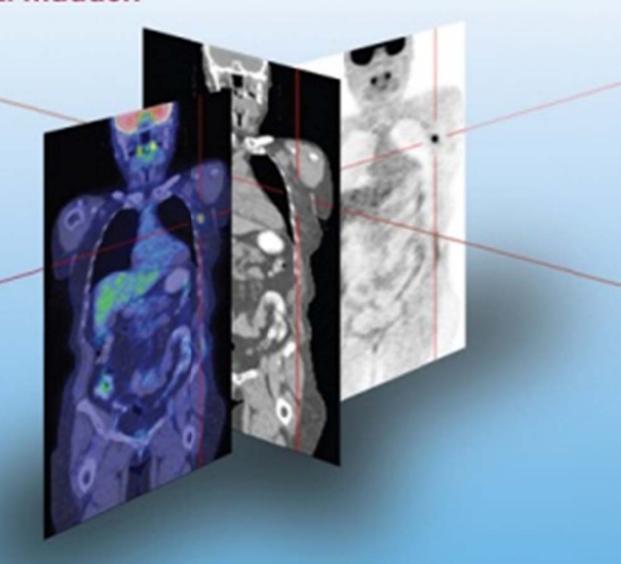
Introduction to Sectional Anatomy

WORKBOOK and BOARD REVIEW GUIDE

Second Edition

Michael E. Madden







Introduction to Sectional Anatomy WORKBOOK and REVIEW GUIDE

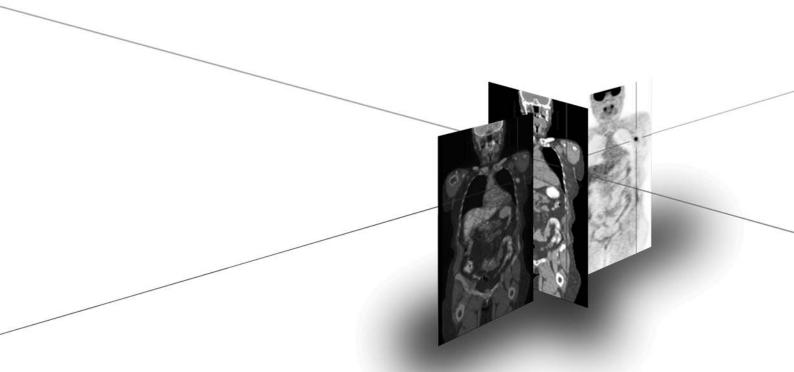
Second Edition

Introduction to Sectional Anatomy WORKBOOK and REVIEW GUIDE

Second Edition

Mike E. Madden, PhD, RT(R) (CT) (MR)

Director Medical Diagnostic Imaging Programs Fort Hays State University Hays, Kansas



Wolters Kluwer Lippincott Williams & Wilkins

Acquisitions Editor: Peter Sabatini Managing Editor: Andrea M. Klingler Marketing Manager: Allison Noplock Production Editor: Kevin P. Johnson

Designer: Teresa Mallon Compositor: Aptara, Inc.

Second Edition

Copyright © 2008 Lippincott Williams & Wilkins, a Wolters Kluwer business.

351 West Camden Street 530 Walnut Street Baltimore, MD 21201 Philadelphia, PA 19106

All rights reserved. This book is protected by copyright. No part of this book may be reproduced or transmitted in any form or by any means, including as photocopies or scanned-in or other electronic copies, or utilized by any information storage and retrieval system without written permission from the copyright owner, except for brief quotations embodied in critical articles and reviews. Materials appearing in this book prepared by individuals as part of their official duties as U.S. government employees are not covered by the above-mentioned copyright. To request permission, please contact Lippincott Williams & Wilkins at 530 Walnut Street, Philadelphia, PA 19106, via email at permissions@lww.com, or via website at lww.com (products and services).

9 8 7 6 5 4 3 2 1

DISCLAIMER

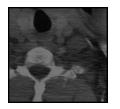
Care has been taken to confirm the accuracy of the information present and to describe generally accepted practices. However, the authors, editors, and publisher are not responsible for errors or omissions or for any consequences from application of the information in this book and make no warranty, expressed or implied, with respect to the currency, completeness, or accuracy of the contents of the publication. Application of this information in a particular situation remains the professional responsibility of the practitioner; the clinical treatments described and recommended may not be considered absolute and universal recommendations.

The authors, editors, and publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accordance with the current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new or infrequently employed drug.

Some drugs and medical devices presented in this publication have Food and Drug Administration (FDA) clearance for limited use in restricted research settings. It is the responsibility of the health care provider to ascertain the FDA status of each drug or device planned for use in their clinical practice.

To purchase additional copies of this book, call our customer service department at (800) 638-3030 or fax orders to (301) 223-2320. International customers should call (301) 223-2300.

Visit Lippincott Williams & Wilkins on the Internet: http://www.lww.com. Lippincott Williams & Wilkins customer service representatives are available from 8:30 am to 6:00 pm, EST.



Introduction

Using the images from the corresponding text, this workbook allows students to work through a series of questions to evaluate their knowledge of sectional anatomy. In this second edition of *Introduction to Sectional Anatomy Workbook and Review Guide*, the cases have been expanded to include ultrasound images and updated to include the latest imaging technology including 3D and PET/CT. The organization of the patient images has been revised to enable the reader to more quickly compare images between the text and workbook. The images are numbered to correspond with the same image in the textbook.

Like the text, the workbook begins with an introductory chapter, followed by a chapter on the chest, since most students already have a basic knowledge and this chapter is relatively simple as compared to subsequent chapters. The chest is followed by the lower parts of the trunk, the abdomen, and pelvis. Once the students have become accustomed to learning sectional anatomy in the trunk, the more difficult regions of the body (head, neck, spine, and joints) are covered in the second half of the workbook.

To evaluate the students' knowledge, the series of multiple choice questions follow the format used on CT and MR registry examinations. After the extensive multiple choice questions, new Clinical Application questions have been added, including short answer and essay. Approximately eight case studies per chapter have also been added to give students samples of how their knowledge of sectional anatomy can be applied to patient exams, including CT, MR, PET/CT, and ultrasound (3D) images.



Introduction	
Chapter 1	Introduction
Chapter 2	Chest
Chapter 3	Abdomen
Chapter 4	Male and Female Pelvis
Chapter 5	Head
Chapter 6	Neck
Chapter 7	Spine
Chapter 8	Joints



Introduction

LABELING EXERCISES

Fill in the blanks with the appropriate label.

- A. The aortic arch demonstrating differences in axial sections taken at several levels (text Fig. 1-4).
- B. The human body demonstrating planes of section (text Fig. 1-5).

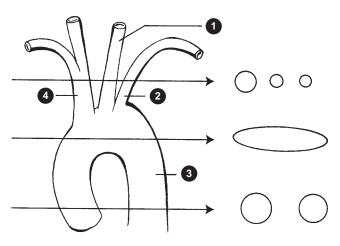
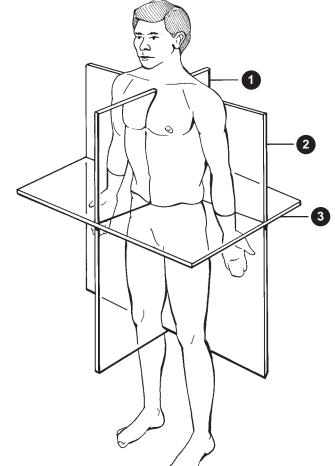


Figure 1-1



Ι.	
2.	
۷٠,	
0	
3.	
4	

1.			
2.			

Figure 1-2

∠.	
$^{\circ}$	

C. Absorption values common to clinical radiology. The values shown are for the Electric and Musical Industries (EMI) and Hounsfield scales (text Fig. 1-6).

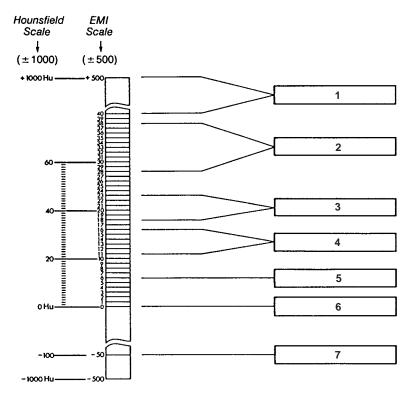


Figure 1-3

1	5
2	6
3	7
4	

CLINICAL APPLICATIONS

1.	A plane or section dividing the body into upper and	7.	The wrist joint would be classified as
	lower parts is classified as		·
2.	A plane or section dividing the body into equal right and left halves is classified as	8.	Please list in order (from the most radiodense to the least radiodense) the following: fat, white matter, water, bone, and gray matter.
3.	is the classification of a hinge joint that allows movement in only one plane.		
4.	The hip and shoulder joints would be classified as		
5.	Examples of the joint classification		
	include the sutures of the cranium and sternocostal joints.	9.	In a magnetic resonance (MR) image, aweighted image
6.	Examples of the joint classification arthrodia include		will have a bright or high signal from water.
	the and	10.	In a scan, the metabolic activity and radiodensity of tissues are
	joints.		fused to create diagnostic images.



Chest



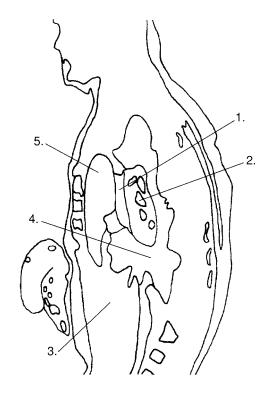


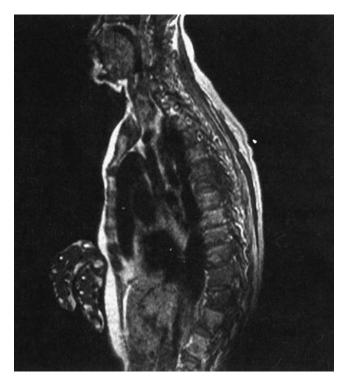
Figure 2-1

- 1. Which of the following is illustrated by 4?
 - ____ A. Liver
 - _____ B. Right lung lower lobe
 - ____ C. Left lung lower lobe
 - ____ D. Hilar region
- 2. Which of the following is illustrated by 2?
 - ____ A. Aortic arch
 - B. Superior vena cava
 C. Hilar region

 - ____ D. Heart
- 3. What number illustrates the upper lobe of the lung?
 - ____ A. 3
 - ____ B. 1
 - ____ C. 4
 - ____ D. 5

- 4. Which of the following is illustrated by 3?
 - ____ A. Stomach
 - _____ B. Liver
 - ____ C. Right lung lower lobe
 - ____ D. Left lung lower lobe
- 5. What number illustrates the superior vena cava?
 - ____ A. 1
 - B. 5 C. 4

 - ____ D. 2



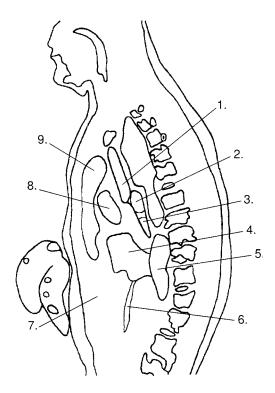
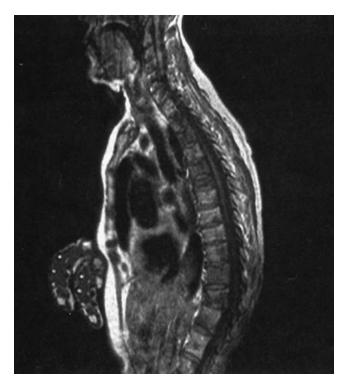


Figure 2-2

1. Which of the following is illustrated by 2.7	4. What number illu
A. Superior vena cava	A. 9
B. Right pulmonary artery	B. 7
C. Right pulmonary vein	C. 8
D. Wall of the aortic arch	D. 1
2. What number illustrates the inferior vena cava?	5. Which of the following
A. 5	A. Liver
B. 4	B. Right
C. 3	C. Right
D. 6	D. Inferi
3. Which of the following is illustrated by 3?	
A. Right pulmonary artery	
B. Right pulmonary vein	
C. Right atrium	
D. Superior vena cava	

1.	What number illustrates the wall of the aortic arch?
	A. 9
	B. 7
	C. 8
	D. 1
5 .	Which of the following is illustrated by 4?
	A. Liver
	B. Right atrium
	C. Right lung lower lobe
	D. Inferior vena cava



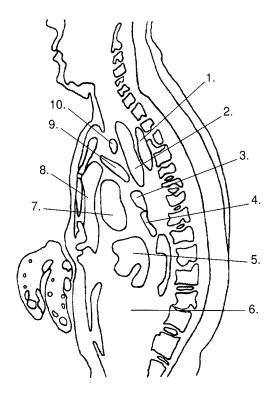
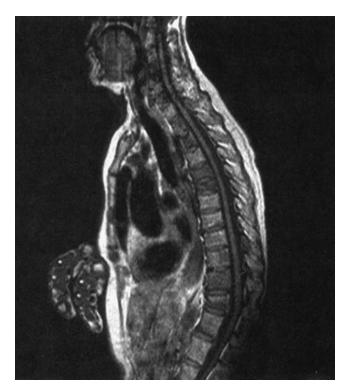


Figure 2-3

т.	VVIIICII	OI (ne following is illustrated by 2.5
		A.	Esophagus
		В.	Brachiocephalic artery
		C.	Trachea
		D.	Left brachiocephalic vein
2.	What n	um	ber illustrates the right lung upper lobe?
2.	What n		0 0 11
2.		A.	7
2.		А. В.	7 3

- 3. Which of the following is illustrated by 10?
 - ____ A. Left brachiocephalic vein
 - _____ B. Right brachiocephalic vein
 - C. Brachiocephalic artery
 - ____ D. Left subclavian artery

- 4. Which of the following is illustrated by 4?
 - _____ A. Right pulmonary artery
 - ____ B. Left atrium
 - ____ C. Right atrium
 - ____ D. Left ventricle
- 5. What number illustrates the left brachiocephalic vein?
 - ____ A. 10
 - ____ B. 2
 - ____ C. 9
 - ____ D. 1



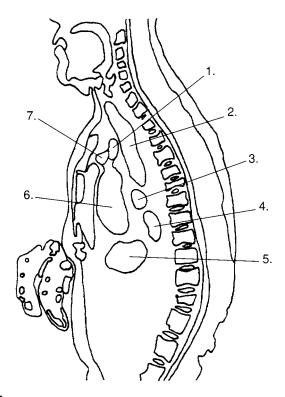
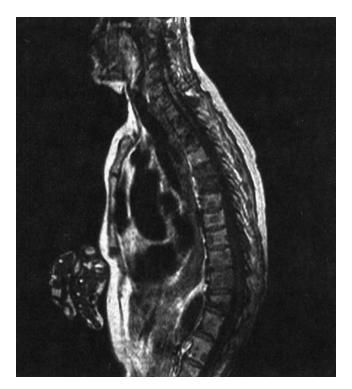


Figure 2-4

1.	Which	of t	the following is illustrated by 7?
		A.	Brachiocephalic artery
		B.	Left brachiocephalic vein
		C.	Aortic arch
		D.	Pulmonary artery
2.	Which	of t	he following is illustrated by 6?
		A.	Right pulmonary artery
		В.	Left atrium
		C.	Aortic arch
		D.	Left brachiocephalic vein
3.	What 1	num	ber illustrates the brachiocephalic artery?
		A.	1
		В.	7
		C.	3

____ D. 2

4.			he following is illustrated by 5?
		A.	Right pulmonary artery
		В.	Left atrium
		C.	Right atrium
		D.	Aortic arch
5.	What 1	num	ber illustrates the right pulmonary artery?
		A.	3
		В.	6
		C.	5
		D.	4



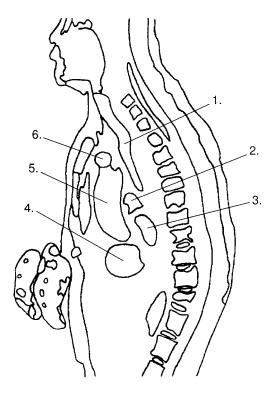
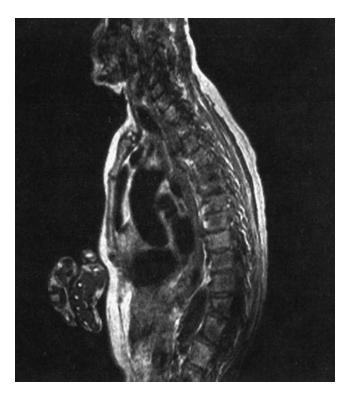


Figure 2-5

- 1. What number illustrates the right ventricle? ____ A. 6 ____ B. 3 ____ C. 4 ___ D. 2
- 2. Which of the following is illustrated by 6?
- _____ A. Right pulmonary artery

 - _____ B. Brachiocephalic artery
 - ____ C. Aortic arch
 - ____ D. Left brachiocephalic vein
- 3. Which of the following is illustrated by 5?
 - ____ A. Left atrium
 - _____ B. Right atrium
 - ____ C. Aortic arch
 - ____ D. Right ventricle

- 4. What number illustrates the right pulmonary artery?
 - ____ A. 2
 - ____ В. 6
 - ____ C. 5 ___ D. 3
- 5. Which of the following is illustrated by 3?
 - ____ A. Right ventricle
 - _____ B. Left atrium
 - ____ C. Aortic arch
 - ____ D. Right atrium



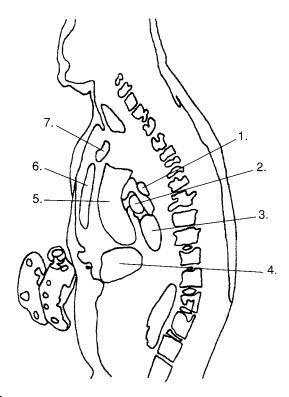


Figure 2-6

- 1. Which of the following is illustrated by 5?
 - ____ A. Pleural cavity
 - ____ B. Right atrium
 - ____ C. Aortic arch
 - ____ D. Left atrium
- 2. What number illustrates the left bronchus?
 - ____ A. 1
 - ____ B. 2
 - ____ C. 5
 - ____ D. 3
- 3. What number illustrates the pleural cavity?
 - ____ A. 3
 - ____ B. 4
 - ____ C. 6
 - ____ D. 5

- 4. Which of the following is illustrated by 2?
 - ____ A. Left bronchus
 - _____ B. Right pulmonary artery
 - ____ C. Left atrium
 - ____ D. Aortic arch
- 5. Which of the following is illustrated by 3?
 - ____ A. Pleural cavity
 - _____ B. Right ventricle
 - ____ C. Left atrium
 - ____ D. Aortic arch



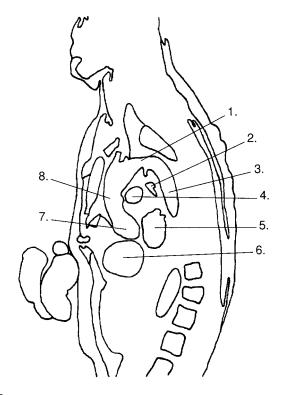
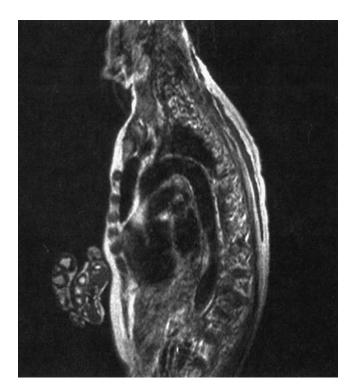


Figure 2-7

Ι.	Which of	the following is illustrated by 3?
	A	. Aortic arch
	В	. Left bronchus
	C	. Descending aorta
	D	. Pulmonary artery
2.	What nu	mber illustrates the aortic arch?
	A	. 1
	В	. 4
	C	. 3
	D	0. 2
3.		the following is illustrated by 7?
	A	. Left atrium
	B	. Right ventricle
	C	. Left ventricle
	D	. Ascending aorta
		_

4.	Which of the following is illustrated by 4?
	A. Left bronchus
	B. Descending aorta
	C. Pulmonary artery
	D. Left atrium
	D. Lett attiuili
5.	What number illustrates the ascending aorta?
5.	
5.	What number illustrates the ascending aorta?
5.	What number illustrates the ascending aorta? A. 7
5.	What number illustrates the ascending aorta? A. 7 B. 5



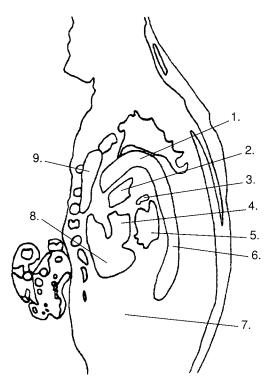


Figure 2-8

1.	Which of	the following is illustrated by 2?
	A.	Aortic arch
	В.	Pulmonary trunk
	C.	Right atrium
	D	Left atrium
2.	What nur	nber illustrates the right ventricle?
	A.	2
	В.	4
	C.	8
	D	5
3.	Which of	the following is illustrated by 5?
	A.	Aortic arch
	В.	Left ventricle
	C.	Right ventricle
	D	Left atrium

4.	Which	of t	he following is illustrated by 3?
		A.	Left bronchus
		В.	Left ventricle
		C.	Left atrium
		D.	Pulmonary trunk
5.	What n	num	ber illustrates the left ventricle?
		A.	2
		B.	5
		C.	4
		D.	8



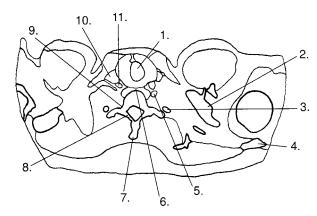


Figure 2-9

- 1. What number illustrates the right common carotid artery?
 - ____ A. 10
 - ____ В. 5
 - ____ C. 3
 - ____ D. 11
- 2. Which of the following is illustrated by 10?
 - _____ A. Right external jugular vein
 - _____ B. Right internal jugular vein
 - ____ C. Right common carotid artery
 - ____ D. Right subclavian artery
- 3. What number illustrates the clavicle?
 - ____ A. 2
 - ____ B. 4
 - ____ C. 1
 - ____ D. 8

- 4. Which of the following is illustrated by 9?
 - _____ A. Spinous process of T1
 - ____ B. Pedicle of T1
 - ____ C. Transverse process of T1
 - _____ D. Lamina of T1
- 5. Which of the following is illustrated by 6?
 - ____ A. Thyroid
 - _____ B. Trachea
 - ____ C. Esophagus
 - ____ D. Larynx



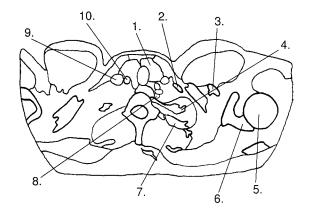
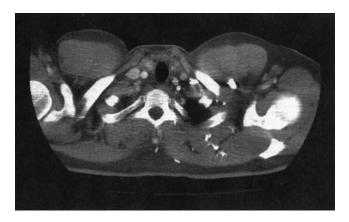


Figure 2-10

- 1. Which of the following is illustrated by $9?\,$
 - _____ A. Right internal jugular vein
 - _____ B. Left subclavian vein
 - ____ C. Left vertebral artery
 - _____ D. Right common carotid artery
- 2. What number illustrates the first rib?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 7
 - ____ D. 3
- 3. Which of the following is illustrated by 8?
 - _____ A. Left subclavian vein
 - _____ B. Left subclavian artery
 - ____ C. Left vertebral artery
 - ____ D. Left axillary vein

- 4. Which of the following is illustrated by 7?
 - ____ A. Glenoid process of scapula
 - ____ B. First rib
 - ____ C. Second rib
 - _____ D. Head of the humerus
- 5. What number illustrates the right common carotid artery?
 - ____ A. 9
 - ____ В. 8
 - ____ C. 2
 - ____ D. 10



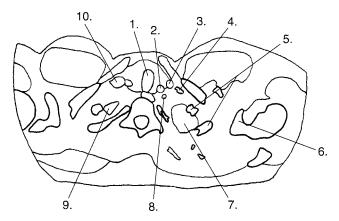


Figure 2-11

- 1. Which of the following is illustrated by 9?
 - _____ A. Axillary vein
 - _____ B. Upper lobe left lung
 - C. Upper lobe of right lung
 D. Internal jugular vein
- the scapula?
 - ____ A. 9
 - ____ B. 6
 - ____ C. 5
 - ____ D. 1
- 3. What number illustrates the left vertebral artery?
 - ____ A. 2
 - ____ B. 8
 - ____ C. 4
 - ____ D. 3

- 4. Which of the following is illustrated by 4?
 - _____ A. Left internal jugular vein
 - _____ B. Left common carotid artery
 - ____ C. Left axillary artery
 - ____ D. Left subclavian vein
- 5. Which of the following is illustrated by 2?
 - _____ A. Left common carotid artery
 - _____ B. Trachea
 - ____ C. Left subclavian vein
 - _____ D. Left vertebral artery



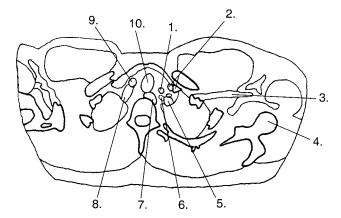


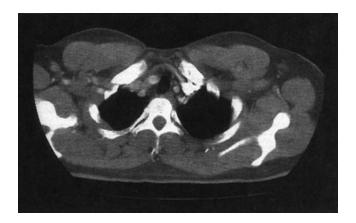
Figure 2-12

____ A. Left common carotid artery _____ B. Left brachiocephalic vein ____ C. Left axillary artery _____ D. Left vertebral artery 2. What number illustrates the left axillary artery?

1. Which of the following is illustrated by 2?

- - ____ A. 3
 - ____ B. 7
 - ____ C. 6
 - ____ D. 5
- 3. Which of the following is illustrated by 6?
 - _____ A. Left subclavian artery
 - _____ B. Left subclavian vein
 - ____ C. Left vertebral artery
 - _____ D. Left common carotid artery

- 4. What number illustrates the right common carotid artery?
 - ____ A. 9
 - ____ B. 10
 - ____ C. 1
 - ____ D. 8
- 5. Which of the following is illustrated by 1?
 - _____ A. Left brachiocephalic vein
 - _____ B. Left vertebral artery
 - ____ C. Left subclavian artery
 - _____ D. Left common carotid artery



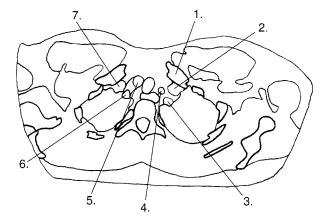


Figure 2-13

 Which of the following is illustrated by 2? A. Left clavicle B. Left brachiocephalic vein C. Left subclavian artery D. Left common carotid artery 	 4. Which of the following is illustrated by 6? A. Origin of the right vertebral artery B. Origin of the right common carotid artery C. Origin of the right subclavian artery D. Right brachiocephalic vein
 2. What number illustrates the origin of the right common carotid artery? A. 7 B. 5 C. 6 D. 4 	 5. What number illustrates the left common carotid artery? A. 2 B. 6 C. 4 D. 3
 3. Which of the following is illustrated by 1? A. Left clavicle B. Left brachiocephalic vein C. Left subclavian artery D. Left common carotid artery 	



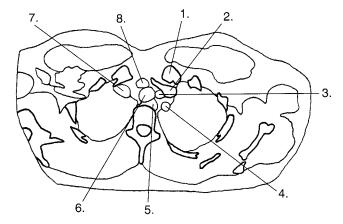


Figure 2-14

- 1. What number illustrates the brachiocephalic artery? ____ A. 7

 - ____ B. 6
 - ____ C. 4
 - ____ D. 8
- 2. Which of the following is illustrated by 6?
 - _____ A. Left subclavian artery
 - _____ B. Esophagus
 - ____ C. Trachea
 - _____ D. Right brachiocephalic vein
- 3. Which of the following is illustrated by 4?
 - _____ A. Left common carotid artery
 - _____ B. Left subclavian artery
 - ____ C. Left vertebral artery
 - _____ D. Left axillary artery

- 4. What number illustrates the left brachiocephalic vein?
 - ____ A. 2
 - ____ B. 8
 - ____ C. 1
 - ____ D. 4
- 5. Which of the following is illustrated by 7?
 - _____ A. Left brachiocephalic vein
 - _____ B. Right subclavian vein
 - ____ C. Brachiocephalic artery
 - _____ D. Right brachiocephalic vein



B. Trachea
C. Left brachiocephalic vein
D. Manubrium

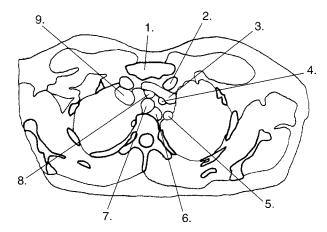


Figure 2-15

1. Which of the following is illustrated by 6?	4. Which of the following is illustrated by 4?
A. Left subclavian artery	A. Left subclavian vein
B. Esophagus	B. Subclavian artery
C. Trachea	C. Left common carotid artery
D. Left common carotid artery	D. Left brachiocephalic vein
2. What number illustrates the right brachiocephalic	5. What number illustrates the brachiocephalic artery
vein?	A. 9
A. 8	B. 6
B. 7	C. 8
C. 4	D. 4
D. 9	
3. Which of the following is illustrated by 1?	
A. Clavicle	





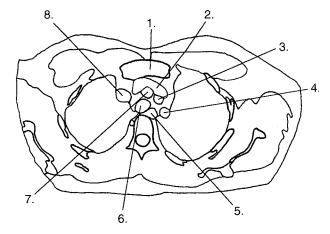


Figure 2-16

- 1. What number illustrates the left brachiocephalic vein? ____ A. 2 ____ B. 8 ____ C. 7 ____ D. 4 2. Which of the following is illustrated by 5? _____ A. Left common carotid artery _____ B. Esophagus ____ C. Trachea
- 3. Which of the following is illustrated by 4?
 - ____ A. Left vertebral artery

___ D. Manubrium

- _____ B. Brachiocephalic artery
- ____ C. Left subclavian artery
- _____ D. Left common carotid artery

- 4. What number illustrates the brachiocephalic artery?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 3
 - ____ D. 7
- 5. Which of the following is illustrated by 6?
 - _____ A. Right brachiocephalic vein
 - _____ B. Esophagus
 - ____ C. Trachea
 - _____ D. Right internal jugular vein



B. 4
C. 5
D. 2

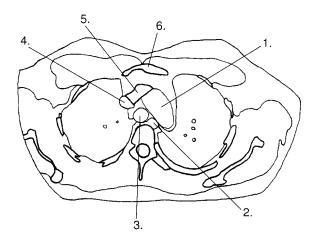


Figure 2-17

 Which of the following is illustrated by 2? A. Trachea B. Vertebral artery C. Aortic arch D. Esophagus 	 4. Which of the following is illustrated by 5? A. Aortic arch B. Left brachiocephalic vein C. Brachiocephalic artery D. Right brachiocephalic vein
 2. What number illustrates the right brachiocephalic vein? A. 5 B. 3 C. 4 D. 2 	 5. Which of the following is illustrated by 3? A. Aortic arch B. Trachea C. Esophagus D. Left main bronchus
3. What number illustrates the aortic arch?	



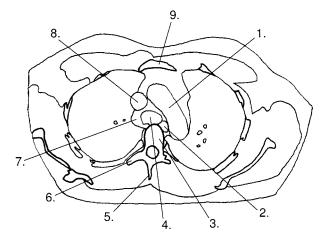


Figure 2-18

What number illustrates the azygos arch?

 A. 7
 B. 8
 C. 2
 D. 1

 Which of the following is illustrated by 3?

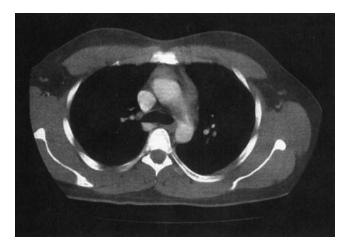
 A. Esophagus
 B. Vertebral body
 C. Trachea
 D. Azygos arch

 Which of the following is illustrated by 5?

 A. Pedicle
 B. Lamina
 C. Spinous process

_____ D. Transverse process

- 4. What number illustrates the transverse process?
 A. 7
 B. 5
 C. 6
 D. 1
 5. Which of the following is illustrated by 8?
 - 6. Which of the following is illustrated
 A. Inferior vena cava
 B. Ascending aorta
 C. Azygos arch
 D. Superior vena cava



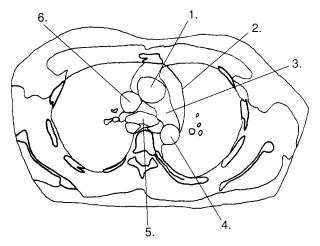


Figure 2-19

1. Which of the following is illustrated by 2?	4. Whi
A. Right atrium	
B. Mediastinal pleura	
C. Left atrium	
D. Right ventricle	
2. What number illustrates the tracheal bifurcation?	5. Wha
A. 6	
B. 3	
C. 5	
D. 2	

- 3. Which of the following is illustrated by 4?
 - ____ A. Mediastinal pleura
 - _____ B. Ascending aorta
 - ____ C. Bottom of the aortic arch
 - _____ D. Descending aorta

- 4. Which of the following is illustrated by l?
 - _ A. Ascending aorta
 - __ B. Bottom of the aortic arch
 - __ C. Superior vena cava
 - _ D. Descending aorta
- at number illustrates the bottom of the aortic arch?
 - _ A. 5
 - __ B. 3
 - _ C. 4
 - __ D. 1



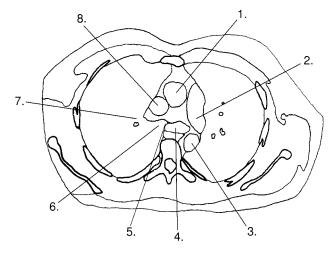
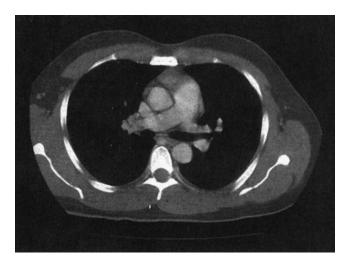


Figure 2-20

- 1. Which of the following is illustrated by 7?
 - ____ A. Right main bronchus
 - _____ B. Right lower lobe bronchus
 - ____ C. Right upper lobe bronchus
 - ____ D. Carina
- 2. What number illustrates the left main bronchus?
 - ____ A. 7
 - ____ B. 4
 - ____ C. 5
 - ____ D. 6
- 3. Which of the following is illustrated by 5?
 - _____ A. Descending aorta
 - _____ B. Carina
 - ____ C. Left pulmonary artery
 - _____ D. Ascending aorta

- 4. Which of the following is illustrated by 6?
 - ____ A. Right main bronchus
 - _____ B. Left main bronchus
 - ____ C. Right lower lobe bronchus
 - ____ D. Right upper lobe bronchus
- 5. What number illustrates the left pulmonary artery?
 - ____ A. 8
 - ____ B. 2
 - ____ C. 3
 - ____ D. 1



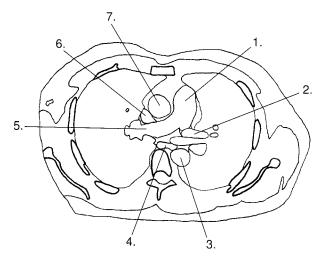
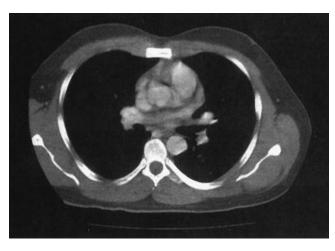


Figure 2-21

1.	What number illustrates the esophagus? A. 7	4. Which of the following is illustrated by 1? ——— A. Left pulmonary artery
	B. 4 C. 3 D. 2	B. Ascending aortaC. Pulmonary trunkD. Descending aorta
2.	Which of the following is illustrated by 5? A. Pulmonary trunk B. Left superior pulmonary vein C. Ascending aorta D. Right pulmonary artery	 5. Which of the following is illustrated by 6? A. Ascending aorta B. Left superior pulmonary vein C. Descending aorta D. Superior vena cava
3.	What number illustrates the left superior pulmonary vein? A. 1 B. 2 C. 5	



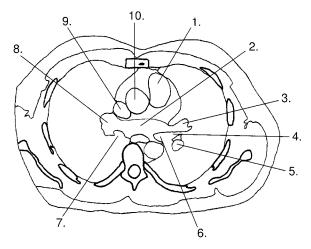


Figure 2-22

What number illustrates the left atrium?

