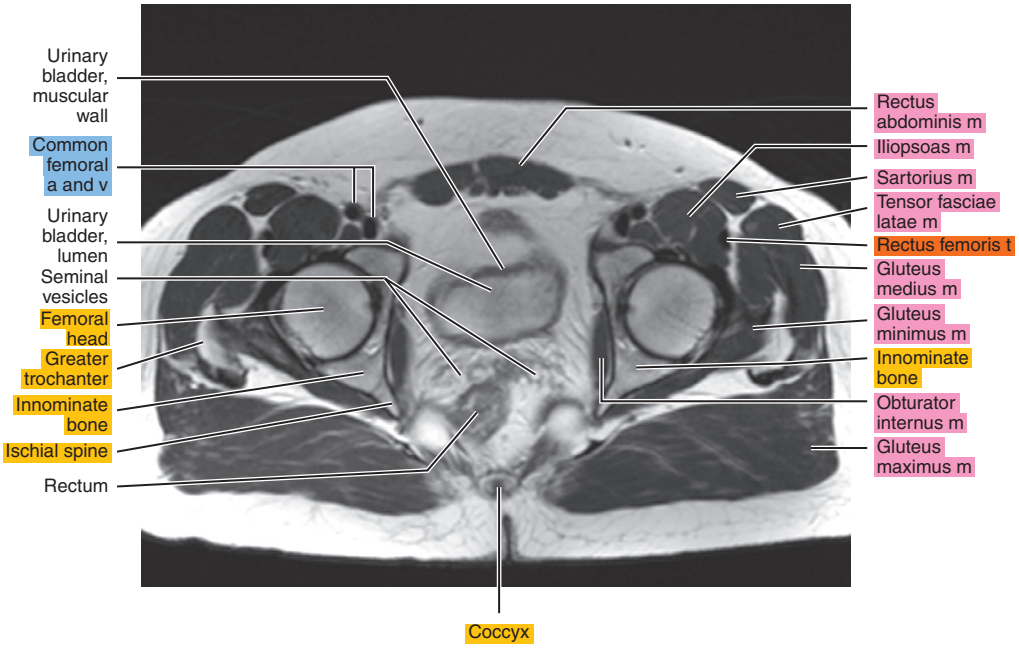

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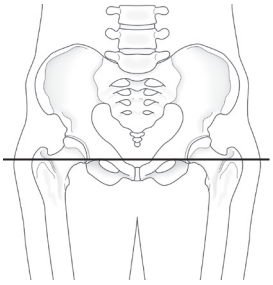

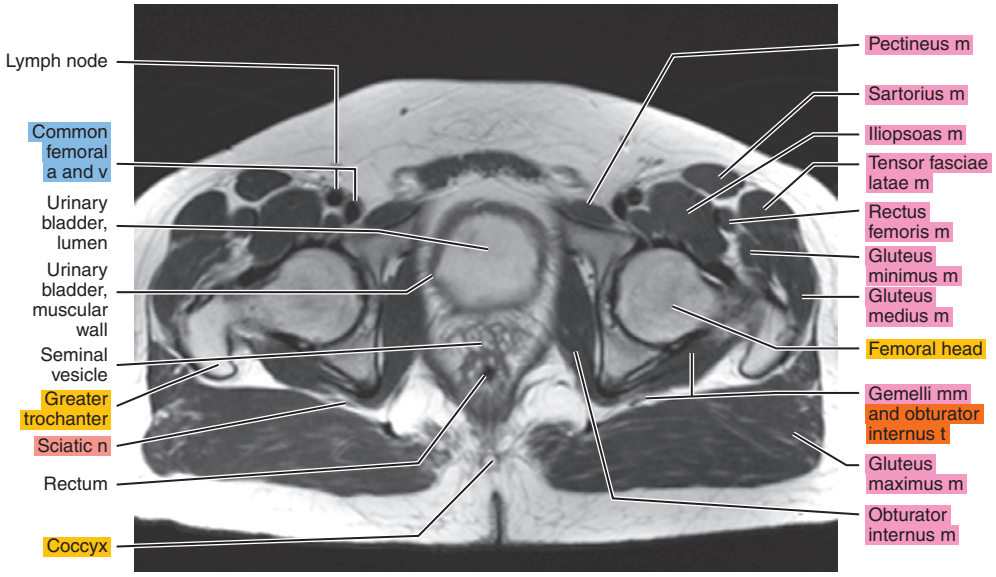

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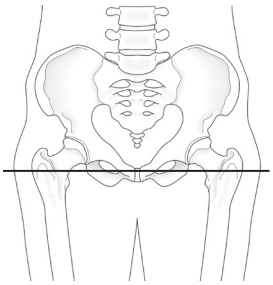

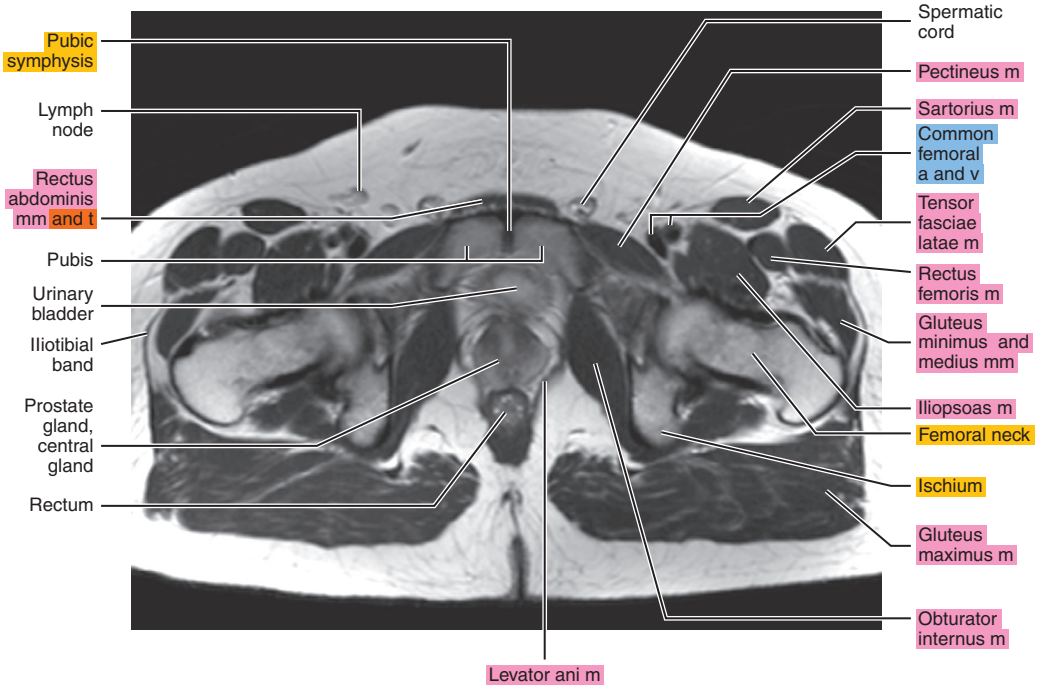

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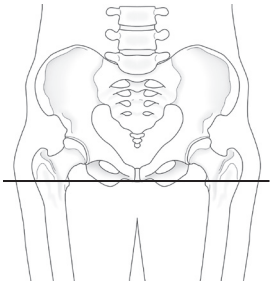

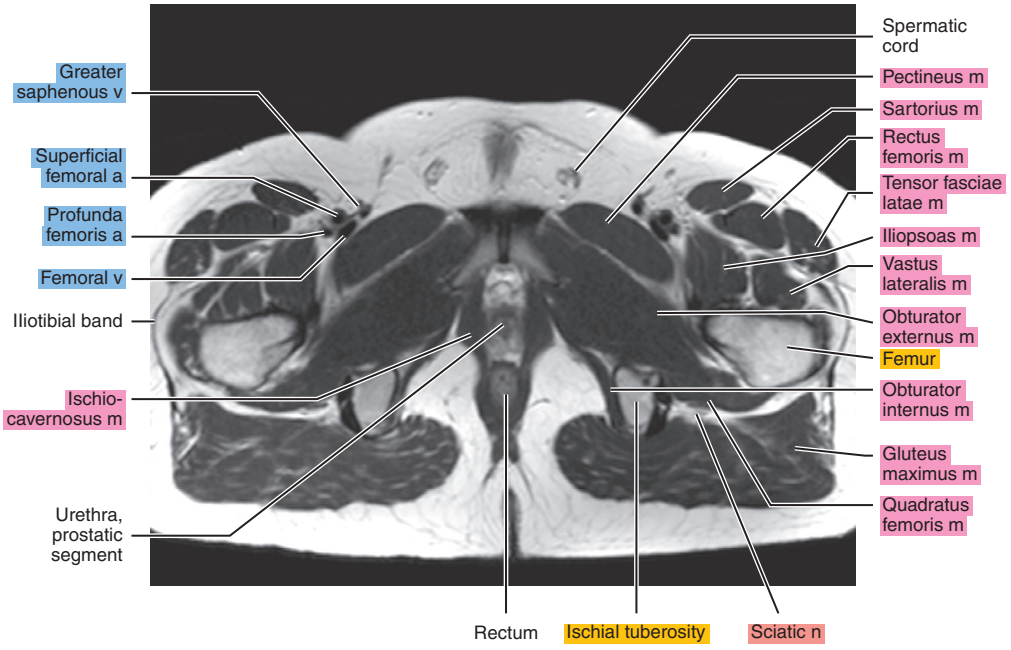

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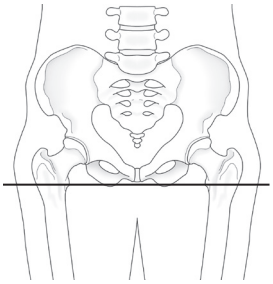

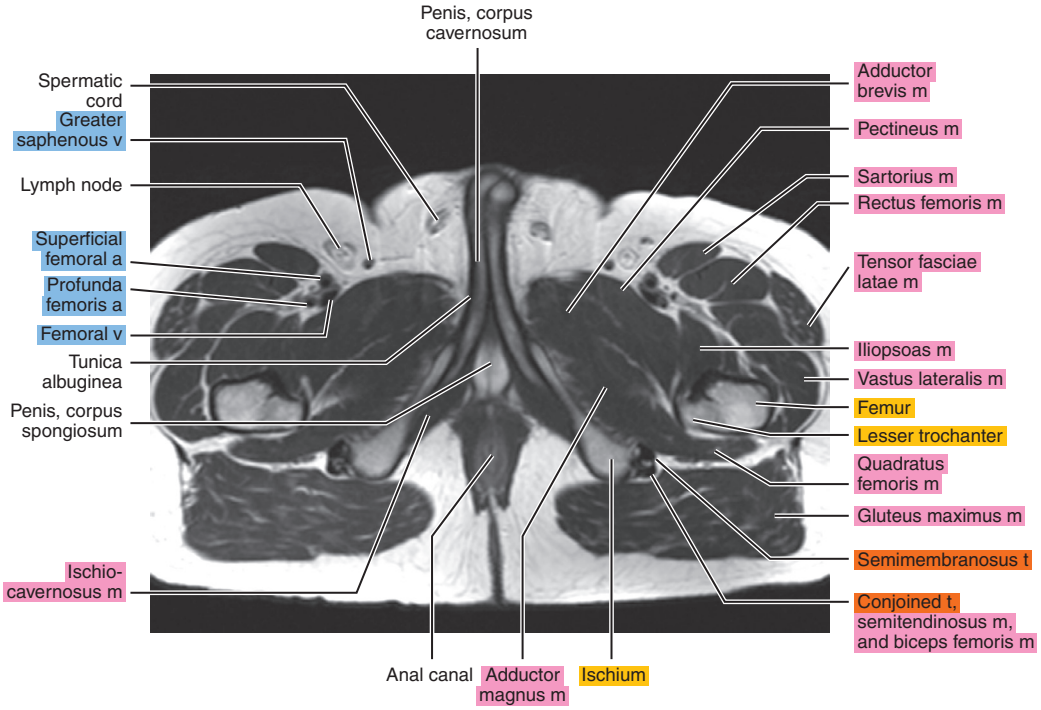

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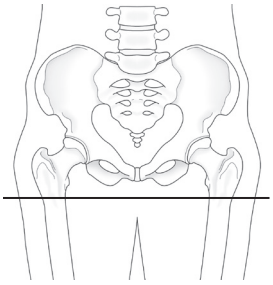

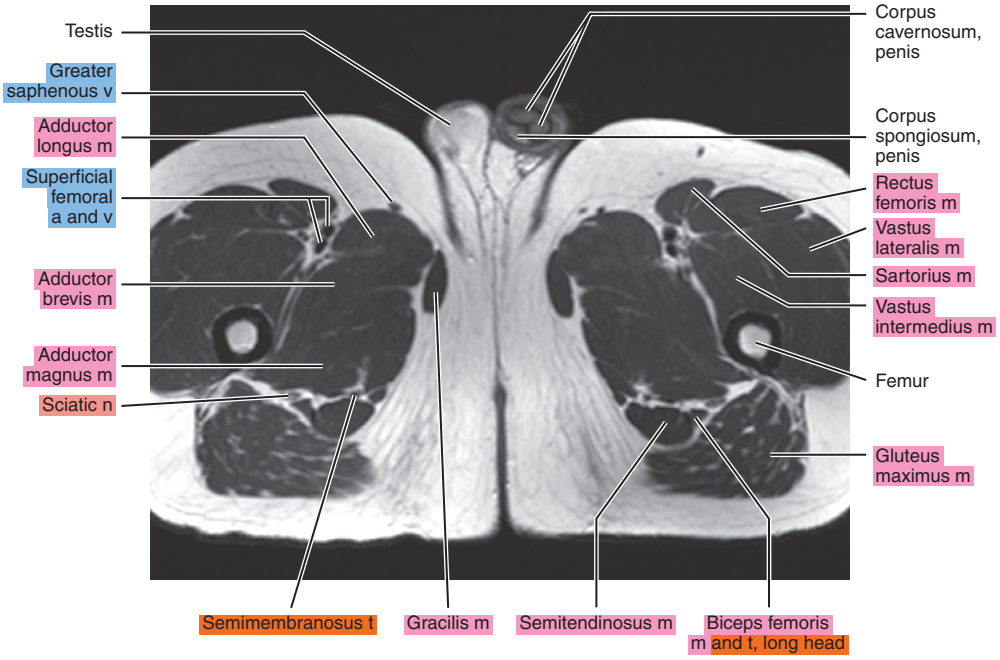

SAGITTAL

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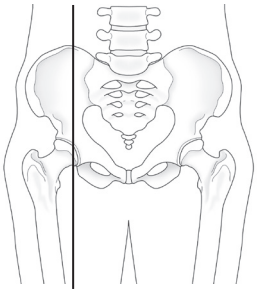

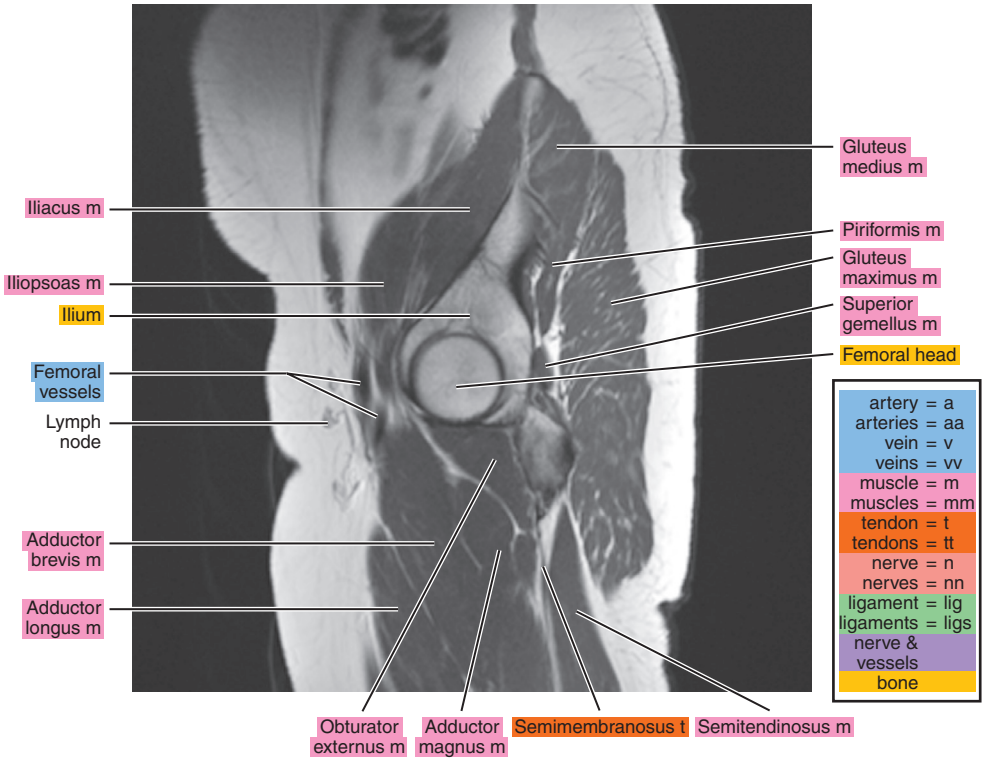

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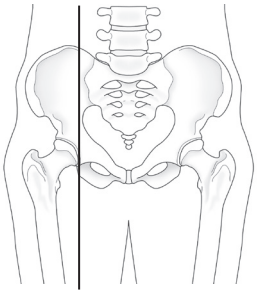

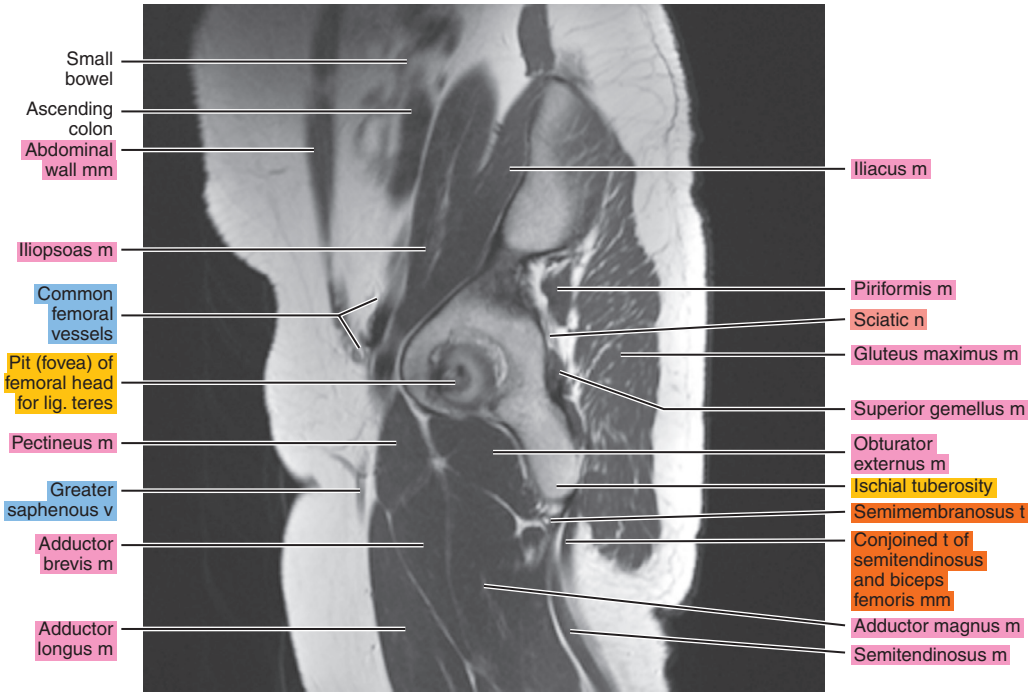

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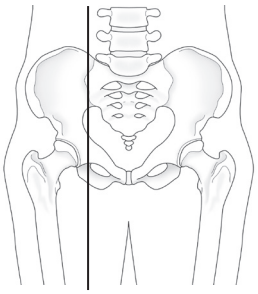

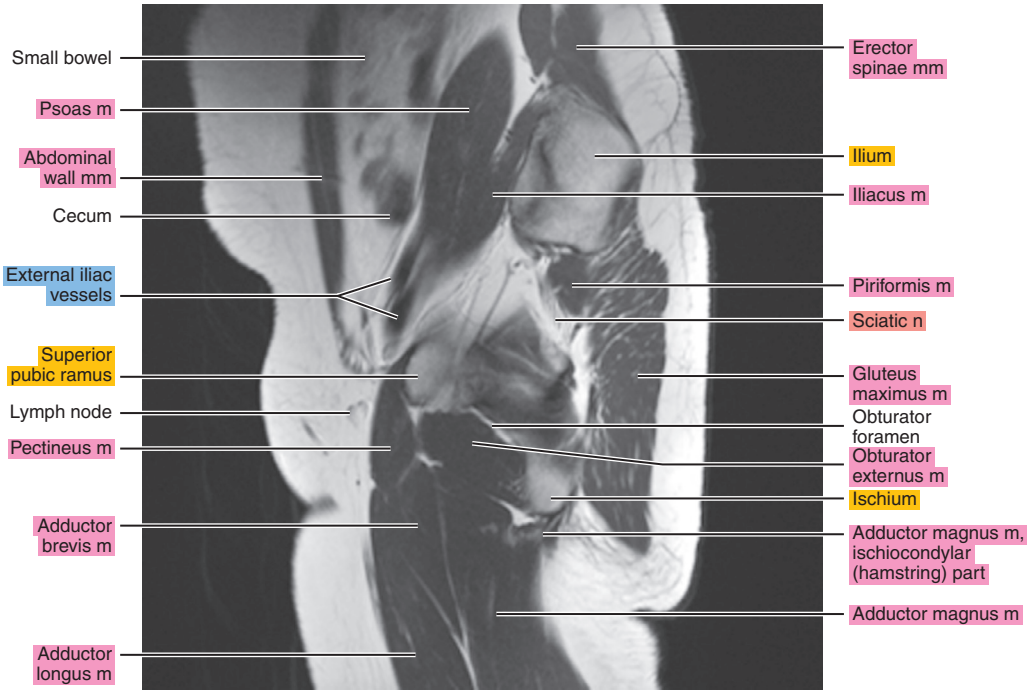

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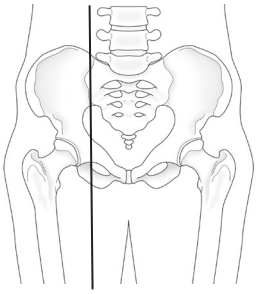

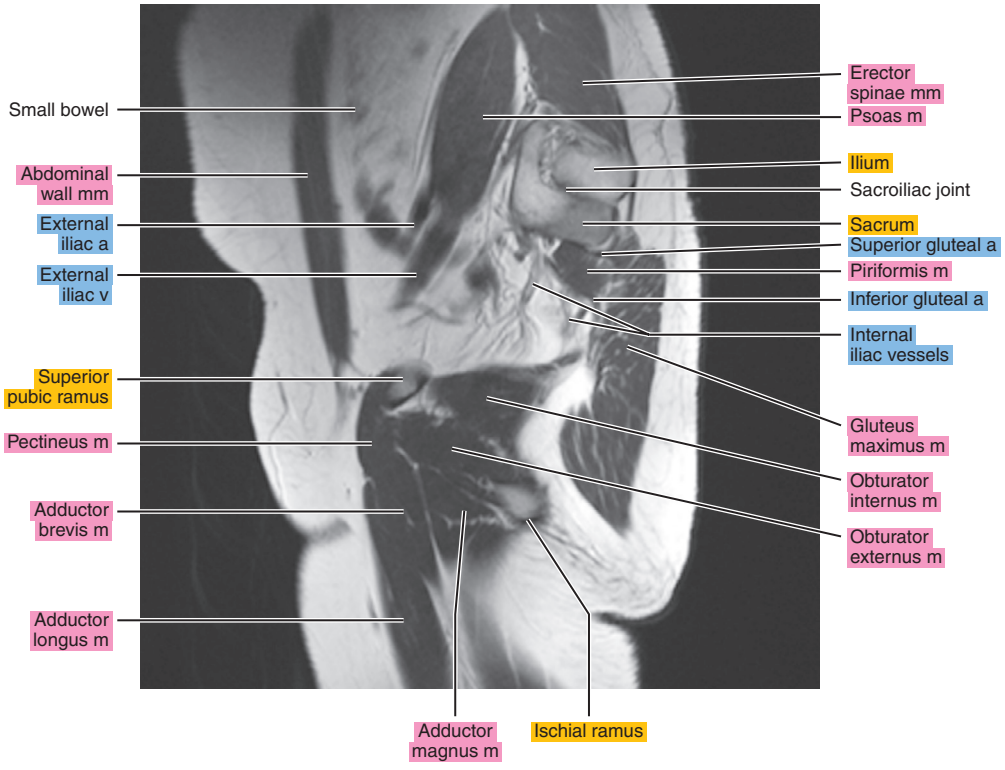

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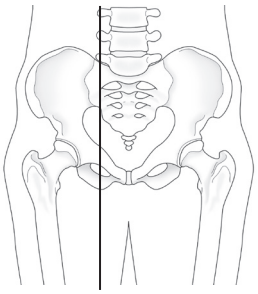

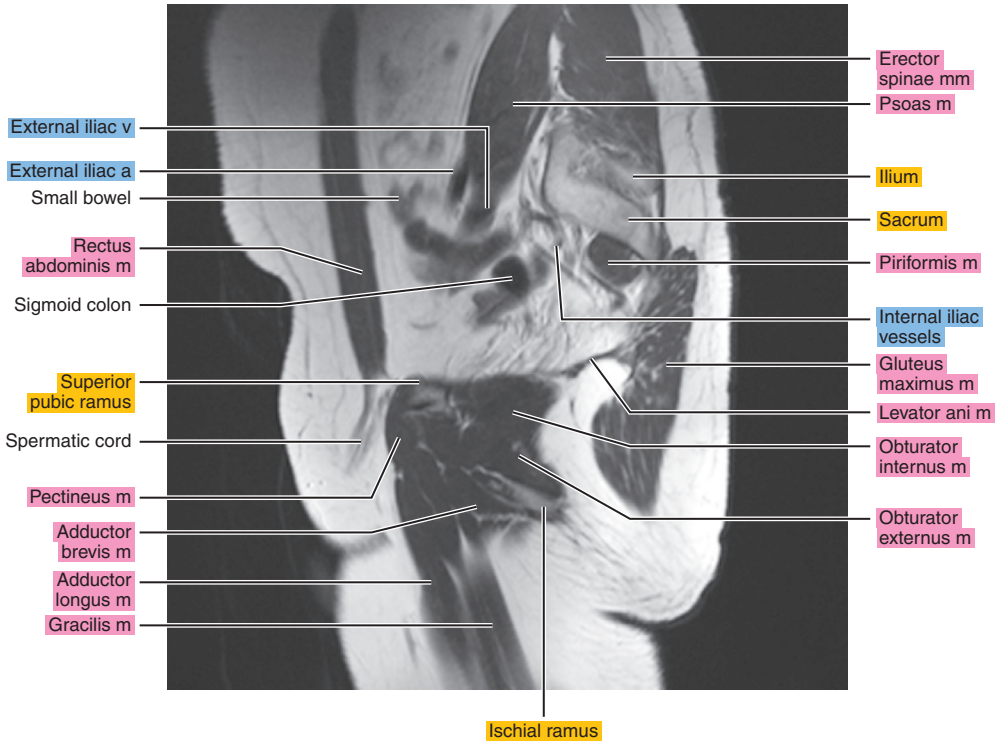

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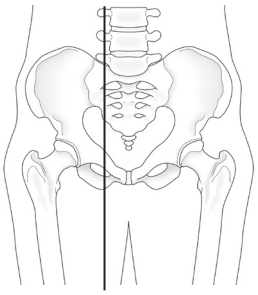

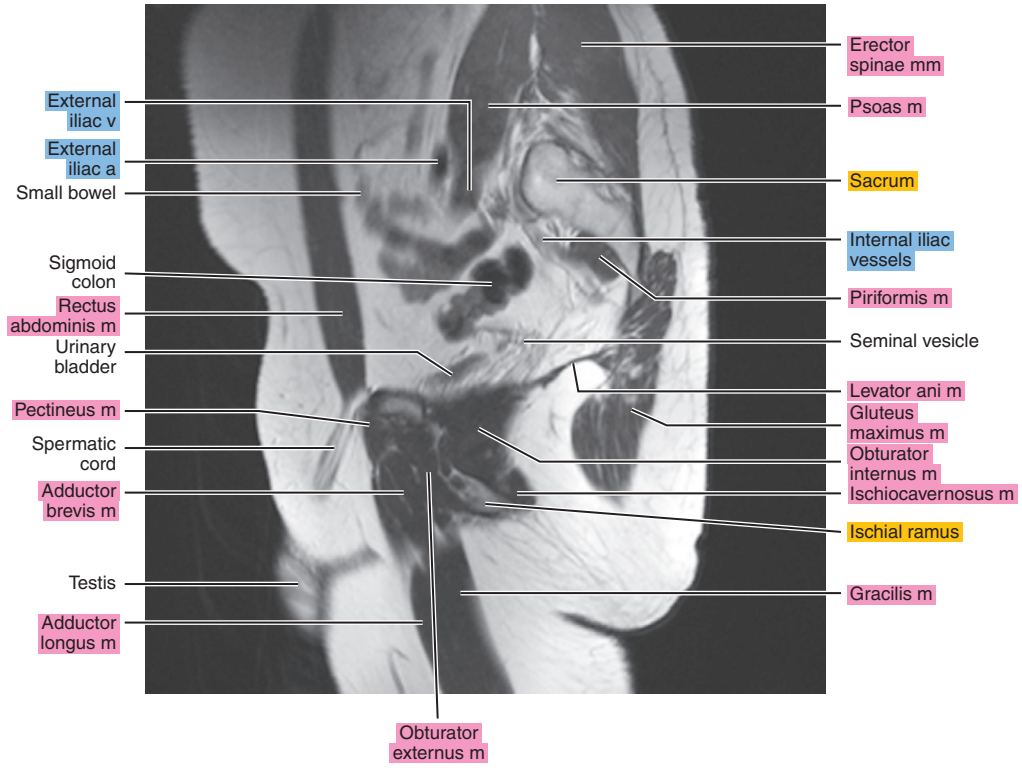

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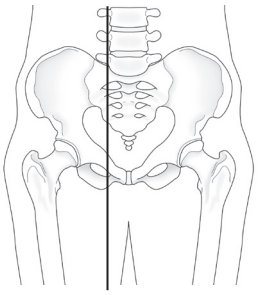

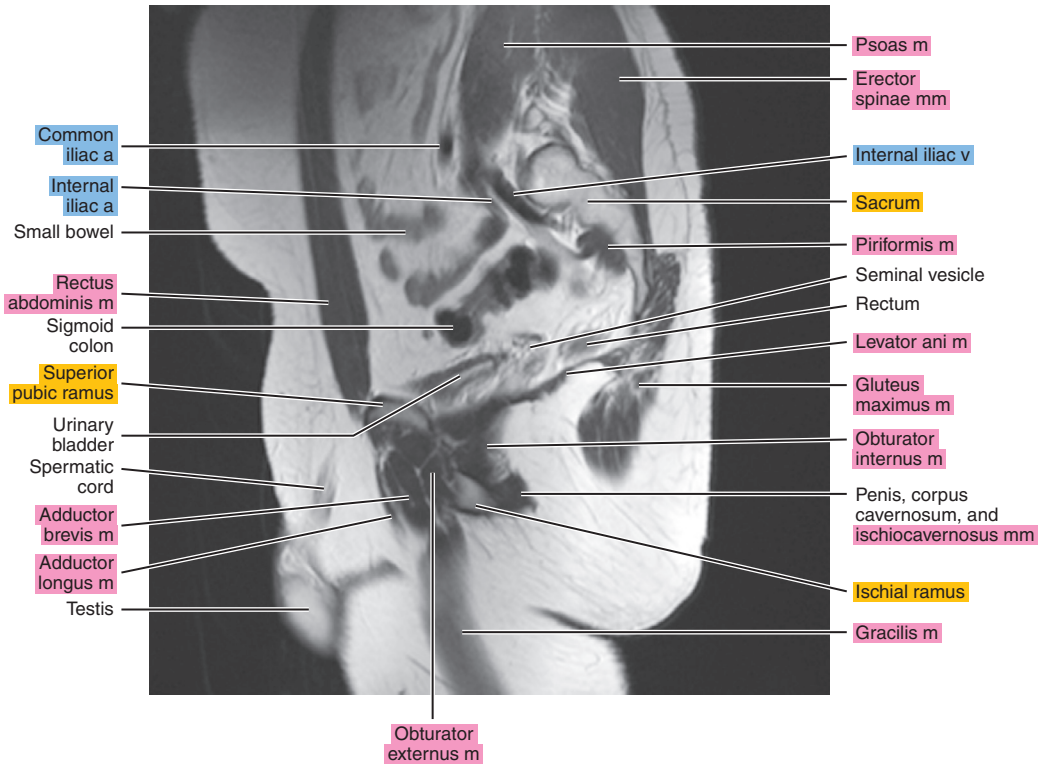

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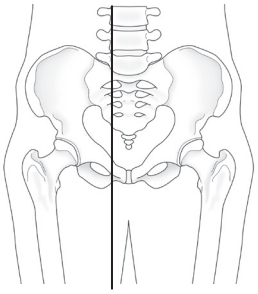

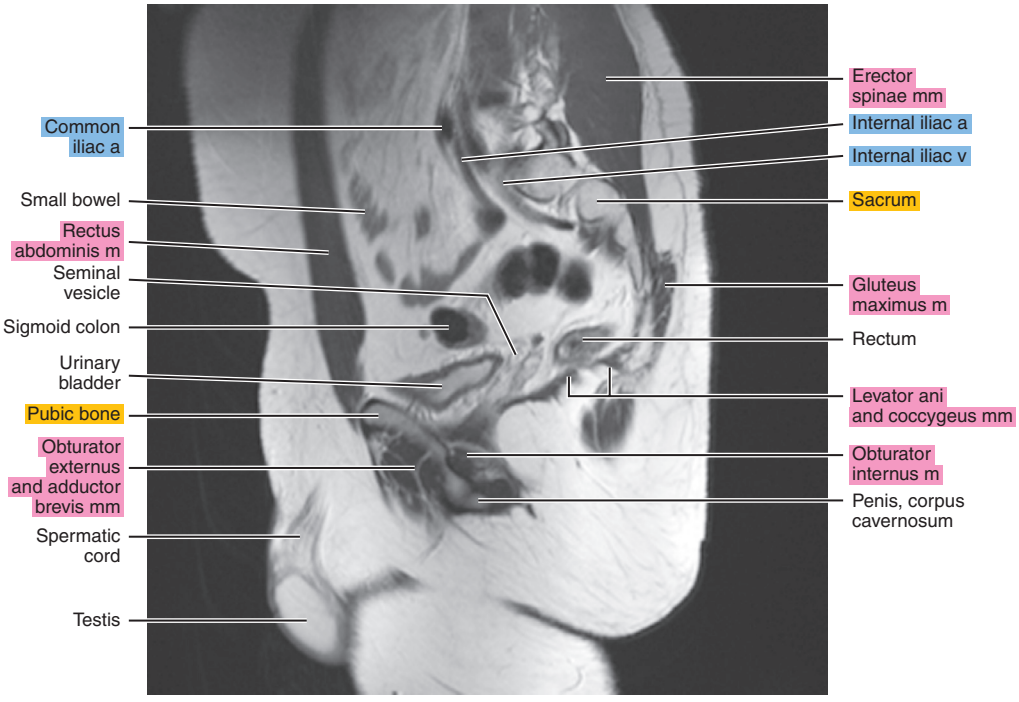

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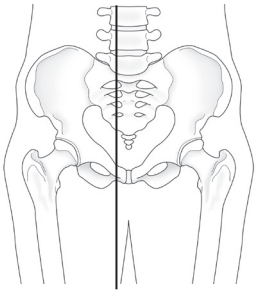