 A. 2
 B. 9
 C. 1
 D. 10

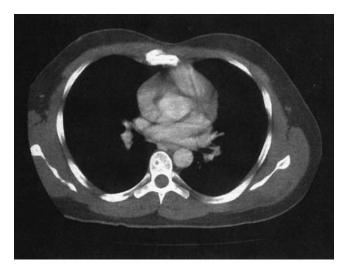
 Which of the following is illustrated by 7?

 A. Left main bronchus
 B. Bronchus intermedius
 C. Superior pulmonary vein
 D. Left upper lobe bronchus

 What number illustrates the descending branch of the left pulmonary artery?

A. 6
B. 4
C. 5
D. 3

- 4. Which of the following is illustrated by 1?
 A. Left superior pulmonary vein
 B. Superior vena cava
 C. Origin of the pulmonary trunk
 D. Ascending aorta
 5. Which of the following is illustrated by 4?
 - A. Left main bronchus
 B. Descending branch of the left pulmonary artery
 C. Left superior pulmonary vein
 - D. Left upper lobe bronchus



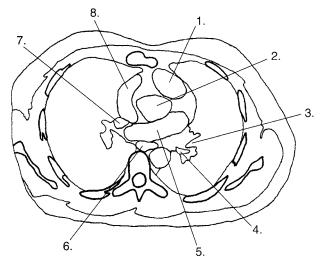


Figure 2-23

1. What number illustrates the ascending aorta? ———————————————————————————————————
D. 1
2. Which of the following is illustrated by 4?
A. Left lower lobe bronchus
B. Left upper lobe bronchus
C. Left main bronchus
D. Carina
3. Which of the following is illustrated by 8?
A. Right ventricle
B. Right atrium
C. Right superior pulmonary vein

____ D. Left atrium

4. Which of the following is illustrated by 1? ____ A. Left atrium _____ B. Left ventricle ____ C. Right atrium D. Right ventricle 5. What number illustrates the left atrium? ____ A. 8 B. 6
C. 5
D. 2



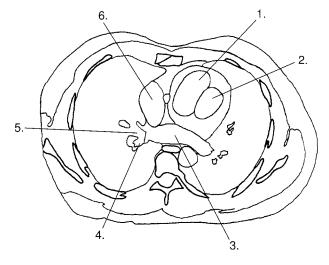


Figure 2-24

What number illustrates the left atrium?

 A. 6
 B. 2
 C. 3
 D. 1

 Which of the following is illustrated by 4?

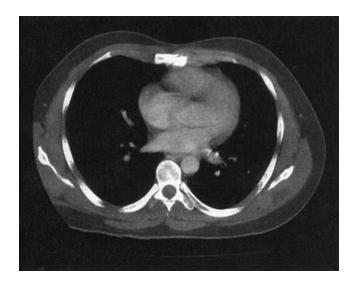
 A. Right lower lobe bronchus
 B. Right upper lobe bronchus
 C. Right middle lobe bronchus
 D. Carina

 Which of the following is illustrated by 5?

 A. Right upper lobe bronchus
 B. Right lower lobe bronchus
 C. Right middle lobe bronchus

____ D. Carina

- 4. What number illustrates the chamber within the heart responsible for pumping blood to the lungs?
 - ____ A. 1
 - ____ B. 6
 - ____ C. 2
 - ____ D. 3
- 5. Which of the following is illustrated by 6?
 - ____ A. Left atrium
 - ____ B. Right ventricle
 - ____ C. Left ventricle
 - ____ D. Right atrium



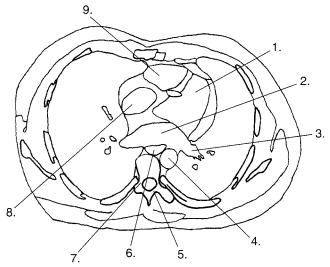


Figure 2-25

- 1. What number illustrates the lamina?
 - ____ A. 7
 - ____ B. 5
 - ____ C. 6
 - ____ D. 3
- 2. Which of the following is illustrated by 3?
 - _____ A. Left atrium
 - _____ B. Left inferior pulmonary vein
 - ____ C. Left upper pulmonary vein
 - _____ D. Hemiazygos vein
- 3. What number illustrates the right ventricle?
 - ____ A. 8
 - ____ B. 4
 - ____ C. 1
 - ____ D. 9

- 4. Which of the following is illustrated by 7?
 - ____ A. Esophagus
 - _____ B. Lamina
 - ____ C. Pedicle
 - ____ D. Descending aorta
- 5. Which of the following is illustrated by 1?
 - _____ A. Left atrium
 - _____ B. Right atrium
 - ____ C. Left ventricle
 - ____ D. Right ventricle



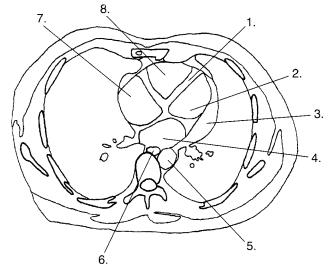
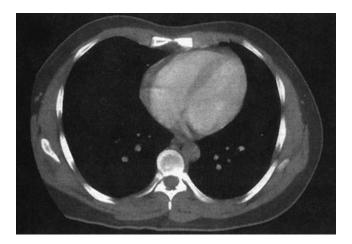


Figure 2-26

- 1. Which of the following is illustrated by 7?
 - ____ A. Left atrium
 - _____ B. Right atrium
 - ____ C. Left ventricle
 - ____ D. Right ventricle
- 2. Which of the following is illustrated by 8?
 - _____ A. Right atrium
 - ____ B. Left ventricle
 - ____ C. Left atrium
 - ____ D. Right ventricle
- 3. What number illustrates the descending aorta?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 5
 - ____ D. 6

- 4. What number illustrates the ventricular wall?
 - ____ A. 4
 - ____ B. 3
 - ____ C. 1
 - ____ D. 6
- 5. Which of the following is illustrated by 4?
 - _____ A. Left ventricle
 - _____ B. Left atrium
 - ____ C. Esophagus
 - ____ D. Descending aorta



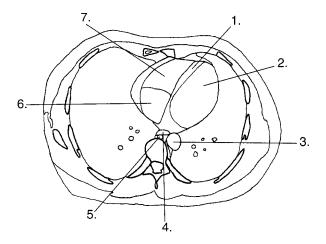


Figure 2-27

. Which of the following is illustrated by 2? A. Interventricular septum B. Esophagus C. Descending aorta D. Left ventricle 2. What number illustrates the chamber of the heart receiving venous blood from the inferior vena cava? A. 3 B. 2 C. 6 D. 7 3. Which of the following is illustrated by 5? A. Accessory hemiazygos vein B. Esophagus C. Azygos vein B. Esophagus C. Azygos vein B. Esophagus C. Azygos vein B. Hemiazygos vein A. 2 A. 2 A. 2 B. 6 C. 3 D. 7			
receiving venous blood from the inferior vena cava? A. 2 B. 6 B. 2 C. 3 D. 7 D. 7 B. Which of the following is illustrated by 5? A. Accessory hemiazygos vein B. Esophagus C. Azygos vein	l.	A. Interventricular septumB. EsophagusC. Descending aorta	A. Descending aortaB. Hemiazygos veinC. Azygos vein
A. Accessory hemiazygos vein B. Esophagus C. Azygos vein	2.	receiving venous blood from the inferior vena cava? A. 3 B. 2 C. 6	A. 2 B. 6 C. 3
	3.	A. Accessory hemiazygos veinB. EsophagusC. Azygos vein	



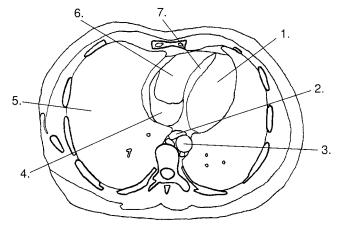


Figure 2-28

A. Left atrium
B. Right ventricle
C. Left ventricle
D. Right atrium

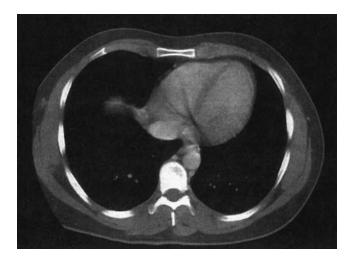
2. Which of the following is illustrated by 5?

A. Left lung
B. Right lung
C. Right atrium
D. Right ventricle

1. Which of the following is illustrated by 1?

- 3. What number illustrates the alimentary structure connecting the pharynx to the stomach?
 - ____ A. 2
 - ____ B. 3
 - ____ C. 6
 - ____ D. 4

- 4. What number illustrates the interventricular septum?
 - ____ A. 2
 - ____ В. 5
 - ____ C. 4
 - ____ D. 7
- 5. Which of the following is illustrated by 4?
 - _____ A. Right atrium
 - _____ B. Right ventricle
 - ___ C. Left atrium
 - ____ D. Left ventricle



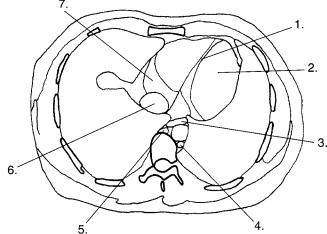
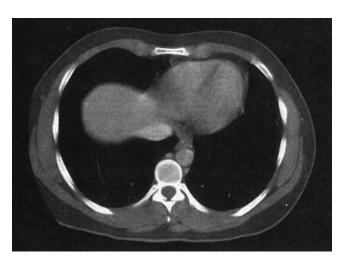


Figure 2-29

Ι.	What number illustrates the inferior vena cava?
	A. 3
	B. 5
	C. 4
	D. 6

- 2. Which of the following is illustrated by 7?
 - ____ A. Right ventricle
 - _____ B. Right atrium
 - ____ C. Inferior vena cava
 - ____ D. Left ventricle
- 3. Which of the following is illustrated by 4?
 - ____ A. Hemiazygos vein
 - _____ B. Inferior vena cava
 - ____ C. Azygos vein
 - _____ D. Accessory hemiazygos vein

- 4. Which of the following is illustrated by 1?
 - ____ A. Visceral peritoneum
 - _____ B. Mediastinal pleura
 - ____ C. Parietal peritoneum
 - _____ D. Interventricular septum
- 5. What number illustrates the azygos vein?
 - ____ A. 4
 - ____ B. 3
 - ____ C. 1 ___ D. 5



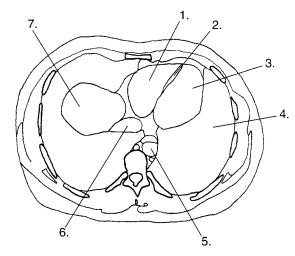


Figure 2-30

1.	Which	of t	the following is illustrated by 6?
			Superior vena cava
		В.	Inferior vena cava
		C.	Right ventricle
		D.	Descending aorta
2.	What r	num	ber illustrates the interventricular septum?
		A.	2
		В.	6
		C.	5

- 3. What number illustrates the descending aorta?
 - ____ A. 7

___ D. 4

- ____ В. 3
- ____ C. 5
- ____ D. 6

- 4. Which of the following is illustrated by 7?
 - ____ A. Left ventricle
 - _____ B. Right ventricle
 - ____ C. Stomach
 - _____ D. Liver
- 5. Which of the following is illustrated by 3?
 - ____ A. Left atrium
 - _____ B. Left ventricle
 - ____ C. Right ventricle
 - ____ D. Liver



C. Hemiazygos vein
D. Accessory hemiazygos vein

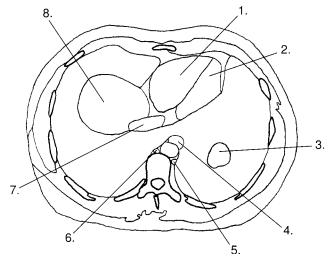


Figure 2-31

 Which of the following is illustrated by 3? A. Right ventricle B. Left ventricle C. Fundus of the stomach D. Liver 	 4. What number illustrates the esophagus? A. 3 B. 7 C. 6 D. 4
 2. What number illustrates the inferior vena cava? A. 4 B. 6 C. 5 D. 7 	 5. Which of the following is illustrated by 5? A. Inferior vena cava B. Accessory hemiazygos vein C. Hemiazygos vein D. Azygos vein
3. Which of the following is illustrated by 6? A. Azygos vein B. Inferior vena cava	

____ D. Spleen



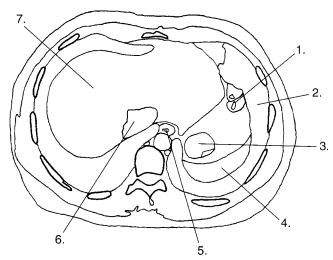


Figure 2-32

1.	Which of the following is illustrated by 4? A. Left lung B. Spleen C. Liver D. Fundus of stomach	 4. Which of the following is illustrated by 3? A. Spleen B. Inferior vena cava C. Esophagus D. Fundus of the stomach
2.	What number illustrates the vein transporting blood from the liver to the heart? A. 5 B. 1 C. 3 D. 6	5. What number illustrates the left lung? ———————————————————————————————————
3.	Which of the following is illustrated by 1? A. Splenic flexure of the colon B. Fundus of the stomach C. Transverse colon	



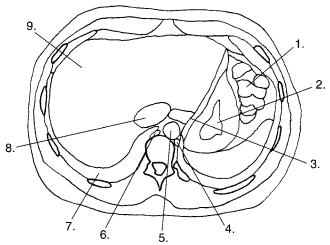


Figure 2-33

1.	Which	of t	he following is illustrated by 3?
		A.	Gastroesophageal junction
		B.	Spleen
		C.	Splenic flexure of colon
		D.	Liver
2.	What r	num	ber illustrates the splenic flexure of the
		A.	1
		В.	8
		C.	6
		D.	3

3. Which of the following is illustrated by 6? ____ A. Accessory hemiazygos vein

B. Azygos vein ____ C. Hemiazygos vein ____ D. Inferior vena cava

_____ B. Inferior vena cava ____ C. Descending aorta ____ D. Azygos vein 5. What number illustrates the hemiazygos vein? ____ A. 5 ____ B. 4 ____ C. 8 ____ D. 6

4. Which of the following is illustrated by 5?

____ A. Esophagus



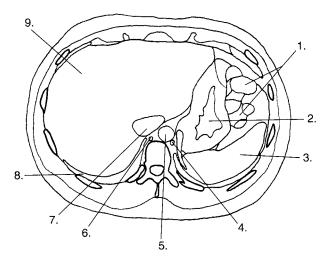


Figure 2-34

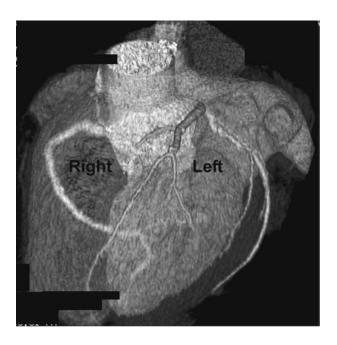
1. Which of the following is illustrated by 2?
A. Splenic flexure of colon
B. Fundus of stomach
C. Spleen
D. Body of stomach
2. What number illustrates the descending aorta?
A. 4
B. 2
C. 5
D. 6
3. Which of the following is illustrated by 3?
A. Spleen
B. Body of stomach
C. Liver
D. Splenic flexure of colon

4.	Which o	of t	he following is illustrated by 7?
		A.	Spleen
]	В.	Gallbladder
		C.	Descending aorta
]	D.	Inferior vena cava
5.	What no colon?	um	ber illustrates the splenic flexure of the
		A.	1
]	B.	5
	(C.	3
]	D.	2

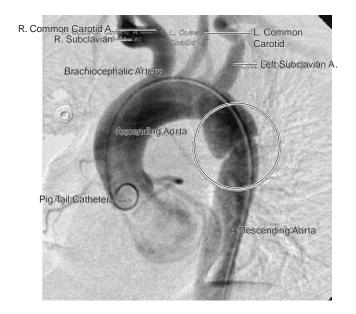
CLINICAL APPLICATIONS

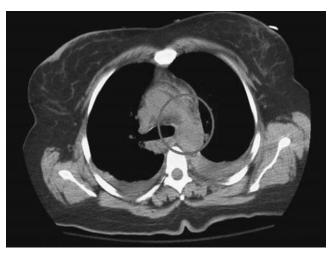
 Which of the following does not originate from the aorta? A. Brachiocephalic artery B. Left subclavian artery C. Left vertebral artery D. Left common carotid artery 	7. Which of the following structures is most posterior in the chest? ———————————————————————————————————
2. The pulmonary arteries carry deoxygenated blood. True or False?	8. Describe the left subclavian vein.
 3. The ascending aorta originates from what part of the heart? ———————————————————————————————————	9. The vertebral arch consists oflaminae
 5. The aorta arches over all of the following structure except the A. Pulmonary trunk B. Left brachiocephalic vein C. Left main bronchus D. Left pulmonary vein 	10. In a magnetic resonance (MR) image of the median sagittal chest, which chamber of the heart would be located most posteriorly?
6. In an axial section through the oblique fissure of the left lung, which lobe of the lung would be most anterior?	the

CLINICAL CORRELATIONS



1.	This image would best be described by which of the	4. The	artery wraps around
	following:	the heart	to extend down the posterior side.
	A. Computed tomography angiography (CTA)	A.	Anterior interventricular
	B. Magnetic resonance angiography (MRA)		Marginal
	C. Ultrasound	C.	Circumflex
	D. Positron emission tomography/computed	D	Posterior interventricular
	tomography (PET/CT)		coronary artery is found wrapping around
2.	The anterior interventricular coronary artery originates	the outsid	le of the heart between the right atrium and
	from which of the following: A. Right coronary artery B. Left coronary artery		to reach the side of the heart. Right ventricle
3.	The right and left coronary arteries originate from	В.	Left atrium
	which of the following:	C.	Left ventricle
	A. Superior vena cava	D	Aorta
	B. Pulmonary veins		
	C. Pulmonary trunk		
	D. Ascending aorta		





1. Describe the location of the false aneurysm resulting from trauma to the chest during a motor vehicle accident (MVA). The injury is shown with digital angiography (left) and axial CT (right) images.

3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.

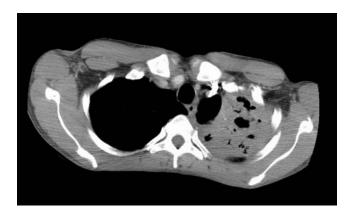


	Describe the location of the non-small cell lung carcinoma (NSCLC) in this reconstructed coronal CT image.	3.	3. Describe the consistency, shape, and border.	
	image.			
		-		
2.	Describe the changes in adjacent tissues.			



1.	Describe the location of the primary pulmonary adeno- carcinoma in this selected axial CT image.	3. I	Describe the consistency, shape, and border.
2.	Describe the changes in adjacent tissues.		

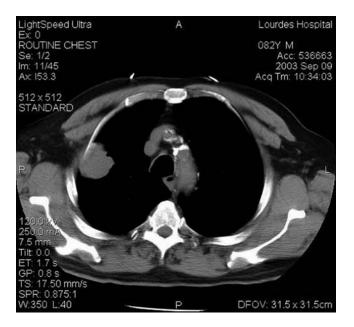
44 Introduction to Sectional Anatomy Workbook and Review Guide



	Describe the location of the necrotizing pneumonia as shown in this axial CT image.	3.	Describe the consistency, shape, and border.
2.	Describe the changes in adjacent tissues.		



1. Describe the location of the pleural effusion found this axial CT image.	in 3. Describe the consistency, shape, and border.
	<u> </u>
	<u> </u>
	<u> </u>
2. Describe the changes in adjacent tissues.	



 Describe the location of the malignant lung Please note that the scan was done without because the patient had a prior reaction to 	ontrast
2. Describe the changes in adjacent tissues.	



Abdomen



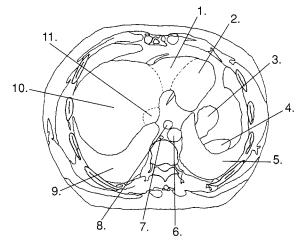


Figure 3-1

- 1. Which of the following is illustrated by 3?
 - ____ A. Left ventricle
 - _____ B. Inferior vena cava
 - ____ C. Fundus of stomach
 - ____ D. Spleen
- 2. Which of the following is illustrated by 10?
 - ____ A. Left ventricle
 - _____ B. Spleen
 - ____ C. Right lung
 - ____ D. Liver
- 3. What number illustrates the azygos vein?
 - ____ A. 11
 - ____ B. 6
 - ____ C. 7
 - ____ D. 3

- 4. What number illustrates the inferior vena cava?
 - ____ A. 6
 - ____ B. 8
 - ____ C. 3
 - ____ D. 11
- 5. Which of the following is illustrated by 4?
 - ____ A. Spleen
 - _____ B. Descending aorta
 - ____ C. Esophagus
 - ____ D. Inferior vena cava



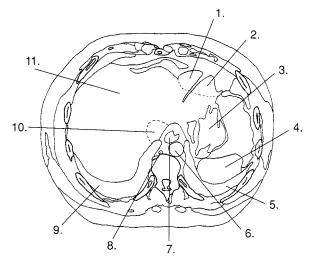


Figure 3-2

- 1. What number illustrates the chamber of the heart that pumps blood to most of the body?

 _____ A. 6
 _____ B. 2
 _____ C. 3
 _____ D. 1

 2. Which of the following is illustrated by 5?
 _____ A. Right lung
 _____ B. Spleen
 _____ C. Left lung
 _____ C. Left lung
- 3. Which of the following is illustrated by 7?
 - ____ A. Inferior vena cava

____ D. Inferior vena cava

- _____ B. Esophagus
- ____ C. Descending aorta
- ____ D. Azygos vein

- 4. What number illustrates the liver?
 - ____ A. 9
 - ____ B. 4
 - ____ C. 3
 - ____ D. 11
- 5. Which of the following is illustrated by 1?
 - ____ A. Quadrate lobe of liver
 - _____ B. Right ventricle
 - ____ C. Left ventricle
 - ____ D. Gallbladder



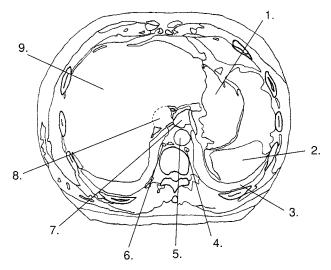


Figure 3-3

1.	Which	ot	the	following is illustrated by 6?	
		Δ	H	emiazwace wein	

- __ A. Hemiazygos vein
- _____ B. Portal vein
- ____ C. Accessory hemiazygos vein
- ____ D. Azygos vein

2. Which of the following is illustrated by 1?

- ____ A. Spleen
- _____ B. Fundus of stomach
- ____ C. Quadrate lobe of liver
- ____ D. Esophagus
- 3. What number illustrates the hemiazygos vein?
 - ____ A. 4
 - ____ B. 7
 - ____ C. 6
 - ____ D. 5

- 4. Which of the following is illustrated by 8?
 - _____ A. Descending aorta
 - ____ B. Fundus of stomach
 - ____ C. Inferior vena cava
 - ____ D. Esophagus
- 5. What number illustrates the left lung?
 - ____ A. 9
 - ____ B. 2
 - ____ C. 3
 - ____ D. 1



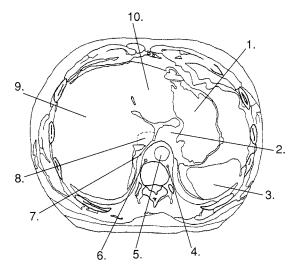


Figure 3-4

- 1. What number illustrates the body of the stomach? ____ A. 1

 - ____ B. 9
 - ____ C. 5
 - ____ D. 2
- 2. Which of the following is illustrated by 7?
 - _____ A. Hemiazygos vein
 - _____ B. Right crus of diaphragm
 - ____ C. Azygos vein
 - D. Right adrenal gland
- 3. What number illustrates the right lobe of the liver?
 - ____ A. 10
 - ____ B. 3
 - ____ C. 9
 - ____ D. 1

- 4. Which of the following is illustrated by 2?
 - _____ A. Pancreas
 - _____ B. Portal vein
 - ____ C. Inferior vena cava
 - _____ D. Gastroesophageal junction
- 5. Which of the following is illustrated by 6?
 - ____ A. Hemiazygos vein
 - _____ B. Azygos vein
 - ____ C. Portal vein
 - ____ D. Right crus of diaphragm



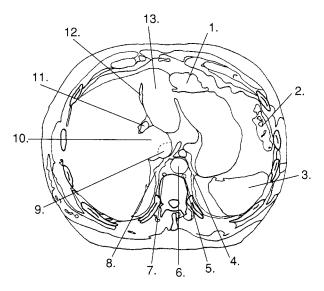


Figure 3-5

- 1. Which of the following is illustrated by 12?
 - ____ A. Quadrate lobe of liver
 - _____ B. Caudate lobe of liver
 - ____ C. Inferior vena cava
 - ____ D. Ligamentum teres fossa
- 2. What number illustrates the caudate lobe of liver?
 - ____ A. 13
 - ____ B. 3
 - ____ C. 10
 - ____ D. 1
- 3. Which of the following is illustrated by 2?
 - _____ A. Air in stomach
 - _____ B. Transverse colon
 - ____ C. Ascending colon
 - ____ D. Splenic flexure of colon

- 4. Which of the following is illustrated by 6?
 - _____ A. Descending aorta
 - _____ B. Celiac trunk
 - ____ C. Inferior vena cava
 - ____ D. Portal vein
- 5. What number illustrates the left lobe of liver?
 - ____ A. 1
 - ____ B. 10
 - ____ C. 6
 - ____ D. 13



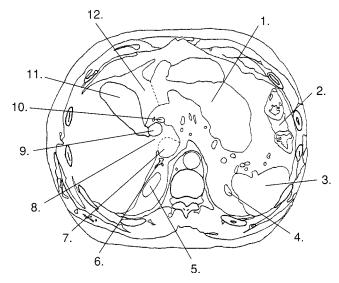


Figure 3-6

- 1. Which of the following is illustrated by 4?
 - _____ A. Splenic vein
 - _____ B. Upper pole of left kidney
 - ____ C. Left adrenal gland
 - _____ D. Inferior mesenteric vein
- 2. What number illustrates the adrenal gland?
 - ____ A. 6
 - ____ B. 9
 - ____ C. 7
 - ____ D. 5
- 3. What number illustrates the gallbladder?
 - ____ A. 7
 - ____ B. 9
 - ____ C. 12
 - ____ D. 11

- 4. Which of the following is illustrated by 12?
 - ____ A. Left lobe of liver
 - ____ B. Caudate lobe of liver
 - ____ C. Gallbladder
 - ____ D. Quadrate lobe of liver
- 5. Which of the following is illustrated by 10?
 - _____ A. Common hepatic artery
 - _____ B. Proper hepatic artery
 - ____ C. Portal vein
 - _____ D. Gastroduodenal artery



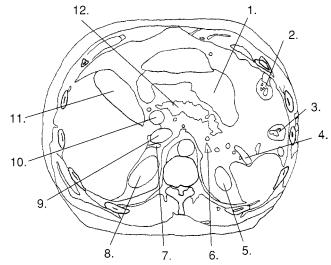


Figure 3-7

- 1. What number illustrates the descending colon?
 - ____ A. 9
 - ____ В. 3
 - ____ C. 1
 - ____ D. 2
- 2. Which of the following is illustrated by 7?
 - _____ A. Upper pole of right kidney
 - _____ B. Inferior vena cava
 - __ C. Splenic vein
 - ____ D. Right adrenal gland
- 3. Which of the following is illustrated by 10?
 - _____ A. Transverse colon
 - _____ B. Inferior vena cava
 - ____ C. Portal vein
 - _____ D. Proper hepatic artery

- 4. Which of the following is illustrated by 2?
 - ____ A. Descending colon
 - _____ B. Splenic vein
 - ____ C. Transverse colon
 - ____ D. Left adrenal
- 5. What number illustrates the body of the pancreas?
 - ____ A. 11
 - ____ B. 1
 - ___ C. 8
 - ____ D. 12



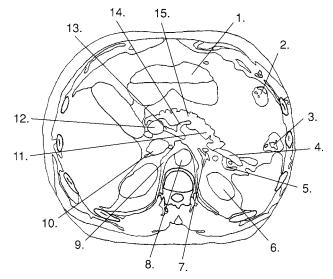


Figure 3-8

- 1. Which of the following is illustrated by 13?
 - _____ A. Hepatic artery
 - _____ B. Splenic artery
 - ____ C. Celiac trunk
 - ____ D. Cystic duct
- 2. What number illustrates the transverse colon?
 - ____ A. 2
 - ____ B. 3
 - ____ C. 1
 - ____ D. 15
- 3. Which of the following is illustrated by 11?
 - _____ A. Body of pancreas
 - ____ B. Stomach
 - ____ C. Duodenum
 - _____ D. Tail of pancreas

- 4. Which of the following is illustrated by 6?
 - _____ A. Left adrenal gland
 - ____ B. Left kidney
 - ____ C. Splenic flexure of colon
 - ____ D. Spleen
- 5. What number illustrates the splenic artery?
 - ____ A. 13
 - ____ B. 5
 - ____ C. 4
 - ____ D. 7



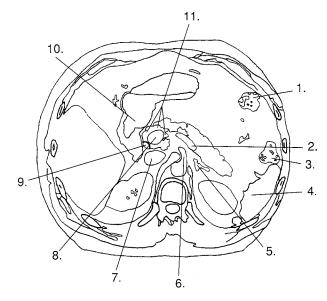


Figure 3-9

1.	Which of t	the following is illustrated by 9?
	A.	Superior mesenteric artery
	В.	Hepatic artery
	C.	Portal vein
	D.	Common bile duct
2.	What num	ber illustrates the celiac trunk?
	A.	8
	В.	6
	C.	5
	D.	7
3.		the following is illustrated by 4?
	Δ	Left adrenal gland

_ B. Inferior vena cava

_ D. Head of pancreas

___ C. Spleen

- 4. What number illustrates the pyloric antrum of the stomach? ____ A. 6 ____ B. 1 ____ C. 3 ____ D. 10 5. Which of the following is illustrated by 11?A. Head of pancreasB. Pyloric antrum of stomach ____ C. Common bile duct
- ____ D. Duodenum



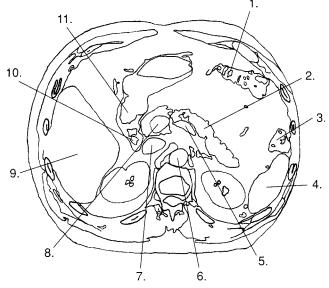


Figure 3-10

1.	Which of	the following is illustrated by 2?	4.
	A.	Splenic vein	
	В.	Body of pancreas	
	С.	Portal vein	
	D.	Duodenum	
2.		nber illustrates the first part of the small	5.
	bowel?		
	A.	7	
	В.	2	
	С.	11	
	D.	10	

- 3. What number illustrates the descending or abdominal aorta?
 - ____ A. 7 ____ B. 2
 - ____ C. 6

 - ____ D. 5

- Which of the following is illustrated by 9?
 - ____ A. Liver

 - B. Spleen
 C. Body of pancreas
 - ____ D. Pyloric antrum of stomach
- Which of the following is illustrated by 1?
 - ____ A. Descending colon
 - _____ B. Transverse colon
 - ____ C. Ascending colon
 - ___ D. Duodenum



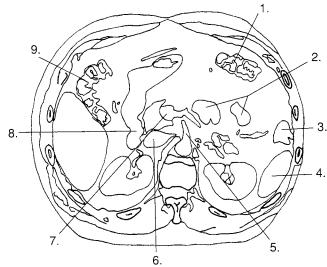
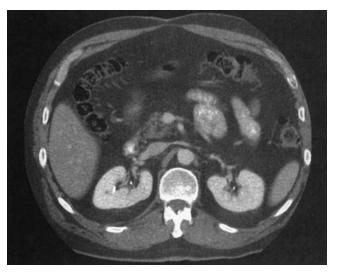


Figure 3-11

What number illustrates the vein carrying nutrient-rich venous blood to the liver? A. 6 B. 5 C. 8 D. 7	4. What number illustrates the descending colon? A. 3 B. 1 C. 9 D. 4
Which of the following is illustrated by 9? A. Transverse colon B. Duodenum C. Hepatic flexure at colon D. Descending colon	5. Which of the following is illustrated by 4? ———————————————————————————————————
Which of the following is illustrated by 5? A. Celiac trunk B. Superior mesenteric artery C. Inferior mesenteric artery D. Inferior vena cava	



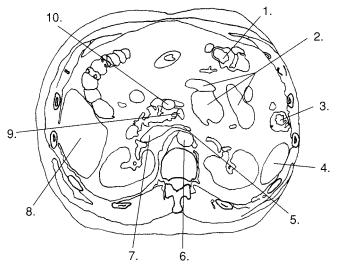


Figure 3-12

1.	Which of t	he followi	ng is	illu	strated by 10?
	A.	Portal ve	in		
	n	0	1 -1	1	

- B. Common bile duct
- _____ C. Superior mesenteric artery
- _____ D. Superior mesenteric vein
- 2. Which of the following is illustrated by 5?
 - _____ A. Inferior mesenteric vein
 - _____ B. Left renal vein
 - ____ C. Crus of diaphragm
 - _____ D. Superior mesenteric vein
- 3. What number illustrates the loops of the small bowel?
 - ____ A. 3
 - ____ B. 2
 - ___ C. 4
 - ____ D. 1

- 4. What number illustrates the superior mesenteric artery?
 - ____ A. 10
 - ____ B. 5
 - ____ C. 9
 - ____ D. 7
- 5. Which of the following is illustrated by 3?
 - ____ A. Loops of small bowel
 - _____ B. Ascending colon
 - ____ C. Transverse colon
 - ___ D. Descending colon



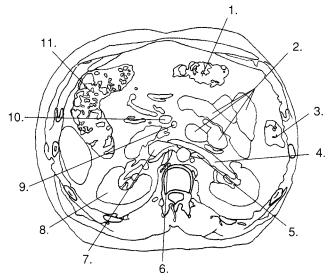


Figure 3-13

1. Which of the following is illustrated by 4? ____ A. Left renal vein _____ B. Renal artery ____ C. Inferior mesenteric vein _____ D. Inferior mesenteric artery 2. What number illustrates the inferior vena cava? ____ A. 6 ____ B. 9 ____ C. 7 ____ D. 5 3. Which of the following is illustrated by 8? ____ A. Adrenal gland

____ B. Kidney

____ C. Loops of small bowel ____ D. Hepatic flexure of colon

- 4. What number illustrates the hepatic flexure of the colon? ____ A. 3 ____ B. 8 ____ C. 1
- 5. Which of the following is illustrated by 5? _____ A. Renal vein _____ B. Renal artery ____ C. Superior mesenteric vein _____ D. Superior mesenteric artery

____ D. 11



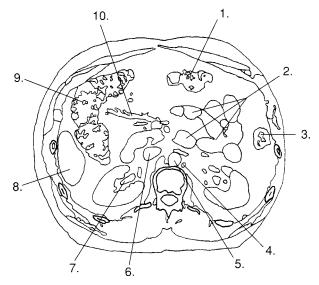
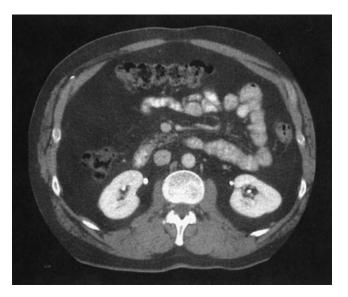


Figure 3-14

- 1. Which of the following is illustrated by 8?
 - ____ A. Descending colon
 - _____ B. Spleen

 - C. Liver
 D. Adrenal gland
- 2. What number illustrates the hemiazygos vein?
 - ____ A. 4
 - ____ B. 5
 - ____ C. 7
 - ____ D. 6
- 3. What number illustrates the right renal pelvis?
 - ____ A. 8
 - ____ B. 6
 - ____ C. 7
 - ____ D. 5

- 4. Which of the following is illustrated by 10?
 - ____ A. Portal vein
 - _____ B. Loops of small bowel
 - ____ C. Common bile duct
 - ____ D. Mesenteric vessels
- 5. Which of the following is illustrated by 5?
 - ____ A. Hemiazygos vein
 - _____ B. Descending aorta
 - ____ C. Inferior vena cava
 - _____ D. Inferior mesenteric artery



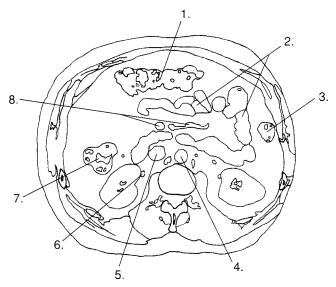
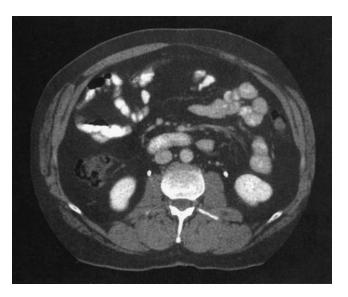


Figure 3-15

- 1. What number illustrates the abdominal aorta?
 - ____ A. 4
 - ____ В. 8
 - ____ C. 5
 - ____ D. 6
- 2. Which of the following is illustrated by 6?
 - ____ A. Right renal vein
 - _____ B. Right renal artery
 - ____ C. Right ureter
 - ____ D. Azygos vein
- 3. Which of the following is illustrated by 8?
 - _____ A. Celiac vessels
 - _____ B. Superior mesenteric vessels
 - ____ C. Inferior mesenteric vessels
 - ____ D. Loops of small bowel

- 4. Which of the following is illustrated by 3?
 - ____ A. Ascending colon
 - _____ B. Small bowel
 - ____ C. Cecum
 - ____ D. Descending colon
- 5. What number illustrates the ascending colon?
 - ____ A. 2
 - ____ B. 1
 - ____ C. 3
 - ____ D. 7



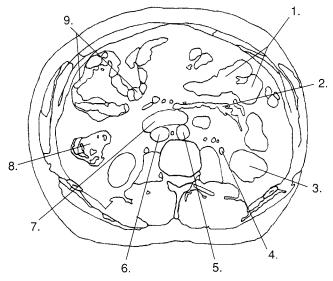
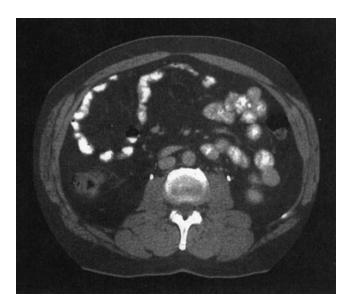


Figure 3-16

- 1. Which of the following is illustrated by 1?
 - ____ A. Ascending colon
 - _____ B. Transverse colon
 - ____ C. Descending colon
 - ____ D. Loops of small bowel
- 2. Which of the following is illustrated by 3?
 - ____ A. Adrenal gland
 - _____ B. Lower pole of left kidney
 - ____ C. Ascending colon
 - ____ D. Spleen
- 3. What number illustrates the duodenum?
 - ____ A. 3
 - ____ B. 1
 - ____ C. 6
 - ____ D. 7

- 4. What number illustrates the inferior vena cava?
 - ____ A. 5
 - ____ B. 4
 - ____ C. 6
 - ____ D. 7
- 5. Which of the following is illustrated by 4?
 - ____ A. Left ureter
 - _____ B. Left renal vein
 - ____ C. Left renal artery
 - ____ D. Hemiazygos vein



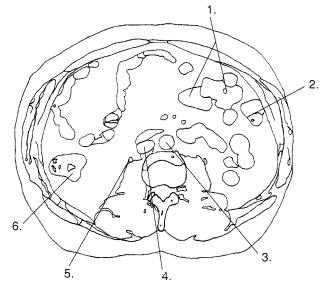
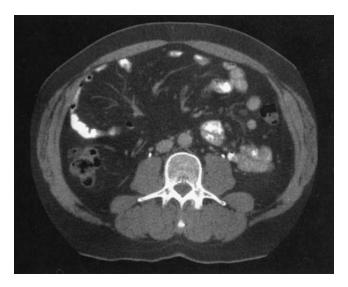


Figure 3-17

1.	What number illustrates the abdominal aorta?
	A. 3
	В. 6
	C. 5
	D. 4
2.	Which of the following is illustrated by 6?
	A. Small bowel
	B. Ascending colon
	C. Descending colon
	D. Cecum
3.	What number illustrates the inferior vena cava?
	A. 5
	B 2

____ C. 4 ____ D. 3

4. Which of the following is illustrated by 2? ____ A. Loops of small bowel ____ B. Ascending colon ____ C. Cecum ____ D. Descending colon 5. Which of the following is illustrated by 5? ____ A. Inferior mesenteric artery ____ B. Right ureter C. Interior mesenteric vein
D. Right renal artery



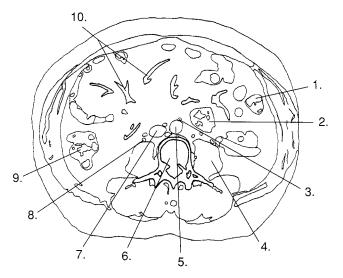
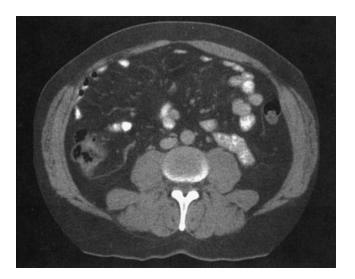


Figure 3-18

- 1. Which of the following is illustrated by 3?
 - _____ A. Superior mesenteric artery
 - _____ B. Inferior mesenteric artery
 - ____ C. Celiac trunk
 - ____ D. Ureter
- 2. Which of the following is illustrated by 1?
 - _____ A. Ascending colon
 - B. Small bowel
 - ____ C. Descending colon
 - ___ D. Cecum
- 3. What number illustrates the ascending colon?
 - ____ A. 10
 - ____ B. 1
 - ____ C. 2
 - ____ D. 9

- 4. Which of the following is illustrated by 2?
 - ____ A. Small bowel
 - _____ B. Descending colon
 - ____ C. Transverse colon
 - ____ D. Ascending colon
- 5. What number illustrates the inferior mesenteric artery?
 - ____ A. 7
 - ____ B. 10
 - ____ C. 8
 - ____ D. 3



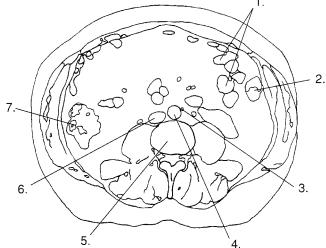


Figure 3-19

- 1. What number illustrates the loops of the small bowel?
 - ____ A. 1
 - ____ B. 7
 - ____ C. 2 ___ D. 4
- 2. Which of the following is illustrated by 5?
 - ____ A. Psoas muscle
 - _____ B. Vertebral body of L3
 - ____ C. Intervertebral disk
 - ____ D. Vertebral body of L4
- 3. Which of the following is illustrated by 7?
 - ____ A. Descending colon
 - _____ B. Ascending colon
 - ____ C. Small bowel
 - ____ D. Cecum

- 4. What number illustrates the abdominal aorta?
 - ____ A. 2
 - ____ B. 1
 - ____ C. 4 ___ D. 6
- 5. Which of the following is illustrated by 2?
 - ____ A. Descending colon
 - _____ B. Small bowel
 - ____ C. Ascending colon
 - ____ D. Cecum



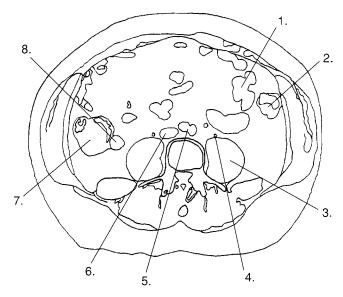


Figure 3-20

- 1. Which of the following is illustrated by 3?
 - _____ A. Iliacus muscle
 - _____ B. Psoas muscle
 - ____ C. Ascending colon
 - ____ D. Cecum
- 2. What number illustrates the common iliac arteries?
 - ____ A. 6
 - ____ B. 2
 - ____ C. 5
 - ___ D. 4
- 3. Which of the following is illustrated by 8?
 - ____ A. Cecum
 - _____ B. Descending colon
 - ____ C. Ileum
 - ____ D. Jejunum

- 4. Which of the following is illustrated by 7?
 - ____ A. Descending colon
 - _____ B. Ascending colon
 - ____ C. Small bowel
 - ____ D. Cecum
- 5. What number illustrates the small bowel?
 - ____ A. 1
 - ____ B. 3
 - ___ C. 2
 - ___ D. 7



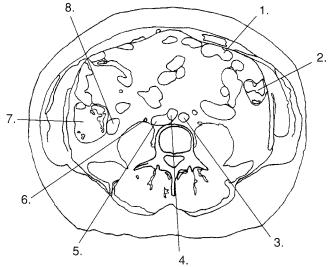


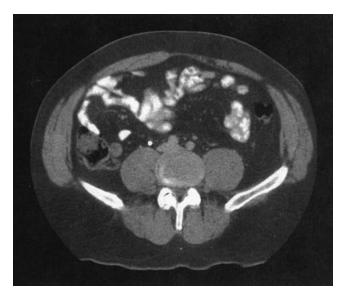
Figure 3-21

1.	What nun	nber illustrates the ureter?
	A.	4
	B.	3
	C.	5
	D.	6
2.	Which of	the following is illustrated by 8?
	A.	Right common iliac artery
	В.	Cecum
	C.	Ileum
	D.	Jejunum
3.	Which of	the following is illustrated by 4?
	A.	Inferior mesenteric artery
	В.	Right common iliac artery
	C.	Inferior mesenteric vein

____ D. Inferior vena cava

4. Which of the following is illustrated by 2?
A. Small bowel
B. Descending colon
C. Ascending colon
D. Cecum
5. What number illustrates the left common iliac artery?
A. 3
B. 8
C. 4





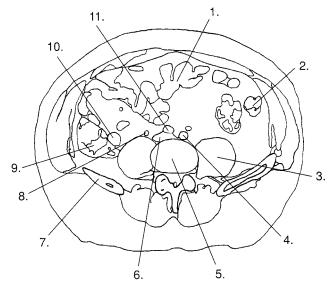


Figure 3-22

- 1. Which of the following is illustrated by 8?
 - _____ A. Left common iliac artery
 - ____ B. Ureter
 - ____ C. Inferior mesenteric artery
 - _____ D. Right common iliac artery
- 2. What number illustrates the psoas muscle?
 - ____ A. 3
 - ____ B. 10
 - ____ C. 7
 - ___ D. 5
- 3. What number illustrates the iliac crest?
 - ____ A. 9
 - ____ B. 1
 - ____ C. 7
 - ____ D. 4

- 4. Which of the following is illustrated by 5?
 - ____ A. Vertebral body of L3
 - _____ B. Intervertebral disk
 - ____ C. Vertebral body of L4
 - ____ D. Sacrum
- 5. Which of the following is illustrated by 6?
 - _____ A. Left common iliac artery
 - _____ B. Right common iliac artery
 - ____ C. Inferior mesenteric vein
 - _____ D. Inferior vena cava



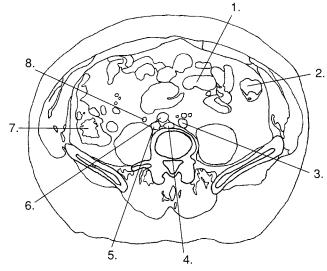


Figure 3-23

- 1. What number illustrates the small bowel? ____ A. 1

 - ____ В. 6
 - ____ C. 2
 - ____ D. 7
- 2. Which of the following is illustrated by 4?
 - _____ A. Left common iliac artery
 - _____ B. Right common iliac vein
 - ____ C. Left common iliac vein
 - _____ D. Right common iliac artery
- 3. What number illustrates the right common iliac vein?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 5
 - ____ D. 3

- 4. Which of the following is illustrated by 8?
 - _____ A. Right common iliac vein
 - _____ B. Right common iliac artery
 - ____ C. Right ureter
 - ____ D. Inferior mesenteric vein
- 5. Which of the following is illustrated by 2?
 - ____ A. Cecum
 - _____ B. Ascending colon
 - ____ C. Loops of small bowel
 - ____ D. Descending colon



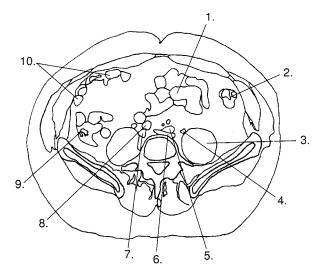


Figure 3-24

- 1. Which of the following is illustrated by 3?
 - ____ A. Small bowel
 - _____ B. Psoas muscle
 - ____ C. Right common iliac vein
 - ____ D. Cecum
- 2. What number illustrates the cecum?
 - ____ A. 2
 - ____ В. 3
 - ____ C. 1
 - ____ D. 9
- 3. What number illustrates the ureter?
 - ____ A. 4
 - ____ B. 8
 - ____ C. 7
 - ____ D. 5

- 4. Which of the following is illustrated by 1?
 - ____ A. Cecum
 - _____ B. Left psoas muscle
 - ____ C. Small bowel
 - _____ D. Transverse colon
- 5. Which of the following is illustrated by 7?
 - ____ A. Ureter
 - _____ B. Right common iliac vein
 - ____ C. Right internal iliac vein
 - _____ D. Right common iliac artery

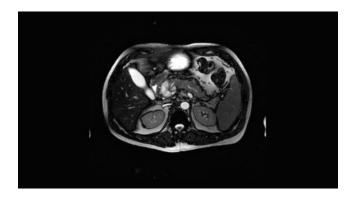
CLINICAL APPLICATIONS

1.	The boundary of the upper abdomen is formed by the, and the lower abdomen extends into the		As the superior mesenteric vessels traverse through the head of the pancreas, is the artery or vein located farther to the right?
2.	Which of the following is located most superiorly? A. Transverse colon B. Hepatic flexure C. Splenic flexure D. Jejunum	7.	Describe the function and structure of the small
3.	Which of the following is not supplied by the inferior mesenteric artery? A. Sigmoid colon B. Ascending colon C. Transverse colon D. Descending colon		intestine.
4.	Describe where the portal vein lies in relationship to the stomach and pancreas.		The stomach can be divided into three parts from superior to inferior: Describe the structure and function of the mesentery
5.	Which of the following structures is not considered retroperitoneal? A. Ileum B. Cecum C. Descending colon D. Kidneys		Which of the following would be located most anteriorly? ———————————————————————————————————

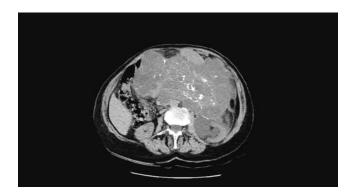
CLINICAL CORRELATIONS



 If this image was generated without radiation, which of the following would best describe the procedure: A. Computed tomography angiography (CTA) B. Magnetic resonance angiography (MRA) C. Ultrasound D. Positron emission tomography/computed tomography (PET/CT) 	 4. Which of the patient's kidneys appears to have stronger arterial blood flow? A. Right B. Left 5. A narrowing of the renal arteries would best be described by which of the following: A. Dilation
 2. In this patient, the left renal artery originates from which of the following: A. Right common iliac artery B. Left common iliac artery C. Abdominal aorta D. Ascending aorta 	B. Stenosis C. Widening D. Thinning
3. How many renal arteries can be seen within this patient? A. 1 B. 2 C. 3	



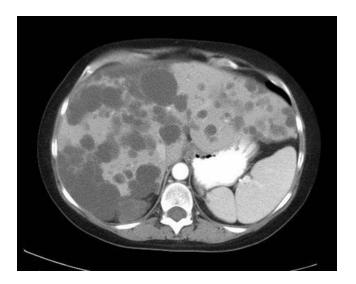
i	Describe the location of the inflammation found during magnetic resonance cholangiopancreatography of this 49-year-old male patient.	3. Describe the consistency, shape, and border.	
-			
2.]	Describe the changes in adjacent tissues.		
-			



	be the location of the mass found in this axial age of the abdomen.	3.	Describe the consistency, shape, and border.
		-	
		-	
		_	
2. Descri	be the changes in adjacent tissues.		
		-	
		_	



1. In this axial CT image, describe the location of the mass that a biopsy determined to be adenocarcinoma	3. Describe the consistency, shape, and border.
of the duodenum.	
	-
	_
2. Describe the changes in adjacent tissues.	_
	_
	_



Describe the location of the cystic kidney disease in this		3. Describe the consistency, shape, and borde	er.
2. Describe the changes in adj	acent tissues.		



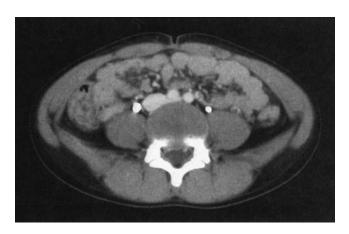
1. Describe the location of the pancreatic adenocarcinoma in this axial CT image of the upper abdomen.	3. Describe the consistency, shape, and border.
	_
	_
	_
2. Describe the changes in adjacent tissues.	
	_
	_



 Describe the location of the liver abscess in this axial CT image of the upper abdomen. 	3. Describe the consistency, shape, and border.
	-
	-
	-
2. Describe the changes in adjacent tissues.	
	-
	-
	-



Male and Female Pelvis



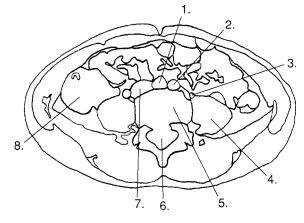


Figure 4-1

- 1. Which of the following is illustrated by 2?
 - ____ A. Abdominal aorta
 - _____ B. Inferior vena cava
 - ____ C. Common iliac artery
 - ____ D. Common iliac vein
- 2. Which of the following is illustrated by 6?
 - _____ A. Intervertebral foramen
 - _____ B. Vertebral foramen
 - ____ C. Vertebral body
 - ____ D. Intervertebral disk
- 3. Which number illustrates the psoas muscle?
 - ____ A. 7
 - ____ B. 8
 - ____ C. 4
 - ____ D. 1

- 4. Which of the following is illustrated by 7?
 - _____ A. Common iliac vein
 - _____ B. Common iliac artery
 - ____ C. Abdominal aorta
 - _____ D. Inferior vena cava
- 5. Which number illustrates the intervertebral disk?
 - ____ A. 8
 - ____ B. 5
 - ____ C. 6
 - ____ D. 4





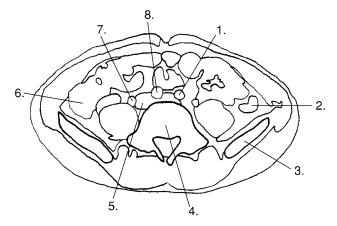


Figure 4-2

- 1. Which number illustrates the iliac crest?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 3
 - ____ D. 1
- 2. Which of the following is illustrated by 8?
 - _____ A. Inferior vena cava
 - _____ B. Common iliac artery
 - ____ C. Common iliac vein
 - ____ D. Abdominal aorta
- 3. Which of the following is illustrated by 7?
 - ____ A. Right ureter
 - _____ B. Common iliac artery
 - ____ C. Common iliac vein
 - _____ D. Inferior mesenteric artery

- 4. Which number illustrates the inferior vena cava?
 - ____ A. 8
 - ____ В. 7
 - ____ C. 1
 - ____ D. 5
- 5. Which number illustrates the descending colon?
 - ____ A. 5
 - ____ B. 2
 - ____ C. 7
 - ____ D. 6



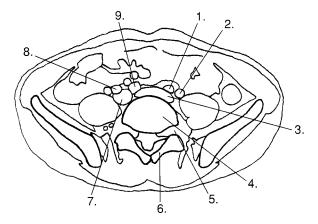
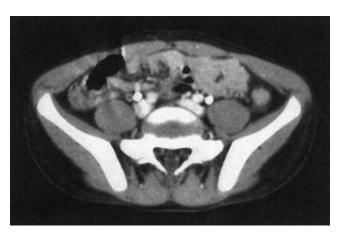


Figure 4-3

1. Which number illustrates the right common iliac artery? ____ A. 7 ____ B. 2 ____ C. 1 ____ D. 9 2. Which of the following is illustrated by 7? _____ A. Left internal iliac vein _____ B. Right common iliac vein ____ C. Left external iliac artery ____ D. Right common iliac artery 3. Which of the following is illustrated by 3? ____ A. Abdominal aorta _____ B. Left common iliac artery ____ C. Inferior vena cava

_____ D. Left common iliac vein

- 4. Which number illustrates the lamina? ____ A. 1 ____ B. 5
 - ____ C. 2 ____ D. 6
- 5. Which of the following is illustrated by 8?
 - _____ A. External iliac artery
 - _____ B. Common iliac artery
 - ____ C. Common iliac vein
 - ____ D. Ureter



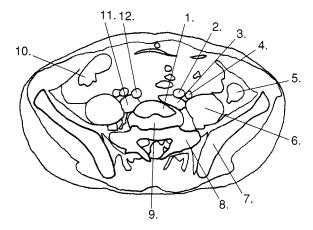


Figure 4-4

- 1. Which number illustrates the ilium?
 - ____ A. 6
 - ____ B. 5
 - ____ C. 10
 - ____ D. 7
- 2. Which of the following is illustrated by 1?
 - ____ A. S1
 - ____ B. L5
 - ____ C. Intervertebral disk
 - ____ D. L4
- 3. Which number illustrates the cecum?
 - ____ A. 11
 - ____ B. 7
 - ____ C. 10
 - ____ D. 5

- 4. Which of the following is illustrated by 2?
 - A. Left common iliac artery
 B. Left common iliac vein
 - ____ C. Left external iliac artery
 - _____ D. Left external iliac vein
- 5. Which number illustrates the psoas muscle?
 - ____ A. 7
 - ____ B. 6
 - ____ C. 5
 - ____ D. 11



____ A. Left ureter

____ D. Sacral canal

B. Left vertebral foramen
C. Left common iliac vein

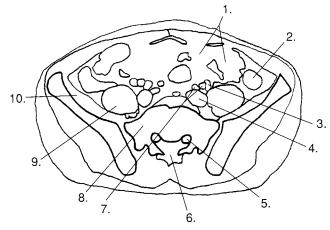


Figure 4-5

1. Which number illustrates the left common iliac vein? A. 5	4. Which number illustrates the left ureter? ———————————————————————————————————
B. 7	B. 3
C. 4	C. 7
D. 3	D. 2
2. Which of the following is illustrated by 10?	5. Which number illustrates the psoas muscle
A. Loops of small bowel	A. 10
B. Right ilium	B. 4
C. Right iliacus muscle	C. 9
D. Right psoas muscle	D. 6
3. Which of the following is illustrated by 5?	



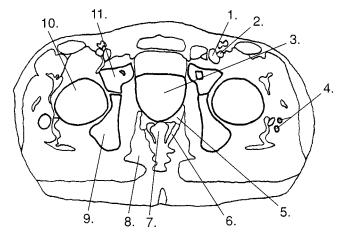


Figure 4-6

- 1. Which of the following is illustrated by 11?
 - ____ A. Ileum
 - ____ B. Cecum
 - ____ C. Descending colon
 - ____ D. Ascending colon
- 2. Which number illustrates the left internal iliac artery?
 - ____ A. 5
 - ____ B. 3
 - ____ C. 4
 - ____ D. 1
- 3. Which number illustrates the left external iliac artery?
 - ____ A. 3
 - ____ B. 4
 - ____ C. 1
 - ____ D. 5

- 4. Which of the following is illustrated by 2?
 - ____ A. Jejunum
 - ____ B. Ileum
 - ____ C. Cecum
 - ____ D. Descending colon
- 5. Which of the following is illustrated by 3?
 - _____ A. Left common iliac vein
 - _____ B. Left external iliac artery
 - ____ C. Left internal iliac artery
 - ____ D. Left ureter



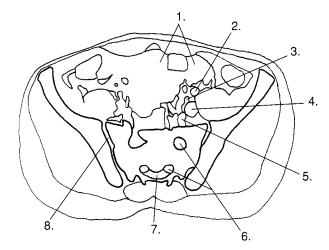
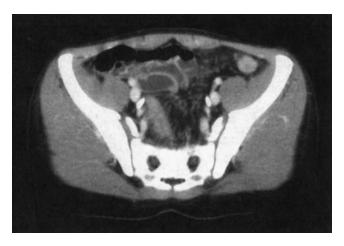


Figure 4-7

- 1. Which number illustrates the left common iliac vein?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 4
 - ____ D. 5
- 2. Which of the following is illustrated by 7?
 - _____ A. Left sacral foramen
 - _____ B. Left internal iliac artery
 - ____ C. Sacral canal
 - ____ D. Intervertebral foramen
- 3. Which number illustrates the left sacral foramina?
 - ____ A. 8
 - ____ B. 7
 - ____ C. 6
 - ____ D. 5

- 4. Which of the following is illustrated by 5?
 - _____ A. Left internal iliac artery
 - _____ B. Left external iliac artery
 - ____ C. Left common iliac vein
 - ____ D. Left ureter
- 5. Which of the following is illustrated by 3?
 - _____ A. Left external iliac artery
 - _____ B. Left ureter
 - ____ C. Left external iliac vein
 - _____ D. Left internal iliac artery



B. Right external iliac artery and veinC. Left external iliac artery and vein

____ D. Internal iliac artery and vein

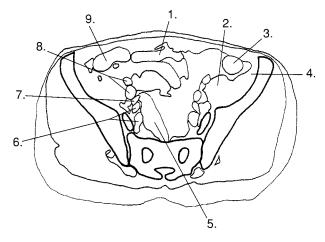


Figure 4-8

1. Which of the following is illustrated by 5?	4. Which number illustrates the iliacus muscle?
A. Small bowel	A. 3
B. Descending colon	B. 1
C. Top of sigmoid colon	C. 2
D. Top of bladder	D. 4
2. Which number illustrates the external iliac artery a	and 5. Which number illustrates the ureter?
vein?	A. 9
A. 9	B. 8
B. 7	C. 7
C. 8	D. 6
D. 6	
3. Which of the following is illustrated by 6?	
A. Right common iliac artery and vein	



C. Left common iliac artery
D. Left external iliac vein

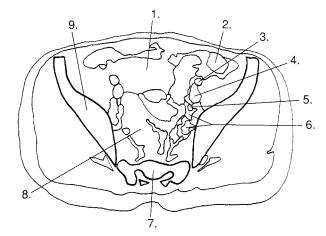


Figure 4-9

 Which number illustrates the descending colon? A. 8 B. 2 C. 1 D. 3 	4. Which number illustrates the left external iliac artery: ———————————————————————————————————
2. Which of the following is illustrated by 1? ———————————————————————————————————	 5. Which of the following is illustrated by 5? A. Left ureter B. Left external iliac artery C. Left common iliac artery D. Left external iliac vein
3. Which of the following is illustrated by 4? ———————————————————————————————————	



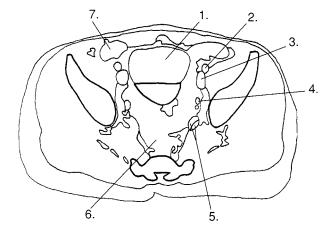
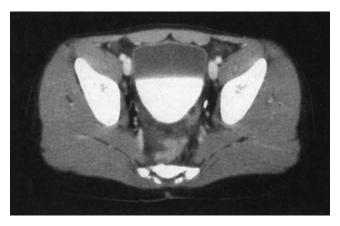


Figure 4-10

	Which number illustrates the left external iliac artery? A. 2 B. 5 C. 4 D. 3	 4. Which of the following is illustrated by 1? A. Small bowel B. Bladder C. Sigmoid colon D. Descending colon
	Which of the following is illustrated by 6? A. Bladder B. Uterus C. Sigmoid colon D. Descending colon	 5. Which of the following is illustrated by 3? A. Small bowel B. Left ureter C. Left external iliac artery D. Left external iliac vein
3.	Which number illustrates the left ureter? A. 2 B. 5 C. 4 D. 3	



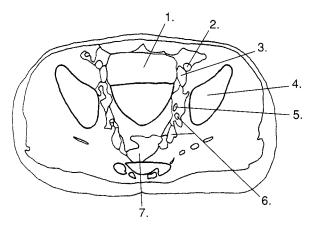
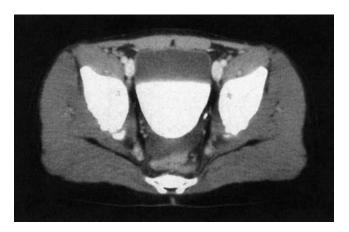


Figure 4-11

 Which of the following is illustrated by 5? A. Internal iliac vessel B. External iliac vein C. Ureter D. External iliac artery 	 4. Which of the following is illustrated by 4? A. Pubic bone B. Iliac bone C. Ischial bone D. Proximal femur
 Which number illustrates the left external iliac artery? A. 2 B. 5 C. 3 D. 6 	 5. Which of the following is illustrated by 3? A. Femoral artery B. Ureter C. External iliac artery D. External iliac vein
3. Which of the following is illustrated by 7? A. Rectum B. Sigmoid colon C. Descending colon D. Seminal vesicles	





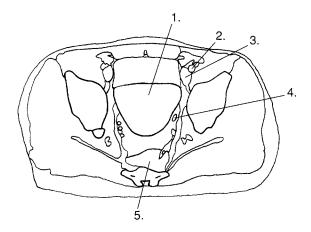
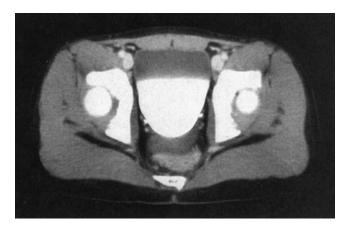


Figure 4-12

Ι.	wnien nu	nder mustrates the left external mac vein?
	A.	5
	В.	3
	C.	2
	D.	4

- 2. Which of the following is illustrated by 5?
 - ____ A. Rectum
 - _____ B. Seminal vesicles
 - ____ C. Sigmoid colon
 - ____ D. Prostate gland
- 3. Which of the following is illustrated by 4?
 - _____ A. Left seminal vesicle
 - ____ B. Left ureter
 - ____ C. Left external iliac artery
 - _____ D. Left external iliac vein

- 4. Which number illustrates the bladder?
 - ____ A. 1
 - ____ B. 5
 - ____ C. 4
 - ___ D. 2
- 5. Which number illustrates the left external iliac artery?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 3
 - ____ D. 1



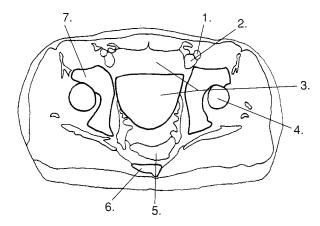
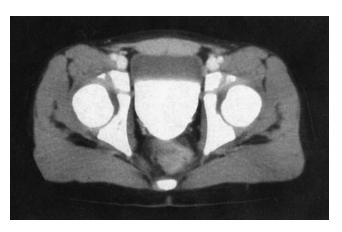


Figure 4-13

 Which number illustrates the tip of the sacrum? A. 2 B. 5 C. 4 D. 6 	4. Which number illu ——————————————————————————————————
 2. Which of the following is illustrated by 1? A. External iliac vein B. External iliac artery C. Spermatic cord D. Femoral artery 	5. Which number illu ——————————————————————————————————
3. Which of the following is illustrated by 7? A. Right ischium B. Right ilium C. Right pubis D. Greater trochanter of femur	

4. Which number illustrates the head of the femur?
A. 7
B. 4
C. 6
D. 1
5. Which number illustrates the external iliac artery?
A. 1
B. 2
C. 7



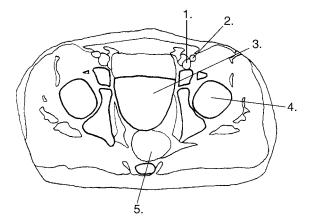
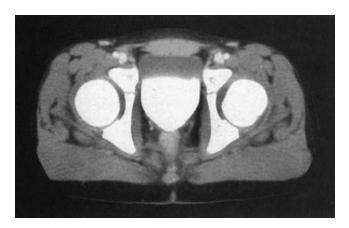


Figure 4-14

- Which number illustrates the head of the femur?
 — A. 3
 — B. 2
 — C. 1
 — D. 4
 Which of the following is illustrated by 4?
 — A. Head of right femur
 — B. Head of left femur
 — C. Right ilium
 — D. Left ilium
- 3. Which number illustrates the femoral artery?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 4
 - ____ D. 1

- 4. Which of the following is illustrated by 1?
 - _____ A. Right external iliac vein
 - _____ B. Left external iliac vein
 - ____ C. Right femoral vein
 - ____ D. Left femoral vein
- 5. Which of the following is illustrated by 5?
 - _____ A. Seminal vesicles
 - _____ B. Sigmoid colon
 - ____ C. Rectum
 - ____ D. Bladder



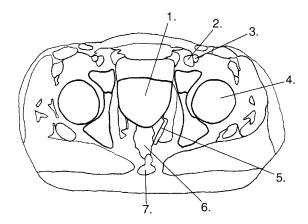
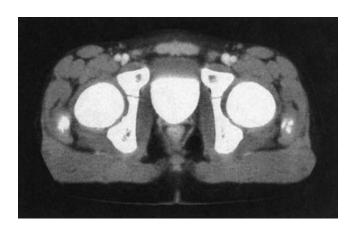


Figure 4-15

 Which of the following is illustrated by 2? A. Right external iliac vein B. Left femoral vein C. Left external iliac vein D. Right femoral vein 	 4. Which of the following is illustrated by 1? A. Coccyx B. Head of the left femur C. Bladder D. Rectum
 2. Which number illustrates the coccyx? A. 5 B. 2 C. 1 D. 7 	 5. Which number illustrates the rectum? A. 5 B. 7 C. 6 D. 1
3. Which number illustrates the pelvic diaphragm? A. 1 B. 6 C. 5 D. 3	



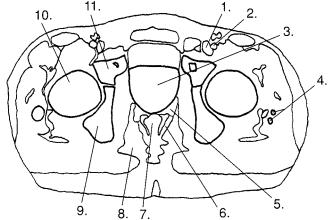
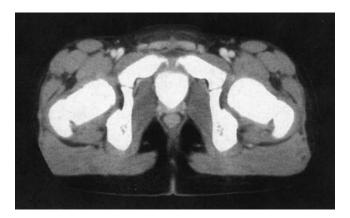


Figure 4-16

- 1. Which of the following is illustrated by 9?
 - _____ A. Right pubis
 - ____ B. Right ileum
 - ____ C. Right ischium
 - ____ D. Right ilium
- 2. Which number illustrates the pelvic diaphragm?
 - ____ A. 5
 - ____ B. 7
 - ____ C. 8
 - ____ D. 6
- 3. Which of the following is illustrated by 1?
 - ____ A. Femoral vein
 - _____ B. Femoral artery
 - ____ C. External iliac artery
 - _____ D. External iliac vein

- 4. Which number illustrates the pubis?
 - ____ A. 10
 - ____ В. 9
 - ____ C. 11
 - ____ D. 3
- 5. Which number illustrates the seminal vesicle?
 - ____ A. 7
 - ____ В. 6
 - ____ C. 5
 - ____ D. 8



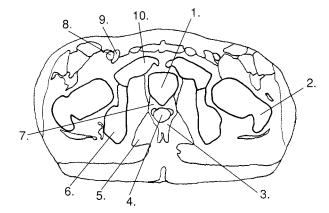
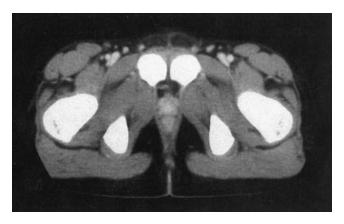


Figure 4-17

1.	Which number illustrates the right femoral vein?	4. Which of the
	A. 8	A. F
	B. 6	B. I
	C. 4	C. I
	D. 9	D. I
2.	Which of the following is illustrated by 7?	5. Which of the
	A. Seminal vesicle	A. F
	B. Adnexal area	В. Б
	C. Prostate	C. H
	D. Ischiorectal fossa	D. S
3.	Which number illustrates the bladder?	