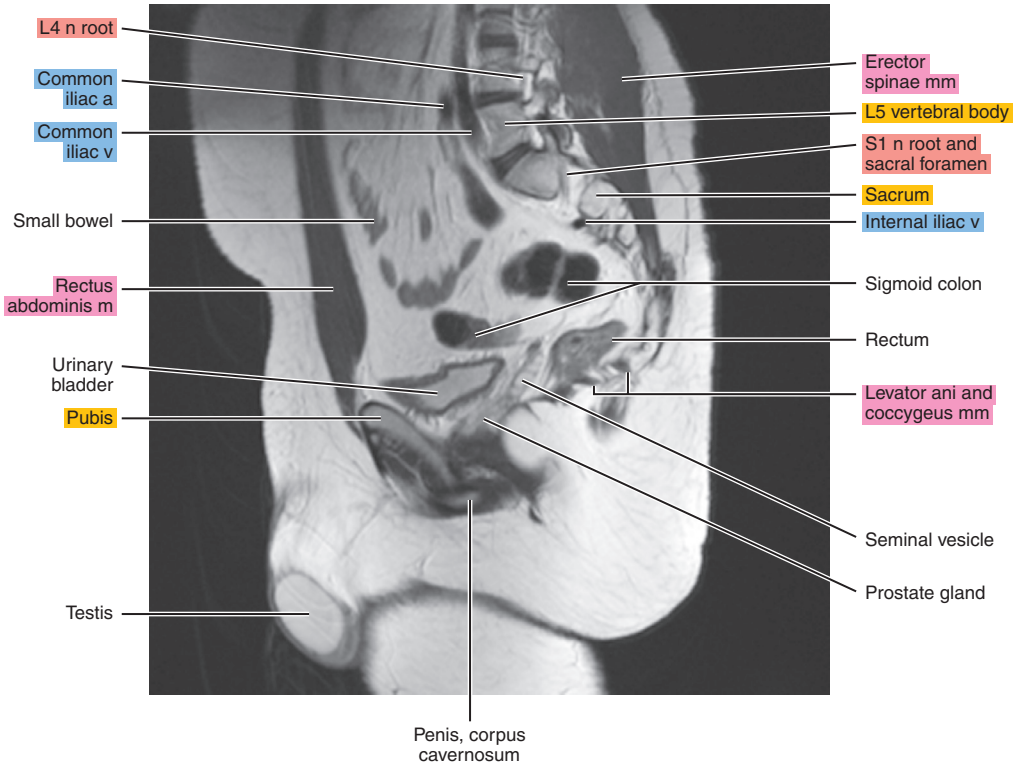

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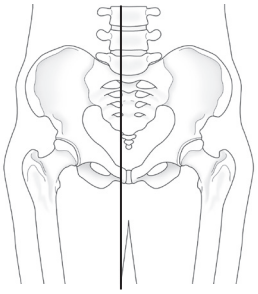

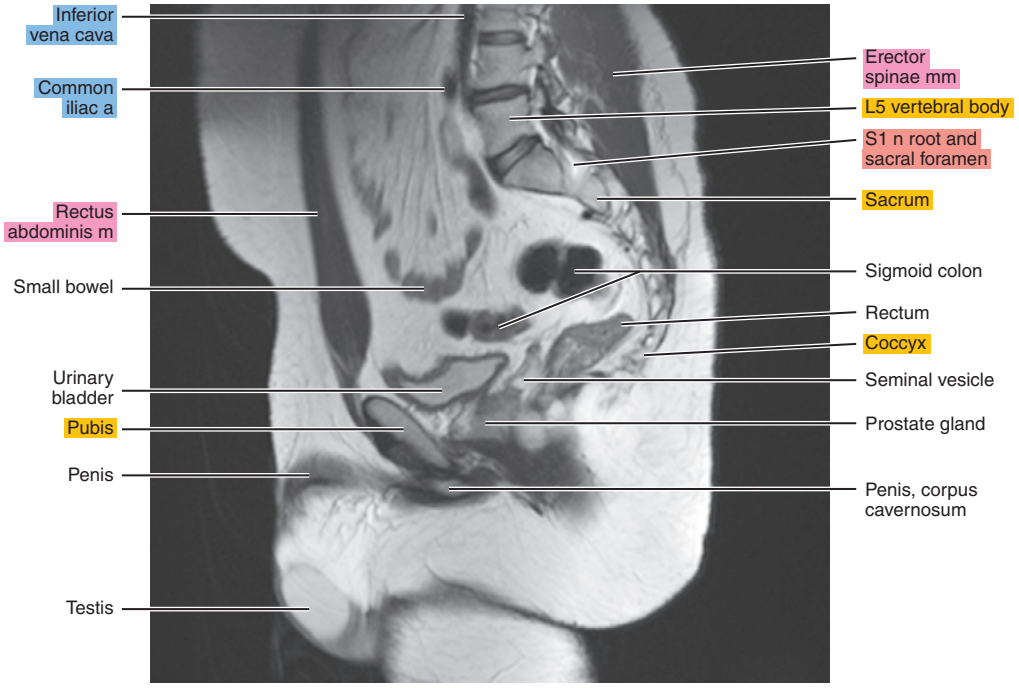

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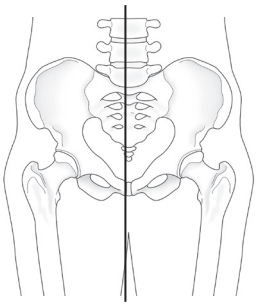

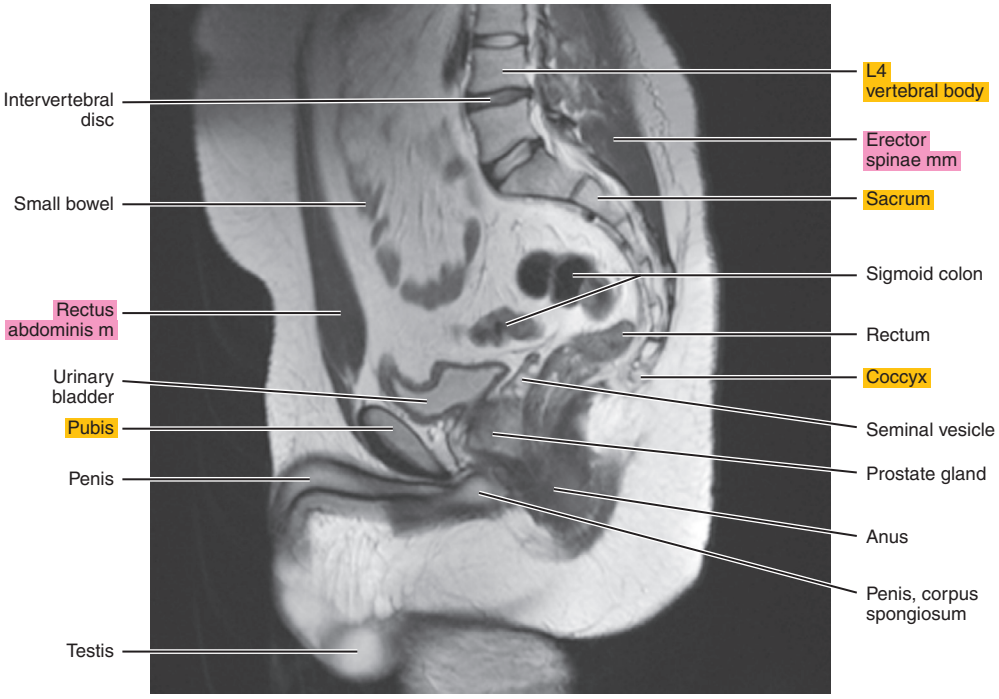

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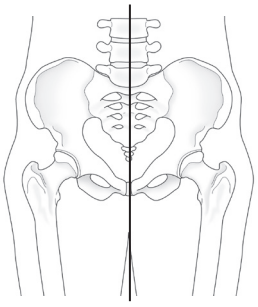

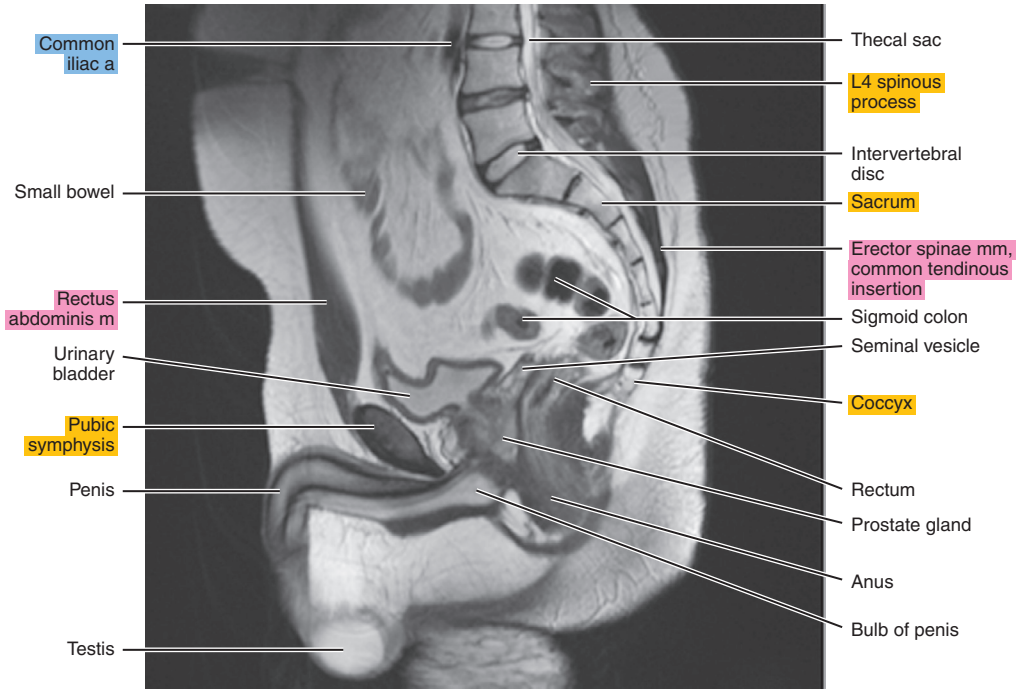

CORONAL

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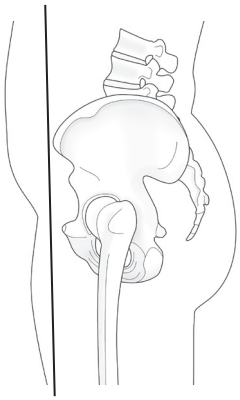

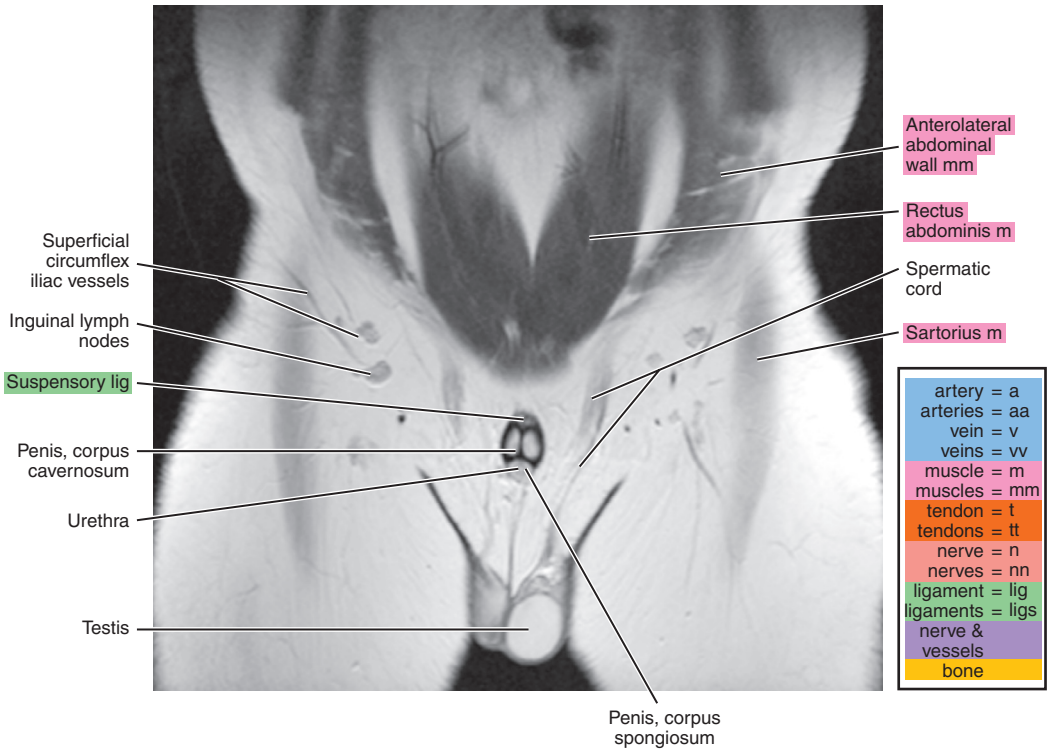

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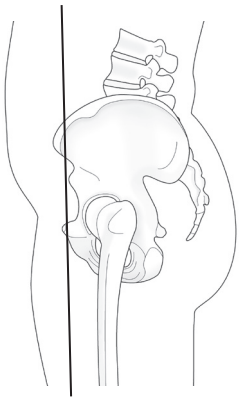

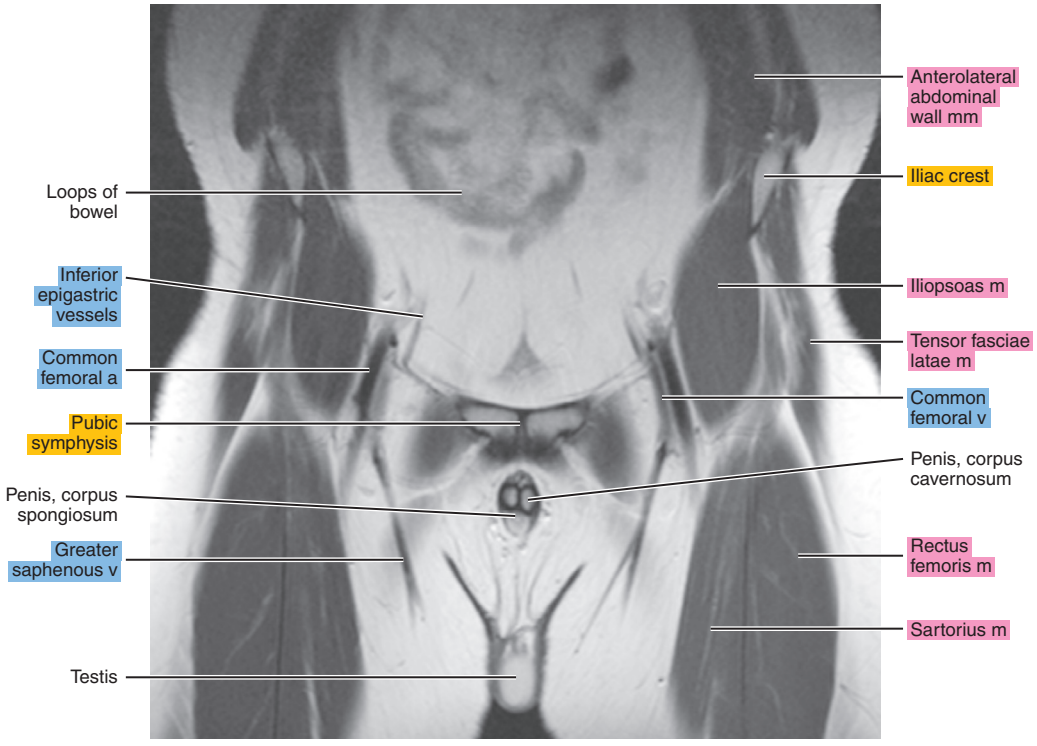

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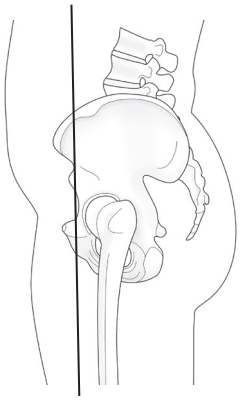

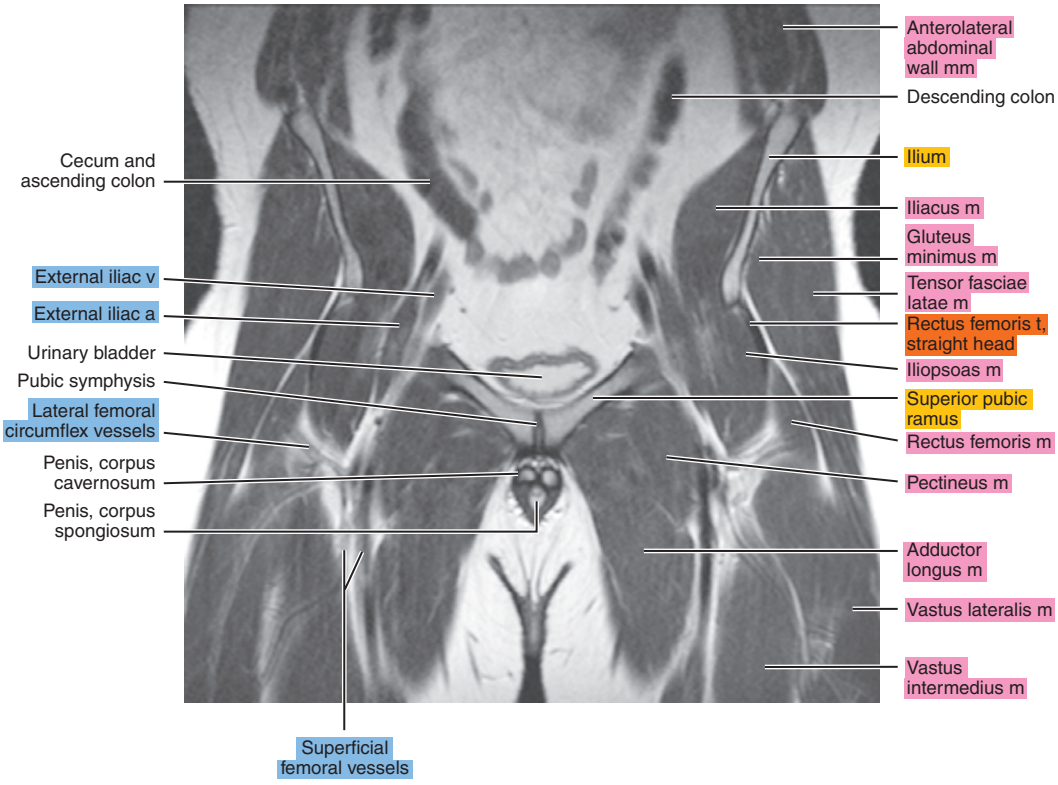

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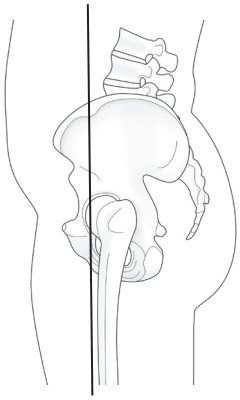

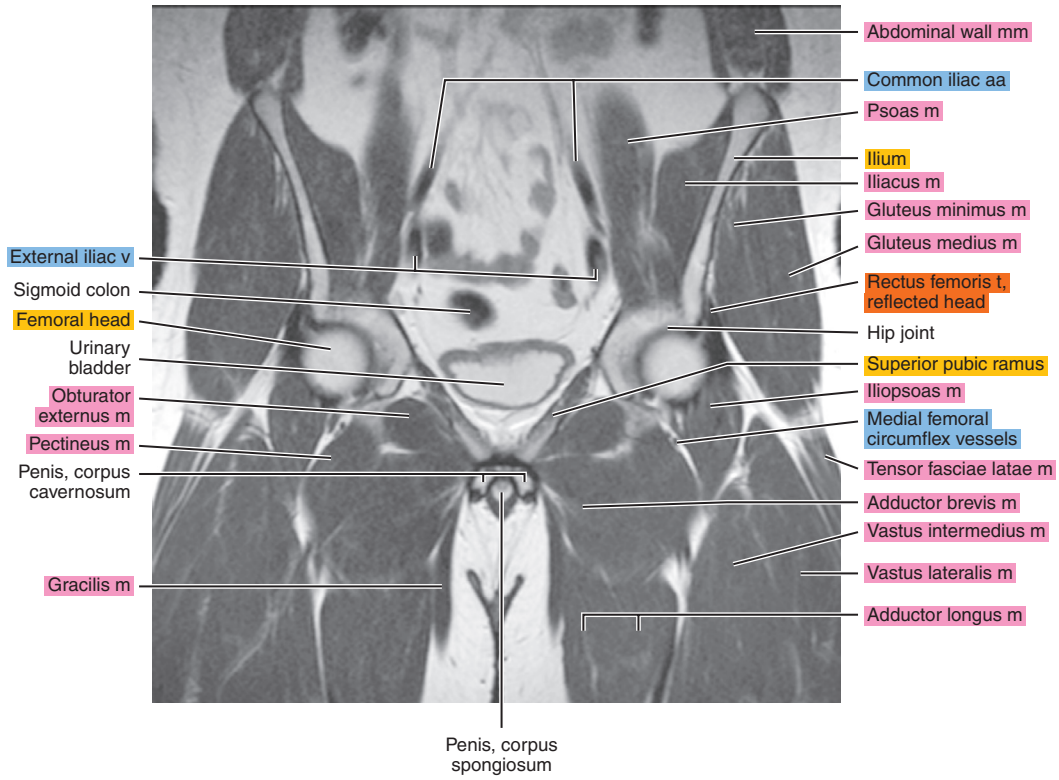

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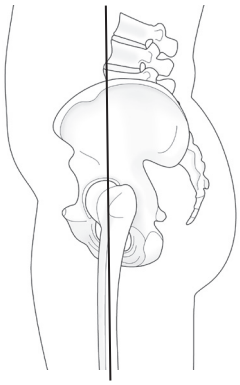

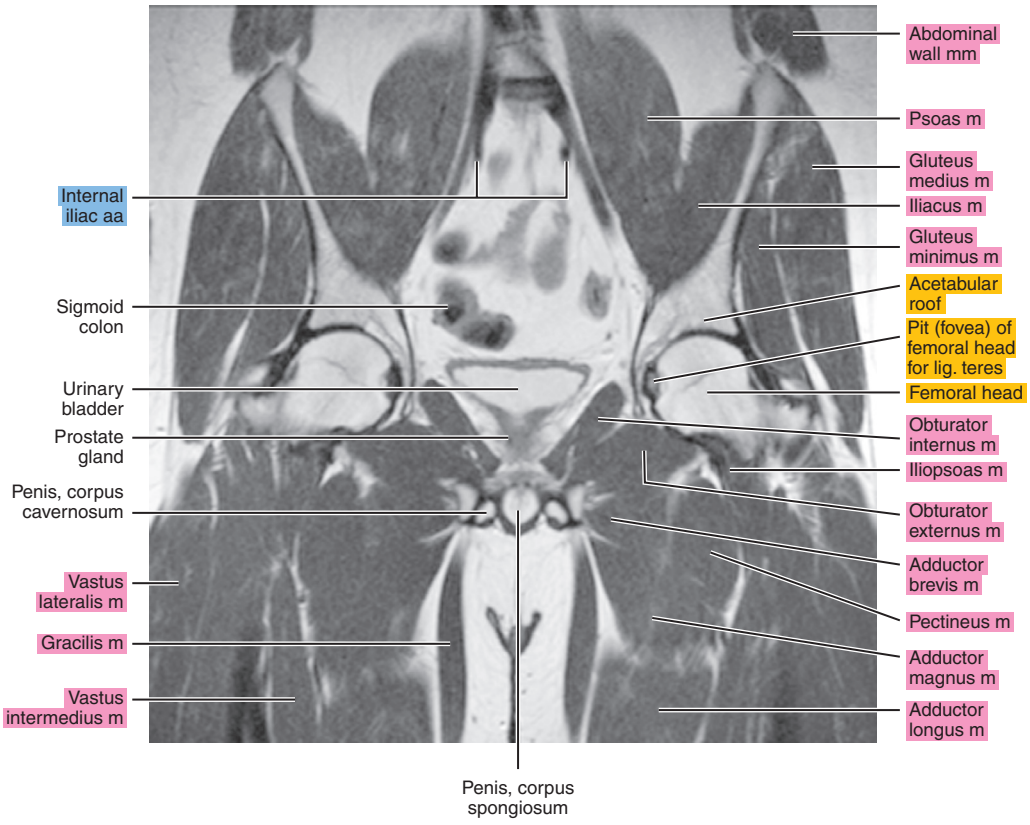

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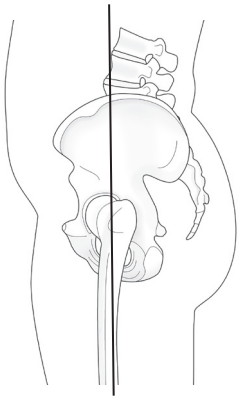

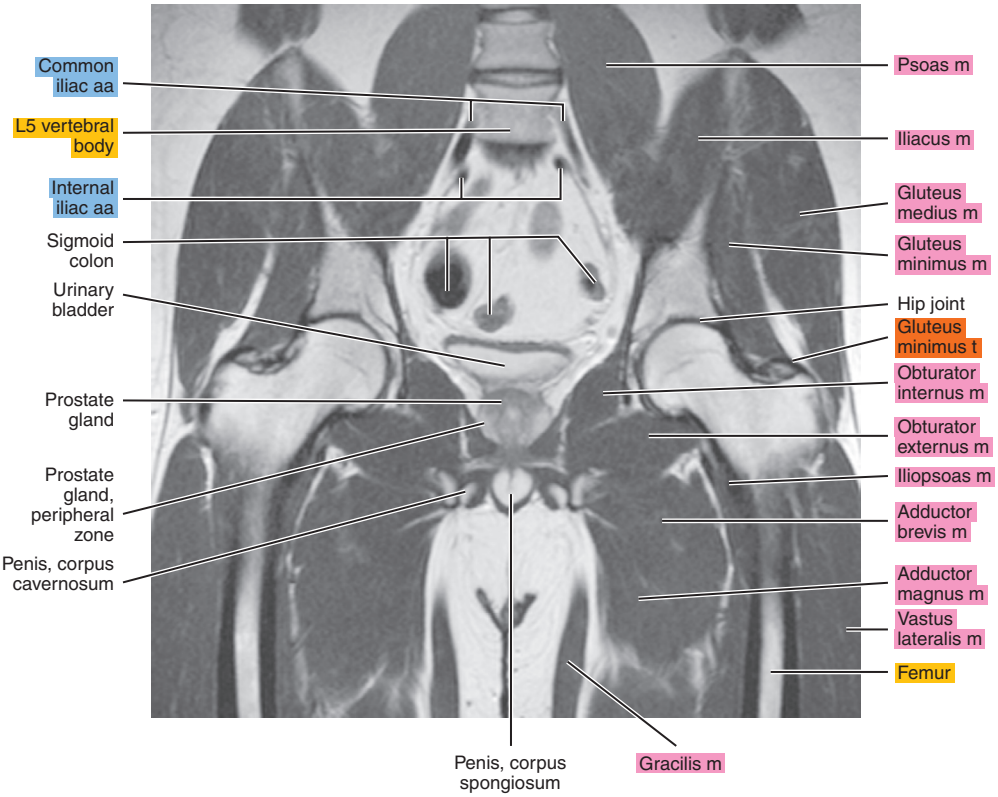

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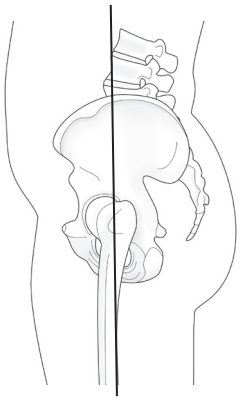

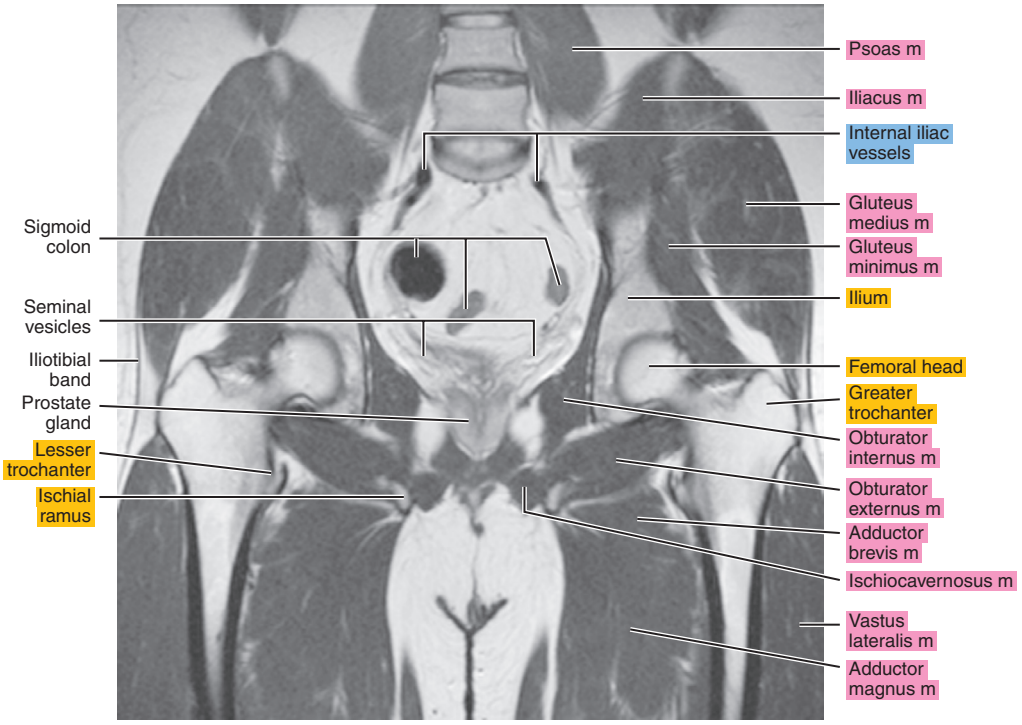

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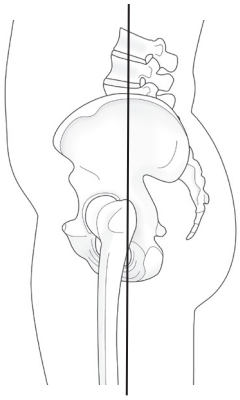

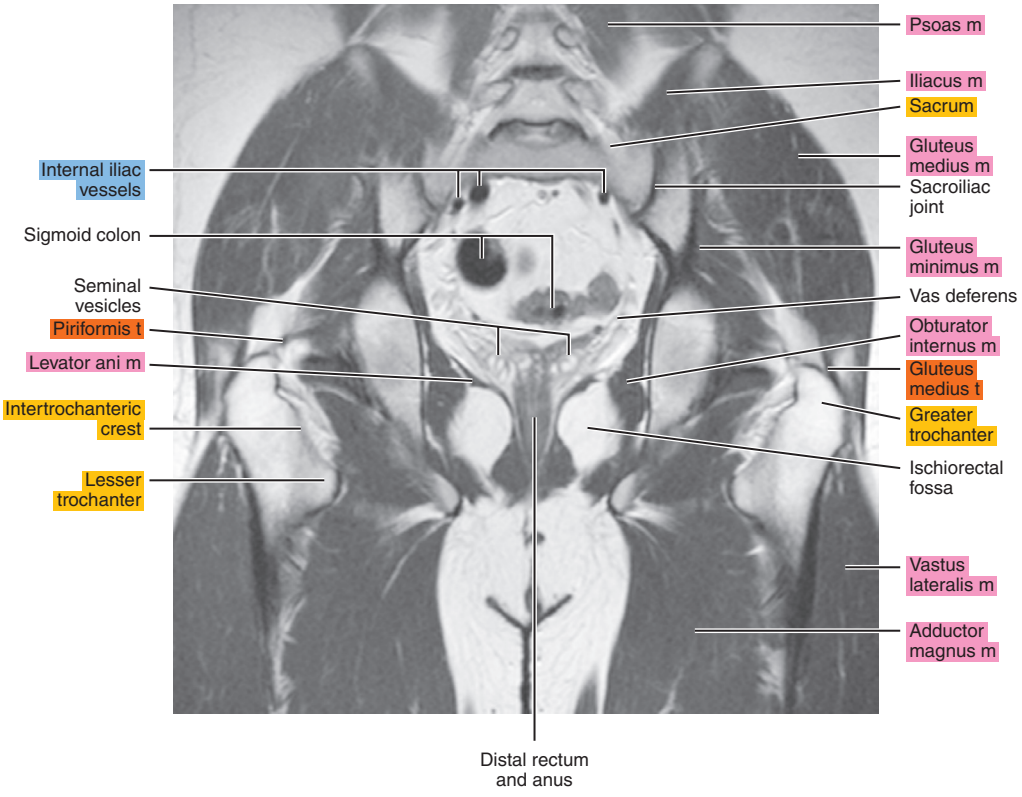

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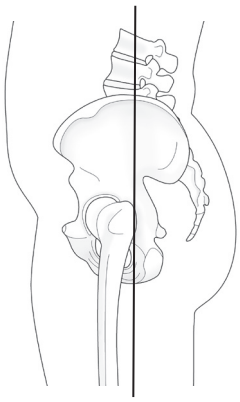


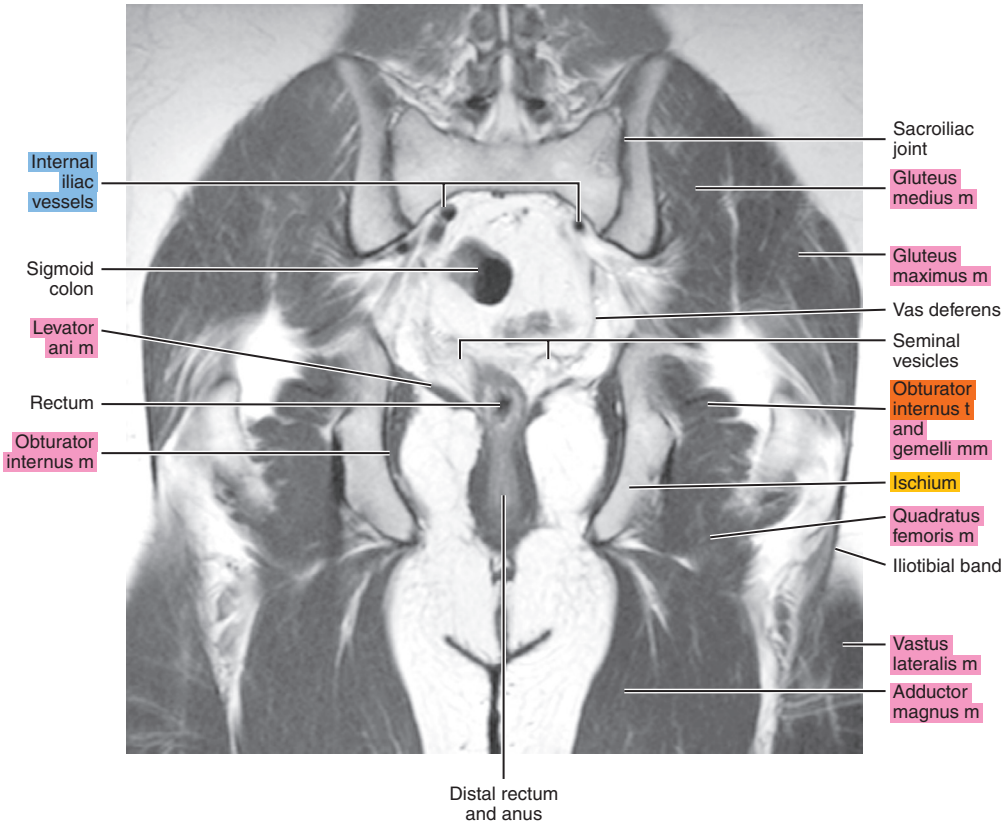
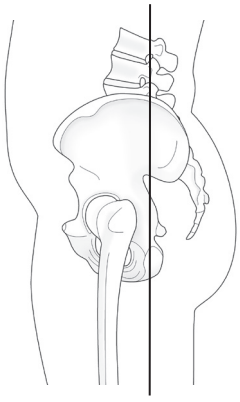
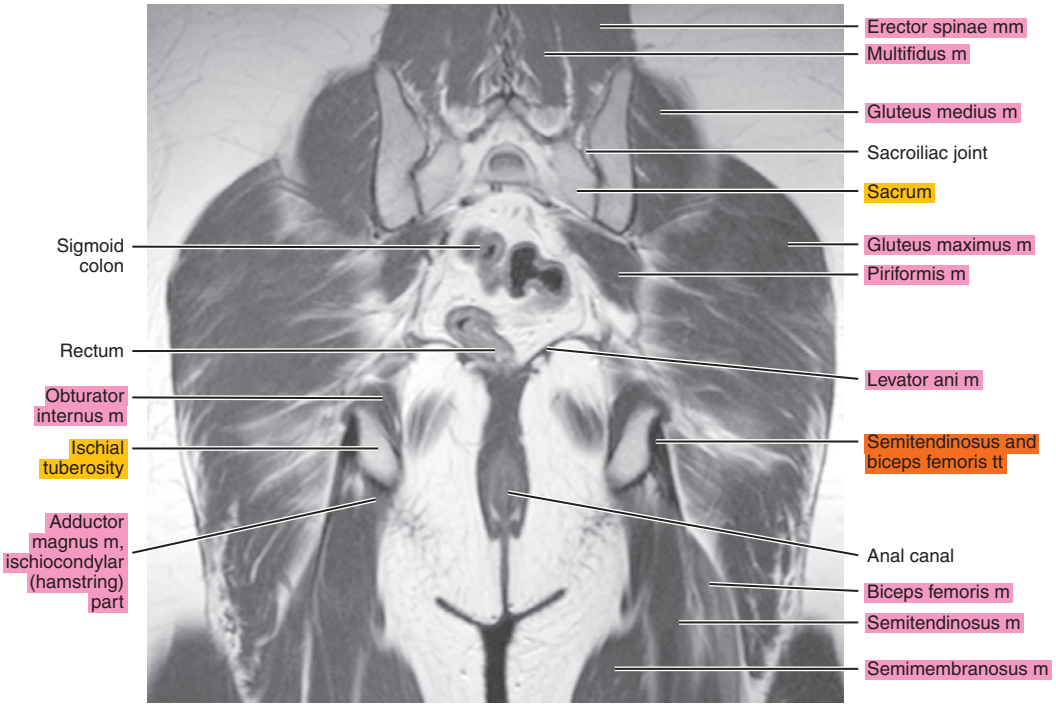