____ A. 1 ____ B. 7 C. 3
D. 4

4.	Which of t	the following is illustrated by 6?
	A.	Pubis
	В.	Ileum
	C.	Ischium
	D.	Ilium
5.	Which of t	he following is illustrated by 4?
5.		he following is illustrated by 4? Pelvic diaphragm
5.	A.	
5.	A.	Pelvic diaphragm Rectum



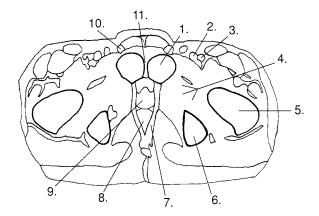


Figure 4-18

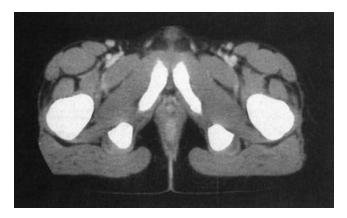
1. Which of t	the following is illustrated by 6?
A.	Ischial tuberosity
В.	Pubic bone
C.	Ischial spine
D	Proximal femur
D.	
	he following is illustrated by 1?
	2
2. Which of t	2
2. Which of t	Ilium

- 3. Which number illustrates the prostate?
 - ____ A. 6
 - ____ B. 8

 - ____ C. 1 ___ D. 9

- 4. Which number illustrates the femoral artery?
 - ____ A. 10
 - ____ B. 2

 - ____ C. 3
- 5. Which of the following is illustrated by 5?
 - _____ A. Neck of the left femur
 - _____ B. Greater trochanter of femur
 - ____ C. Lesser trochanter of femur
 - ____ D. Ischial bone



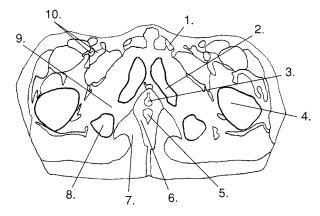


Figure 4-19

- 1. Which of the following is illustrated by 6?
 - _____ A. Pelvic diaphragm
 - ____ B. Obturator foramina
 - ____ C. Ischiorectal fossa
 - ____ D. Prostate
- 2. Which number illustrates the ischial tuberosity?
 - ____ A. 9
 - ____ B. 2
 - ____ C. 8
 - ____ D. 4
- 3. Which number illustrates the spermatic cord?
 - ____ A. 1
 - ____ B. 5
 - ____ C. 10
 - ____ D. 3

- 4. Which of the following is illustrated by 2?
 - _____ A. Superior pubic ramus
 - _____ B. Interior pubic ramus
 - ____ C. Ischial tuberosity
 - ____ D. Ischial ramus
- 5. Which number illustrates the prostate?
 - ____ A. 6
 - ____ B. 3
 - ____ C. 5
 - ____ D. 2



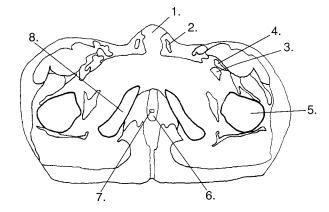
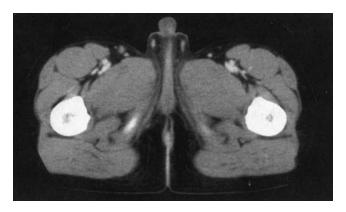


Figure 4-20

1.	Which	of t	he following is illustrated by 1?
		A.	Corpus spongiosum
		В.	Corpus cavernosum
		C.	Urethra
		D.	Symphysis pubis
2.	Which	nur	nber illustrates the urethra?
		A.	5
		В.	2
		C.	7
		D.	1
3.	Which	nur	nber illustrates the ischial ramus?
		A.	5
		В.	2
		C.	1

____ D. 8

4.	Which of	the following is illustrated by 2?
	A.	Femoral artery
	В.	Femoral vein
	C.	Spermatic cord
	D.	Urethra
	6. Which of the following is illustrated by 6?	
5.	Which of	the following is illustrated by 6?
5.		the following is illustrated by 6? Corpus cavernosum
5.	A.	
5.	A.	Corpus cavernosum Left spermatic cord



____ C. 4 ____ D. 5

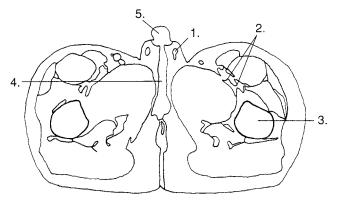


Figure 4-21

1. Which number illustrates the corpus spongiosum?	4. Which of the following is illustrated by 25
A. 5	A. Femoral vessels
B. 2	B. Corpus spongiosum
C. 4	C. Spermatic cord
D. 1	D. External iliac vessels
2. Which of the following is illustrated by 1?	5. Which of the following is illustrated by 35
A. Femoral artery	A. Ischial tuberosity
B. Spermatic cord	B. Head of femur
C. Femoral vein	C. Shaft of the left femur
D. External iliac artery	D. Greater trochanter of femur
3. Which number illustrates the corpus cavernosum?	
A. 3	
B. 1	



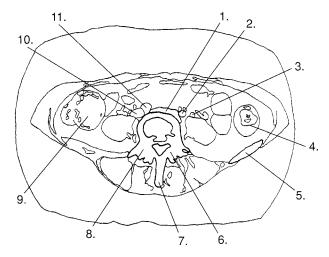


Figure 4-22

- 1. Which number illustrates the pedicle of L5?
 - ____ A. 8
 - ____ B. 6
 - ____ C. 7
 - ____ D. 9
- 2. Which of the following is illustrated by 2?
 - ____ A. Ureter
 - _____ B. Internal iliac vein
 - ____ C. Common iliac artery
 - D. Common iliac vein
- 3. Which number illustrates the left common iliac vein?
 - ____ A. 11
 - ____ B. 2
 - ____ C. 1
 - ____ D. 3

- 4. Which of the following is illustrated by 6?
 - _____ A. Intervertebral foramen
 - _____ B. Lamina of L5
 - ____ C. Spinous process of L5
 - ____ D. Pedicle of L5
- 5. Which of the following is illustrated by 3?
 - ____ A. Common iliac vein
 - _____ B. Common iliac artery
 - ____ C. External iliac artery
 - ____ D. Ureter



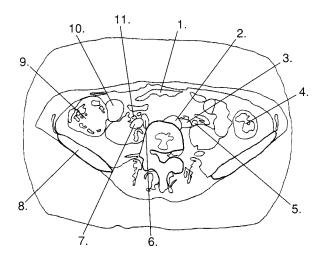


Figure 4-23

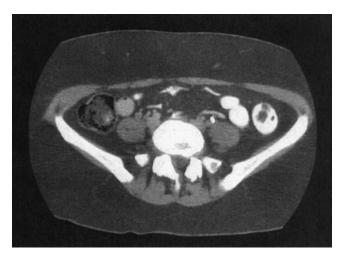
1. Which of the following is illustrated by 4?
A. Descending colon
B. Ascending colon
C. Ileum
D. Cecum
2. Which number illustrates the left common iliac artery?
A. 5
B. 2
C. 3
D. 6
3. Which of the following is illustrated by 1?

____ A. Cecum

_____ B. Transverse colon ____ C. Small bowel ____ D. Sigmoid colon

4. Which number illustrates the right common iliac vein? ____ A. 10 ____ B. 7 ____ C. 11 ____ D. 6 5. Which of the following is illustrated by 11? ____ A. Ureter _____ B. Common iliac vein

____ C. External iliac artery _____ D. Common iliac artery



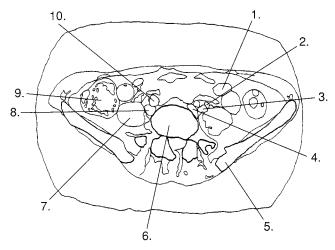
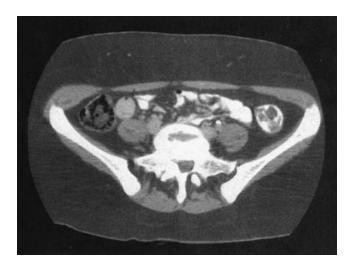


Figure 4-24

- 1. Which of the following is illustrated by 2? ____ A. Common iliac vein

 - ____ B. Ureter
 - ____ C. Common iliac artery
 - _____ D. External iliac artery
- 2. Which number illustrates the right common iliac artery?
 - ____ A. 3
 - ____ B. 8
 - ____ C. 2 ___ D. 10
- 3. Which number illustrates the left common iliac artery?
 - ____ A. 2
 - ____ B. 3
 - ____ C. 4
 - ____ D. 10

- 4. Which number illustrates the left common iliac vein?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 1
 - ____ D. 4
- 5. Which of the following is illustrated by 10?
 - _____ A. Common iliac vein
 - _____ B. Psoas muscle
 - ____ C. Common iliac artery
 - ____ D. Inferior mesenteric artery



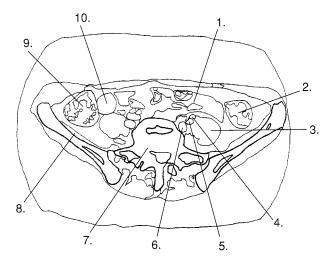


Figure 4-25

1.	Which	numb	er il	lustrates	the	small	bowel?
----	-------	------	-------	-----------	-----	-------	--------

- ____ A. 1
- ____ B. 3
- ____ C. 2 ___ D. 9

2. Which of the following is illustrated by 4?

- _____ A. Common iliac artery
- ____ B. Ureter
- ____ C. Common iliac vein
- ____ D. External iliac artery

3. Which of the following is illustrated by 8?

- ____ A. Psoas muscle
- _____ B. Iliacus muscle
- ____ C. Ileum
- ____ D. Ilium

- 4. Which number illustrates the common iliac artery?
 - ____ A. 6
 - ____ В. 3
 - ____ C. 5
 - ____ D. 4
- 5. Which number illustrates the descending colon?
 - ____ A. 2
 - ____ В. 9
 - ____ C. 10
 - ____ D. 3



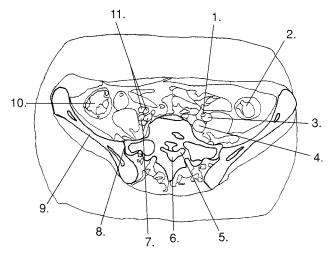


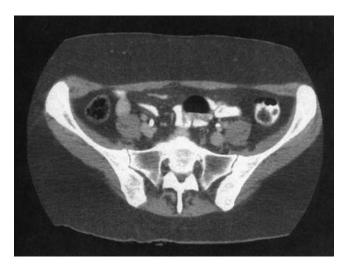
Figure 4-26

- 1. Which number illustrates the right sacroiliac joint? ____ A. 9 ____ B. 5

 - ____ C. 8
 - ____ D. 6
- 2. Which of the following is illustrated by 4?
- ____ A. Common iliac vein
 - ____ B. Ureter
- ____ C. Internal iliac artery
- ____ D. Common iliac artery
- 3. Which of the following is illustrated by 3?
 - _____ A. Internal iliac artery
 - _____ B. Common iliac artery
 - ____ C. Ureter
 - ____ D. External iliac vein

- 4. Which number illustrates the cecum?
 - ____ A. 2 ____ B. 9

 - ____ C. 4
 - ____ D. 10
- 5. Which number illustrates the descending colon?
 - ____ A. 10
 - ____ B. 6
 - ____ C. 3
 - ____ D. 2



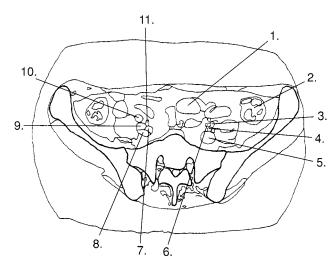
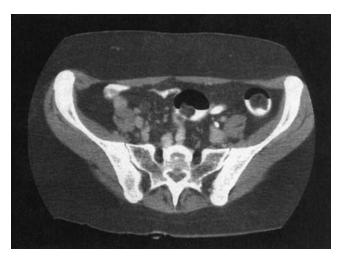


Figure 4-27

- 1. Which of the following is illustrated by 6?
 - _____ A. External iliac artery
 - _____ B. Internal iliac artery
 - ____ C. Internal iliac vein
 - ____ D. Ureter
- 2. Which number illustrates the right external iliac artery?
 - ____ A. 11
 - ____ B. 8
 - ____ C. 10
 - ____ D. 7
- 3. Which of the following illustrates the right internal iliac vein?
 - __ A. 9
 - ____ B. 8
 - ____ C. 7
 - ____ D. 10

- 4. Which number illustrates the left common iliac vein?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 5
 - ____ D. 3
- 5. Which of the following illustrates the left external iliac artery?
 - ____ A. 5
 - ____ B. 4
 - ____ C. 3
 - ____ D. 6



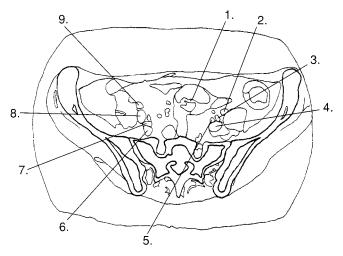


Figure 4-28

1.	Which	of the	follow	ing is	illust	rated	by 8?
----	-------	--------	--------	--------	--------	-------	-------

- _ A. External iliac vein
- ____ B. Internal iliac vein
- ____ C. External iliac artery
 - ___ D. Internal iliac artery

2. 1	Which	number	illustrates	the extern	al iliac	artery?
------	-------	--------	-------------	------------	----------	---------

- ____ A. 2
- ____ B. 4
- ____ C. 3
- ____ D. 5
- 3. Which of the following is illustrated by 5?
 - ____ A. Common iliac vein
 - ____ B. Ureter
 - ____ C. Internal iliac artery
 - _____ D. External iliac artery

- 4. Which number illustrates the internal iliac artery?
 - ____ A. 8
 - ____ B. 7
 - ____ C. 6
 - ____ D. 9

5. Which of the following is illustrated by 3?

- ____ A. Ureter
- _____ B. External iliac artery
- ____ C. Common iliac vein
- D. Internal iliac artery



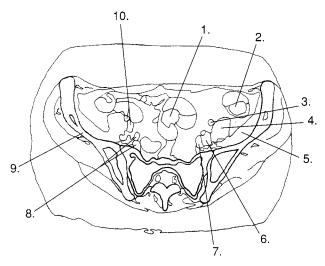


Figure 4-29

1.	Which	of	the	tol	lowi	ing	is	illustra	ated	by 2?)
			\mathbf{D}		1	·		. 1			

- _ A. Descending colon
- _____ B. Sigmoid colon
- ____ C. Left psoas muscle
- ____ D. Ascending colon

2. Which number illustrates the left internal iliac artery?

- ____ A. 6
- ____ B. 3
- ____ C. 4
- ____ D. 7
- 3. Which number illustrates the iliacus muscle?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 5
 - ____ D. 6

- 4. Which of the following is illustrated by 4?
 - ____ A. Small bowel
 - _____ B. Psoas muscle
 - ____ C. Internal iliac vein
 - ____ D. Sigmoid colon
- 5. Which of the following is illustrated by 6?
 - _____ A. External iliac artery
 - _____ B. Internal iliac artery
 - ____ C. Internal iliac vein
 - _____ D. Common iliac vein



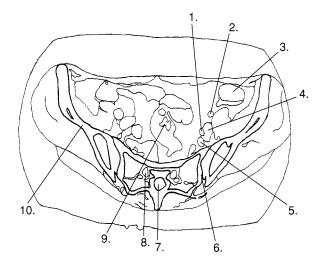


Figure 4-30

- 1. Which of the following is illustrated by 4?
 - _____ A. External iliac artery
 - _____ B. Common iliac vein
 - ____ C. Ureter
 - _____ D. Internal iliac artery
- 2. Which number illustrates the sigmoid colon?
 - ____ A. 6
 - ____ В. 5
 - ____ C. 8
 - ____ D. 9
- 3. Which of the following is illustrated by 5?
 - ____ A. Internal iliac artery
 - ____ B. Ureter
 - ____ C. Common iliac vein
 - _____ D. External iliac artery

- 4. Which number illustrates the sacral canal?
 - ____ A. 7
 - ____ B. 9
 - ____ C. 8
 - ____ D. 10
- 5. Which number illustrates the sacral foramen?
 - ____ A. 10
 - ____ B. 7
 - ____ C. 8
 - ____ D. 6



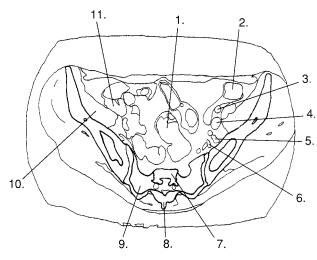


Figure 4-31

- 1. Which of the following is illustrated by 9?
 - _____ A. Lateral part of the sacrum
 - _____ B. Spinous process
 - ____ C. Vertebral body
 - D. Sigmoid colon
- 2. Which number illustrates the psoas muscle?
 - ____ A. 10
 - ____ B. 9
 - ____ C. 1
 - ____ D. 11
- 3. Which of the following is illustrated by 5?
 - _____ A. External iliac artery
 - _____ B. Internal iliac vein
 - ____ C. External iliac vein
 - _____ D. Internal iliac artery

- 4. Which number illustrates the spinous process?
 - ____ A. 9
 - ____ B. 8
 - ____ C. 7
 - ____ D. 11
- 5. Which of the following illustrates the iliacus muscle?
 - ____ A. 11
 - ____ В. 9
 - ____ C. 10
 - ____ D. 8

110 Introduction to Sectional Anatomy Workbook and Review Guide



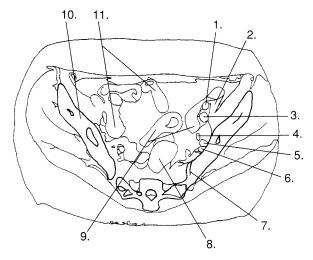
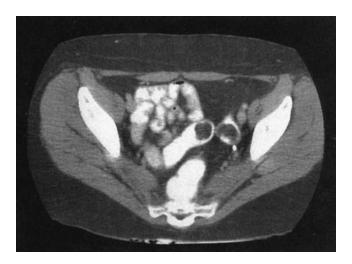


Figure 4-32

- 1. Which of the following is illustrated by 8? ____ A. Ileum
 - ____ B. Rectum
 - ____ C. Sigmoid colon
 - ____ D. Uterus
- 2. Which number illustrates the left internal iliac artery?
 - ____ A. 5
 - ____ B. 6
 - ____ C. 3
 - ____ D. 1
- 3. Which of the following is illustrated by 4?
 - ____ A. Internal iliac vein
 - _____ B. Internal iliac artery
 - ____ C. External iliac vein
 - ____ D. Ureter

- 4. Which number illustrates the sigmoid colon?
 - ____ A. 8
 - ____ В. 7

 - ____ C. 9 ____ D. 11
- 5. Which of the following is illustrated by 1?
 - ____ A. External iliac artery
 - _____ B. Internal iliac vein
 - ____ C. Internal iliac artery
 - _____ D. External iliac vein



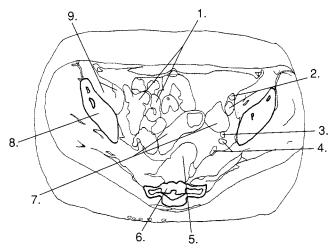
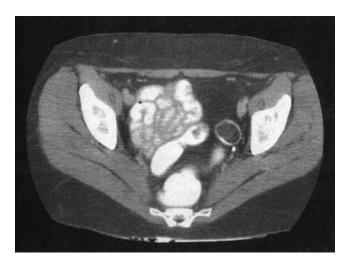


Figure 4-33

- 1. Which of the following is illustrated by 9?
 - ____ A. Loops of the ileum
 - _____ B. Iliac muscle
 - ____ C. Iliopsoas muscle
 - ____ D. Psoas muscle
- 2. Which number illustrates the rectum?
 - ____ A. 5
 - ____ B. 9
 - ____ C. 1
 - ____ D. 7
- 3. Which of the following is illustrated by 6?
 - ____ A. Ilium
 - _____ B. Ischium
 - ____ C. Coccyx
 - ____ D. Sacrum

- 4. Which of the following is illustrated by 7?
 - ____ A. Descending colon
 - ____ B. Rectum
 - ____ C. Loops of the ileum
 - ____ D. Sigmoid colon
- 5. Which number illustrates the ilium?
 - ____ A. 5
 - ____ B. 1
 - ____ C. 8
 - ____ D. 9

112 Introduction to Sectional Anatomy Workbook and Review Guide



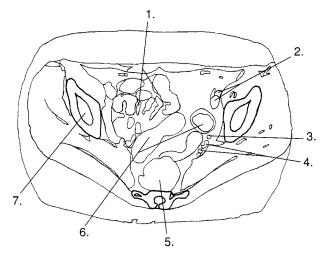
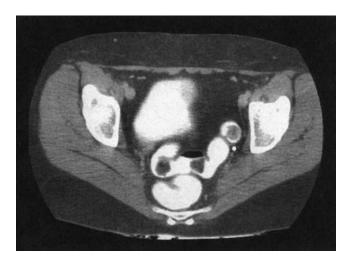


Figure 4-34

- Which of the following is illustrated by 2?
 A. Femoral artery and vein
 B. External iliac artery and vein
 C. Gluteal artery and vein
 D. Internal iliac artery and vein
- $2. \ \ Which number illustrates the sigmoid colon?$
 - ____ A. 4
 - ____ B. 1
 - ____ C. 5
 - ____ D. 6
- 3. Which number illustrates the left internal iliac artery and vein?
 - ____ A. 2
 - ____ B. 4
 - ____ C. 3
 - ____ D. 6

- 4. Which of the following is illustrated by 1?
 - ____ A. Sigmoid colon
 - _____ B. Top of bladder
 - ____ C. Loops of ileum
 - ____ D. Loops of ilium
- 5. Which number illustrates the rectum?
 - ____ A. 7
 - ____ B. 5
 - ____ C. 6
 - ____ D. 3



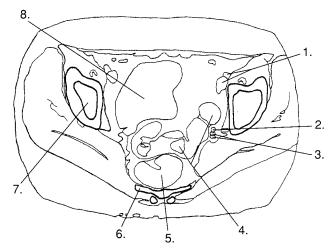
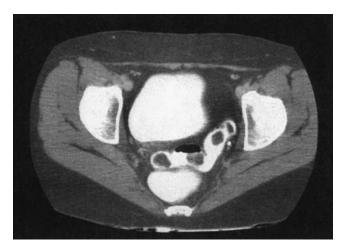


Figure 4-35

- 1. Which of the following is illustrated by 7?
 - ____ A. Ischium
 - _____ B. Pubis
 - ____ C. Ilium
 - ____ D. Ileum
- 2. Which of the following is illustrated by 4?
 - ____ A. Small bowel
 - _____ B. Sigmoid colon
 - ____ C. Descending colon
 - ____ D. Rectum
- 3. Which number illustrates the rectum?
 - ____ A. 6
 - ____ B. 5
 - ____ C. 4
 - ____ D. 8

- 4. Which of the following illustrates the bladder?
 - ____ A. 5
 - ____ B. 4
 - ____ C. 7
 - ____ D. 8
- 5. Which of the following is illustrated by 3?
 - ____ A. Gluteal artery and vein
 - _____ B. Common iliac artery and vein
 - C. External iliac artery and vein
 - _____ D. Internal iliac artery and vein

114 Introduction to Sectional Anatomy Workbook and Review Guide



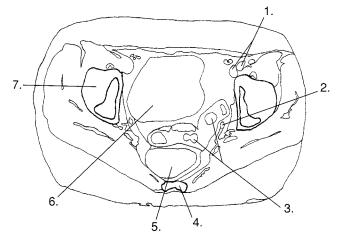


Figure 4-36

- 1. Which of the following is illustrated by 7?
 - ____ A. Ileum
 - _____ B. Ilium
 - ____ C. Ischium
 - ____ D. Pubis
- 2. Which of the following is illustrated by 2?
 - _____ A. External iliac artery
 - _____ B. Internal iliac artery
 - ____ C. Ureter
 - _____ D. Internal iliac vein
- 3. Which of the following is illustrated by 3?
 - ____ A. Sigmoid colon
 - ____ B. Rectum
 - ____ C. Small bowel
 - ____ D. Descending colon

- 4. Which number illustrates the rectum?
 - ____ A. 2
 - ____ B. 6
 - ____ C. 5
 - ____ D. 3
- 5. Which number illustrates the bladder?
 - ____ A. 5
 - ____ В. 6
 - ____ C. 3
 - ____ D. 2



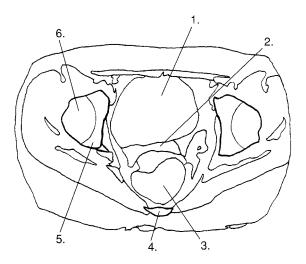
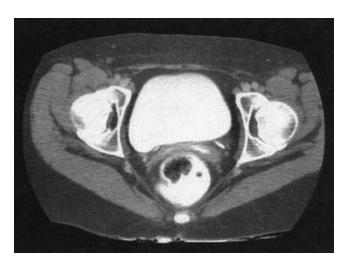


Figure 4-37

1.	Which of	the following is illustrated by 2?
	A.	Cervix of uterus
	В.	Vagina
	С.	Adnexal area
	D.	Fundus of uterus
2.	Which of	the following is illustrated by 4?
	A.	Sacrum
	В.	Coccyx
	C.	Ischium
	D.	Pubis
3.	Which of	the following is illustrated by 5?
	A.	Ilium

____ B. Ischium ____ C. Pubis ____ D. Femur

4.	Which o	of t	he following is illustrated by 3?
	A	A.	Sigmoid colon
	I	B.	Rectum
	(C.	Vagina
	I	D.	Cervix of uterus
5.	Which o	of t	he following is illustrated by 6?
	A	A.	Shaft of femur
	I	B.	Ilium
	(C.	Neck of femur



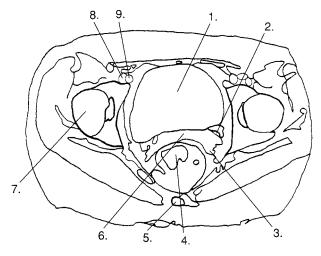


Figure 4-38

- 1. Which of the following is illustrated by 3?
 - ____ A. Adnexal area
 - _____ B. Pelvic diaphragm
 - ____ C. Body of uterus
 - ____ D. Seminal vesicle
- 2. Which number illustrates the femoral artery?
 - ____ A. 2
 - ____ B. 9
 - ____ C. 8 ___ D. 5
- 3. Which number illustrates the femoral vein?
 - ____ A. 3
 - ____ B. 8
 - ____ C. 9
 - ____ D. 7

- 4. Which of the following is illustrated by 2?
 - _____ A. Internal iliac artery
 - ____ B. Ureter
 - ____ C. Femoral nerve
 - _____ D. Internal iliac vein
- 5. Which of the following is illustrated by 5?
 - ____ A. Ilium
 - ____ B. Ischium
 - ____ C. Sacrum
 - ____ D. Coccyx



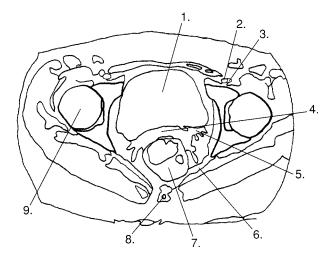


Figure 4-39

1.	Which number illustrates the femoral vein?
	A. 8
	B. 2
	C. 3
	D. 9
2.	Which of the following is illustrated by 7?

- _____ A. Left adnexal area
- _____ B. Body of the uterus
- ____ C. Bladder
- ____ D. Rectum
- 3. Which of the following is illustrated by 3?
 - ____ A. Femoral vein
 - _____ B. Femoral artery
 - ____ C. External iliac artery
 - _____ D. External iliac vein

- 4. Which number illustrates the pelvic diaphragm?
 - ____ A. 4
 - ____ B. 7
 - ____ C. 6
 - ____ D. 5
- 5. Which of the following is illustrated by 5?
 - ____ A. Adnexal area
 - _____ B. Body of uterus
 - ____ C. Pelvic diaphragm
 - ____ D. Ureter



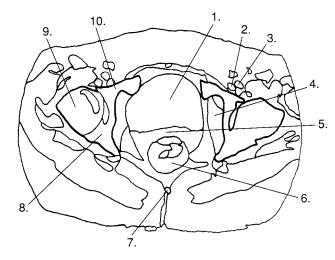


Figure 4-40

- 1. Which of the following is illustrated by 4?
 - ____ A. Left adnexal area
 - _____ B. Body of uterus
 - ____ C. Pelvic diaphragm
 - ____ D. Obturator foramen
- 2. Which number illustrates the pubis?
 - ____ A. 5
 - ____ В. 9
 - ____ C. 8
 - ____ D. 10
- 3. Which of the following is illustrated by 9?
 - _____ A. Right pubis
 - _____ B. Head of right femur
 - ____ C. Right ischium
 - _____ D. Greater trochanter of femur

- 4. Which of the following is illustrated by 7?
 - ____ A. Coccyx
 - ____ B. Sacrum
 - ____ C. Ischium
 - ____ D. Pubis
- 5. Which number illustrates the ischium?
 - ____ A. 4
 - ____ B. 9
 - ____ C. 8
 - ____ D. 5



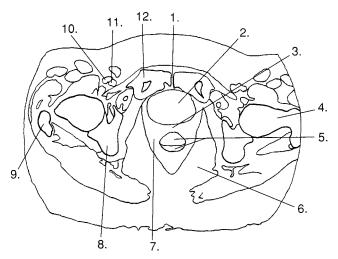


Figure 4-41

- 1. Which number illustrates the pubis?
 - ____ A. 9
 - ____ B. 8
 - ____ C. 1
 - ____ D. 12
- 2. Which of the following is illustrated by 1?
 - _____ A. Right pubis
 - _____ B. Left ischiorectal fossa
 - ____ C. Symphysis pubis
 - ____ D. Obturator foramen
- 3. Which number illustrates the pelvic diaphragm?
 - ____ A. 1
 - ____ В. 6
 - ____ C. 3
 - ____ D. 7

- 4. Which of the following is illustrated by 3?
 - _____ A. Cervix of uterus
 - _____ B. Body of uterus
 - ____ C. Pelvic diaphragm
 - ____ D. Left ischiorectal fossa
- 5. Which number illustrates the ischiorectal fossa?
 - ____ A. 4
 - ____ B. 8
 - ____ C. 7
 - ____ D. 6



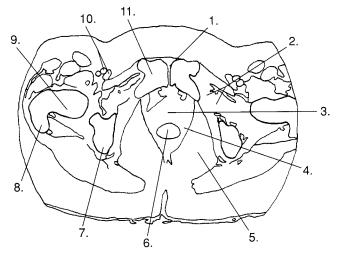


Figure 4-42

- 1. Which of the following is illustrated by 2?
 - _____ A. Symphysis pubis
 - _____ B. Pelvic diaphragm
 - ____ C. Obturator foramen
 - ____ D. Ischiorectal fossa
- 2. Which number illustrates the ischial tuberosity?
 - ____ A. 9
 - ____ В. 7
 - ____ C. 8
 - ____ D. 6
- 3. Which number illustrates the ischiorectal fossa?
 - ____ A. 2
 - ____ B. 4
 - ____ C. 3
 - ____ D. 5

- 4. Which of the following is illustrated by 8?
 - _____ A. Greater trochanter of right femur
 - _____ B. Neck of right femur
 - ____ C. Lesser trochanter of right femur
 - ____ D. Right ischial tuberosity
- 5. Which of the following is illustrated by 3?
 - ____ A. Body of uterus
 - _____ B. Adnexal area
 - ____ C. Cervix of uterus
 - ____ D. Pelvic diaphragm



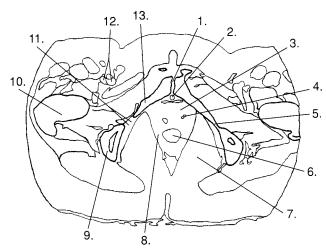


Figure 4-43

1.	which number illustrates the cervix of the utert	IS!
	A. 4	
	B. 3	
	C. 2	
	D. 6	

- 2. Which of the following is illustrated by 2?
 - ____ A. Urethra
 - _____ B. Posterior vaginal fornix
 - ____ C. Ureter
 - ____ D. Cervix of uterus
- 3. Which number illustrates the obturator foramen?
 - ____ A. 1
 - ____ B. 2
 - ____ C. 11
 - ____ D. 7

- 4. Which of the following is illustrated by 5?
 - _____ A. Ischial ramus
 - _____ B. Ischial tuberosity
 - ____ C. Superior pubic ramus
 - _____ D. Inferior pubic ramus
- 5. Which of the following is illustrated by 4?
 - ____ A. Symphysis pubis
 - _____ B. Posterior vaginal fornix
 - ____ C. Pelvic diaphragm
 - ____ D. Urethra



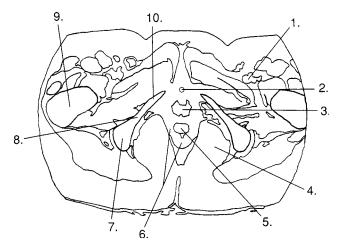


Figure 4-44

- 1. Which of the following is illustrated by 1?
 - _____ A. Left ischiorectal fossa
 - _____ B. Left adnexal area
 - ____ C. Contents of femoral sheath
 - _____ D. External iliac vessels
- 2. Which of the following is illustrated by 9?
 - _____ A. Ischial ramus
 - _____ B. Pubic ramus
 - ____ C. Shaft of femur
 - ____ D. Ischial tuberosity
- 3. Which of the following is illustrated by 3?
 - ____ A. Vagina
 - ____ B. Rectum
 - ____ C. Urethra
 - _____ D. Opening within uterus

- 4. Which of the following is illustrated by 8?
 - ____ A. Ilium
 - _____ B. Ischial tuberosity
 - ____ C. Pubic ramus
 - ____ D. Ischial ramus
- 5. Which number illustrates the ischial tuberosity?
 - ____ A. 7
 - ____ B. 8
 - ____ C. 10
 - ____ D. 9



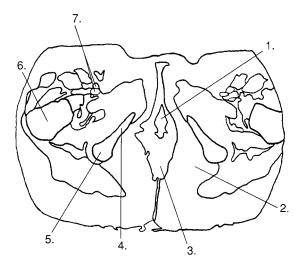


Figure 4-45

1. Which of the following is illustrated by 2?	4. Which numb
A. Pelvic diaphragm	A. 2
B. Ischiorectal fossa	В. 3
C. Ischial tuberosity	C. 6
D. Femoral sheath	D. 5
2. Which number illustrates the ischial tuberosity?	5. Which numb
A. 4	A. 4
B. 1	В. 5
C. 5	C. 7
D. 6	D. 6
3. Which of the following is illustrated by 1?	
A. Vagina	
B. Rectum	
C. Opening within uterus	
D. Ischiorectal fossa	

4.	Which number illustrates the pelvic diaphragm?
	A. 2
	B. 3
	C. 6
	D. 5
5.	Which number illustrates the ischial ramus?



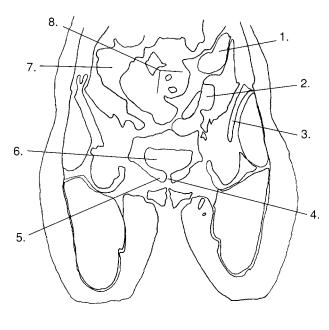


Figure 4-46

- 1. Which of the following is illustrated by 5?
 - ____ A. Ilium
 - ____ B. Ischium
 - ____ C. Pubis
 - ____ D. Ileum
- 2. Which of the following is illustrated by 7?
 - ____ A. Cecum
 - _____ B. Ascending colon
 - ____ C. Descending colon
 - ____ D. Sigmoid colon
- 3. Which of the following is illustrated by 2?
 - ____ A. Cecum
 - _____ B. Ascending colon
 - ____ C. Descending colon
 - ____ D. Sigmoid colon

- 4. Which number illustrates the descending colon?
 - ____ A. 7
 - ____ B. 2
 - ____ C. 1
 - ____ D. 8
- 5. Which number illustrates the ilium?
 - ____ A. 5
 - ____ B. 4
 - ____ C. 3
 - ____ D. 8



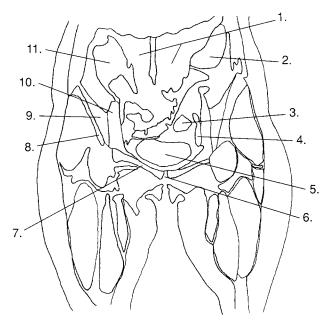
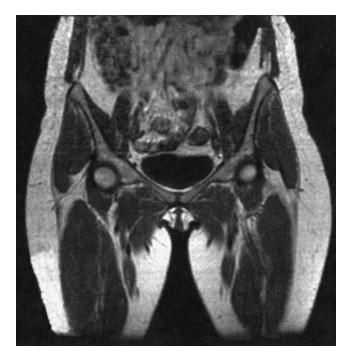