Figure 24.3.10





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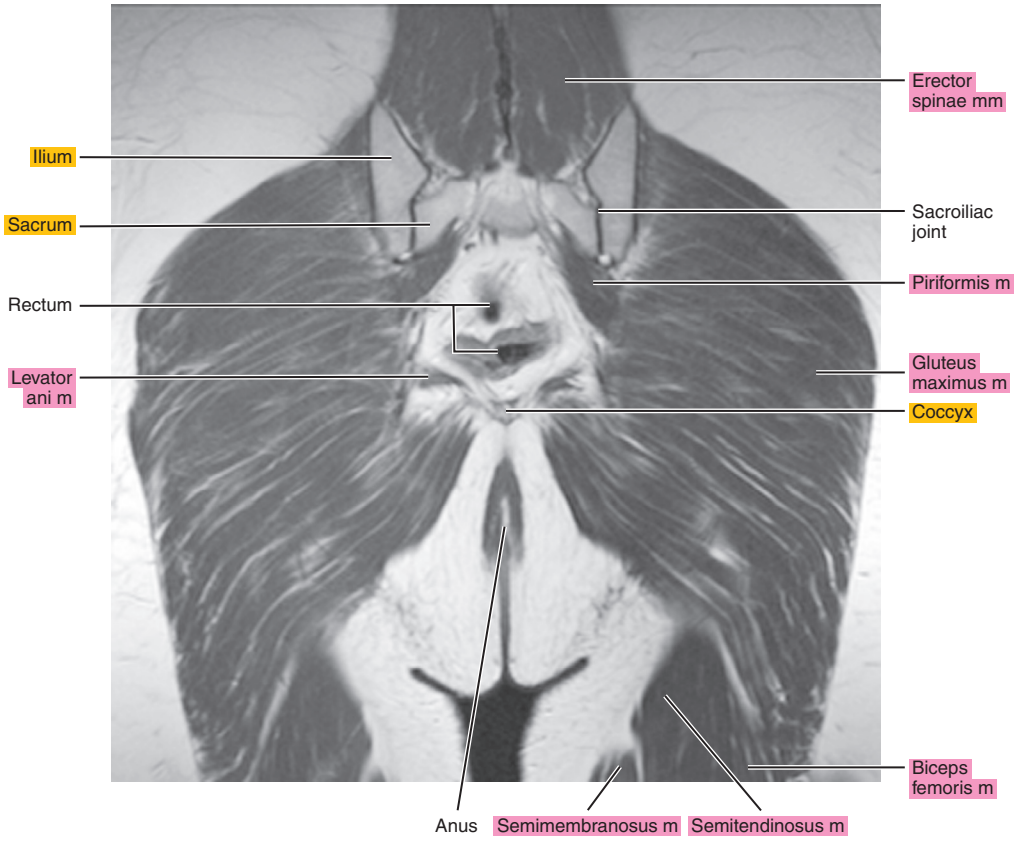

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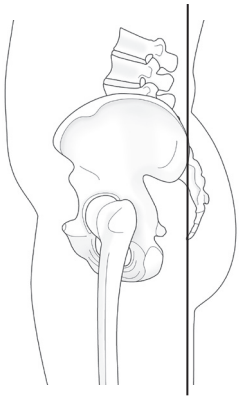
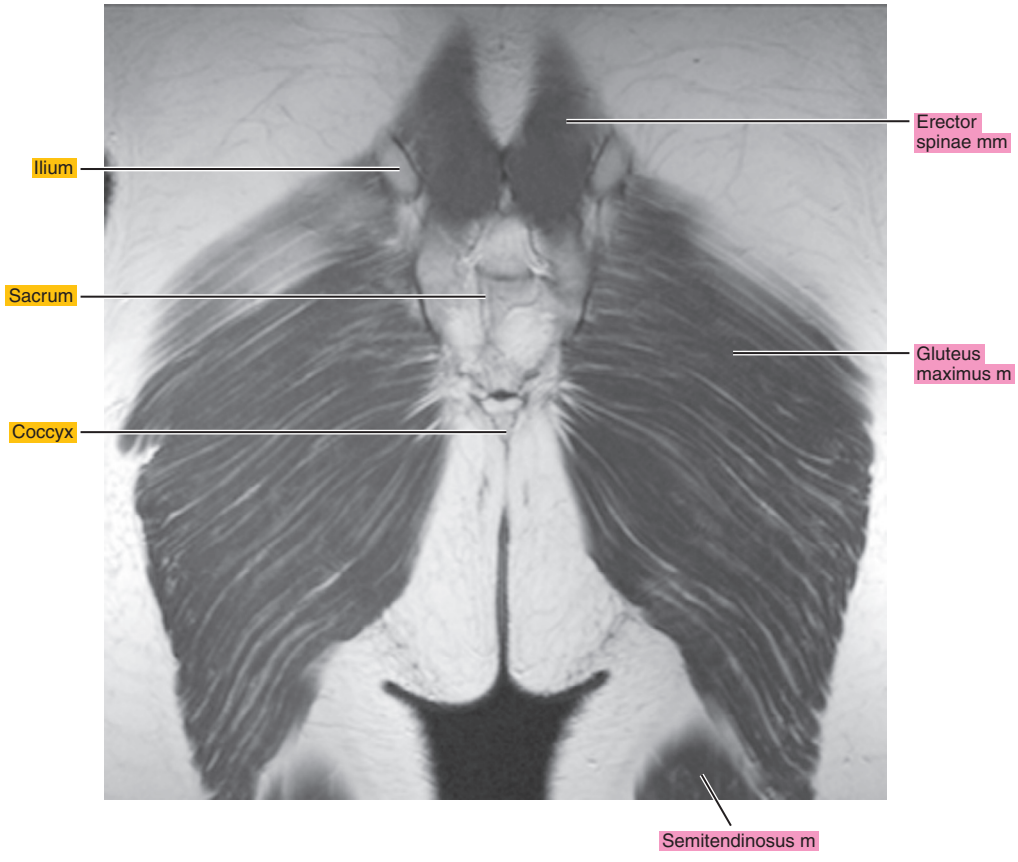




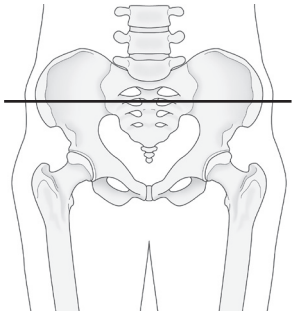
Chapter

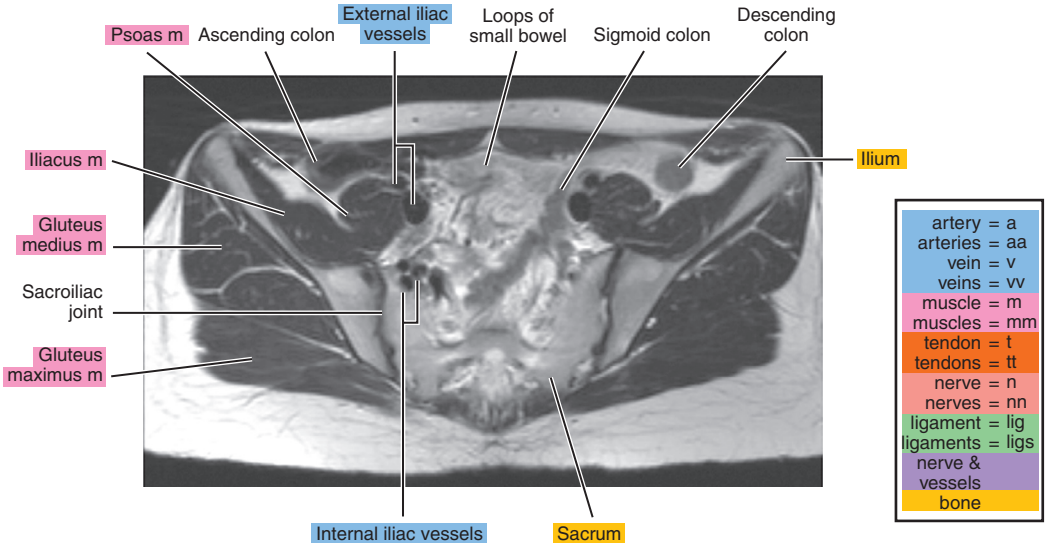
25

MRI of the Female Pelvis

AXIAL

Figure 25.1.1





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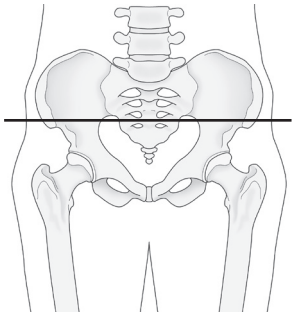

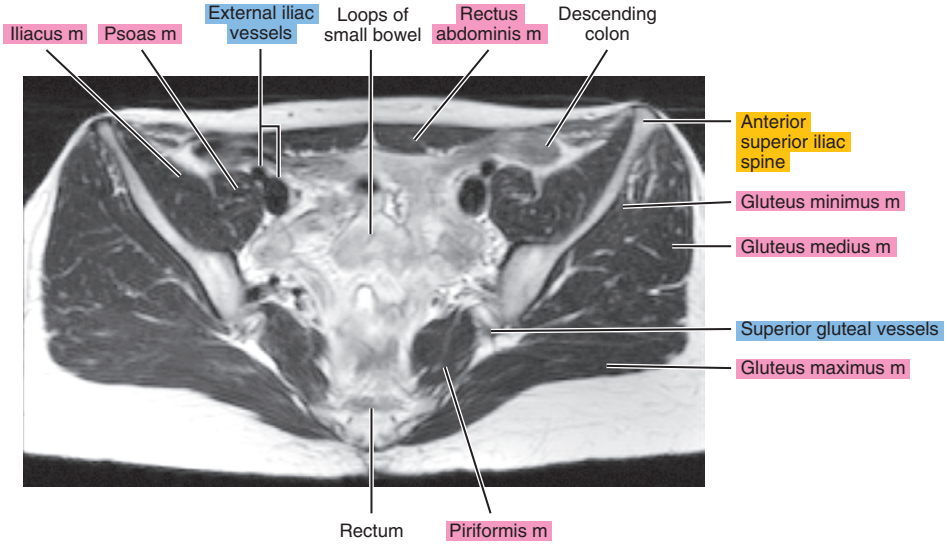

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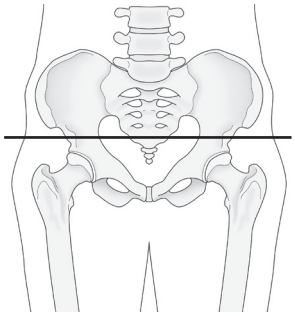

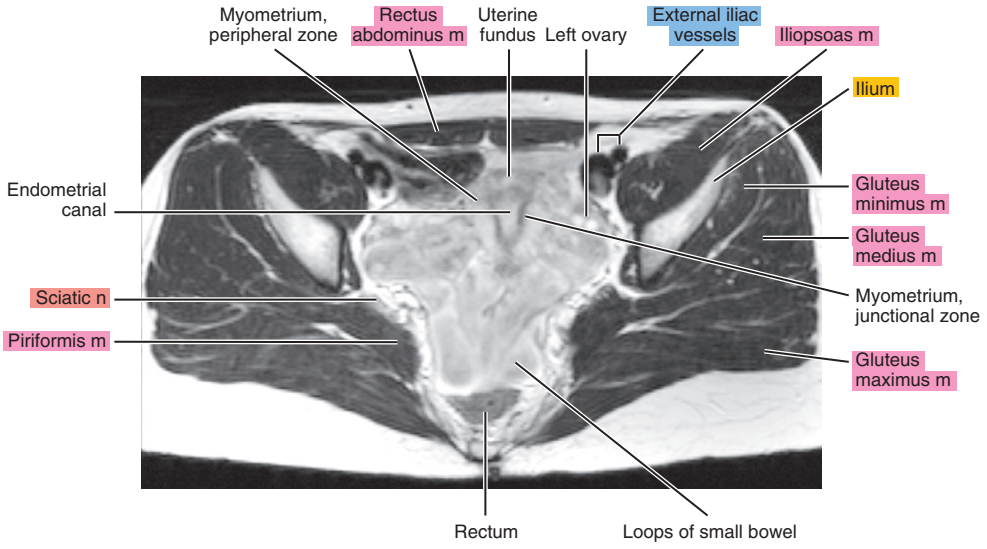

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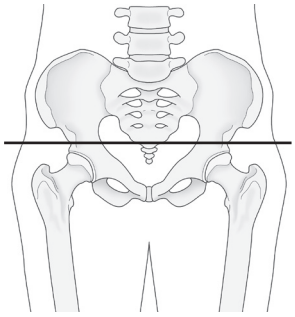

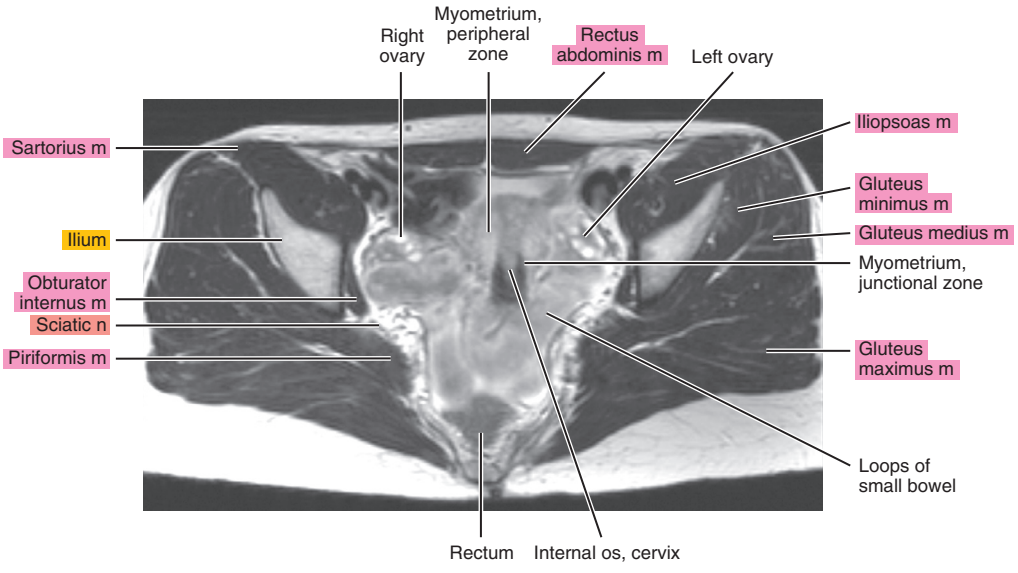

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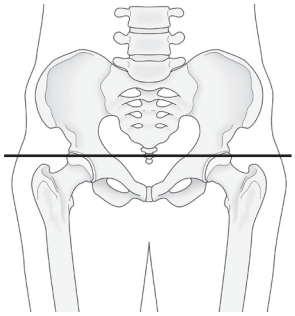

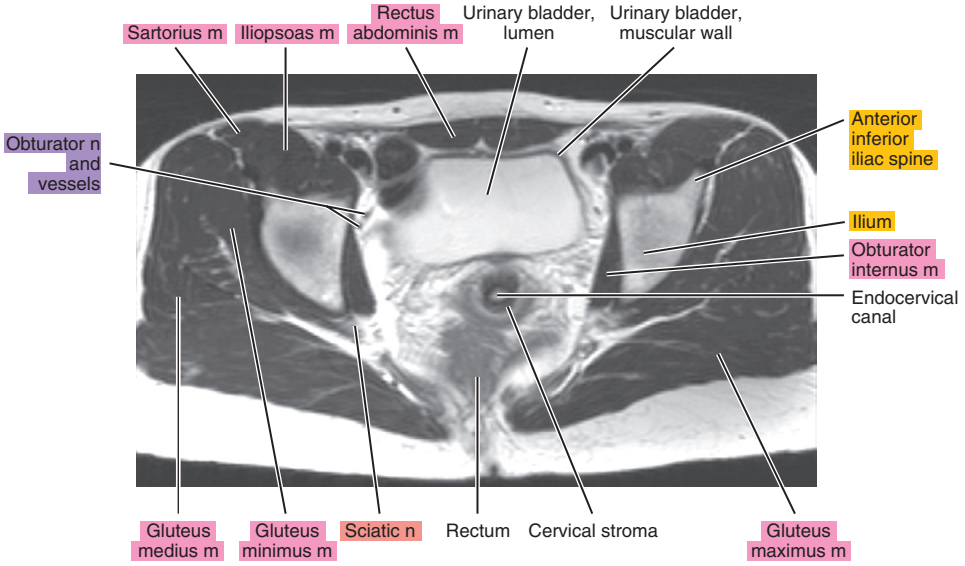

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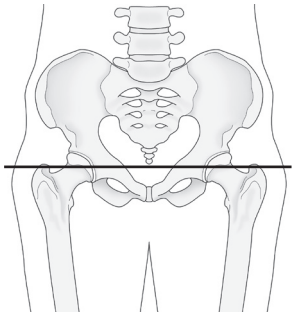

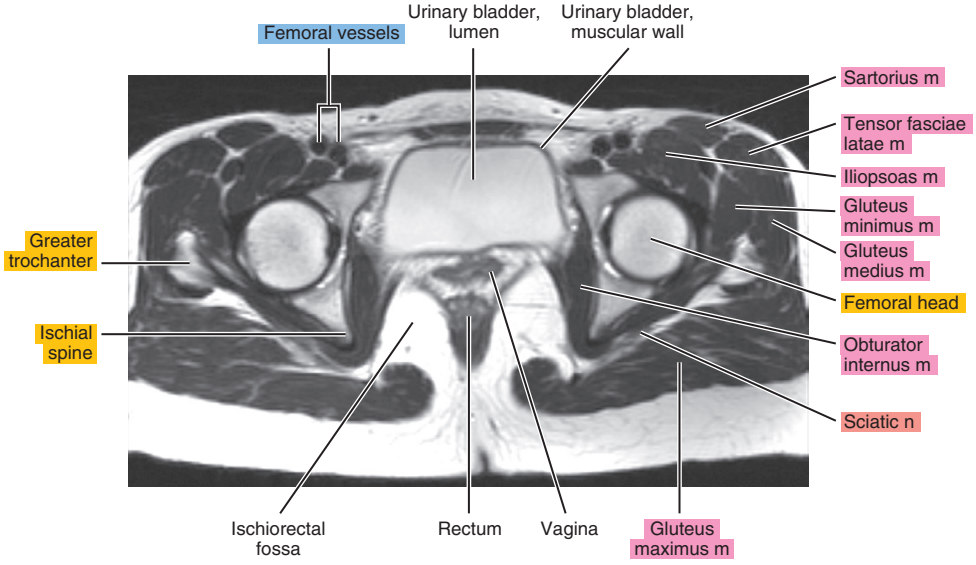

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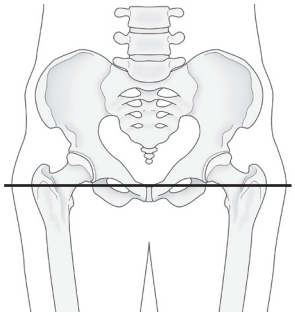

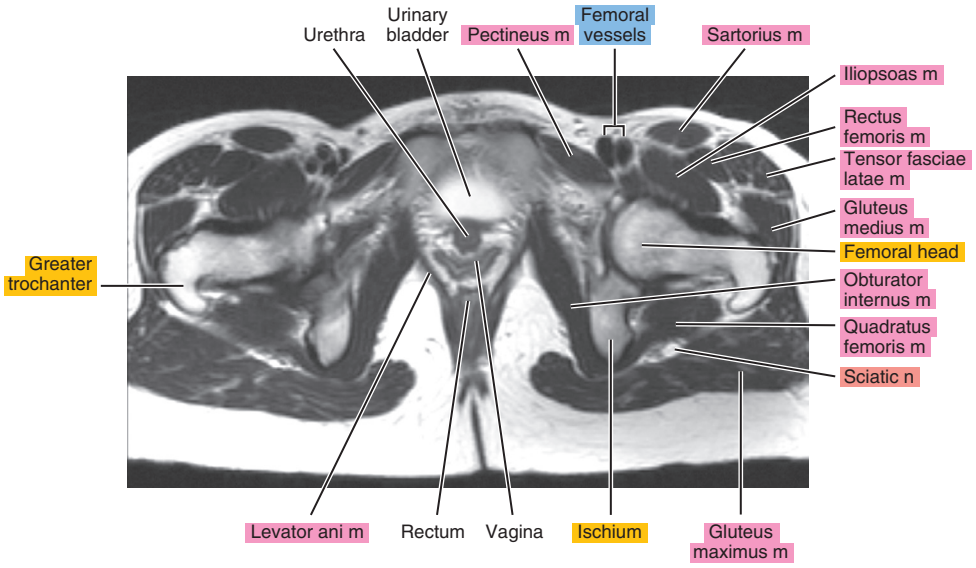

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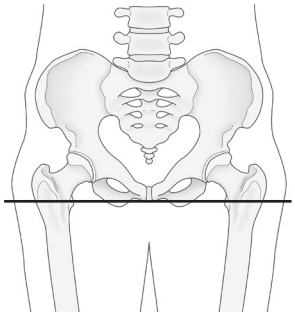
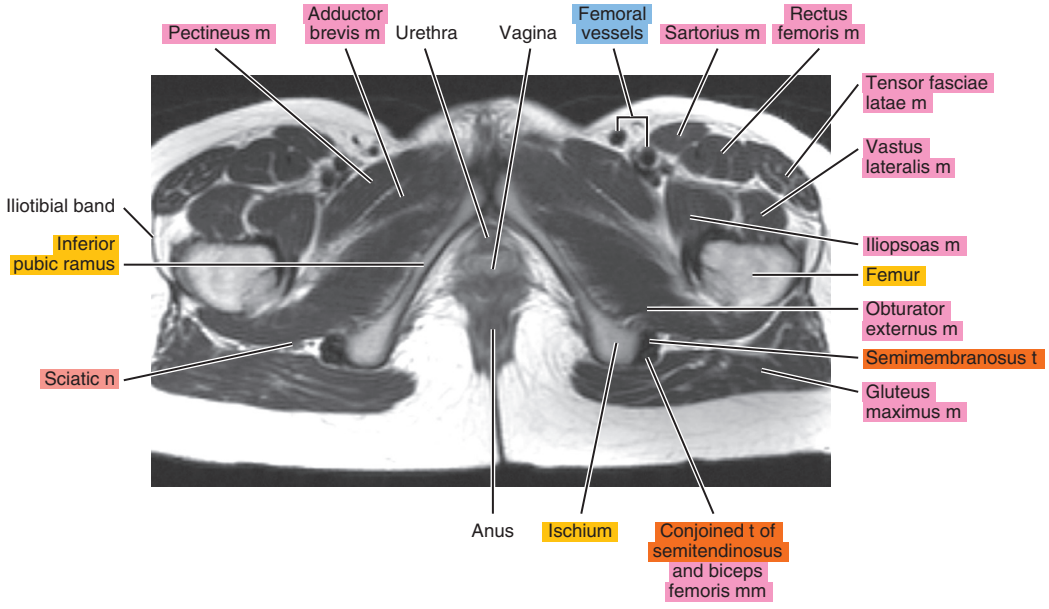
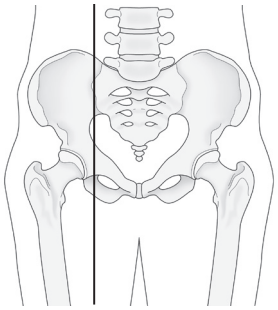
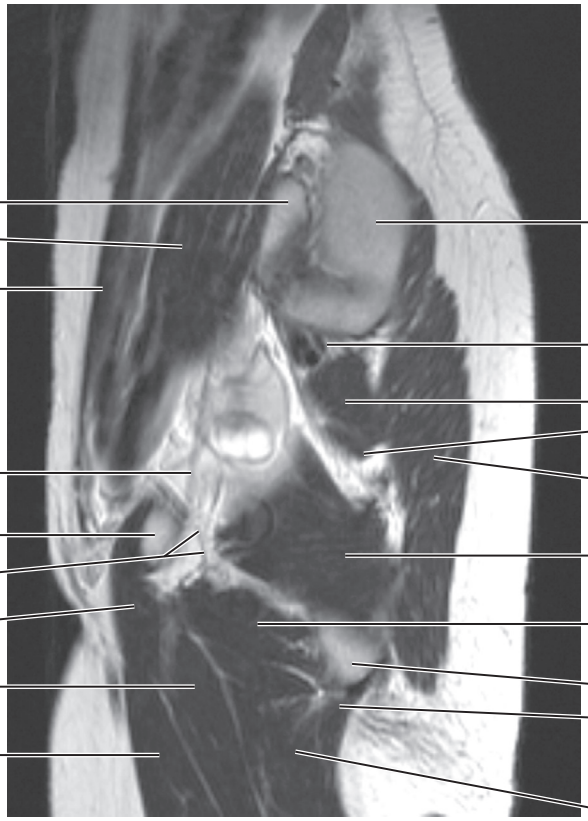




SAGITTAL

Figure 25.2.1





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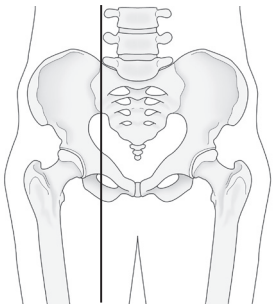

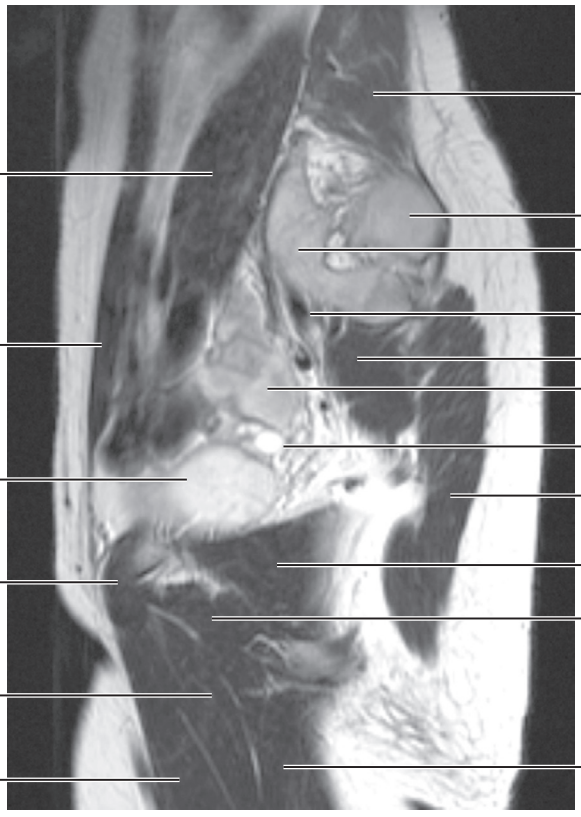

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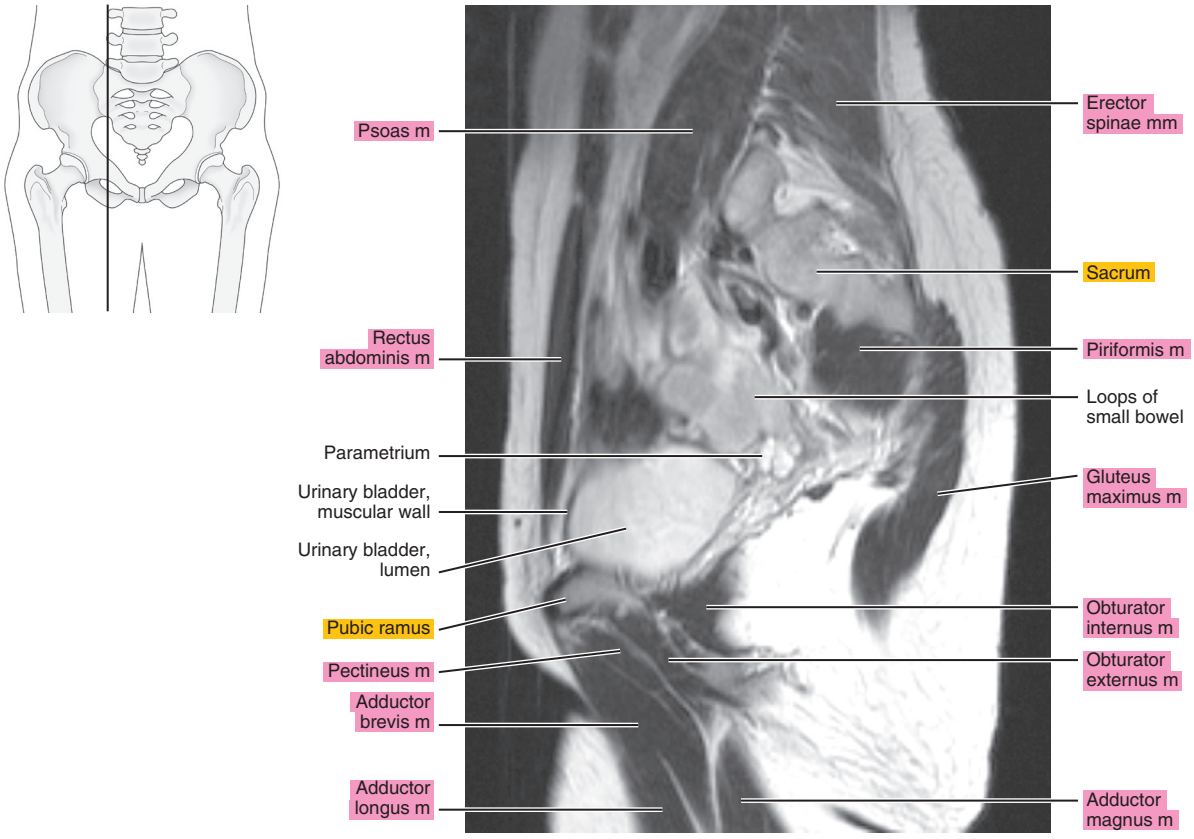

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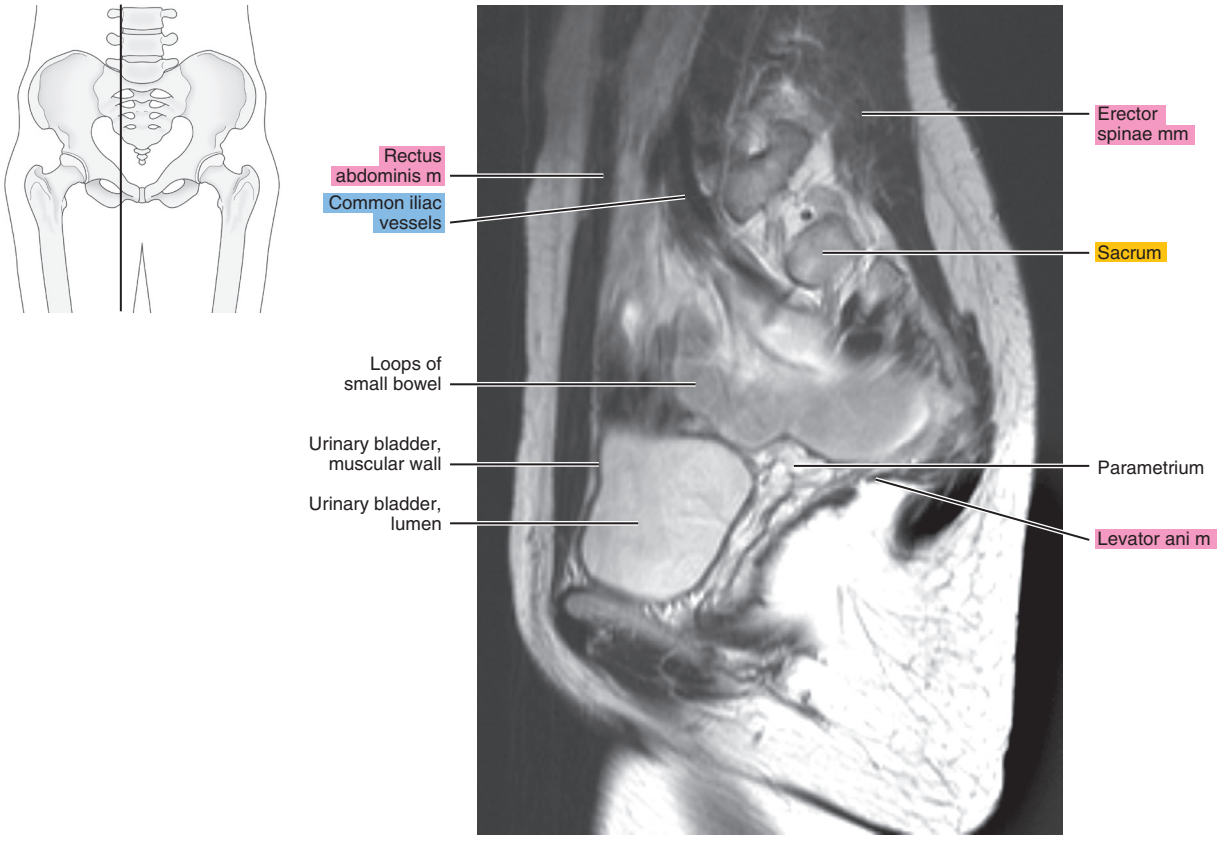

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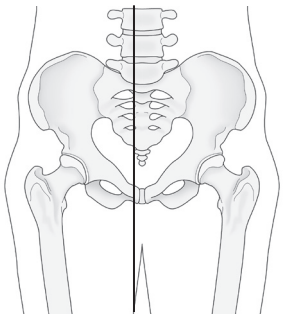

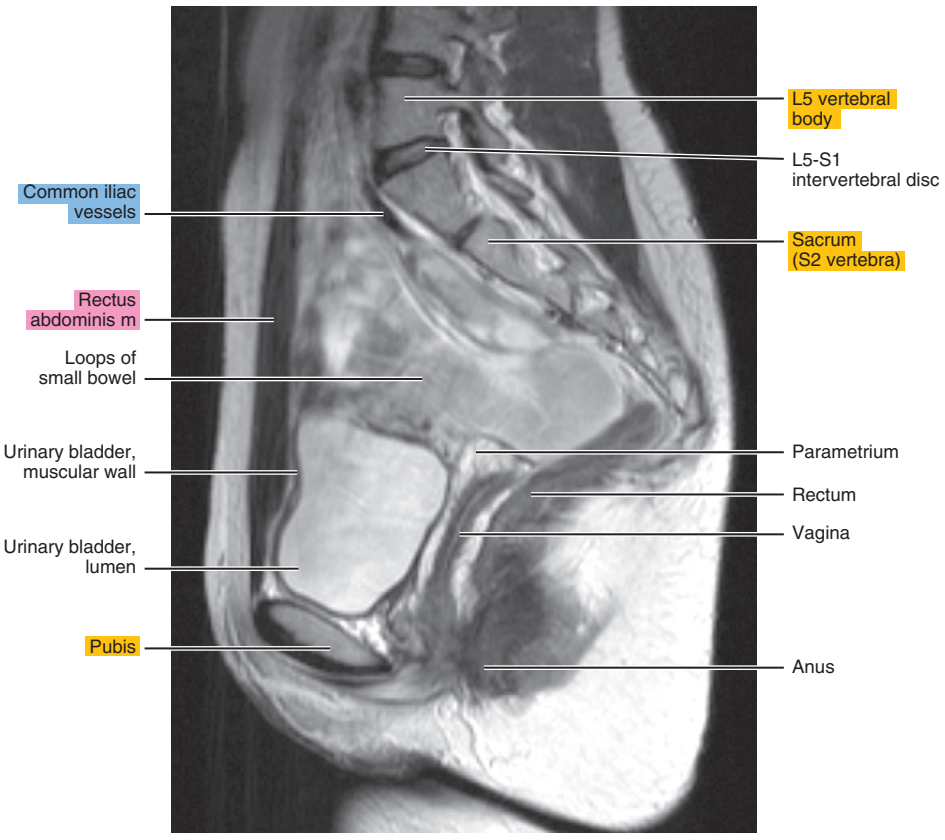

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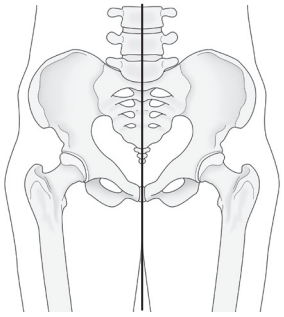