Figure 4-47

1.	Which of the following is illustrated by	y 2?
	A Cecum	

- _ B. Descending colon
- _ C. Sigmoid colon
- __ D. Small bowel
- 2. Which of the following is illustrated by 3?
 - ____ A. Sigmoid colon
 - _____ B. Small bowel
 - ____ C. Descending colon
 - ____ D. Cecum
- 3. Which number illustrates the psoas muscle?
 - ____ A. 4
 - ____ B. 8
 - ____ C. 9
 - ____ D. 10

- 4. Which of the following is illustrated by 4?
 - _____ A. Internal iliac artery and vein
 - _____ B. External iliac artery and vein
 - ____ C. Femoral artery and vein
 - _____ D. Common iliac artery and vein
- 5. Which of the following is illustrated by 1?
 - ____ A. Cecum
 - _____ B. Descending colon
 - ____ C. Sigmoid colon
 - ____ D. Small bowel



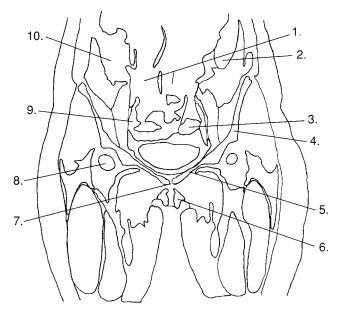
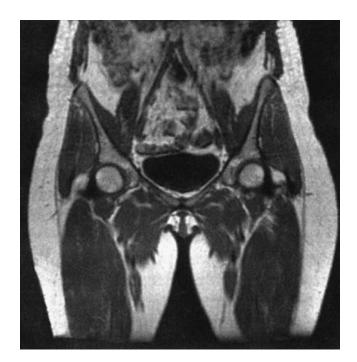


Figure 4-48

- 1. Which of the following is illustrated by 6?
 - ____ A. Labium minora
 - _____ B. Pelvic diaphragm
 - ____ C. Labium majora
 - ____ D. Ischiorectal fossa
- 2. Which of the following is illustrated by 9?
 - _____ A. Internal iliac artery and vein
 - _____ B. External iliac artery and vein
 - ____ C. Femoral artery and vein
 - ____ D. Common iliac artery and vein
- 3. Which number illustrates the descending colon?
 - ____ A. 10
 - ____ B. 1
 - ____ C. 2
 - ____ D. 3

- 4. Which of the following is illustrated by 5?
 - ____ A. Ilium
 - _____ B. Ischium
 - ____ C. Pubis
 - ____ D. Pelvic diaphragm
- 5. Which number illustrates the sigmoid colon?
 - ____ A. 10
 - ____ B. 1
 - ____ C. 2
 - ____ D. 3



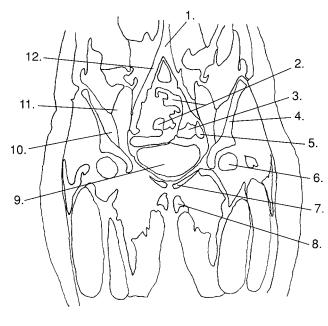
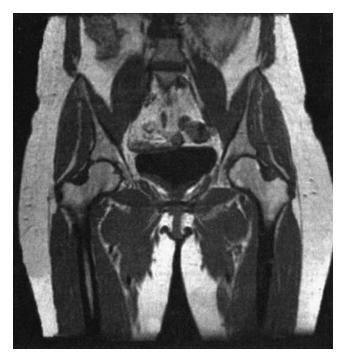


Figure 4-49

Ι.	Which of t	the following is illustrated	d by 12?
	A.	Internal iliac artery and	vein

- _____ B. External iliac artery and vein
- ____ C. Femoral artery and vein
- ____ D. Common iliac artery
- 2. Which number illustrates the small bowel?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 9
 - ____ D. 11
- 3. Which number illustrates the iliacus muscle?
 - ____ A. 5
 - ____ B. 4
 - ____ C. 11
 - ____ D. 10

- 4. Which of the following is illustrated by 7?
 - ____ A. Ilium
 - ____ B. Ischium
 - ____ C. Pubis
 - ____ D. Pelvic diaphragm
- 5. Which of the following is illustrated by 5?
 - _____ A. Internal iliac artery and vein
 - _____ B. External iliac artery and vein
 - ____ C. Femoral artery and vein
 - _____ D. Common iliac artery and vein



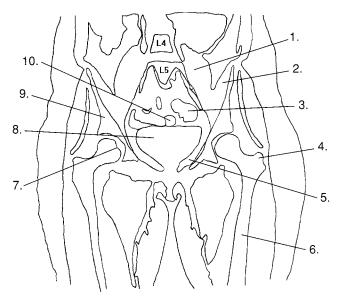
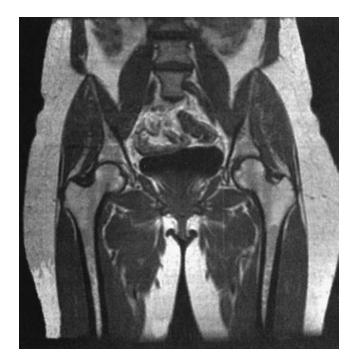


Figure 4-50

- 1. Which of the following is illustrated by 1?
 - ____ A. Descending colon
 - _____ B. Sigmoid colon
 - ____ C. Psoas muscle
 - D. Iliacus muscle
- 2. Which of the following is illustrated by 7?
 - ____ A. Greater trochanter of femur
 - _____ B. Shaft of femur
 - ____ C. Fovea capitis femoris
 - _____ D. Lesser trochanter of femur
- 3. Which of the following is illustrated by 10?
 - ____ A. Small bowel
 - ____ B. Sigmoid colon
 - ___ C. Cecum
 - ____ D. Descending colon

- 4. Which number illustrates the bladder?
 - ____ A. 3
 - ____ B. 10
 - ____ C. 8 ____ D. 9
- 5. Which number illustrates the ilium?
 - ____ A. 3
 - ____ B. 10
 - ____ C. 9
 - ____ D. 8



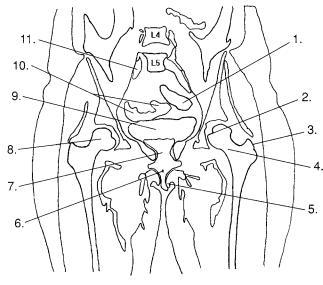
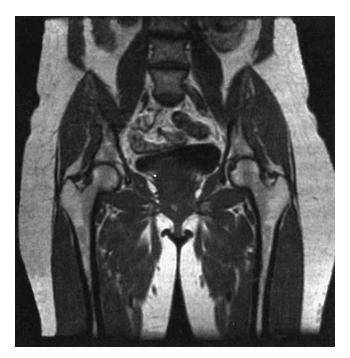


Figure 4-51

1.	Which	of t	he follo	wing	g is i	illustra	ted by 1	. ?
		A.	Small l	oowe	el			
		D	o	1	1			

- _____ B. Sigmoid colon
- ____ C. Psoas muscle
- ____ D. Iliacus muscle
- 2. Which of the following is illustrated by 11?
 - _____ A. Internal iliac artery and vein
 - _____ B. External iliac artery and vein
 - C. Femoral artery and vein
 - ____ D. Common iliac artery and vein
- 3. Which of the following is illustrated by 7?
 - ____ A. Uterus
 - _____ B. Wall of bladder
 - ____ C. Pelvic diaphragm
 - ____ D. Cervix

- 4. Which of the following is illustrated by 6?
 - ____ A. Ureter
 - _____ B. Urethra
 - ____ C. Vagina
 - ____ D. Vaginal fornix
- 5. Which number illustrates the urethra?
 - ____ A. 5
 - ____ B. 6
 - ____ C. 7
 - ____ D. 9



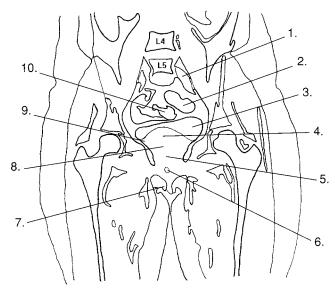


Figure 4-52

1.	Which number illustrates the adnexal area?
	A. 4
	B. 5
	C. 8
	D. 9
2.	Which number illustrates the cervix?

- D. 6
 3. Which of the following is illustrated by 6?
 - ____ A. Urethra

____ B. 8

____ C. 5

- _____ B. Cervix of uterus
- ____ C. Vagina
- ____ D. Rectum

- 4. Which of the following is illustrated by 3?
 - ____ A. Posterior bladder
 - _____ B. Sigmoid colon
 - ____ C. Small bowel
 - ____ D. Body of uterus
- 5. Which of the following is illustrated by 4?
 - ____ A. Adnexal area
 - _____ B. Cervix of uterus
 - ____ C. Posterior bladder
 - ____ D. Fundus of uterus



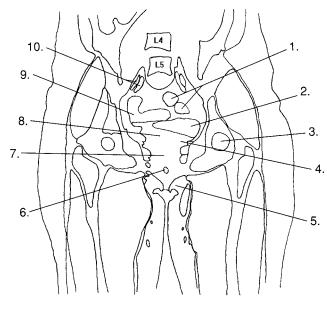
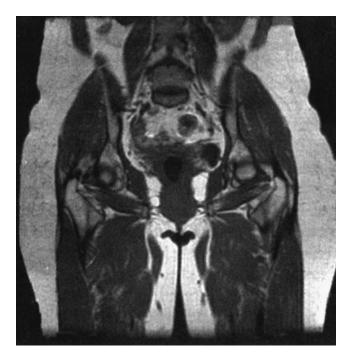


Figure 4-53

- 1. Which number illustrates the sigmoid colon?
 - ____ A. 9
 - ____ B. 1
 - ____ C. 2
 - ____ D. 8
- 2. Which of the following is illustrated by 7?
 - ____ A. Urethra
 - _____ B. Cervix of uterus
 - ____ C. Vagina
 - ____ D. Rectum
- 3. Which of the following is illustrated by 4?
 - ____ A. Adnexal area
 - _____ B. Cervix of uterus
 - ____ C. Posterior bladder
 - ____ D. Fundus of uterus

- 4. Which of the following is illustrated by 3?
 - ____ A. Ischium
 - ____ B. Femur
 - ____ C. Ilium
 - ____ D. Pubis
- 5. Which of the following is illustrated by 10?
 - _____ A. Internal iliac artery and vein
 - _____ B. External iliac artery and vein
 - ____ C. Common iliac artery and vein
 - _____ D. Femoral artery and vein



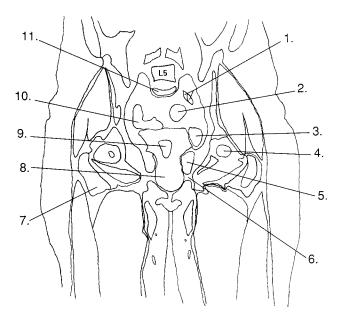


Figure 4-54

- 1. Which of the following is illustrated by 8?
 - ____ A. Vagina
 - ____ B. Urethra
 - ____ C. Anal sphincter
 - ____ D. Ischiorectal fossa
- 2. Which of the following is illustrated by 9?
- ____ A. Urethra
 - _____ B. Vagina
 - ____ C. Rectum
 - ____ D. Sigmoid colon
- 3. Which of the following is illustrated by 3?
 - _____ A. Small bowel
 - _____ B. Sigmoid colon
 - ____ C. Adnexal area
 - ____ D. Posterior bladder

- 4. Which number illustrates the pelvic diaphragm?
 - ____ A. 6
 - ____ B. 8
 - ____ C. 5
 - ____ D. 7
- 5. Which of the following is illustrated by 1?
 - ____ A. Common iliac artery and vein
 - _____ B. Internal iliac artery and vein
 - ____ C. External iliac artery and vein
 - ____ D. Gluteal artery and vein



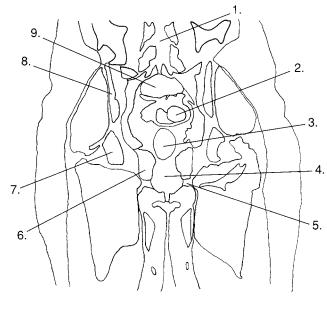


Figure 4-55

1.	Which	of the	following	is il	llustrated	by 7?
----	-------	--------	-----------	-------	------------	-------

- ____ A. Ilium
- _____ B. Ischial tuberosity
- ____ C. Pubis
- _____ D. Ischial spine

2. Which of the following is illustrated by 3?

- ____ A. Rectum
- _____ B. Vagina
- C. Sigmoid colon
 D. Small bowel
- 3. Which number illustrates the vertebral foramen?
 - ____ A. 1
 - ____ B. 9
 - ____ C. 2
 - ____ D. 3

- 4. Which number illustrates the rectum?
 - ____ A. 2
 - ____ В. 3
 - ____ C. 4
 - ____ D. 9
- 5. Which number illustrates the ilium?
 - ____ A. 6
 - ____ В. 7
 - ____ C. 8
 - ____ D. 9



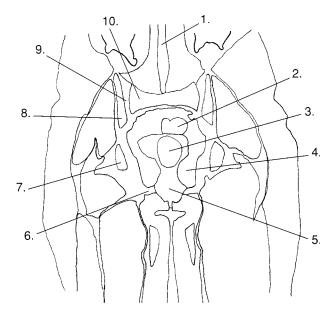


Figure 4-56

- 1. Which of the following is illustrated by 9?
 - ____ A. Ilium
 - _____ B. Sacroiliae joint
 - ____ C. Sacrum
 - ____ D. Ischial tuberosity
- 2. Which of the following is illustrated by 5?
 - ____ A. Rectum
 - _____ B. Vagina
 - ____ C. Anal sphincter
 - ____ D. Pelvic diaphragm
- 3. Which number illustrates the ischial tuberosity?
 - ____ A. 9
 - ____ B. 8
 - ____ C. 7
 - ____ D. 6

- 4. Which of the following is illustrated by 3?
 - ____ A. Rectum
 - _____ B. Vagina
 - ____ C. Sigmoid colon
 - ____ D. Anal sphincter
- 5. Which number illustrates the sigmoid colon?
 - ____ A. 1
 - ____ B. 2
 - ____ C. 3
 - ____ D. 5

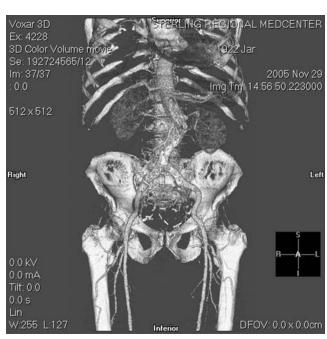
CLINICAL APPLICATIONS

 Which of the following is considered retroperitonea in location? A. Ileum B. Transverse colon C. Jejunum D. Ascending colon 	6. In an axial section through the pelvis, which alimentary structure would be most inferior? A. Ascending colon B. Descending colon C. Sigmoid colon D. Rectum
 Which of the following is the erectile tissue forming the anterior part of the penis? A. Cavernosum spongiosum B. Corpus cavernosum C. Corpus spongiosum D. Cavernosum spongiosum 	 A. Acetabulum B. Coccyx C. Symphysis pubis D. Obturator foramen
3. Which of the following structures would be considered most posterior in the pelvis? A. Lower bladder B. Urethra C. Prostate D. Seminal vesicles	 8. Which of the following best describes the position of the greater trochanter of the femur? A. Anterior and medial B. Posterior and medial C. Anterior and lateral D. Posterior and lateral 9. The most distinctive difference between the lower
 4. All of the following muscles form the pelvic diaphragm except the: A. Iliacus B. Levator ani C. Coccygeus D. All of the above from the pelvic diaphrage 	segments of the sacrum and the coccyx is the absence of the 10. What space surrounds the cervix of the uterus extending into the vagina?
5. The femoral artery originates from the: A. Common iliac artery B. Gluteal artery C. External iliac artery D. Internal iliac artery	

CLINICAL CORRELATIONS

■ Clinical Case 4-1

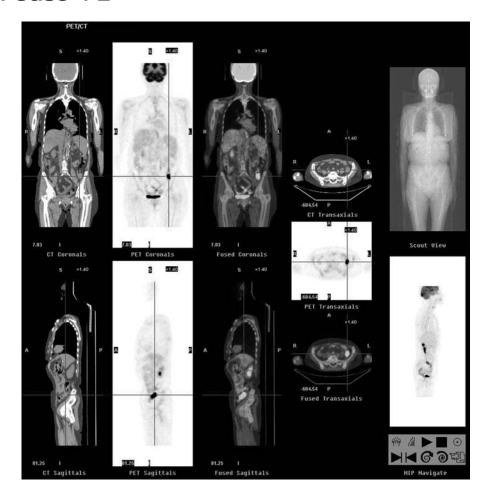




L.	Both images provided above were generated during
	which of the following procedures?
	A. Computed tomography angiography (CTA)
	B. Magnetic resonance angiography (MRA)
	C. Ultrasound
	D. Positron emission tomography/computed
	tomography (PET/CT)
2.	In this patient, the stent graft has been placed in which
	of the following?
	A. Right common iliac artery
	B. Left common iliac artery
	C. Abdominal aorta
	D. All of the above
3.	Which of the following best describes how the internal iliac arteries exit the pelvis?

A. Obturator foramina
B. Posterior bony pelvis
C. Sacral foramina
D. Anterior bony pelvis

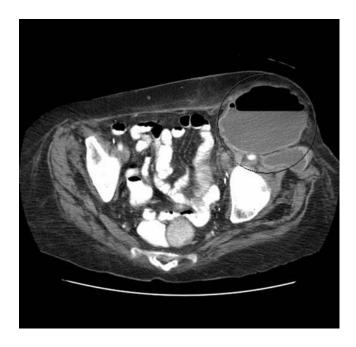
4.	Does the endograft appear to be patent? A. Yes B. No
5.	The external iliac artery gives rise to the femoral artery after passing which of the following anatomic landmarks? A. Sacral promontory B. Greater sciatic notch C. Ilium D. Pubic bone



	According to the marker lines, increased metabolic rate was detected in which of the following? A. Cecum B. Sigmoid C. Ascending colon D. Descending colon	 4. On the CT image, which part of the bowel would moslikely be sectioned in the anterior part of the greater pelvis? A. Cecum B. Sigmoid colon C. Ileum D. Jejunum
2.	The strong signal demonstrated in the midline of the pelvis would best be described by which of the following? A. Prostate B. Uterus C. Urinary bladder D. Seminal vesicles	 5. In a sequence of axial sections, which of the following would be the most inferior part of the large bowel? A. Cecum B. Sigmoid colon C. Ascending colon
3.	Which of the following is the lower part of the large bowel found in the right greater pelvis? A. Cecum B. Sigmoid colon C. Ascending colon D. Descending colon	D. Descending colon



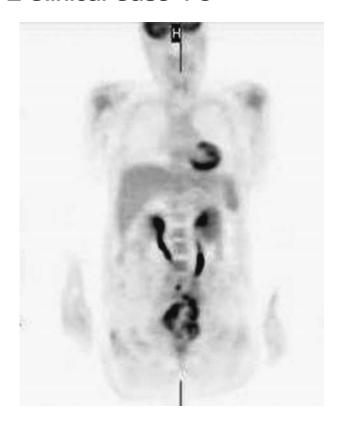
t	In this axial CT image, describe the location of the testicular prosthesis in this young male patient previously created for testicular seminoma.	3. D	escribe the consistency, shape, and border.
ι	reated for testicular seminoma.		
-		_	
_			
-			
2. 1	Describe the changes in adjacent tissues.		
-			
-			



1.	Describe the location of the pelvic abscess originating
	from an infected diverticulum in the descending colon
	as shown in this axial CT image through the lower
	abdomen.

3.	3. Describe the consistency, shape, and border.		

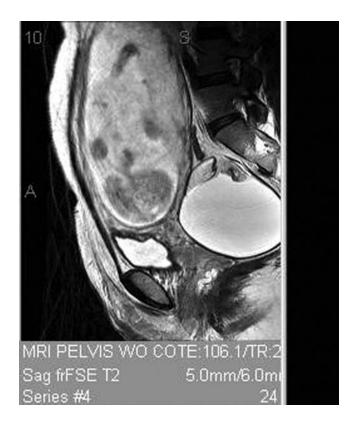
0	Describe	d	-1	•	. 1:	12
2.	Describe	tne	changes	ın	adiacent	tissues.





- 1. Describe the location of the adenocarcinoma shown in this 47-year-old female. The PET image is shown on the left with a corresponding fused PET/CT image on the right.
- 3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.

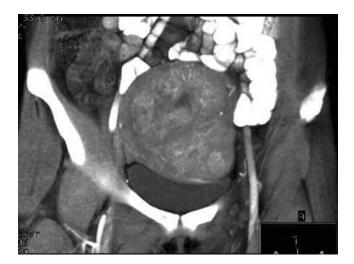




1.	Describe the location of the cystic mass found on the	the
	selected MR saggital images of this pregnant patie	nt.

3.	Describe the consistency, shape, and border.			

2.	Describe	the ch	anges in	adjacent	tissues.
				J	



2. Describe the changes in adjacent tissues.



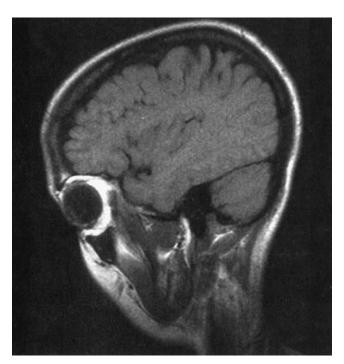
 Describe the location of the uterine fibroid shown in the coronal (left) and saggital (right) CT images. 	3. Describe the consistency, shape, and border.



	Describe the location of the prostate carcinoma in the axial MR section of this 81-year-old male patient.	3. Describe the consistency, shape, and border.	
2.	Describe the changes in adjacent tissues.		



Head



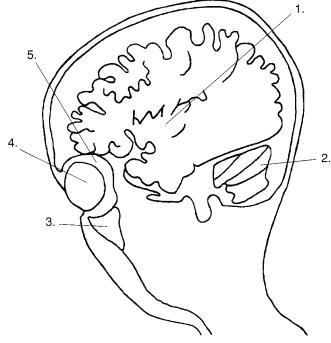


Figure 5-1

- 1. Which number illustrates the insula?
 - ____ A. 5
 - ____ B. 2
 - ____ C. 1
 - ____ D. 3
- 2. Which of the following is illustrated by 3?
 - ____ A. Maxillary sinus
 - _____ B. Sphenoid sinus
 - ____ C. Frontal sinus
 - ____ D. Mastoid air cells
- 3. Which number illustrates the cerebellum?
 - ____ A. 3
 - ____ B. 5
 - ____ C. 2
 - ____ D. 1

- 4. Which of the following is illustrated by 5?
 - ____ A. Sulci
 - _____ B. Inferior rectus muscle
 - ____ C. Fat in bony orbit
 - ____ D. Maxillary sinus
- 5. Which of the following is illustrated by 4?
 - ____ A. Globe of the eye
 - _____ B. Superior rectus muscle
 - ____ C. Optic nerve
 - _____ D. Inferior rectus muscle

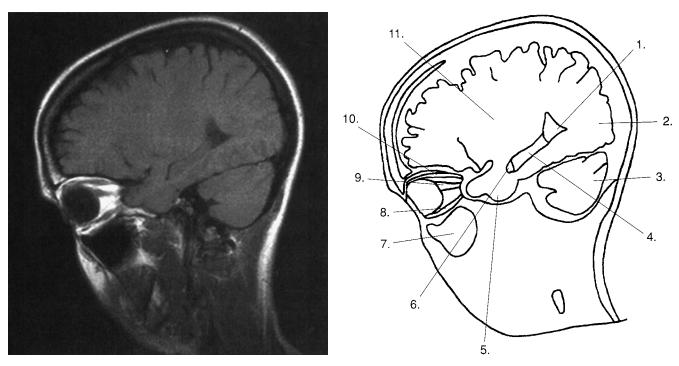
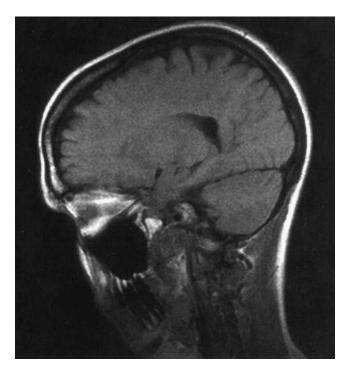


Figure 5-2

1. Which of the following is illustrated by 4?	4. Whi
A. Posterior horn of the lateral ventricle	
B. Body of caudate nucleus	
C. Thalamus	
D. Inferior horn of the lateral ventricle	
2. Which number illustrates the inferior horn of the	5. Whi
lateral ventricle?	
A. 6	
B. 4	
C. 1	
D. 7	
3. Which of the following is illustrated by 1?	
A. Body of caudate nucleus	
B. Insula	
C. Posterior horn of the lateral ventricle	
D. Inferior horn of the lateral ventricle	

4.	Which	of t	he following is illustrated by 9?
			Superior rectus muscle
		В.	Inferior rectus muscle
		C.	Optic nerve
		D.	Fat in bony orbit
5.	Which	nuı	mber illustrates the superior rectus muscle?
		A.	9
		В.	6
		C.	8
		D.	10



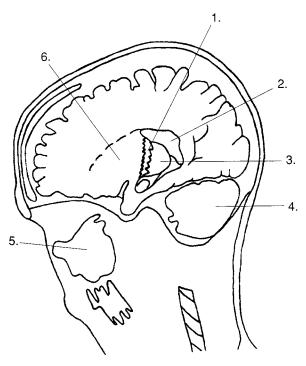


Figure 5-3

 Which of the following is illustrated by 6? A. Thalamus B. Lenticular nuclei C. Insula D. Occipital lobe 	 4. Which number illustrates the cerebellum? A. 3 B. 4 C. 5 D. 2
 Which number illustrates the internal capsule? A. 3 B. 2 C. 6 D. 1 	 5. Which of the following is illustrated by 3? A. Lenticular nuclei B. Body of caudate nucleus C. Thalamus D. Internal capsule
 3. Which of the following is illustrated by 5? A. Maxillary sinus B. Frontal sinus C. Fat in bony orbit D. Insula 	

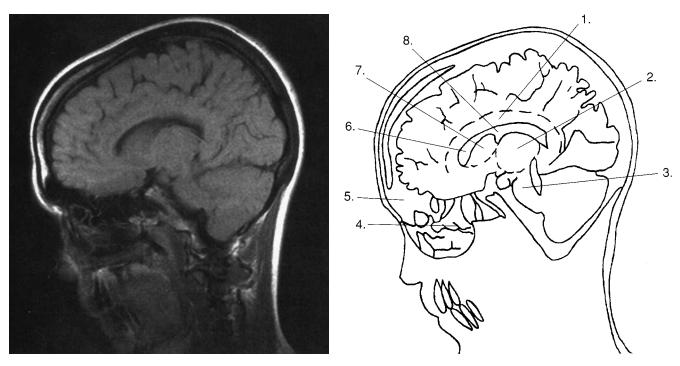


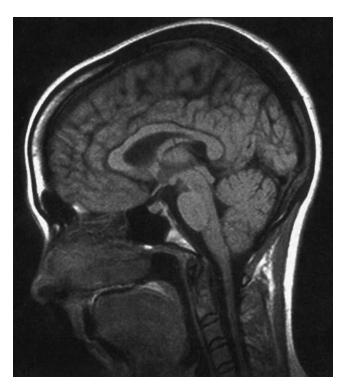
Figure 5-4

 Which of the following is illustrated by 8? A. Thalamus B. Body of lateral ventricle C. Head of caudate D. Corpus callosum 	 4. Which number illustrates the corpus callosum — A. 1 — B. 8 — C. 7 — D. 6
 2. Which number illustrates the anterior horn of the lateral ventricle? A. 8 B. 2 C. 7 D. 6 	 5. Which of the following is illustrated by 7? A. Thalamus B. Head of caudate C. Intermediate mass D. Body of lateral ventricle

3. Which of the following is illustrated by 5?

____ A. Maxillary sinus

B. Ethmoid sinusC. Frontal sinusD. Fat in bony orbit



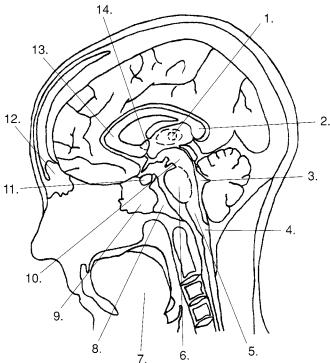
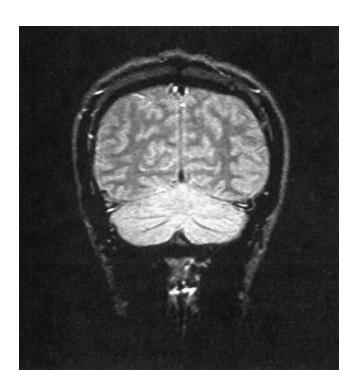


Figure 5-5

- 1. Which number illustrates the splenium of corpus callosum? ____ A. 1 ____ B. 13
 - ____ C. 2
 - ____ D. 14
- 2. Which of the following is illustrated by 10?
 - ____ A. Pons
 - _____ B. Cerebral peduncles
 - ____ C. Pituitary gland
 - ____ D. Quadrigeminal plate
- 3. Which number illustrates the pituitary gland?
 - ____ A. 11
 - ____ В. 3
 - ____ C. 10
 - ____ D. 6

- 4. Which of the following is illustrated by 1?
 - _____ A. Head of caudate nucleus
 - _____ B. Anterior commissure
 - ____ C. Intermediate mass
 - _____ D. Splenium of corpus callosum
- 5. Which of the following is illustrated by 14?
 - ____ A. Intermediate mass
 - _____ B. Pituitary gland
 - ____ C. Genu of corpus callosum
 - ____ D. Anterior commissure



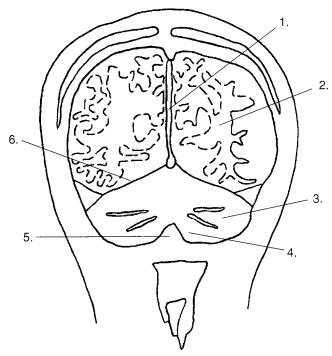


Figure 5-6

1. Which of the following is demonstrated by 2?	1.	Which	of the	followin	g is	demonstrated	by 2?
---	----	-------	--------	----------	------	--------------	-------

- ____ A. Occipital lobe
 - ____ B. Parietal lobe
- ____ C. Cerebellar hemisphere
- ____ D. Temporal lobe

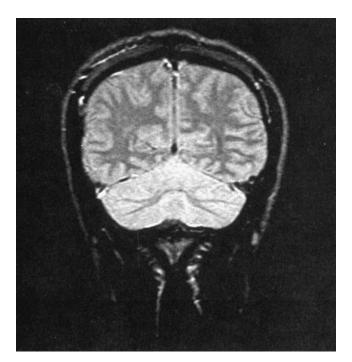
2. Which number illustrates the cisterna magna?