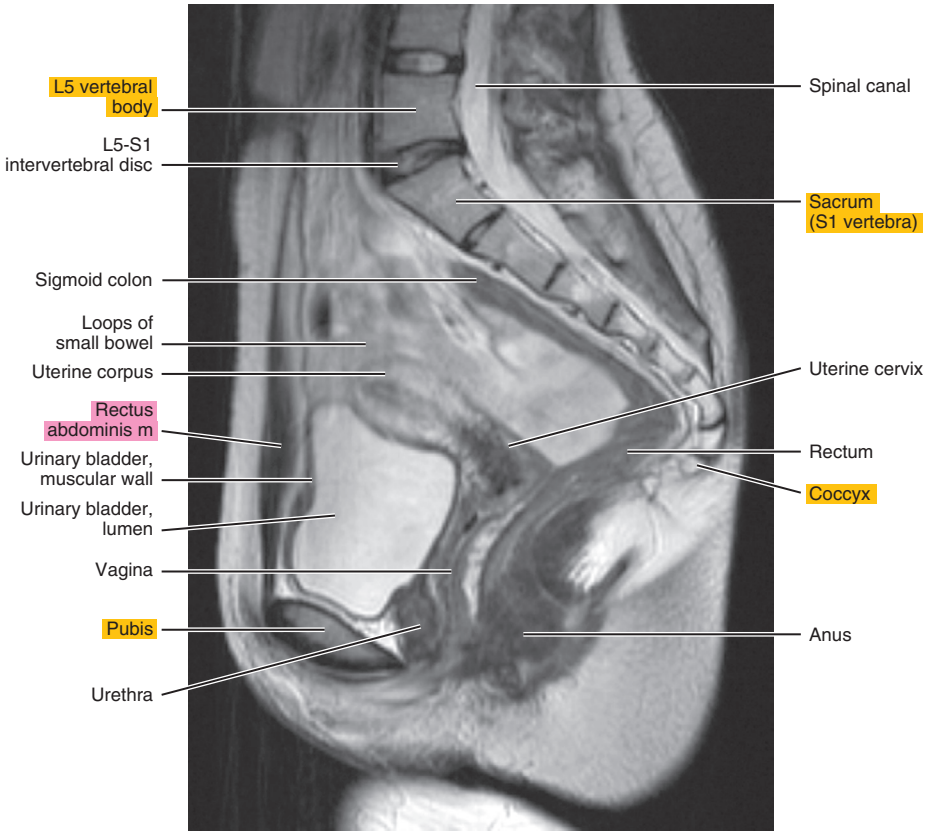

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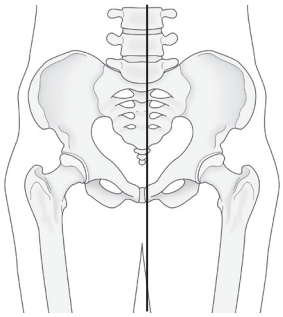
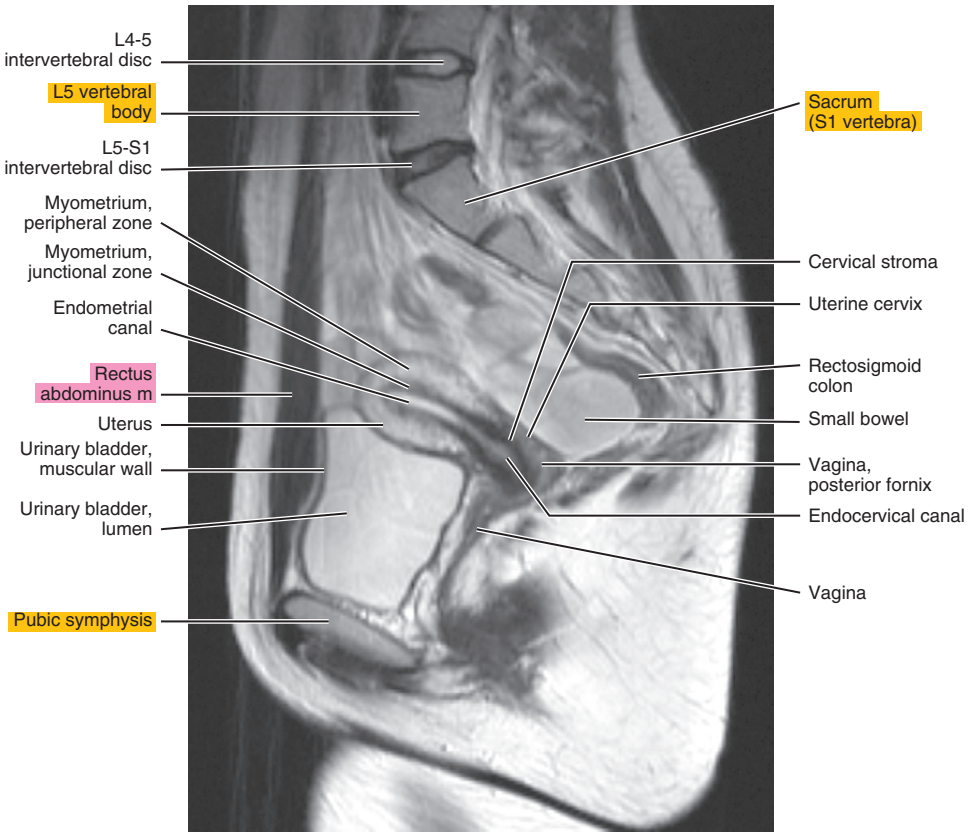
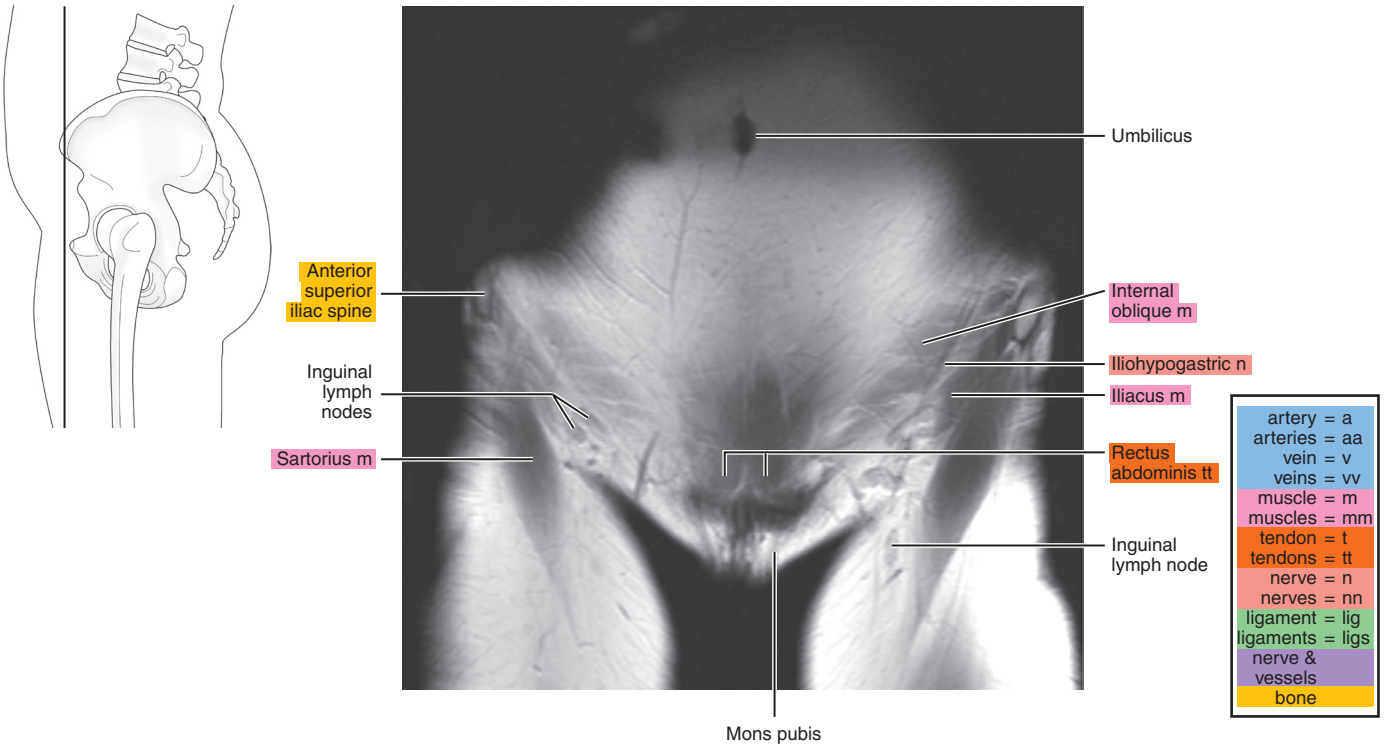



L4-5 intervertebral disc
L5 vertebral body
L5-S1 intervertebral disc
Myometrium, peripheral zone
Myometrium, junctional zone
Endometrial canal
Rectus abdominus m
Uterus
Urinary bladder, muscular wall
Urinary bladder, lumen
Pubic symphysis
Sacrum (S1 vertebra)
Cervical stroma
Uterine cervix
Rectosigmoid colon
Small bowel
Vagina, posterior fornix
Endocervical canal
Vagina

CORONAL

Figure 25.3.1



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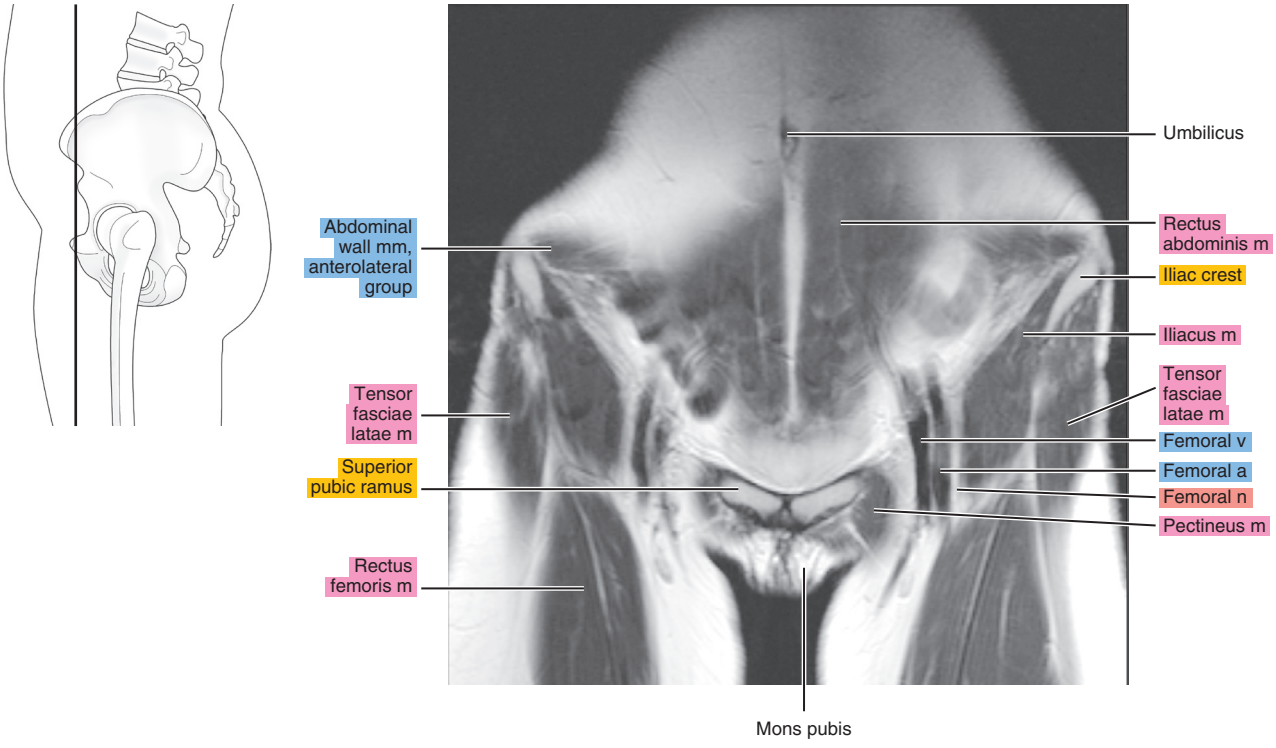

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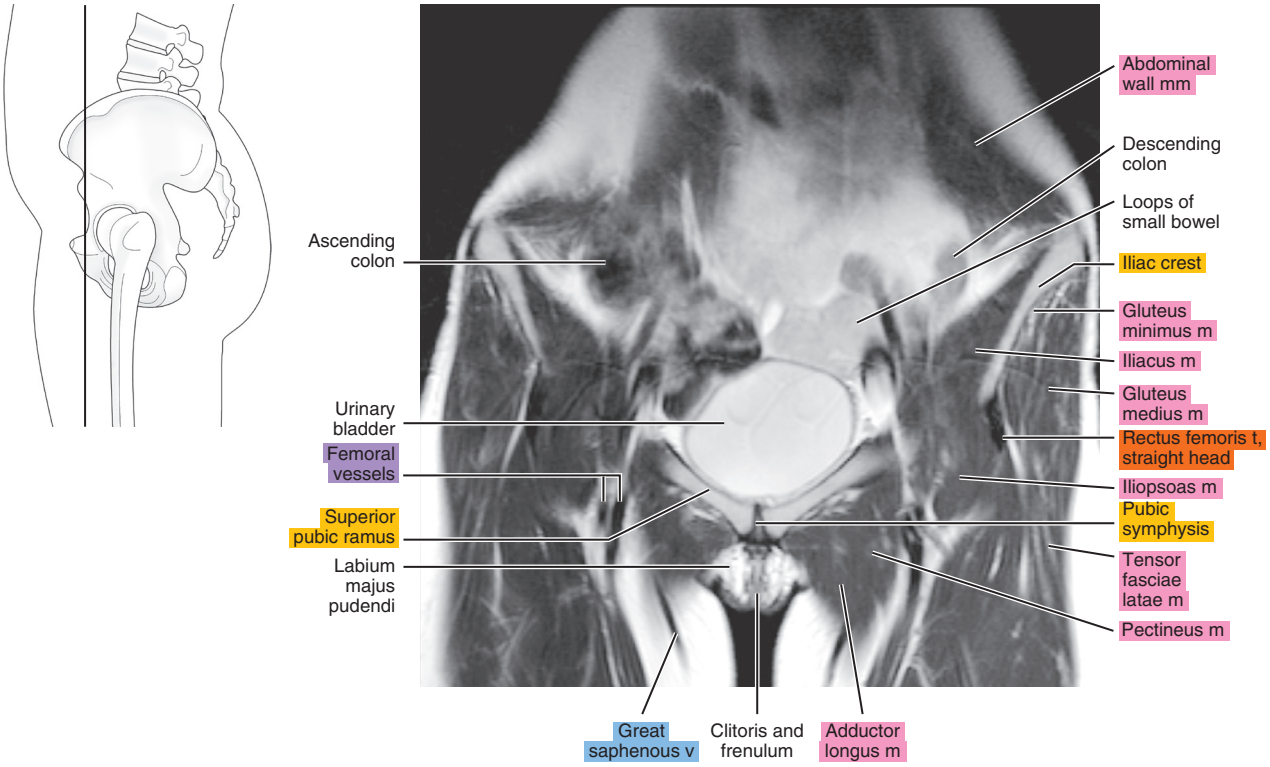

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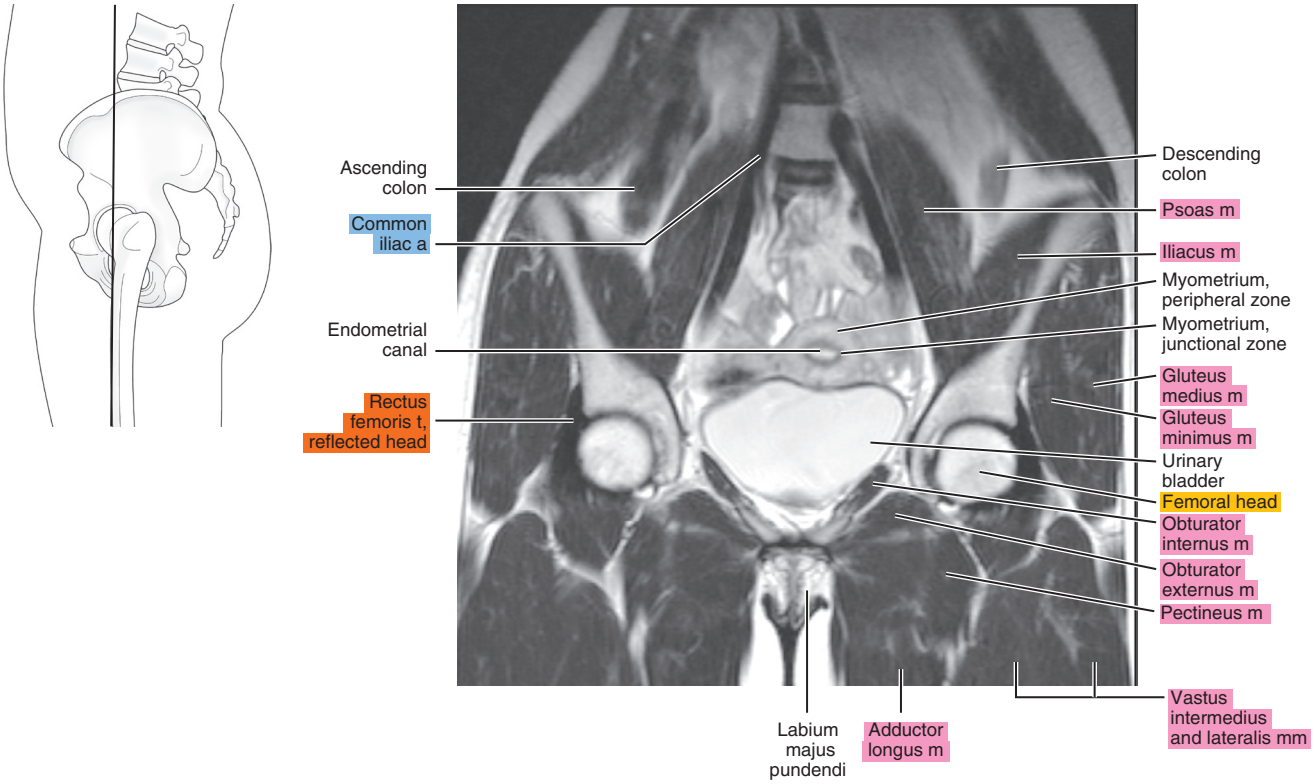