- ____ A. 6
- ____ B. 1
- ____ D. 1
- ____ D. 4
- 3. Which of the following is demonstrated by 1?
 - ____ A. Straight sinus
 - ____ B. Falx cerebri
 - ____ C. Superior sagittal sinus
 - ____ D. Falx cerebelli

- 4. Which number illustrates the cerebellar tonsil?
 - ____ A. 3
 - ____ В. 5
 - ____ C. 6
 - ____ D. 4

5. Which of the following is demonstrated by 3?

- ____ A. Cerebellar hemisphere
- _____ B. Cerebellar tonsil
- ____ C. Occipital lobe
- ____ D. Temporal lobe



____ D. 2

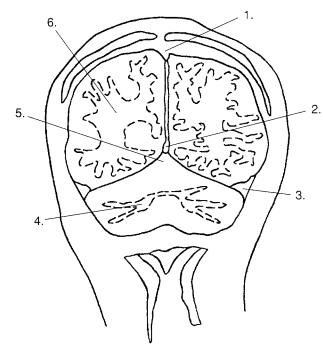
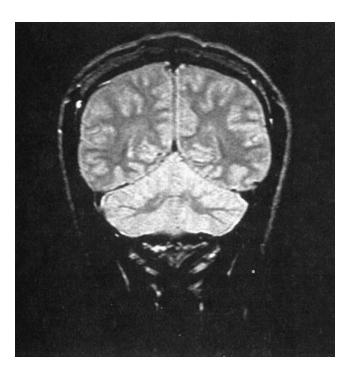


Figure 5-7

1.	Which number illustrates the occipital lobe white matter?	4.	Which of the following is illustrated by 2? A. Straight sinus
	A. 3		B. Superior sagittal sinus
	B. 1		C. Transverse sinus
	C. 6		D. Cisterna magna
	D. 4	5.	Which of the following is illustrated by 3?
2.	Which of the following is illustrated by 1?		A. Superior sagittal sinus
	A. Straight sinus		B. Cisterna magna
	B. Superior sagittal sinus		C. Straight sinus
	C. Transverse sinus		D. Transverse sinus
	D. Cisterna magna		
3.	Which number illustrates the superior cerebellar vermis?		
	A. 5		
	B. 1		
	C. 3		



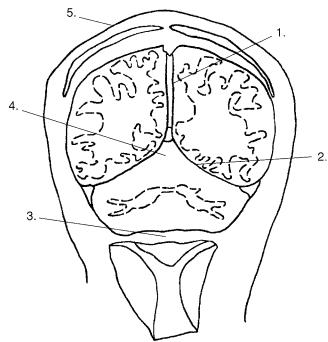
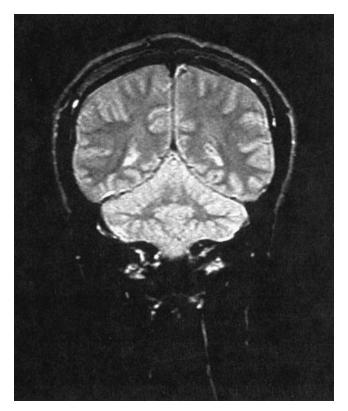


Figure 5-8

4
5

___ D. Falx cerebelli

4.	Which	nur	mber illustrates the tentorium cerebelli?
		A.	3
		В.	1
		C.	4
		D.	2
5 .	Which	of t	he following is illustrated by 3?
		A.	Scalp
		В.	Occipital bone
		C.	Posterior medulla oblongata
		D.	Cisterna magna



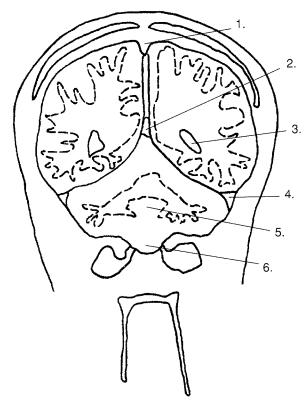
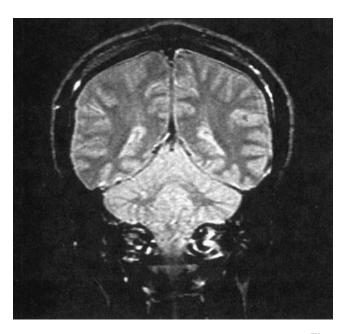


Figure 5-9

1. Which number illustrates the fourth ventricle? A. 3 B. 1 C. 5 D. 6	 4. Which number illustrates the straight sinus? A. 4 B. 5 C. 1 D. 2
 2. Which of the following is illustrated by 1? A. Straight sinus B. Superior sagittal sinus C. Cisterna magna D. Fourth ventricle 	 5. Which of the following is illustrated by 3? A. Posterior horn of the lateral ventricle B. Anterior horn of the lateral ventricle C. Cisterna magna D. Fourth ventricle
3. Which of the following is illustrated by 4? A. Superior sagittal sinus B. Transverse sinus C. Straight sinus D. Confluence of sinuses	



____ C. 1 ___ D. 5

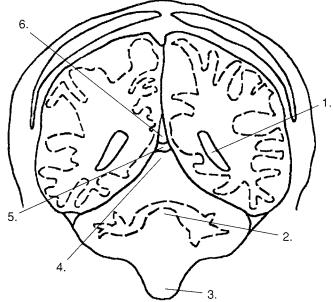
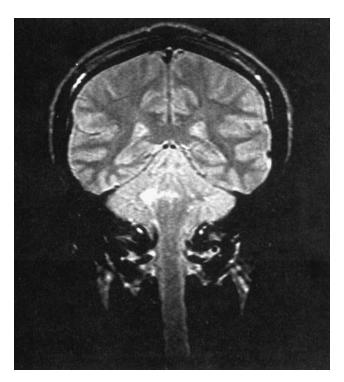


Figure 5-10

4. Which of the following is illustrated by 5?
A. Superior cerebellar vermis
B. Straight sinus
C. Superior cistern
D. Fourth ventricle
5. Which of the following is illustrated by 1?
A. Posterior horn of the lateral ventricle
B. Transverse sinus
C. Straight sinus
D. Fourth ventricle



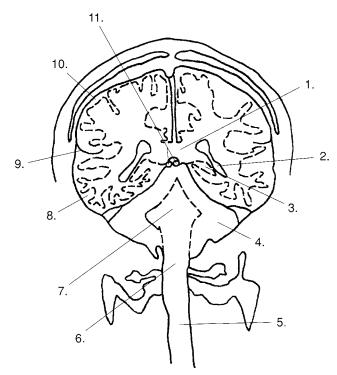


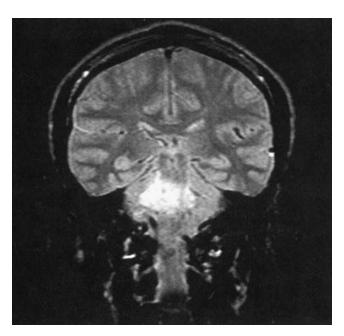
Figure 5-11

1.	Which	nur	nber	illustrat	es the	posterior	pons?
			11				

- ____ A. 11
- ____ B. 6
- ____ C. 5 ____ D. 7
- 2. Which of the following is illustrated by 1?
 - _____ A. Splenium of corpus callosum
 - _____ B. Hippocampal formation
 - ____ C. Anterior commissure
 - ____ D. Genu of corpus callosum
- 3. Which of the following is illustrated by 9?
 - ____ A. Sylvian fissure
 - _____ B. Collateral trigone of the lateral ventricle
 - ____ C. Splenium of corpus callosum
 - ____ D. Superior cistern

- 4. Which number illustrates the hippocampal formation?
 - ____ A. 2
 - ____ B. 1

 - ____ C. 3 ____ D. 11
- 5. Which number illustrates the collateral trigone of the lateral ventricle?
 - ____ A. 2
 - ____ B. 9
 - ____ C. 3
 - ____ D. 1



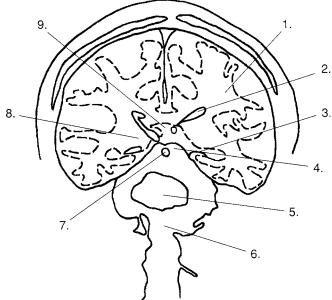


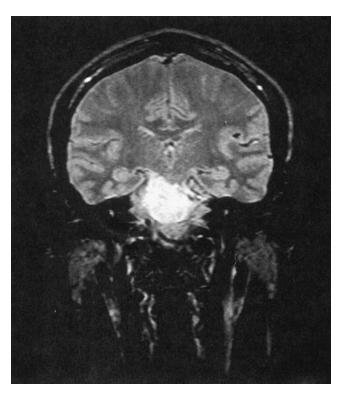
Figure 5-12

1. Which of t	the following is illustrated by 4?
A.	Quadrigeminal plate
В.	Cerebral aqueduct
C.	Medulla oblongata
D.	Corona radiata
2. Which nur	mber illustrates the pineal gland?
A.	7
В.	9
C.	3
D.	2
3. Which nur	mber illustrates the cerebral aqueduct?
A	5

___ B. 4 ____ C. 7

___ D. 9

- 4. Which of the following is illustrated by 1? ____ A. Quadrigeminal plate
 - ____ B. Corona radiata
 - ____ C. Thalamus
 - _____ D. Body of lateral ventricle
- 5. Which number illustrates the inferior horn of the lateral ventricle?
 - ____ A. 7
 - ____ B. 9
 - ____ C. 2
 - ____ D. 3



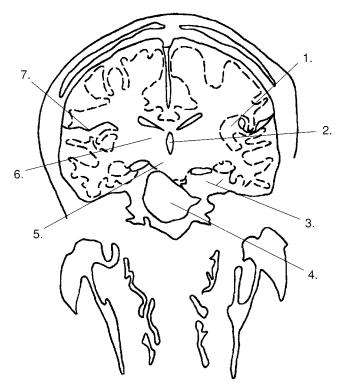


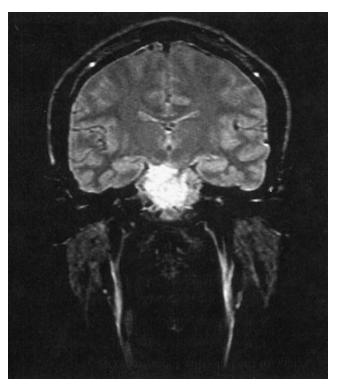
Figure 5-13

Ι.	Which of t	the following is illustrated by 3.5
	A.	Hippocampal formation
	В.	Sylvian fissure
	C.	Head of caudate nucleus
	D.	Quadrigeminal plate
2.	Which nu	mber illustrates the insula?
	A.	6
	В.	5
	C.	7
	D.	1
3.	Which of t	the following is illustrated by 2?
	A.	Pineal gland
	В.	Third ventricle
	C	Pone

____ D. Cerebral aqueduct

4.	Which	of t	he following is illustrated by 6?
		A.	Sylvian fissure
		В.	Thalamus
		C.	Insula
		D.	Lenticular nuclei
5.	Which	nuı	mber illustrates the cerebral peduncles?
		A.	3
		В.	6
		C.	1
		D.	5





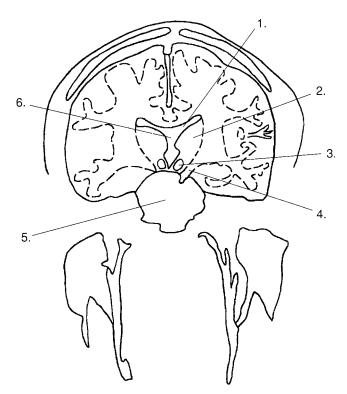
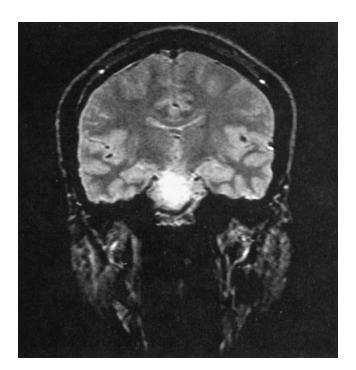


Figure 5-14

1. Which number illustrates the thalamus?
A. 1
В. 3
C. 6
D. 2
2. Which of the following is illustrated by 4?
A. Red nucleus
B. Substantia nigra
C. Quadrigeminal formation
D. Quadrigeminal plate
3. Which number illustrates the red nucleus?
A. 3
B. 6
C. 4
D. 1

4.	Which of	the following is illustrated by 1?
		Insula
]	Thalamus
		Third ventricle
]	Body of lateral ventricle
5.	Which o	the following is illustrated by 6?
		Fourth ventricle
]	Collateral trigone of lateral ventricle
	(Third ventricle
]	Body of lateral ventricle



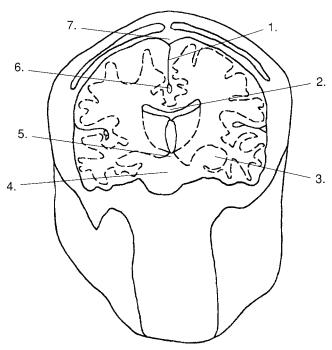
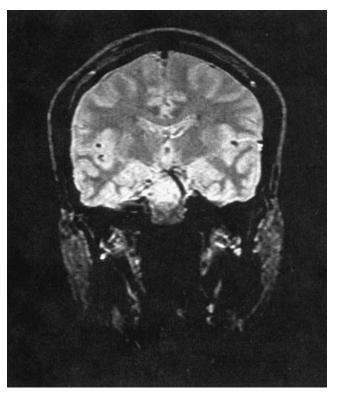


Figure 5-15

- 1. Which number illustrates the body of corpus callosum?
 - ____ A. 2
 - ____ B. 1
 - ____ C. 3
 - ____ D. 1
- 2. Which of the following is illustrated by 4?
 - _____ A. Hippocampal formation
 - _____ B. Quadrigeminal plate
 - ____ C. Midbrain
 - ____ D. Pons
- 3. Which of the following is illustrated by 7?
 - _____ A. Superior sagittal sinus
 - _____ B. Falx cerebri
 - ____ C. Cisterna magna
 - ____ D. Inferior sagittal sinus

- 4. Which number illustrates the midbrain?
 - ____ A. 2
 - ____ B. 1
 - ____ C. 5
 - ____ D. 4
- 5. Which of the following is illustrated by 6?
 - _____ A. Superior sagittal sinus
 - _____ B. Interior sagittal sinus
 - ____ C. Straight sinus
 - _____ D. Superior cistern





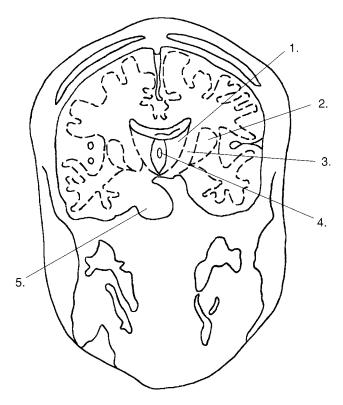
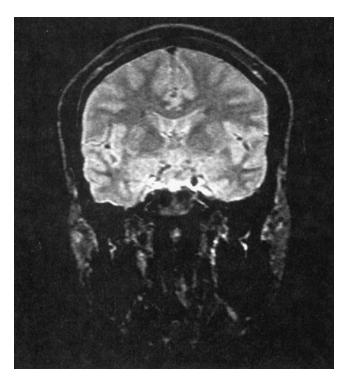


Figure 5-16

1. Which of the following is illustrated by 3?	
A. Thalamus	
B. Body of corpus callosum	
C. Internal capsule	
D. Lenticular nuclei	
2. Which of the following is illustrated by 5?	
A. Globus pallidus	
B. Hippocampal formation	
C. Midbrain	
D. Anterior pons	
3. Which of the following is illustrated by 2?	
A. Lenticular nuclei	
B. Body of corpus callosum	
C. Internal capsule	
D. Thalamus	

4.	Which	of t	he following is illustrated by 4?
		A.	Superior cistern
		В.	Fourth ventricle
		C.	Cerebral aqueduct
		D.	Third ventricle
5.	Which	nuı	mber illustrates the thalamus?
		A.	3
		В.	1
		C.	2
		D.	4



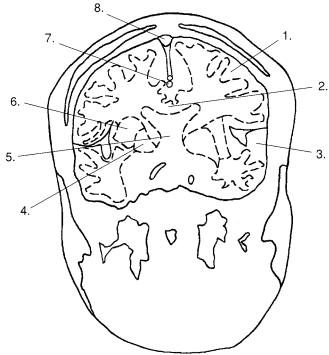
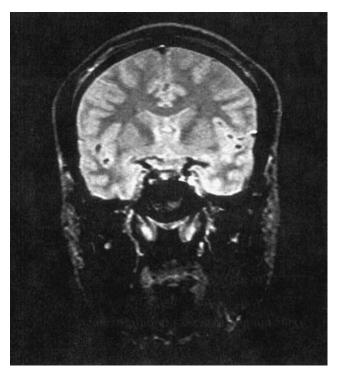


Figure 5-17

- 1. Which number illustrates the thalamus?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 5
 - ____ D. 7
- 2. Which of the following is illustrated by 1?
 - _____ A. Superior sagittal sinus
 - ____ B. Parietal lobe
 - ____ C. Temporal lobe
 - ____ D. Occipital lobe
- 3. Which of the following is illustrated by 6?
 - _____ A. Body of corpus callosum
 - _____ B. Globus pallidus
 - ____ C. Thalamus
 - ____ D. Putamen

- 4. Which number illustrates the globus pallidus?
 - ____ A. 4
 - ____ B. 2

 - ____ C. 6 ____ D. 3
- 5. Which of the following is illustrated by 3?
 - ____ A. Occipital lobe
 - _____ B. Parietal lobe
 - ____ C. Temporal lobe
 - ____ D. Globus pallidus



____ C. 5 ___ D. 3

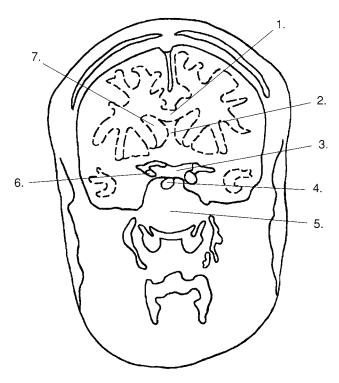
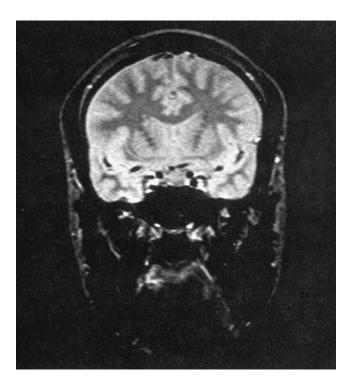


Figure 5-18

	Which number illustrates the anterior horn of the lateral ventricle? A. 7 B. 2 C. 1 D. 5 Which of the following is illustrated by 7? A. Anterior horn of the lateral ventricle B. Body of corpus callosum C. Head of the caudate nucleus D. Thalamus	 4. Which of the following is illustrated by 45 A. Pituitary gland B. Sphenoid sinus C. Third ventricle D. Optic chiasma 5. Which of the following is illustrated by 65 A. Optic nerve B. Pituitary gland C. Internal carotid artery D. Vertebral artery
3.	Which number illustrates the optic chiasma? A. 4 B. 6	



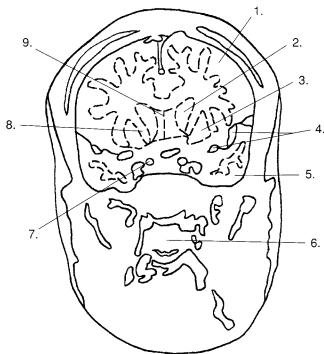
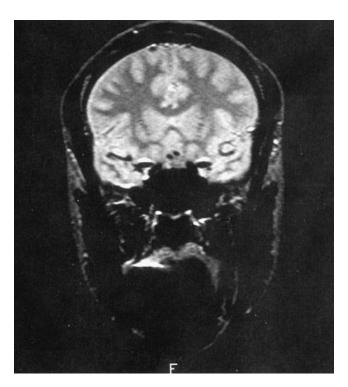


Figure 5-19

1. Which of the following ———————————————————————————————————	osule adate nucleus adus	 Which number illustrates the internal carotid artery? A. 7 B. 3 C. 2 D. 4
2. Which of the following ———————————————————————————————————	idate nucleus lucidum nuclei	6. Which of the following is illustrated by 6? ———————————————————————————————————
3. Which number illustra A. 8 B. 3 C. 2 D. 9	tes the septum pellucidum?	



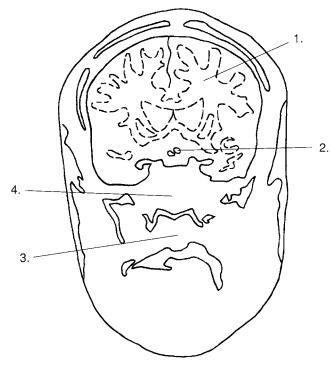


Figure 5-20

Which of the following is illustrated by 1?

 A. White matter of parietal lobe
 B. White matter of frontal lobe
 C. Internal capsule
 D. External capsule

 Which of the following is illustrated by 2?

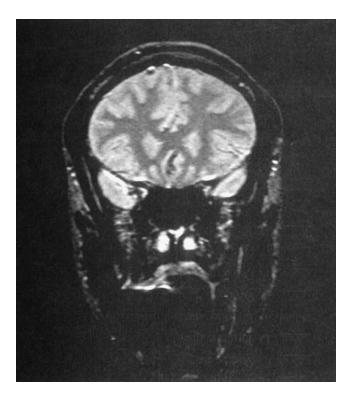
 A. Straight sinus
 B. Inferior sagittal sinus
 C. Anterior cerebral artery
 D. Middle cerebral artery

 Which of the following is illustrated by 4?

 A. Sphenoid sinus
 B. Ethmoid air cells

C. NasopharynxD. Oropharynx

- 4. Which number illustrates the nasopharynx?
 - ____ A. 4
 - ____ B. 3
 - ____ C. 2
 - ____ D. 1
- 5. Which of the following is illustrated by 3?
 - ____ A. Sphenoid sinus
 - ____ B. Nasopharynx
 - ____ C. Oropharynx
 - ____ D. Ethmoid air cells



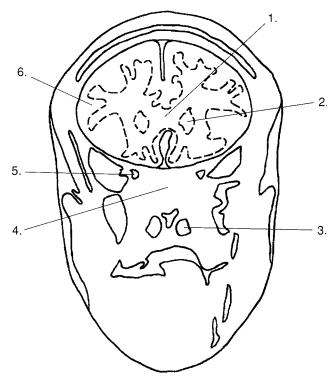


Figure 5-21

1.	Which o	of the	e fol	low	ing is	ill	ustrated	by 2:)
	A	1 . 7	ail o	of ca	udat	e n	ucleus		

- ___ B. Head of caudate nucleus
- ____ C. Lenticular nuclei
- ____ D. Thalamus
- 2. Which number illustrates the inferior nasal concha?
 - ____ A. 5
 - ____ B. 2
 - ____ C. 4
 - ____ D. 3
- 3. Which of the following is illustrated by 4?
 - ____ A. Sphenoid sinus
 - _____ B. Nasopharynx
 - ___ C. Maxillary sinus
 - ____ D. Oropharynx

- 4. Which of the following is illustrated by 1?
 - ____ A. Head of caudate nucleus
 - _____ B. Genu of corpus callosum
 - ____ C. Lenticular nuclei
 - ____ D. Septum pellucidum
- 5. Which of the following is illustrated by 5?
 - _____ A. Anterior cerebral artery
 - _____ B. Internal carotid artery
 - ____ C. Optic nerve
 - _____ D. Posterior cerebral artery



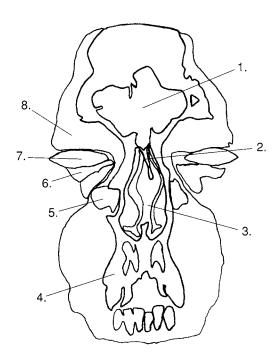


Figure 5-22

1. Which of the following is illustrated by 3?
A. Septal cartilage
B. Vomer
C. Perpendicular plate of ethmoid
D. Inferior concha
2. Which of the following is illustrated by 5?
A. Sphenoid sinus
B. Ethmoid sinus
C. Maxillary sinus
D. Frontal sinus
3. Which number illustrates the perpendicular plate of
ethmoid?
A. 3
B. 2
C. 4
D. 1

4.	Which number illustrates the frontal sinus?
	A. 5
	B. 3
	C. 4
	D. 1
ŏ.	Which number illustrates the maxilla?
	A. 4
	B. 8
	C. 2
	D 1



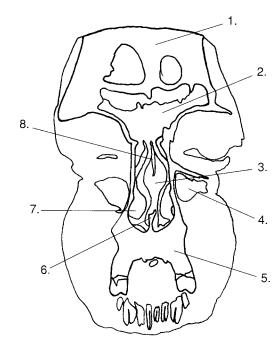
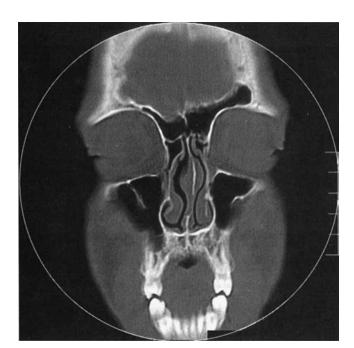


Figure 5-23

1.	Which of	the following is illustrated by 8?
	A.	Septal cartilage
	В.	Vomer
	C.	Perpendicular plate of ethmoid
	D.	Inferior concha
2.	Which of	the following is illustrated by 6?
	A.	Septal cartilage
	В.	Vomer
	C.	Perpendicular plate of ethmoid
	D.	Inferior concha
3.	Which nu	mber illustrates the inferior concha
	A.	7
	В.	8
	C.	6
	D.	3

4.	Which number illustrates the septal cartilage?
	A. 7
	B. 8
	C. 6
	D. 3
5.	Which of the following is illustrated by 5?
	A. Palatine bone
	B. Sphenoid bone
	C. Maxilla bone
	D. Ethmoid bone



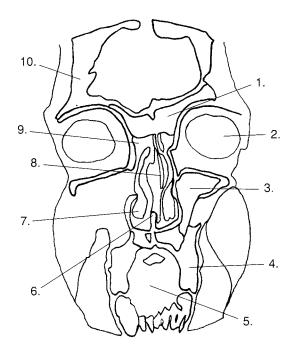


Figure 5-24

1.	Which of the following is illustrated by 9?
	A. Sphenoid sinus
	B. Ethmoid sinus
	C. Frontal sinus
	D. Maxillary sinus
2.	Which of the following is illustrated by 1?
	A Cook and aircea

Which of the following is illustrated by 1?

 A. Sphenoid sinus
 B. Ethmoid sinus
 C. Frontal sinus
 D. Maxillary sinus

 Which of the following is illustrated by 7?

 A. Inferior concha
 B. Middle concha

____ C. Vomer

____ D. Septal cartilage

- 4. Which number illustrates the ethmoid sinus? _____ A. 1
 - ____ A. 1 ____ B. 3
 - ____ С. 9
 - ____ D. 4
- 5. Which number illustrates the maxillary sinus?
 - ____ A. 1
 - ____ B. 3
 - ____ C. 9 ____ D. 4



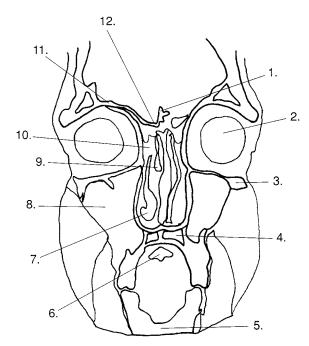


Figure 5-25

- 1. Which of the following is illustrated by 9?
 - _____ A. Superior concha
 - ____ B. Middle concha
 - ____ C. Inferior concha
 - ___ D. Ethmoid sinus
- 2. Which of the following is illustrated by 1?
 - ____ A. Crista galli
 - _____ B. Perpendicular plate of ethmoid
 - ____ C. Vomer
 - ____ D. Cribriform plate
- 3. Which of the following is illustrated by 12?
 - _____ A. Crista galli
 - ____ B. Vomer
 - ____ C. Orbital plate of frontal bone
 - ____ D. Cribriform plate

- 4. Which number illustrates the inferior concha?
 - ____ A. 10
 - ____ B. 9
 - ____ C. 7
 - ____ D. 4
- 5. Which number illustrates the ethmoid sinus?
 - ____ A. 9
 - ____ B. 10
 - ____ C. 8
 - ____ D. 4



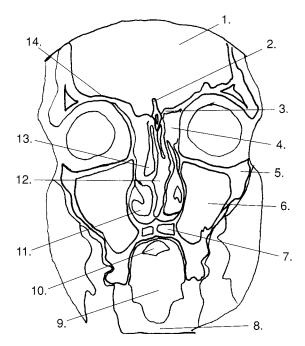
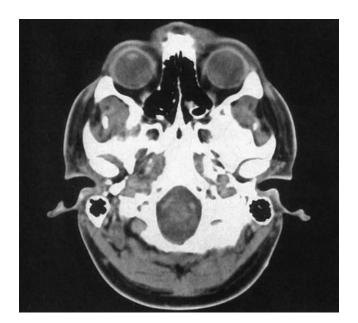


Figure 5-26

- 1. Which of the following is illustrated by 6?
 - ____ A. Sphenoid sinus
 - ____ B. Ethmoid sinus
 - ____ C. Maxillary sinus
 - ____ D. Frontal sinus
- 2. Which of the following is illustrated by 13?
 - ____ A. Superior concha
 - _____ B. Middle concha
 - ____ C. Inferior concha
 - ____ D. Nasal septum
- 3. Which of the following is illustrated by 5?
 - ____ A. Ethmoid
 - _____ B. Zygoma
 - ____ C. Maxilla
 - ____ D. Palatine

- 4. Which number illustrates the cribriform plate?
 - ____ A. 2
 - ____ B. 3
 - ____ C. 14
 - ____ D. 7
- 5. Which number illustrates the crista galli?
 - ____ A. 2
 - ____ В. 3
 - ____ C. 4
 - ____ D. 14



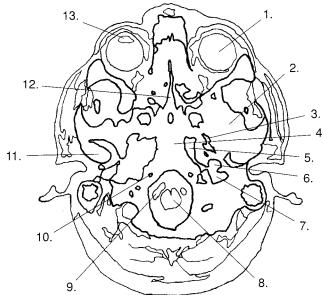
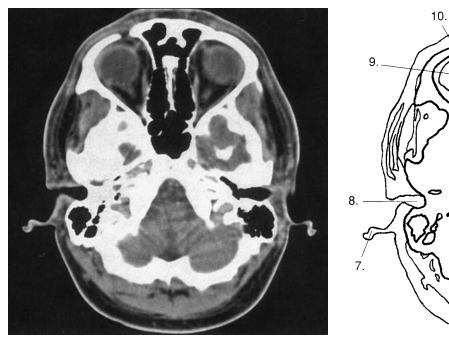


Figure 5-27

Ι.	wnich	nur	nber illustrates the foramen ovale?
		A.	5
		В.	3
		C.	6
		D.	7
2.	Which	of t	he following is illustrated by 7?
		A.	Internal jugular vein
			Foramen lacerum
		C.	Foramen ovale
		D.	Internal carotid artery
3.	Which	nur	mber illustrates the hypoglossal canal?
		A.	6
		В.	7
		C.	10

___ D. 5

- 4. Which of the following illustrates the foramen lacerum? ____ A. 7 ____ B. 6 ____ C. 10 ___ D. 5 5. Which of the following is illustrated by 6? ____ A. Foramen lacerum
 - _____ B. Internal carotid artery ____ C. Foramen ovale _____ D. Internal jugular vein



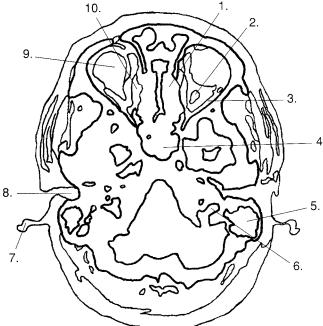


Figure 5-28

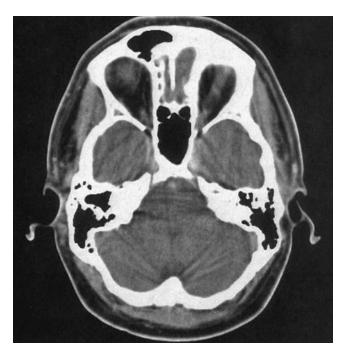
1. Which of the following is illustrated by	35
---	----

- _____ A. Lateral rectus muscle
- _____ B. Medial rectus muscle
- ____ C. Optic nerve
- _____ D. Superior oblique muscle
- 2. Which number illustrates the ethmoid air cells?
 - ____ A. 4
 - ____ B. 1
 - ____ C. 8
 - ____ D. 5
- 3. Which number illustrates the medial rectus muscle?
 - ____ A. 10
 - ____ B. 3
 - ____ C. 1
 - ____ D. 2

- 4. Which of the following is illustrated by 5?
 - ____ A. Temporal lobe
 - _____ B. Sigmoid sinus
 - ____ C. Internal carotid artery
 - ____ D. Mastoid air cells

5. Which of the following is illustrated by 8?

- ____ A. Auricle
- _____ B. External acoustic meatus
- ____ C. Mandibular condyle
- _____ D. Hypoglossal canal



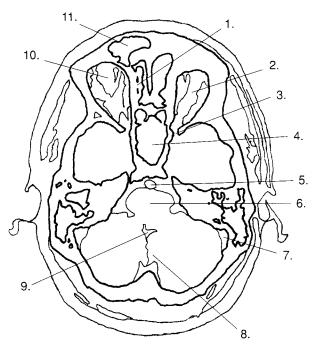
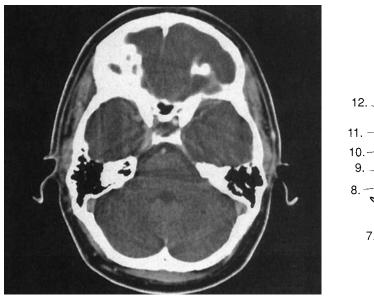


Figure 5-29

	umber illustrates the cribriform plate of the
imoia	oone:
A.	2
B	11
C	4
D	. 1
hich of	the following is illustrated by 6?
A.	Pons
B	Medulla oblongata
C	Cerebellar vermis
D	. Cerebral peduncles
hich nu	ımber illustrates the basilar artery?
A.	6
В	4
C	5
D	. 9
ŀ	moid l

4.	Which o	of t	he following is illustrated by 9?
	A	٨.	Fourth ventricle
	F	3.	Basilar artery
	(Э.	Superior cistern
	I	Э.	Inferior sagittal sinus
5.	Which o	of t	he following is illustrated by 4?
	A	٨.	Ethmoid air cells
	E	3.	Mastoid air cells
	(Э.	Sigmoid sinus
	Т).	Sphenoid sinus

174 Introduction to Sectional Anatomy Workbook and Review Guide



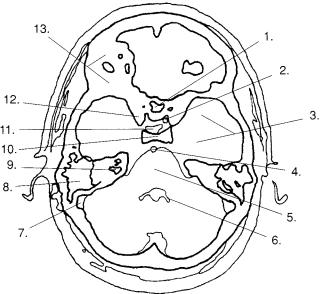
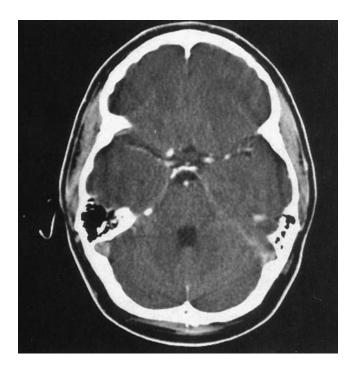


Figure 5-30

- 1. Which number illustrates the dorsum sellae?
 - ____ A. 12
 - ____ B. 10
 - ____ C. 3
 - ____ D. 11
- 2. Which of the following is illustrated by 1?
 - ____ A. Optic chiasma
 - _____ B. Internal carotid artery
 - ____ C. Basilar artery
 - ____ D. Sphenoid sinus
- 3. Which number illustrates the middle ear?
 - ____ A. 4
 - ____ B. 11
 - ____ C. 9
 - ____ D. 10

- 4. Which of the following is illustrated by 4?
 - _____ A. Basilar artery
 - _____ B. Interior carotid artery
 - ____ C. Middle ear
 - ____ D. Pituitary gland
- 5. Which of the following is illustrated by 11?
 - ____ A. Pituitary gland
 - ____ B. Dorsum sellae
 - ____ C. Optic chiasma
 - ____ D. Pineal gland



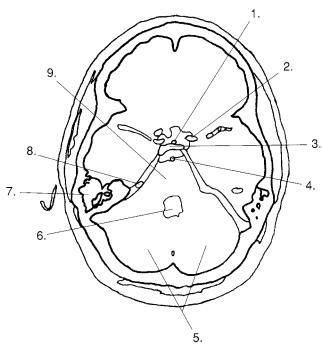
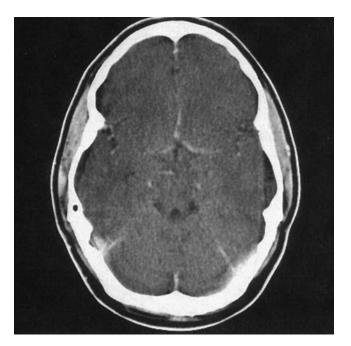


Figure 5-31

1.	Which	nur	nber illustrates the infundibulum of the
	pituitar	y?	
		A.	2
		В.	4
		C.	8
		D.	1
2.	Which	of t	he following is illustrated by 3?
		A.	Basilar artery
		В.	Middle cerebral artery
		C.	Posterior cerebral artery
		D.	Dorsum sellae
3.	Which	nur	mber illustrates the mastoid air cells?
		A.	7

____ B. 6 ____ C. 3 __ D. 8

4. Which of the following is illustrated by 2? A. Infundibulum of the pituitary
B. Middle cerebral artery C. Anterior cerebral artery
D. Basilar artery 5. Which number illustrates the posterior cerebral artery? ____ A. 8 ____ B. 6 C. 1
D. 4



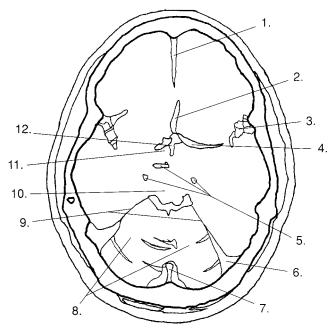
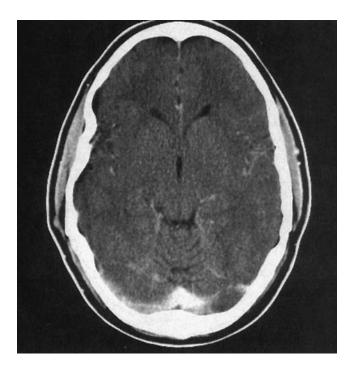


Figure 5-32

- 1. Which of the following is illustrated by 9?
 - ____ A. Midbrain
 - _____ B. Transverse sinus
 - ____ C. Tentorium cerebelli
 - ____ D. Cerebellum
- 2. Which number illustrates the falx cerebri?
 - ____ A. 7
 - ____ B. 2
 - ____ C. 5
 - ____ D. 1
- 3. Which of the following illustrates the hypothalamus?
 - ____ A. 12
 - ____ B. 11
 - ____ C. 8
 - ____ D. 10

- 4. Which number illustrates the Sylvian fissure?
 - ____ A. 3
 - ____ B. 1
 - ____ C. 9
 - ____ D. 12
- 5. Which of the following illustrates the falx cerebelli?
 - ____ A. 1
 - ____ B. 4
 - ____ C. 7
 - ____ D. 2



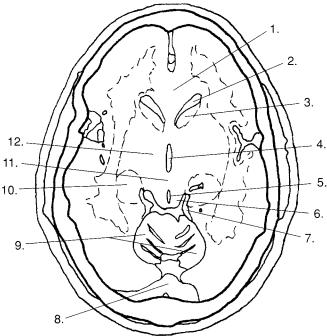
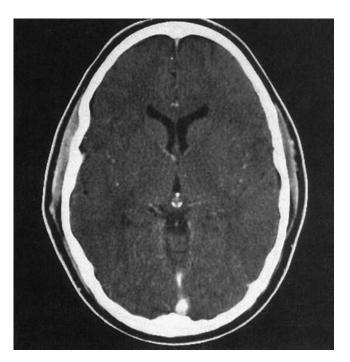


Figure 5-33

- 1. Which number illustrates the quadrigeminal plate?
 - ____ A. 6
 - ____ B. 2
 - ____ C. 7
 - ___ D. 3
- 2. Which number illustrates the cerebral peduncles?
 - ____ A. 6
 - ____ B. 11
 - ____ C. 10 ____ D. 12
- 3. Which of the following is illustrated by 4?
 - ____ A. Fourth ventricle
 - _____ B. Cerebral aqueduct
 - ____ C. Third ventricle
 - _____ D. Superior cistern

- 4. Which number illustrates the hippocampal formation?
 - ____ A. 3
 - ____ B. 6
 - ____ C. 11
 - ____ D. 10
- 5. Which number illustrates the posterior cerebral artery?
 - ____ A. 7
 - ____ B. 4
 - ____ C. 8
 - ____ D. 5



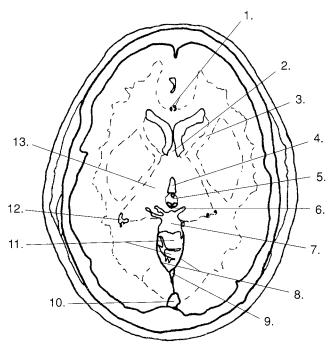


Figure 5-34

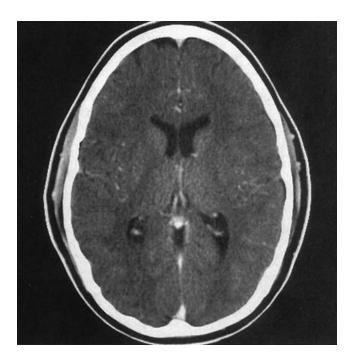
1. Which of the following is illustrated by 2?				
A. Thalamus				
B. Internal capsule				
C. Fornix				
D. Head of caudate				
2. Which number illustrates the quadrigeminal plate?				
A. 6				
B. 8				
C. 7				

- 3. Which number illustrates the inferior horn of the lateral ventricle?
 - ____ A. 8

_ D. 11

- ____ В. 5
- ____ C. 4
- ___ D. 12

- 4. Which of the following is illustrated by 9?
 - ____ A. Confluence of sinuses
 - _____ B. Straight sinus
 - ____ C. Inferior sagittal sinus
 - _____ D. Superior sagittal sinus
- 5. Which of the following is illustrated by 7?
 - ____ A. Quadrigeminal plate
 - _____ B. Superior cistern
 - ____ C. Third ventricle
 - ____ D. Straight sinus



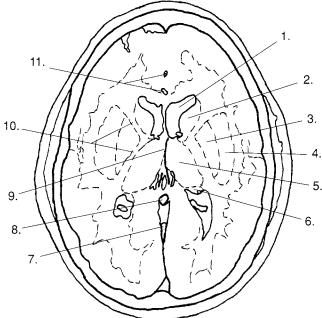
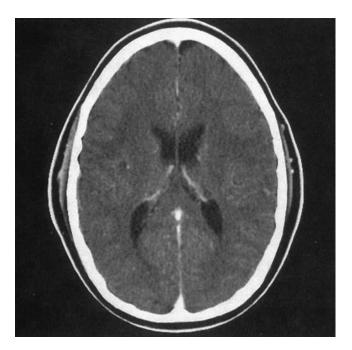


Figure 5-35

- 1. Which number illustrates the thalamus nucleus?
 - ____ A. 2
 - ____ B. 4
 - ____ C. 3
 - ____ D. 5
- 2. Which of the following is illustrated by 8?
 - _____ A. Posterior cerebral artery
 - _____ B. Vein of Galen
 - ____ C. Third ventricle
 - ____ D. Anterior cerebral artery
- 3. Which number illustrates the straight sinus?
 - ____ A. 9
 - ____ B. 6
 - ____ C. 7
 - ____ D. 1

- 4. Which of the following is illustrated by 4?
 - ____ A. Head of caudate
 - _____ B. Globus pallidus
 - ____ C. Putamen
 - ____ D. Tail of caudate
- 5. Which number illustrates the globus pallidus nucleus?
 - ____ A. 2
 - ____ B. 4
 - ____ C. 3
 - ____ D. 6





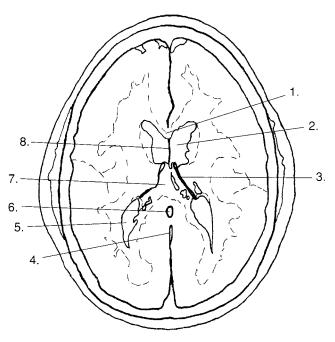


Figure 5-36

1.	Which of	the following is illustrated by 2?
	A.	Anterior horn of lateral ventricle
	В.	Body of lateral ventricle
	C.	Third ventricle
	D	. Superior cistern
2.	Which nu	umber illustrates the septum pellucidum?
	A.	1
	В.	4
	C.	3
	D	. 8

- 3. Which of the following is illustrated by 7? ____ A. Pons _____ B. Splenium of corpus callosum
 - ____ C. Hypothalamus ____ D. Thalamus

- 4. Which number illustrates the posterior horn of the lateral ventricle? ____ A. 3 ____ B. 6 ____ C. 5 ___ D. 2
- 5. Which of the following is illustrated by 3? _____ A. Posterior horn of the lateral ventricle B. Choroid plexusC. Splenium of corpus callosum ____ D. Septum pellucidum

CLINICAL APPLICATIONS

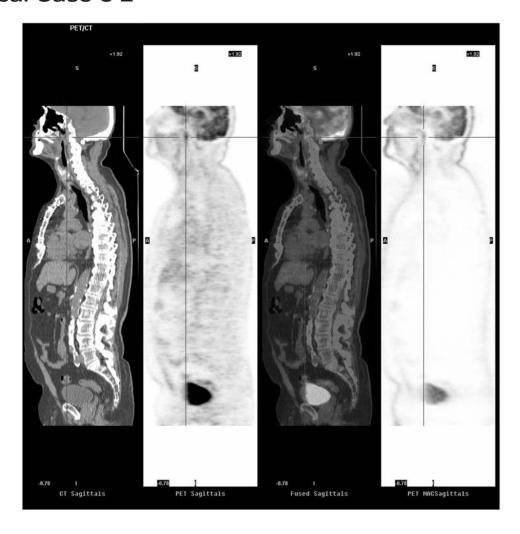
1. What bones form the bony nasal septum?	7. The transmits cerebrospinal fluid between the third and fourth ventricles.
 Which of the following nuclei appears to be protru ing into the lateral ventricles? A. Putamen B. Caudate C. Globus pallidus D. Thalamus Describe the location of the insula. 	A. Foramen of Magendie B. Interventricular foramen C. Foramen of Luschka D. Cerebral aqueduct 8. The vertebral arteries enter the cranial cavity through the foramen 9. Which of the following sinuses is located most posteriorly within the skull? A. Sphenoid B. Maxillary C. Ethmoid D. Frontal
 4. Which of the following describes the venous sinus between the inferior margin of the falx cerebri and tentorium cerebelli? A. Superior sagittal sinus B. Sigmoid sinus C. Straight sinus D. Inferior sagittal sinus 	10. Which of the following is found closest to the clivus? A. Pons B. Midbrain
5. Describe the fornix.	
6. Which of the following is most laterally situated within the brain? A. Putamen B. Caudate C. Globus pallidus D. Thalamus	

CLINICAL CORRELATIONS

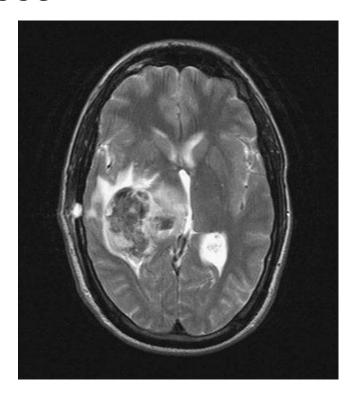
■ Clinical Case 5-1



 Which of the following describes the artery located superior to the cerebellum? A. Posterior cerebral B. Anterior cerebral C. Middle cerebral D. Basilar artery 	 4. Which of the following describes the artery located anterior to the pons? A. Posterior cerebral B. Anterior cerebral C. Middle cerebral D. Basilar artery
 2. In this patient, the location of the mass would best be described by which of the following: A. Anterior cranial fossa B. Middle cranial fossa C. Posterior cranial fossa D. Midbrain 	 5. Which of the following would best describe the procedure used to generate the images located above? A. Computed tomography angiography (CTA) B. Magnetic resonance angiography (MRA) C. Ultrasound
 3. Which of the following best describes the changes in adjacent tissues? A. Inferior displacement of the pons B. Superior displacement of the occipital lobe C. Lateral displacement of the temporal lobe D. Superior displacement of the frontal lobe 	D. Positron emission tomography/computed tomography (PET/CT)



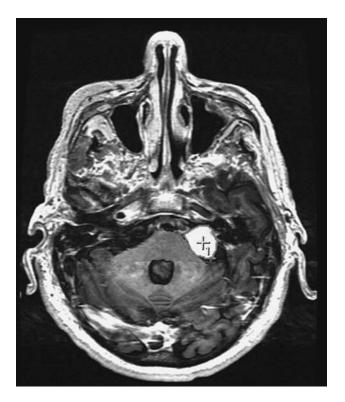
1.	Which of the following best describes the location of the mass marked above? A. Retropharyngeal B. Oropharynx	A. Sphenoid B. Temporal C. Frontal D. Occipital
	C. Laryngopharynx D. Retroperitoneal	4. Which of the following is the foramen that contains the vertebral arteries?
2.	The opening in the base of the skull that transmits the internal carotid artery is found in which of the following bones? A. Sphenoid B. Temporal	 A. Ovale B. Lacerum C. Magnum D. Superior orbital fissure
	C. Frontal D. Occipital	5. Which of the cranial nerves exits the skull to carry sensory and motor fibers below the diaphragm? A. Hypoglossal
3.	The opening in the base of the skull that transmits the internal jugular vein is found in which of the following bones?	B. TrochlearC. VagusD. Trigeminal

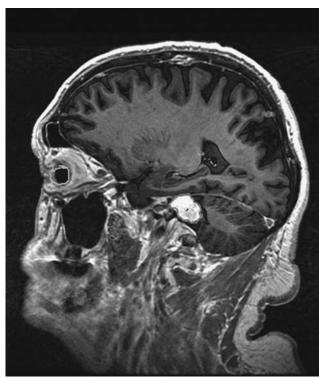


1. Describe the location of the glioblastoma multiforme	3.
in this axial, contrast-enhanced magnetic resonance	
(MR) image of the brain.	

3. Describe the consistency, shape, and border.

2.	Describe t	he changes	in adjacen	t tissues.
			J	

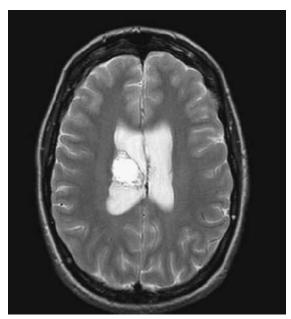




- 1. Describe the location of the acoustic neuroma in the axial (left) and sagittal (right) T1 weighted MR images in this 80-year-old male patient.
- 3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.



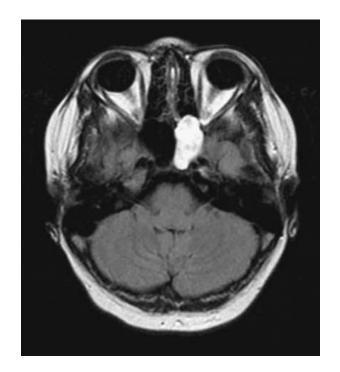


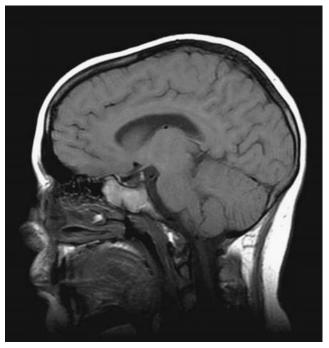
1. Describe the location of the neurocytoma shown in the sagittal T1 (left) and axial T2 (right) weighted MR images of the head.

 ${\it 3. \,\, Describe \,\, the \,\, consistency, \, shape, \,\, and \,\, border.}$

2. Describe the changes in adjacent tissues.

=. Become are enanges in adjacent assues.

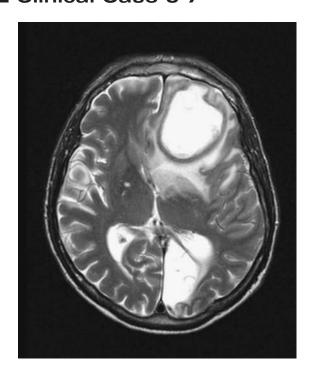


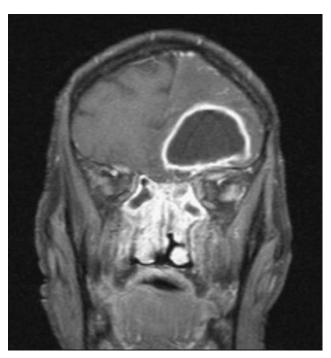


1. Describe the location of the mucocele shown in the $\ensuremath{T1}$ weighted axial and sagittal MR images.

3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.



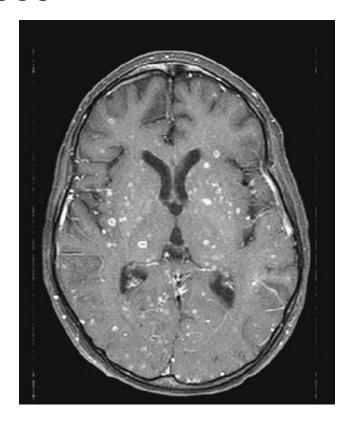


1. Describe the location of the brain abscess shown on the axial T2 (left) and coronal T1 (right) weighted post contrast MR images.

 $3. \ \ Describe the consistency, shape, and border.$

2. Describe the changes in adjacent tissues.

Describe the changes in adjacent assaes.



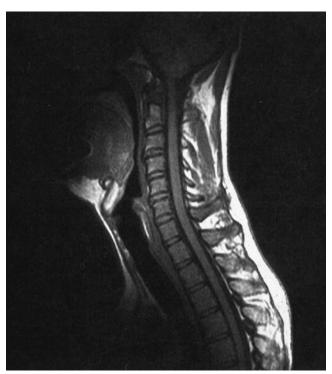
1.	Describe the location of the infection in this axial MR
	brain image of a 14-year-old female patient.

3.	Describe the consistency, shape, and border.

2.	Describe	the	changes	in	adia	cent	tissues.
⊿,	Describe	uic	Changes	111	auja	CUII	ussues.



Neck



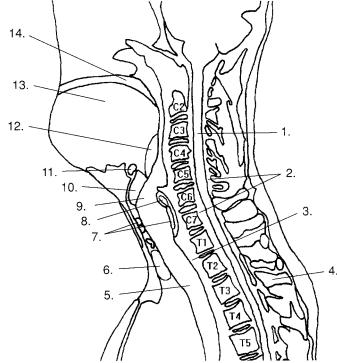


Figure 6-1

- 1. Which of the following is illustrated by 14?
 - ____ A. Nasopharynx
 - _____ B. Genioglossus muscle
 - ____ C. Soft palate
 - ____ D. Maxilla
- 2. Which of the following is illustrated by 7?
 - _____ A. Thyroid cartilage
 - _____ B. Cricoid cartilage
 - ____ C. Arytenoid cartilage
 - ____ D. Hyoid bone
- 3. Which number illustrates the genioglossus muscle?
 - ____ A. 13
 - ____ B. 14
 - ____ C. 12
 - ____ D. 10

- 4. Which of the following is illustrated by 8?
 - _____ A. Arytenoid cartilage
 - _____ B. Cricoid cartilage
 - ____ C. Thyroid cartilage
 - ____ D. Hyoid bone
- 5. Which number illustrates the isthmus of the thyroid gland?
 - ____ A. 12
 - ____ B. 7
 - ___ C. 10
 - __ D. 6



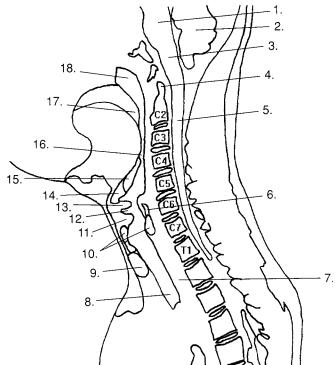


Figure 6-2

- 1. Which number illustrates the vestibular fold?
 - ____ A. 13
 - ____ B. 6

 - ____ C. 11 ____ D. 18
- 2. Which of the following is illustrated by 15?
 - ____ A. Oropharynx
 - ____ B. Epiglottis
 - ____ C. Cricoid cartilage
 - _____ D. Arytenoid cartilage
- 3. Which of the following is illustrated by 12?
 - ____ A. Vestibular fold
 - _____ B. Uvula
 - __ C. Laryngeal pharynx
 - ____ D. Glottic space

- 4. Which number illustrates the thyroid cartilage?
 - ____ A. 14
 - ____ B. 15
 - ____ C. 6
 - ___ D. 10
- 5. Which number illustrates the vocal fold?
 - ____ A. 12
 - ____ B. 13
 - ____ C. 11
 - ____ D. 15



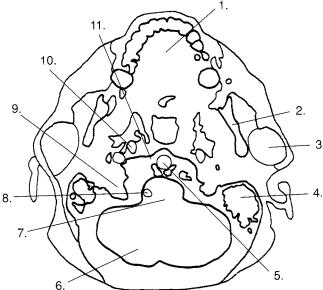
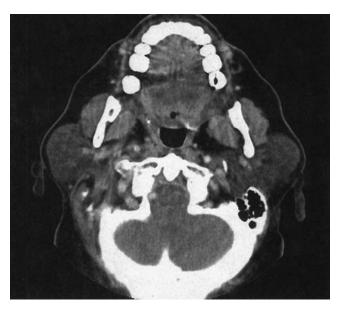


Figure 6-3

Ι.	wnich	01 t	ne following is illustrated by 8?
		A.	Basilar artery
		В.	Posterior cerebral artery
		C.	Right vertebral artery
		D.	Right internal carotid artery
2.	Which	nuı	mber illustrates the sigmoid sinus
		A.	9
		В.	10
		C.	4
		D.	5
3.	Which	of t	he following is illustrated by 3?
		A.	Submandibular gland
		B.	Mastoid air cells
		C.	Ramus of the mandible
		D.	Parotid gland

4. Which number illustrates the internal carotid artery?
A. 5
B. 9
C. 10
D. 8
5. Which of the following is illustrated by 11?
A. Occipital bone
B. Dens
C. Styloid process
D. Anterior arch of the atlas



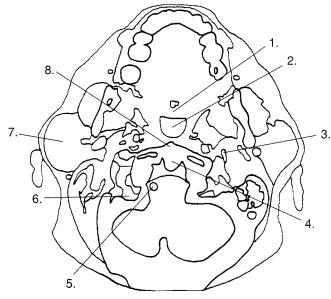


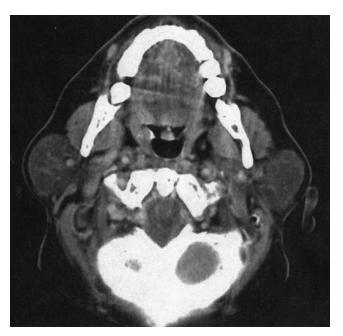
Figure 6-4

1. Which of the following is illustrated by 3?
A. Internal carotid artery
B. Styloid process
C. Internal jugular vein
D. Dens
2. Which number illustrates the internal jugular vein?
2. Which number illustrates the internal jugular vein? A. 6
, 0
A. 6

- 3. Which of the following is illustrated by 7?
 - ____ A. Retromandibular vein
 - _____ B. Submandibular gland
 - ____ C. Parotid gland
 - ____ D. Sublingual gland

- 4. Which of the following is illustrated by 2? ____ A. Vallecula

 - _____ B. Laryngeal pharynx
 - ____ C. Uvula
 - ____ D. Oropharynx
- 5. Which of the following is illustrated by 5?
 - _____ A. Basilar artery
 - _____ B. Internal jugular vein
 - ____ C. Vertebral artery
 - _____ D. Internal carotid artery



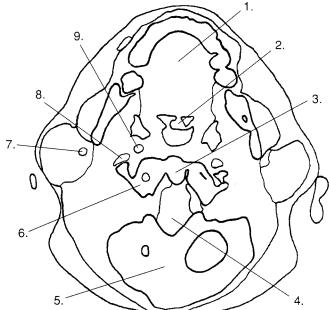


Figure 6-5

1	Which	num	her il	llustrates	the uvulai

- ____ A. 6
- ____ B. 2
- ____ C. 4
- ____ D. 3

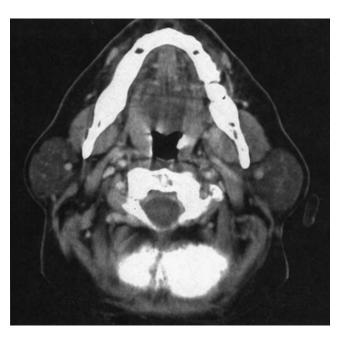
2. Which of the following is illustrated by 7?

- _____ A. Parotid gland
- _____ B. Right retromandibular vein
- ____ C. External jugular vein
- _____ D. Internal jugular vein

3. Which of the following is illustrated by 1?

- _____ A. Soft palate
- ____ B. Geniohyoid
- ____ C. Sternocleidomastoid
- ____ D. Genioglossus muscle

- 4. Which of the following is illustrated by 6?
 - ____ A. Atlas
 - _____ B. Dens
 - ____ C. Axis
 - ____ D. Occipital bone
- 5. Which of the following is illustrated by 4?
 - ____ A. Spinal cord
 - ____ B. Pons
 - ____ C. Cerebral peduncles
 - ____ D. Oropharynx



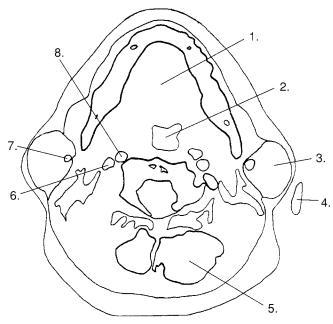


Figure 6-6

1.	Which	nur	mber illustrates the oropharynx?
		A.	8
		B.	4
		C.	2
		D.	3
2.	Which	of t	he following is illustrated by 3?
		A.	Submandibular gland
		В.	Sublingual gland
		D.	Parotid gland
3.	Which	nur	mber illustrates the internal jugular vein
		A.	6
		B.	2
		C	8

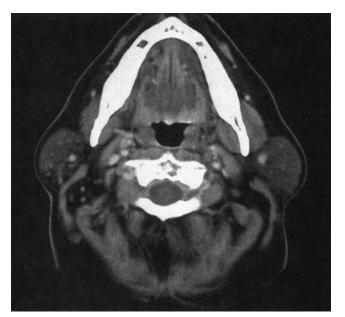
___ D. 7

4. Which of the following is illustrated by 8?

A. Internal jugular vein
B. Retromandibular vein
C. Vertebral artery
D. Internal carotid artery

5. Which of the following is illustrated by 5?

A. Dens
B. Atlas
C. Occipital bone
D. Axis



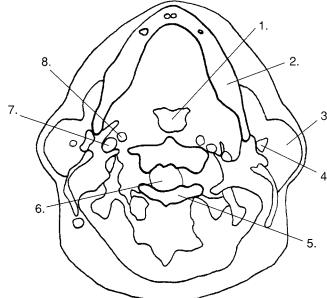
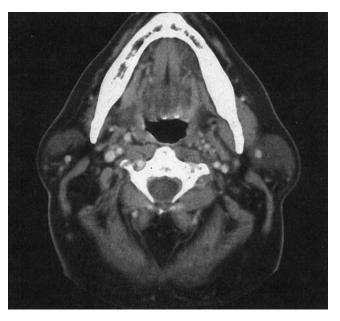


Figure 6-7

1.	Which o	of t	he following is illustrated by 2?
	A	A.	Maxilla
	I	B.	Ramus of mandible
	(C.	Body of mandible
			Coronoid notch
2.	Which r	nun	nber illustrates the lamina?
	A	A.	5
	I	B.	6
	(C.	2
	I	D.	4
3.	Which o	of t	he following is illustrated by 4?
	A	A.	Right retromandibular vein
	I	B.	Left retromandibular vein
	(C.	Right external jugular vein
			Left external jugular vein

4.	Which	nui	mber illustrates the parotid gland?
		A.	1
		B.	6
		C.	5
		D.	3
5.	Which	nui	mber illustrates the internal carotid artery?
5.	Which		· · · · · · · · · · · · · · · · · · ·
5.		A.	8
5.		A. B.	8 4





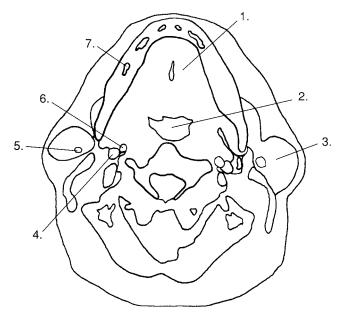
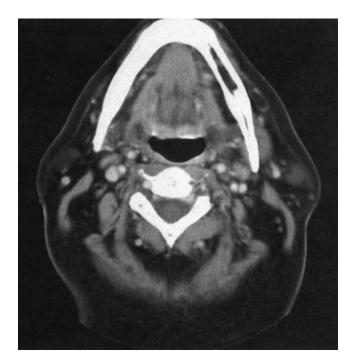


Figure 6-8

- 1. Which of the following is illustrated by 4?
 - _____ A. Right internal carotid artery
 - _____ B. Left internal carotid artery
 - ____ C. Right internal jugular vein
 - _____ D. Left internal jugular vein
- 2. Which of the following is illustrated by 1?
 - ____ A. Soft palate
 - _____ B. Geniohyoid muscle
 - ____ C. Sternocleidomastoid muscle
 - ____ D. Genioglossus muscle
- 3. Which of the following is illustrated by 7?
 - ____ A. Body of mandible
 - _____ B. Ramus of mandible
 - ____ C. Maxilla
 - ____ D. Coronoid notch

- 4. Which of the following is illustrated by 6?
 - _____ A. Right internal jugular vein
 - _____ B. Left internal jugular vein
 - ____ C. Right internal carotid artery
 - ____ D. Left retromandibular vein
- 5. Which of the following is illustrated by 5?
 - ____ A. Right internal carotid artery
 - _____ B. Left internal carotid artery
 - ____ C. Left retromandibular vein
 - _____ D. Right retromandibular vein



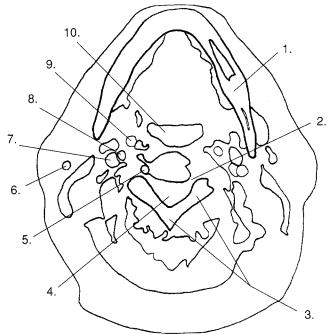
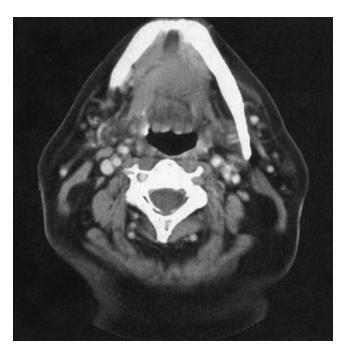


Figure 6-9

1. Which of the following illustrates the intervertebral
foramen?
A. 4
В. 3
C. 2
D. 10
2. Which number illustrates the internal jugular vein?

- ____ A. 7 ____ B. 8 ____ C. 6 ____ D. 5 3. Which of the following is illustrated by 5? _____ A. Internal carotid artery _____ B. Internal jugular vein ____ C. Retromandibular vein ____ D. Vertebral artery
- 4. Which of the following is illustrated by 4? ____ A. Lamina _____ B. Spinal cord ____ C. Intervertebral foramen ____ D. Oropharynx 5. Which of the following is illustrated by 9? _____ A. Internal carotid artery _____ B. Internal jugular vein C. External carotid artery
 D. Vertebral artery



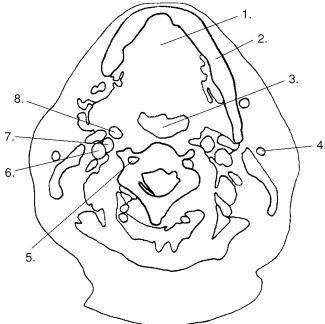
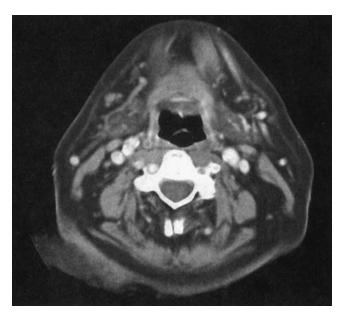


Figure 6-10

- 1. Which of the following is illustrated by 7? _____ A. Right internal carotid artery _____ B. Left internal carotid artery ____ C. Right external carotid artery _____ D. Left external carotid artery 2. Which number illustrates the body of the mandible? ____ A. 3 ____ B. 1 ____ C. 2 ____ D. 8
- 3. Which of the following is illustrated by 3?
 - ____ A. Larynx
 - _____ B. Laryngeal pharynx
 - ____ C. Nasopharynx
 - ____ D. Oropharynx

- 4. Which of the following is illustrated by 6?
 - _____ A. Internal carotid artery
 - _____ B. External carotid artery
 - ____ C. Internal jugular vein
 - _____ D. External jugular vein
- 5. Which of the following is illustrated by 4?
 - _____ A. Retromandibular vein
 - _____ B. Retromandibular artery
 - ____ C. External jugular vein
 - _____ D. External carotid artery



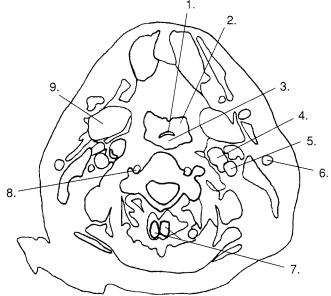
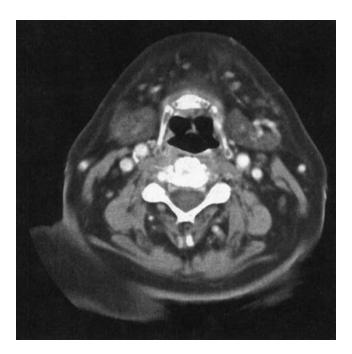


Figure 6-11

1. Which of the following is illustrated by 4? ———————————————————————————————————	 4. Which of the following is illustrated by 3? A. Oropharynx B. Laryngeal pharynx C. Piriform sinus
D. Internal jugular vein 2. Which number illustrates the epiglottis? A. 7 B. 9 C. 1 D. 8	D. Vallecula 5. Which of the following is illustrated by 2? A. Vallecula B. Glottic space C. Laryngeal pharynx D. Piriform sinus
3. Which number illustrates the internal jugular vein? ———————————————————————————————————	



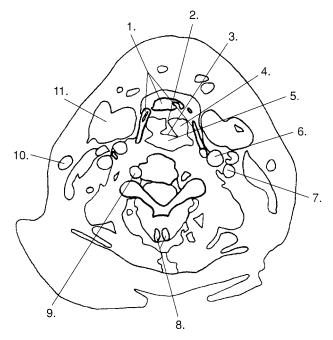


Figure 6-12

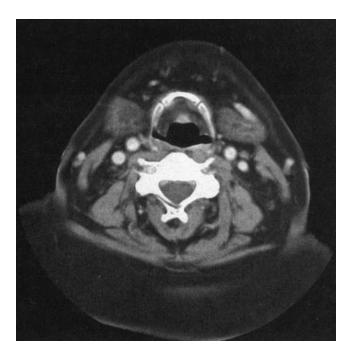
1. Which of the following is illustrated by 4?
A. Glottic space
B. Laryngeal pharynx
C. Piriform sinus
D. Vallecula
2. Which number illustrates the laryngeal pharynx?
A. 6
B. 4
C. 5
D. 3
3. Which number illustrates the median glossoepiglottic fold?
A. 3
B. 2
C. 11
D. 4

4. Which of the following is illustrated by 1?

A. Hyoid bone
B. Cricoid cartilage
C. Body of mandible
D. Thyroid cartilage

5. Which of the following is illustrated by 7?

A. Common carotid artery
B. Internal carotid artery
C. Internal jugular vein
D. External jugular vein



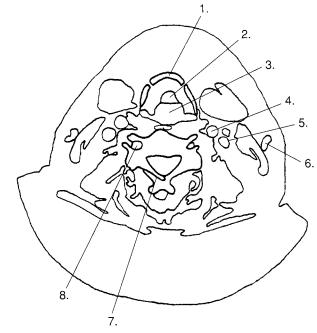
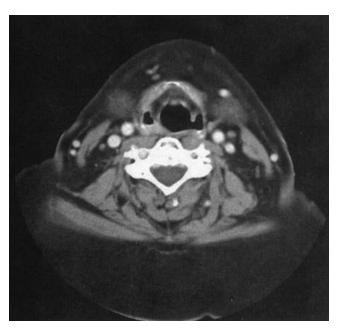


Figure 6-13

1. Which of the following is illustrated by 6? A. External jugular vein B. Internal jugular vein C. Retromandibular vein D. External carotid artery	 4. Which of the following is illustrated by 4? A. Internal jugular vein B. Internal carotid artery C. Common carotid artery D. External jugular vein
2. Which number illustrates the laryngeal vestibule? A. 2 B. 3 C. 1 D. 8	 5. Which of the following is illustrated by 1? A. Cricoid cartilage B. Arytenoid cartilage C. Thyroid cartilage D. Hyoid bone
3. Which of the following is illustrated by 2? A. Arytenoid cartilage B. Uvula C. Epiglottis D. Laryngeal vestibule	



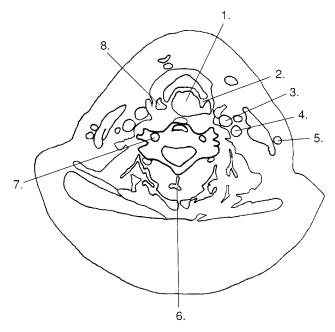


Figure 6-14

1. Which nui	nber illustrates the vertebral artery?
A.	3
В.	4
C.	7

- 2. Which of the following is illustrated by 1?
 - ____ A. Piriform sinus
 - _____ B. Laryngeal vestibule
 - ____ C. Vallecula

____ D. 5

- _____ D. Laryngeal pharynx
- 3. Which of the following is illustrated by 8?
 - ____ A. Vallecula
 - _____ B. Laryngeal pharynx
 - ____ C. Piriform sinus
 - _____ D. Laryngeal vestibule

- 4. Which of the following is illustrated by 2?
 - ____ A. Aryepiglottic fold
 - _____ B. Vestibular fold
 - ____ C. Vallecula
 - ____ D. Vocal fold
- 5. Which number illustrates the common carotid artery?
 - ____ A. 7
 - ____ В. 5
 - ____ C. 4
 - ____ D. 3



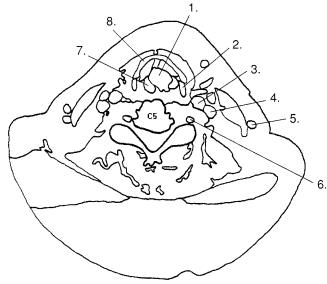


Figure 6-15

1. Which of the following is illustrated by 6?
A. Vertebral artery
B. External jugular vein
C. Internal jugular vein
D. Common carotid artery
2. Which of the following is illustrated by 8?
2. Which of the following is illustrated by 8? ——— A. Cricoid cartilage
A. Cricoid cartilage

- 3. Which number illustrates the laryngeal vestibule?
 - ____ A. 8
 - ____ B. 7
 - ____ C. 1
 - ____ D. 2

- 4. Which number illustrates the piriform sinus?
 - ____ A. 2
 - ____ B. 7
 - ____ C. 8 ___ D. 1
- 5. Which of the following is illustrated by 7?
 - ____ A. Vallecula
 - _____ B. Thyroid cartilage
 - ____ C. Laryngeal vestibule
 - ____ D. Arytenoid cartilage



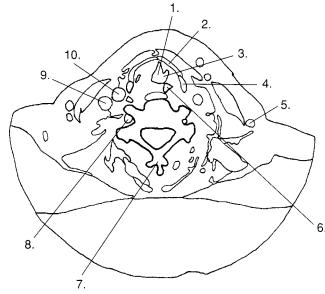
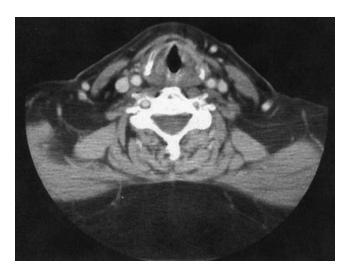


Figure 6-16

- 1. Which of the following is illustrated by 2?
 - ____ A. Hyoid bone
 - _____ B. Arytenoid cartilage
 - ____ C. Cricoid cartilage
 - ____ D. Thyroid cartilage
- 2. Which of the following is illustrated by 4?
 - ____ A. Piriform sinus
 - ____ B. Glottic space
 - ____ C. Vallecula
 - ____ D. Oropharynx
- 3. Which number illustrates the arytenoid cartilage?
 - ____ A. 6
 - ____ B. 2
 - ____ C. 3
 - ____ D. 4