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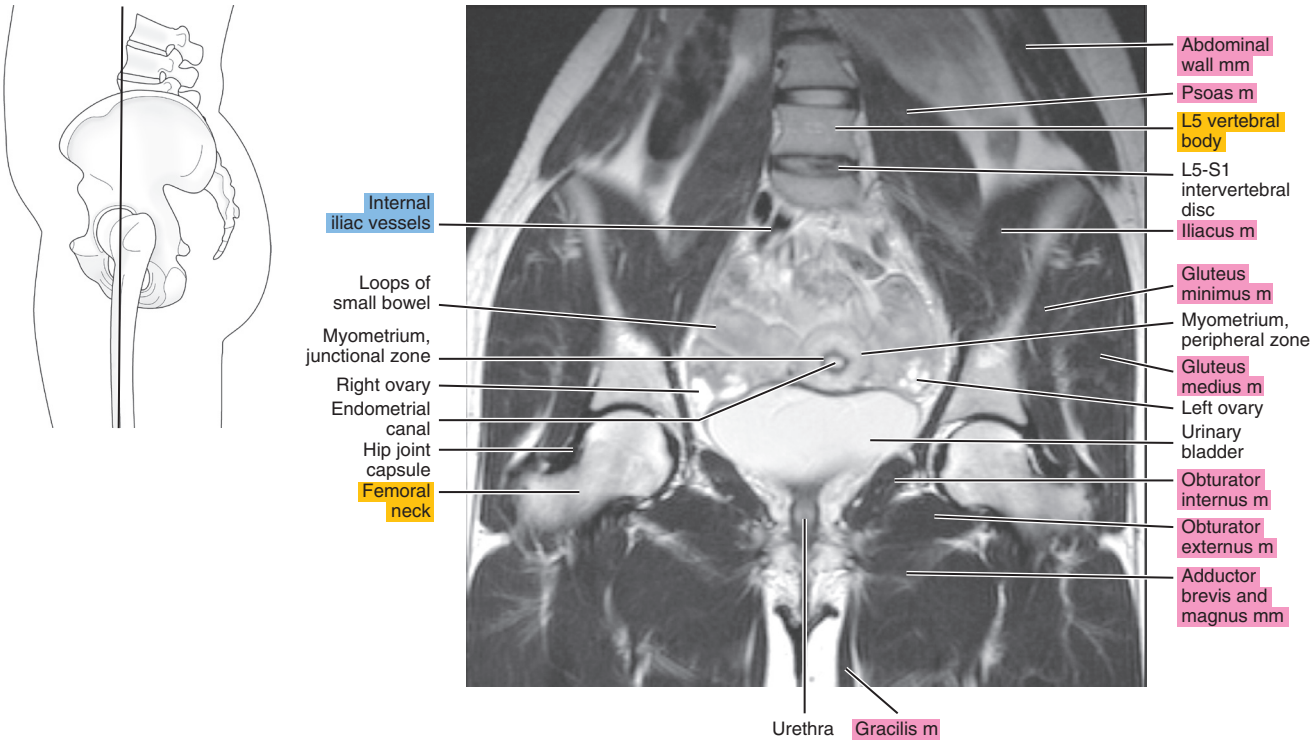

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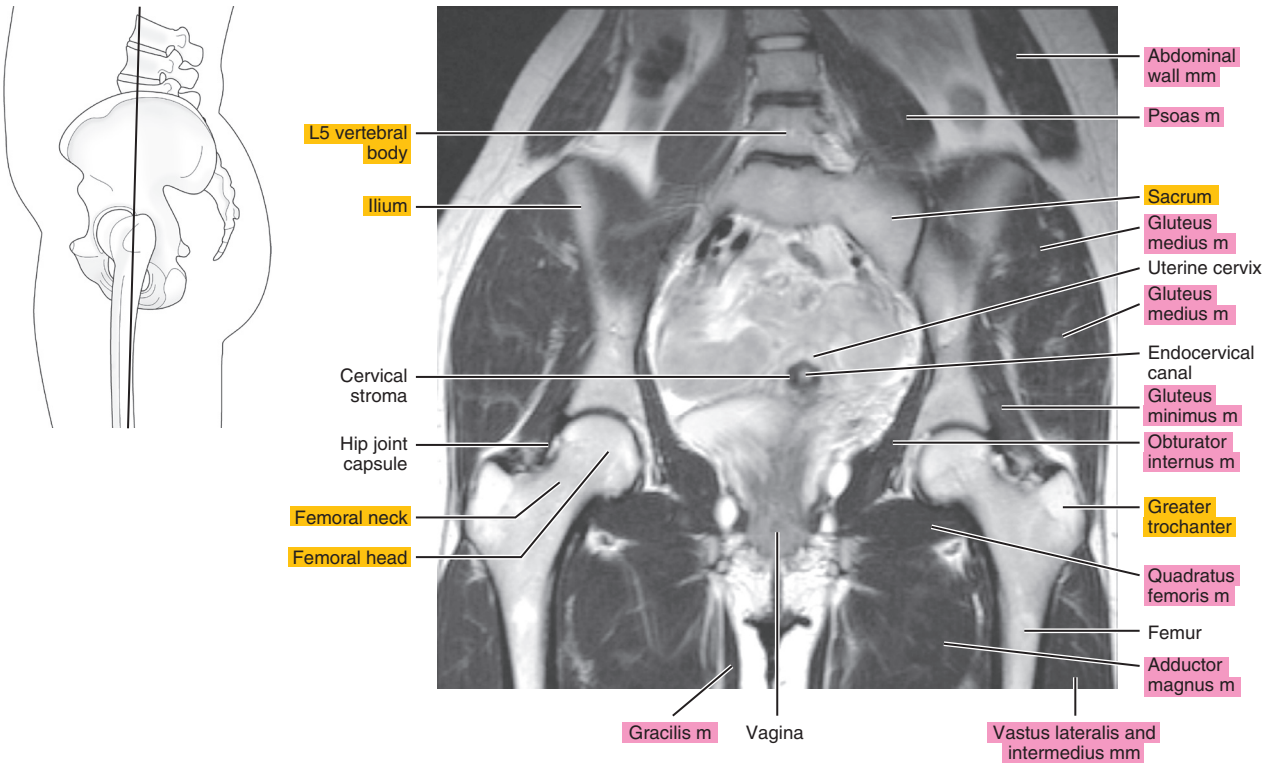

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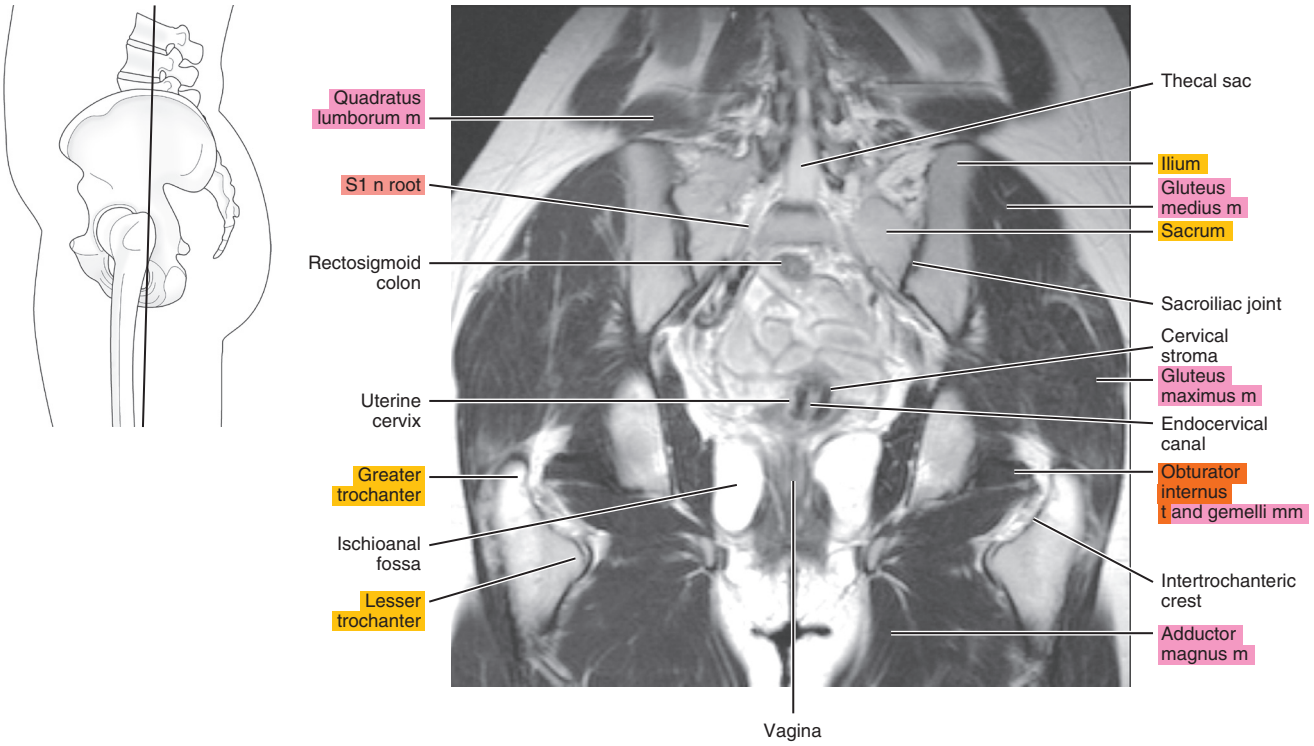

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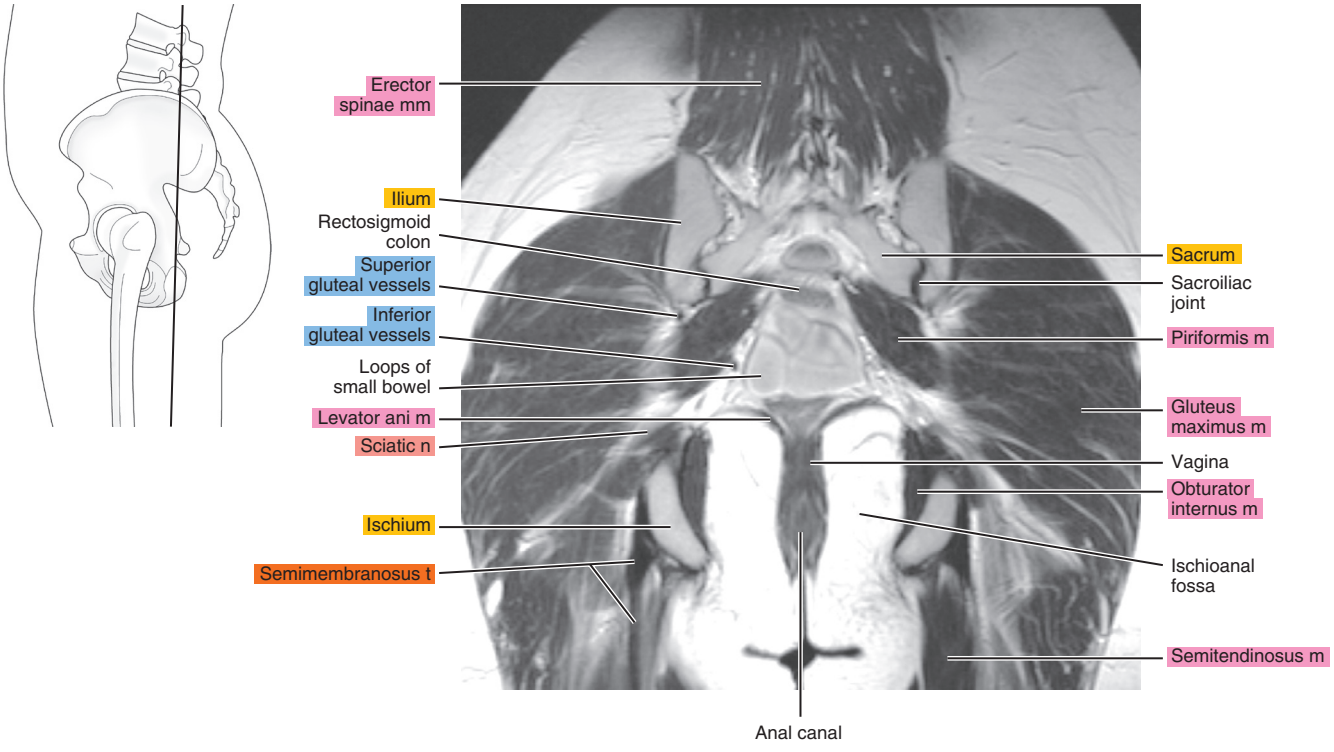

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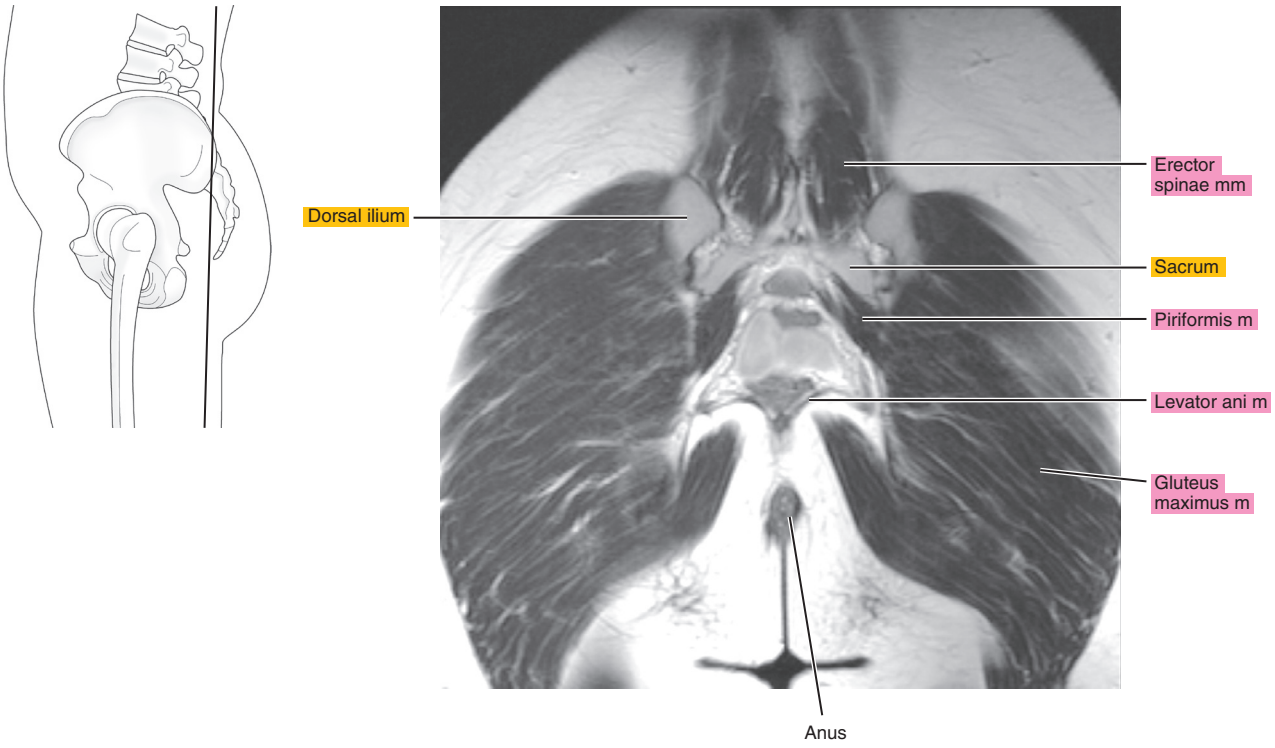
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Erector spinae mm
Sacrum
Piriformis m
Levator ani m
Gluteus maximus m
Anus

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Note: Page numbers followed by *t* indicate tables. *a.* = artery; *ABER* = abduction external rotation; *lig.* = ligament; *ligs.* = ligaments; *m.* = muscle; *n.* = nerve; *t.* = tendon; *v.* = vein

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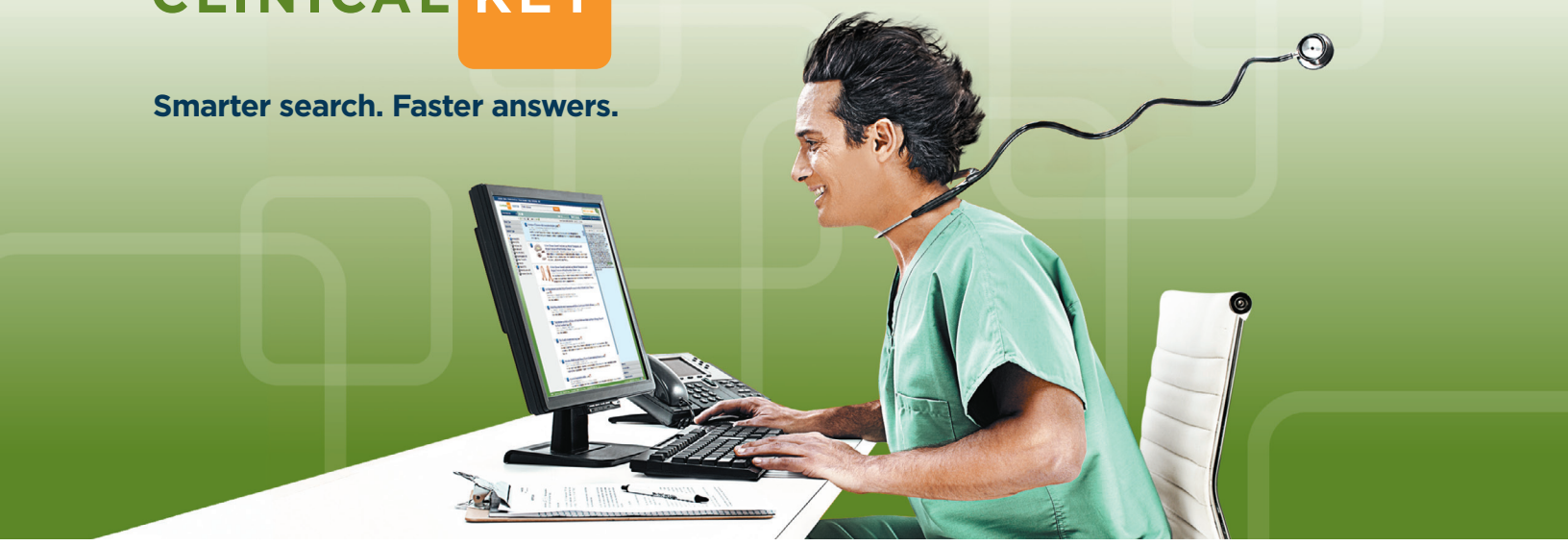

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