- 4. Which of the following is illustrated by 3?
 - ____ A. Oropharynx
 - ____ B. Glottic space
 - ____ C. Arytenoid cartilage
 - ____ D. Laryngeal vestibule
- 5. Which number illustrates the common carotid artery?
 - ____ A. 5
 - ____ B. 8
 - ____ C. 9
 - ____ D. 10



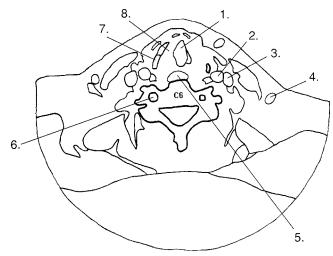
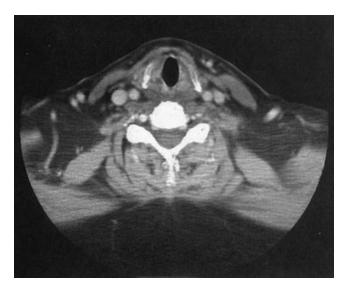


Figure 6-17

- 1. Which number illustrates the vocal cord?
 - ____ A. 5
 - ____ B. 7
 - ____ C. 8
 - ____ D. 1
- 2. Which of the following is illustrated by 5?
 - ____ A. Esophagus
 - _____ B. Thyroid cartilage
 - ____ C. Retropharynx
 - ____ D. Vocal cord
- 3. Which number illustrates the common carotid artery?
 - ____ A. 6
 - ____ B. 2
 - ____ C. 3
 - ____ D. 4

- 4. Which of the following is illustrated by 1?
 - ____ A. Vocal cord
 - _____ B. Glottic space
 - ____ C. Vallecula
 - _____ D. Infraglottic space
- 5. Which of the following is illustrated by 7?
 - ____ A. Hyoid bone
 - _____ B. Thyroid cartilage
 - ____ C. Cricoid cartilage
 - ____ D. Vocal cord





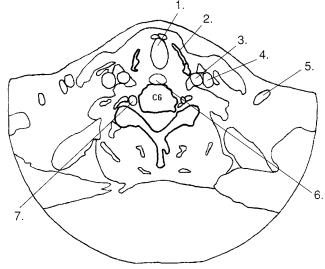


Figure 6-18

- 1. Which number illustrates the common carotid artery?
 - ____ A. 3
 - ____ B. 7
 - ____ C. 4
 - ____ D. 5
- 2. Which of the following is illustrated by 2?
 - _____ A. Trachea
 - _____ B. Arytenoid cartilage
 - ____ C. Cricoid cartilage
 - ____ D. Thyroid cartilage
- 3. Which of the following is illustrated by 6?
 - _____ A. Thyroid cartilage
 - _____ B. Trachea
 - ____ C. Esophagus
 - _____ D. Laryngeal vestibule

- 4. Which number illustrates the internal jugular vein?
 - ____ A. 5
 - ____ B. 7
 - ____ C. 4
 - ____ D. 3
- 5. Which of the following is illustrated by 1?
 - ____ A. Trachea
 - ____ B. Esophagus
 - ____ C. Laryngeal vestibule
 - _____ D. Laryngeal pharynx



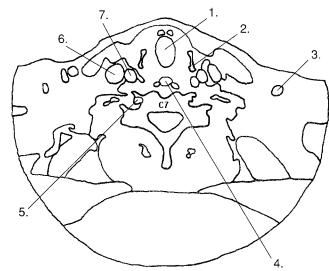
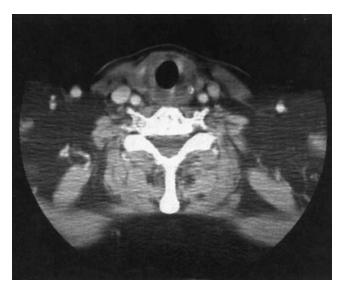


Figure 6-19

- 1. Which number illustrates the internal jugular vein?
 - ____ A. 7
 - ____ B. 5
 - ____ C. 6 ____ D. 3
- 2. Which of the following is illustrated by 6?
 - _____ A. External jugular vein
 - _____ B. Internal jugular vein
 - ____ C. Retromandibular vein
 - ____ D. Subclavian vein
- 3. Which of the following is illustrated by 2?
 - _____ A. Thyroid cartilage
 - _____ B. Cricoid cartilage
 - ____ C. Arytenoid cartilage
 - ____ D. Hyoid bone

- 4. Which of the following is illustrated by 4?
 - ____ A. Trachea
 - _____ B. Esophagus
 - ____ C. Vallecula
 - _____ D. Laryngeal pharynx
- 5. Which of the following is illustrated by 1?
 - ____ A. Vallecula
 - _____ B. Esophagus
 - ____ C. Laryngeal pharynx
 - ____ D. Trachea



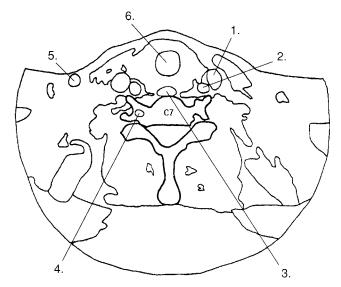


Figure 6-20

1.	Which	number illustrates the common carotid artery?
		A. 1
		B. 3
		C. 4
		D. 2
2.	Which	of the following is illustrated by 1?
		A. External jugular vein
		B. Internal jugular vein
		C. Vertebral vein
		D. Common carotid artery

- 3. Which number illustrates the external jugular vein?
 - ____ A. 1
 - ____ B. 4
 - ____ C. 2
 - ____ D. 5

- 4. Which of the following is illustrated by 6?
 - ____ A. Infraglottic space
 - ____ B. Glottic space
 - ____ C. Trachea
 - ____ D. Laryngeal vestibule
- 5. Which of the following is illustrated by 3?
 - ____ A. Trachea
 - _____ B. Laryngeal vestibule
 - ____ C. Laryngeal pharynx
 - ____ D. Esophagus

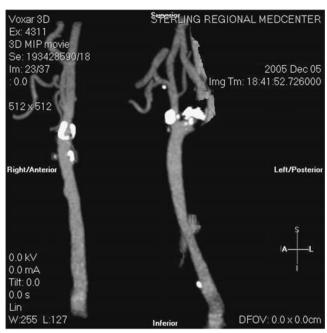
CLINICAL APPLICATIONS

2.	C2 is also called the Which of the following vertebrae is described as not having a vertebral body? A. Thoracic B. Axis C. C3 through C6 D. Atlas Which of the following is described as a ring-shaped cartilage forming part of the larynx?	 The aryepiglottic folds are also known as the false vocal cords. True or false Which of the following vessels is located most anteriorly in the upper neck? A. External carotid artery B. Internal carotid artery C. Internal jugular vein D. Vertebral artery
4.	 A. Arytenoid B. Thyroid C. Cricoid D. Epiglottis The vestibular folds are located superior to the vocal folds. True or false	 9. The U-shaped gland is located just below the larynx and has two large lobes on either side of the upper trachea. 10. The external jugular veins drain into the veins on either side of the neck.
5.	The left vertebral artery originates from which of the following? A. Aortic arch B. Axillary artery C. Subclavian artery D. Common carotid artery	
6.	Describe the glottic space.	

212

CLINICAL CORRELATIONS

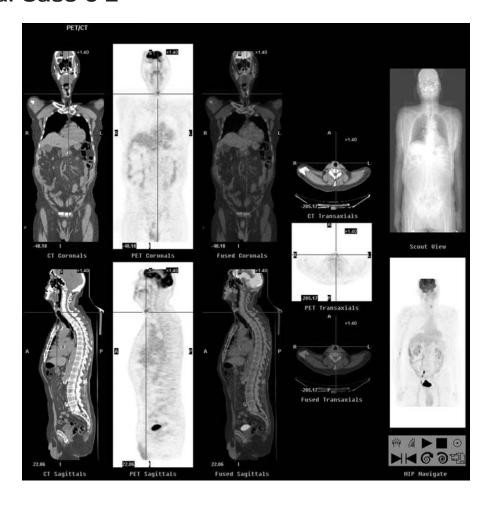




- 1. In the image above, which of the following best describes the location of the largest blockage?
 - _____ A. Origin of external carotid artery
 - _____ B. Origin of internal carotid artery
 - ____ C. Origin of right common iliac artery
 - _____ D. Origin of left common iliac artery
- 2. In this patient, the plaque causing greater arterial stenosis is found on which side?
 - ____ A. Right
 - _____ B. Left
- 3. In the sagittal image, which of the following vessels is shown entering the base of the skull?
 - _____ A. External carotid artery
 - _____ B. Internal carotid artery
 - ____ C. Right common iliac artery
 - _____ D. Left common iliac artery

- 4. Is the arterial blood flow within the vertebral artery demonstrated in any of the images above?
 - ____ A. No
 - _____ B. Yes
- 5. Is the arterial blood flow within the external carotid artery demonstrated in any of the images above?
 - ____ A. No
 - _____ B. Yes

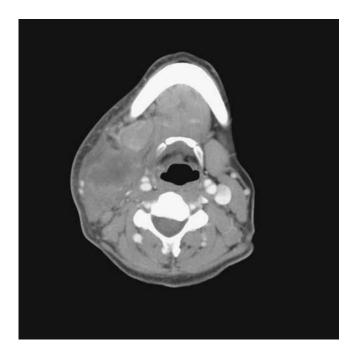
____ C. Lateral ____ D. Medial



1.	Which of the following best describes the location of	4. The vocal cords extend between which of the following
	the mass marked above?	cartilage structures?
	A. Retropharynx	A. Thyroid to cricoid
	B. Oropharynx	B. Cricoid to epiglottis
	C. Laryngopharynx	C. Thyroid to arytenoid
	D. Larynx	D. Arytenoid to cricoid
2.	In this patient, is the mass located on the right or left	5. Which of the following best describes the position of
	side?	the mass as compared to the epiglottis?
	A. Right	A. Superior
	B. Left	B. Inferior
2	Which of the following best describes the position of	C. Lateral
J.	Which of the following best describes the position of	D. Medial
	the mass as compared to the cricoid cartilage?	
	A. Superior	
	B. Inferior	



1. Describe the location of the thyroid adenoma in this axial computed tomography (CT) image.	3. Describe the consistency, shape, and border.
	_
	_
2. Describe the changes in adjacent tissues.	
	<u> </u>
	<u> </u>



1. Describe the location of the mass in this axial CT section through the level of the hyoid bone.	3. Describe the consistency, shape, and border.
	_
	_
	_
2. Describe the changes in adjacent tissues.	
	_

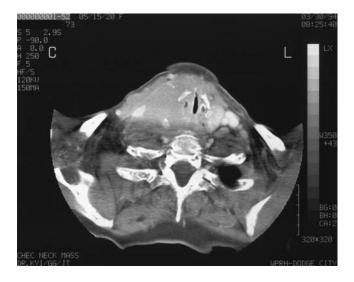




1. Describe the location of the carcinoma shown in the coronal (left) and sagittal (right) T2 weighted magnetic resonance (MR) images of this 43-year-old man.

2. Describe the changes in adjacent tissues.

3. Describe the consistency, shape, and border.



 Describe the location of the lymphoma shown in this axial CT image of a 73-year-old female. 	3. Describe the consistency, shape, and border.
	_
	<u> </u>
	_
2. Describe the changes in adjacent tissues.	
	_
	_

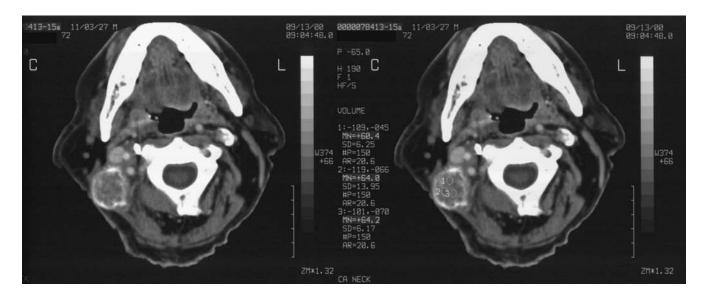




1. Describe the location of the adenopathy (enlarged lymph nodes circled) shown in the axial CT images following the administration of contrast to this 64-year-old patient previously diagnosed with Hodgkin disease.

3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.



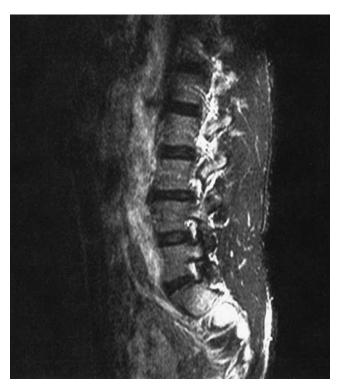
1. Describe the location of the parotid carcinoma in these contrast-enhanced axial CT sections through the neck at the level of the lower mandible in this 72-year-old male patient.

3. Describe the consistency, shape, and border.

2. Describe the changes in adjacent tissues.



Spine



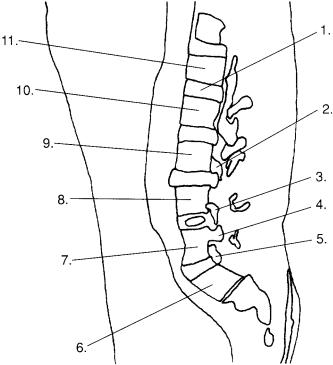
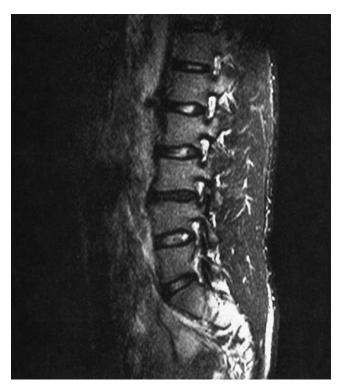


Figure 7-1

- 1. What number illustrates the pedicle?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 3
 - ____ D. 5
- 2. Which of the following is illustrated by 8?
 - ____ A. Vertebral body of L5
 - _____ B. Intervertebral disk
 - ____ C. Vertebral body of L4
 - ____ D. L5 nerve roots
- 3. What number illustrates the vertebral body of S1?
 - ____ A. 7
 - ____ B. 8

 - ____ C. 9 ___ D. 6

- 4. Which of the following is illustrated by 1?
 - ____ A. L3 nerve roots
 - _____ B. Intervertebral disk
 - ____ C. Vertebral body of L1
 - ____ D. Pedicle of L5
- 5. What number illustrates the L5 nerve roots?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 5
 - ____ D. 3



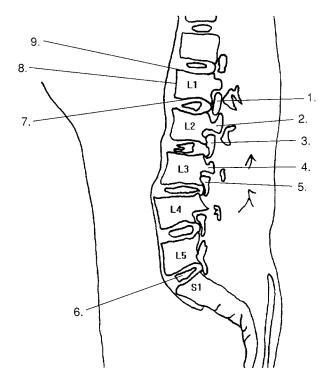
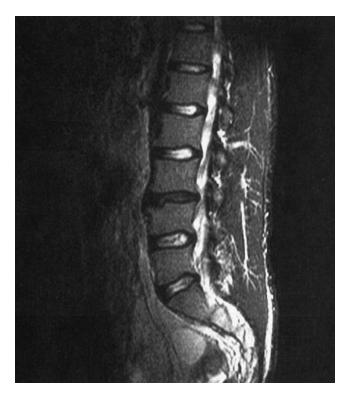


Figure 7-2

- 1. What number illustrates the superior vertebral endplate?
 - ____ A. 1
 - ____ В. 7
 - ____ C. 2
 - ____ D. 9
- 2. Which of the following is illustrated by 5?
 - ____ A. L3 nerve roots
 - _____ B. L2 nerve roots
 - ____ C. L4 nerve roots
 - _____ D. L3 pedicle
- 3. What number illustrates the L2 pedicle?
 - ____ A. 4
 - ____ B. 2
 - ____ D. 2
 - ____ D. 7

- 4. Which of the following is illustrated by 8?
 - _____ A. Inferior vertebral endplate L1
 - _____ B. L1 nerve roots
 - ____ C. Anterior cortical bone of body
 - ____ D. L2 nerve roots
- 5. Which of the following is illustrated by 6?
 - _____ A. Anterior cortical bone of body
 - ____ B. L3 pedicle
 - ____ C. Intervertebral disk
 - _____ D. Inferior vertebral endplate L1



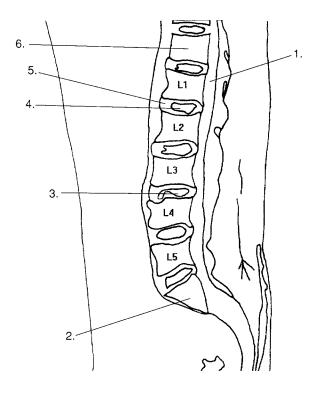


Figure 7-3

- 1. Which of the following is illustrated by 1? ____ A. Spinal cord B. Edge of dural sac
 C. Anulus fibrosus ____ D. Cauda equina 2. What number illustrates the herniated disk? ____ A. 4
- 3. What number illustrates the nucleus pulposus?
 - ____ A. 4

____ B. 2

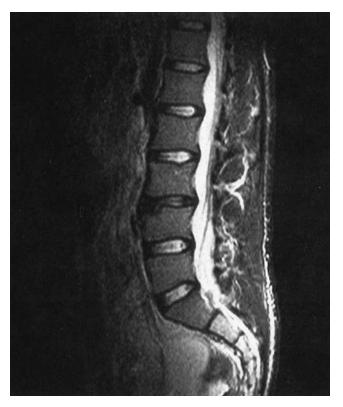
____ C. 5

____ D. 3

- ____ B. 6
- ____ C. 1
- ____ D. 5

- 4. Which of the following is illustrated by 6?
 - ____ A. L1 vertebral body
 - B. L2 vertebral body
 C. T12 vertebral body

 - ____ D. Intervertebral disk
- 5. What number illustrates the anulus fibrosus?
 - ____ A. 5
 - ____ B. 1
 - ____ C. 3
 - ___ D. 4



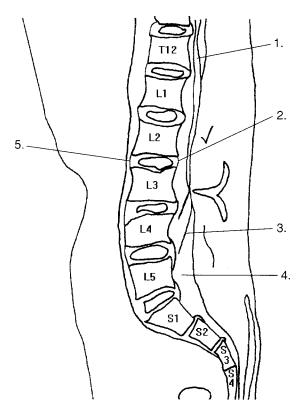
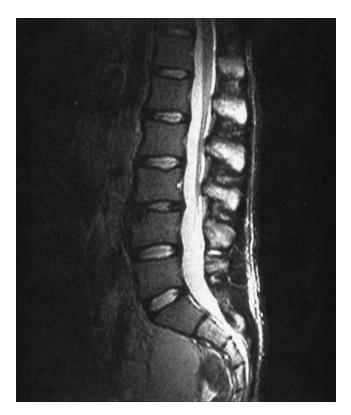


Figure 7-4

1.	Which of t	he following is illustrated by 1?
	A.	Spinal cord
	В.	Edge of dural sac
	C.	Anulus fibrosus
	D.	Cauda equina
2.	Which of t	he following is illustrated by 2?
	A.	Anterior longitudinal ligament
	В.	Posterior longitudinal ligament
	C.	Herniated disk
	D.	Nucleus pulposus
3.	What num	ber illustrates the cauda equina
	A.	1
	В.	3
	C.	4

____ D. 2

4.	What nur	mber illustrates the subarachnoid space?
	A.	1
	В.	2
	C.	3
	D	. 4
5.	Which of	the following is illustrated by 5?
	A.	Anterior longitudinal ligament
	В.	Posterior longitudinal ligament
	C.	Herniated disk
	D	. Nucleus pulposus



____ C. 1 ____ D. 4

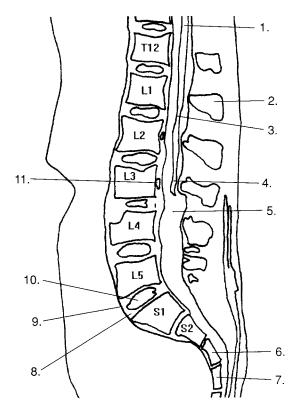
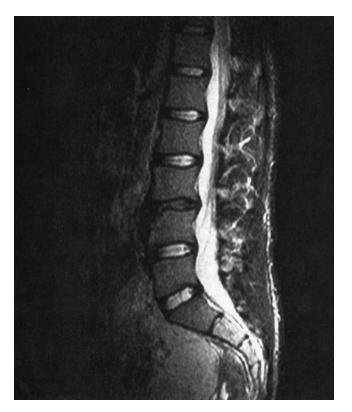


Figure 7-5

1. What number illustrates the conus medullaris? 4. Which of the following is illustrated by 5? ____ A. 1 ____ A. Subarachnoid space ____ B. 5 _____ B. Epidural space ____ C. 4 ____ C. L1 spinous process ____ D. 3 ____ D. Subdural space 2. Which of the following is illustrated by 10? 5. Which of the following is illustrated by 4? ____ A. Intervertebral disk L4-L5 ____ A. Spinal cord _____ B. Nucleus pulposus ____ B. Conus medullaris ____ C. Anulus fibrosus ____ C. Cauda equina _____ D. Intervertebral disk S1-S2 ___ D. Basivertebral vein 3. What number illustrates the spinal cord? ____ A. 5 ____ В. 3





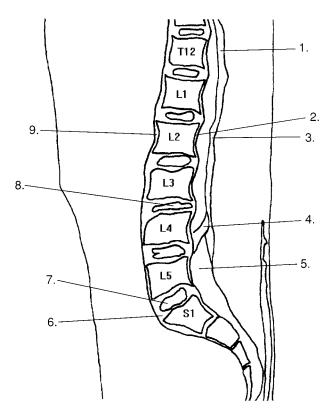
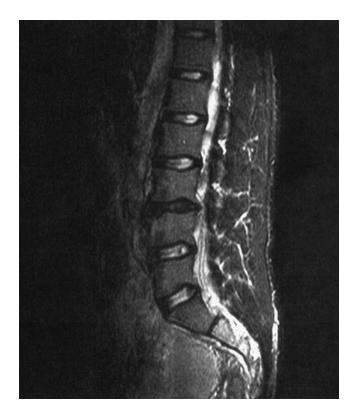


Figure 7-6

1.	What nu	ım	ber illustrates the cauda equina?
	A	١.	1
	F	3.	4
	(Ξ.	3
	I	Э.	5
2.	Which o	of t	he following is illustrated by 7?
	A	٨.	Annulus fibrosus
	B	3.	Ruptured disk
			Nucleus pulposus
			Intervertebral disk L4-L5
3.	Which o	of t	he following is illustrated by 2?
	A	٨.	Anterior longitudinal ligament
	F	3.	Conus medullaris
	(Ξ.	Spinal cord
			Posterior longitudinal ligament

	***1 . 1	
4.	Which of	f the following is illustrated by 9?
	A	. Anterior longitudinal ligament
	B	. Annulus fibrosus
	(. Subarachnoid space
	[D. Posterior longitudinal ligament
5.	What nu	mber illustrates the ruptured disk?
	A	. 7
	B	. 9
	(' 5
		. 0



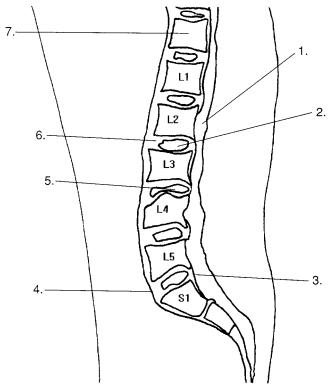
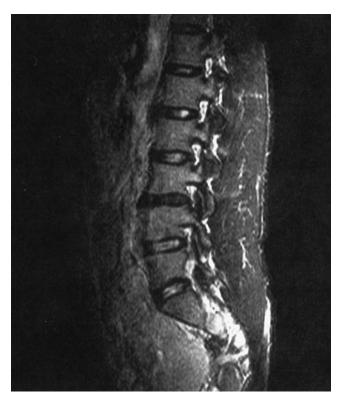


Figure 7-7

1.	Which of the following is illustrated by 2?	4.	Which
	A. Anulus fibrosus		
	B. Herniated disk		
	C. Nucleus pulposus		
	D. Edge of dural sac		
2.	What number illustrates the anterior longitudinal	5.	What
	ligament?		
	A. 4		
	B. 3		
	C. 5		
	D. 2		
3.	Which of the following is illustrated by 6?		
	A. Herniated disk		

B. Anulus fibrosus
C. Nucleus pulposus
D. Edge of dural sac

1 .	Which of t	the following is illustrated by 1?
		Edge of the dural sac
	В.	Epidural space
	C.	Basivertebral vein
	D.	Pia mater
õ.	What num	ber illustrates the herniated disk?
	A.	2
	В.	6
	C.	4
	D	5



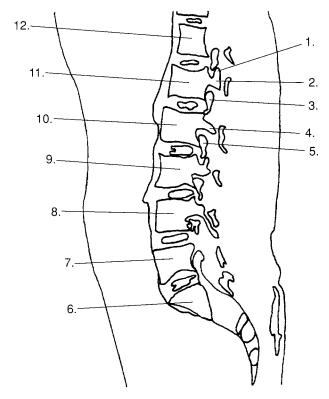


Figure 7-8

- 1. What number illustrates the L1 nerve roots?
 - ____ A. 2
 - ____ В. 5
 - ____ C. 3
 - ____ D. 1
- 2. Which of the following is illustrated by 10?
 - ____ A. L2
 - ____ B. L1
 - ____ C. L3
 - ____ D. T1
- 3. What number illustrates the L1 pedicle?
 - ____ A. 4
 - ____ В. 3
 - ____ C. 5
 - ____ D. 2

- 4. Which of the following is illustrated by 8?
 - ____ A. L3
 - ____ B. L4
 - ____ C. S1
 - ____ D. L5
- 5. Which of the following is illustrated by 3?
 - ____ A. L2 nerve roots
 - ____ B. L1 pedicle
 - ____ C. L1 nerve roots
 - ____ D. L2 pedicle



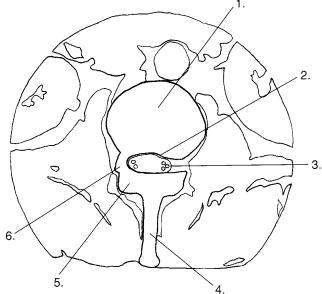


Figure 7-9

- 1. What number illustrates the epidural space?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 5
 - ____ D. 6
- 2. Which of the following is illustrated by 4?
 - ____ A. Lamina of L2
 - ____ B. Pedicle of L2
 - ____ C. L2 vertebral body
 - ____ D. Spinous process of L2
- 3. What number illustrates the lamina of L2?
 - ____ A. 5
 - ____ B. 2
 - ____ C. 6
 - ____ D. 4

- 4. Which of the following is illustrated by 5?
 - ____ A. Pedicle of L2
 - _____ B. Lamina of L2
 - ____ C. Spinous process of L2
 - ____ D. Epidural space
- 5. Which of the following is illustrated by 3?
 - _____ A. Spinal cord
 - _____ B. Epidural space
 - ____ C. Dural sac
 - ____ D. Subarachnoid space



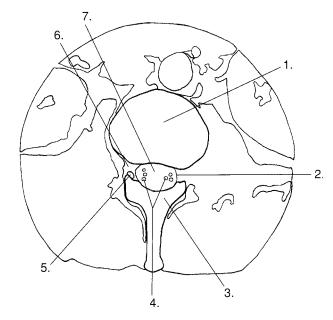


Figure 7-10

- 1. Which of the following is illustrated by 4?
 - _____ A. Posterior dorsal root ganglion
 - _____ B. Epidural space
 - ____ C. Cauda equina
 - ____ D. Conus medullaris
- 2. Which of the following is illustrated by 2?
 - ____ A. Dural sac
 - _____ B. Posterior dorsal root ganglion
 - ____ C. Subarachnoid space
 - ____ D. Cauda equina
- 3. Which of the following is illustrated by 6?
 - _____ A. Vertebral foramen
 - _____ B. Posterior (dorsal) root ganglion
 - ____ C. Cauda equina
 - _____ D. Intervertebral foramen

- 4. Which of the following is illustrated by 7?
 - ____ A. Spinal cord
 - _____ B. Subarachnoid space
 - ____ C. Posterior dorsal root ganglion
 - ____ D. Epidural space
- 5. Which of the following is illustrated by 5?
 - ____ A. Cauda equina
 - ____ B. Conus medullaris
 - ____ C. Posterior (dorsal) root ganglion
 - _____ D. Anterior nerve root



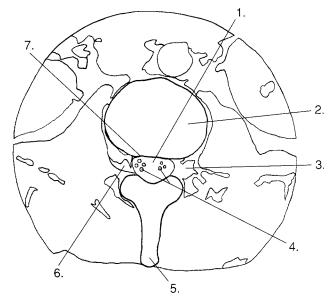


Figure 7-11

Ι.	Which	of t	he following is illustrated by 2?
		A.	Spinous process
		В.	Superior endplate
		C.	Inferior endplate
		D.	Intervertebral disk
2.	What n	um	ber illustrates the cauda equina?
		A.	4
		В.	7
		C.	6
		D.	1
3.	Which	of t	he following is illustrated by 7?
		A	Pia mater

_ B. Arachnoid mater C. Subarachnoid space
D. Dural sac

4.	Which o	of t	he following is illustrated by 3?
	A	١.	Intervertebral disk
	I	3.	Intervertebral foramen
	(Σ.	Dural sac
	I	Э.	Cauda equina
5.	What no	ım	ber illustrates the subarachnoid space?
5.	What nu		÷
5.		١.	7
5.	A	1 . 3.	7 4



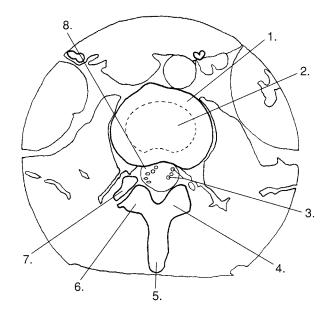


Figure 7-12

1.	. Which of the following	g is illustrated by 6?
	A. Spinous pro	
	B. Lamina of	L2
	C. Superior ar	ticular process of L3
	D. Inferior art	icular process of L2
2.	2. What number illustrat	es the anulus fibrosus?
	A. 8	
	B. 1	
	C. 4	
	D. 2	
3.	B. Which of the following	g is illustrated by 2?
	A. Nucleus pu	ılposus
	B. Anulus fibr	osus

____ C. Vertebral body of L3 ___ D. Vertebral body of L2

4.	What nun	nber illustrates the superior articular process
	of L3?	
	A.	5
	В.	4
	C.	7
	D.	6
ŏ.	Which of	the following is illustrated by 8?
	A.	Spinal cord
		Subarachnoid space
	C.	Cauda equina
		Conus medullaris



____ A. 8 _____ B. 7 ____ C. 6 ____ D. 2

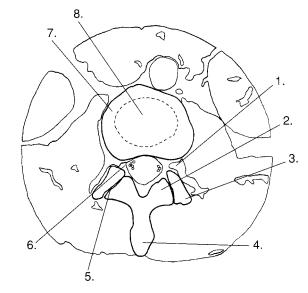
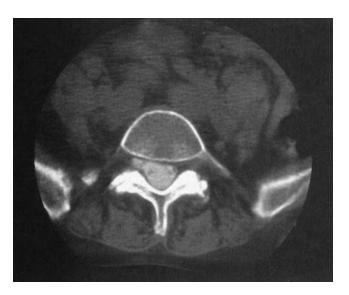


Figure 7-13

1. Which of the following is illustrated by 5?	4. Which of the following is illustrated by 6?
A. Zygapophysis	A. Dural sac
B. Inferior articular process of L2	B. Zygapophysis
C. Lamina of L2	C. Nucleus pulposus
D. Epidural space	D. Cauda equina
2. Which of the following is illustrated by 3?	5. What number illustrates the inferior articular process
A. Inferior articular process of L2	of L2?
B. Lamina of L2	A. 1
C. Superior articular process of L3	В. 3
D. Pedicle of L2	C. 6
3. What number illustrates the anulus fibrosus?	D. 2



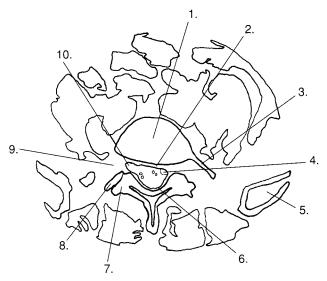


Figure 7-14

- 1. Which of the following is illustrated by 6?
 - _____ A. Spinal cord
 - ____ B. Dural sac
 - ____ C. Conus medullaris
 - ____ D. S1 nerve root
- 2. Which of the following is illustrated by 10?
 - _____ A. Intervertebral foramen
 - _____ B. Conus medullaris
 - ____ C. Cauda equina
 - ____ D. L5 nerve root
- 3. What number illustrates the epidural space?
 - ____ A. 2
 - ____ B. 7
 - ____ C. 4
 - ____ D. 9

- 4. Which of the following is illustrated by 9?
 - ____ A. L5 nerve root
 - _____ B. Posterior (dorsal) root ganglion
 - ____ C. Intervertebral foramen
 - ____ D. Dural sac
- 5. Which of the following is illustrated by 3?
 - ____ A. Transverse process of L5
 - _____ B. Lateral part of S1
 - ____ C. Lamina of S1
 - ____ D. Pedicle of S1



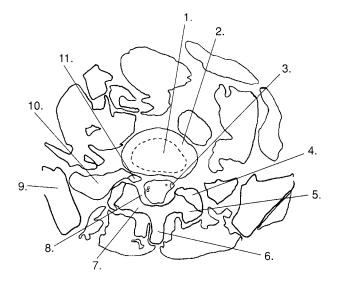


Figure 7-15

- 1. What number illustrates the lamina of L5?
 - ____ A. 8
 - ____ В. 7
 - ____ C. 10
 - ____ D. 5
- 2. Which of the following is illustrated by 3?
 - _____ A. Spinal cord
 - ____ B. Cauda equina
 - ____ C. Epidural space
 - ____ D. SÎ nerve root
- 3. What number illustrates the nucleus pulposus?
 - ____ A. 11
 - ____ B. 8
 - ____ C. 1
 - ____ D. 2

- 4. What number illustrates the lateral part of S1?
 - ____ A. 10
 - ____ B. 4
 - ____ C. 5
 - ____ D. 9
- 5. Which of the following is illustrated by 5?
 - _____ A. Superior articular process of S1
 - _____ B. Superior articular process of L5
 - ____ C. Inferior articular process of S1
 - ____ D. Inferior articular process of L5





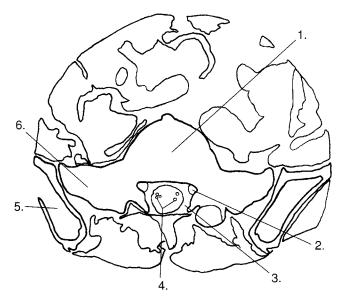
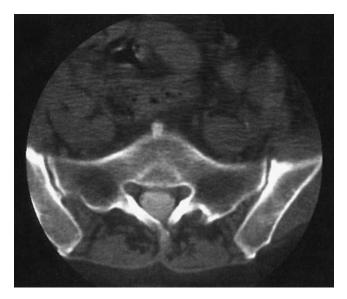


Figure 7-16

1.	Which	ot	the	tol	lowi	ing	is	il.	lus	tra	ted	by	35
			0.1										

- A. S1 nerve root
- B. Epidural space
- __ C. Subarachnoid space
- ____ D. S2-S5 nerve roots
- 2. What number illustrates the ilium?
 - ____ A. 6
 - ____ B. 1
 - ____ C. 2
 - ____ D. 5
- 3. Which of the following is illustrated by 1?
 - ____ A. Inferior endplate of L5
 - ____ B. Intervertebral disk
 - ____ C. Superior endplate of S1
 - ____ D. Zygapophysis

- 4. Which of the following is illustrated by 6?
 - ____ A. Lateral part of S1
 - _____ B. Ilium
 - ____ C. Transverse process of L5
 - ____ D. Superior endplate of S1
- 5. Which of the following is illustrated by 4?
 - ____ A. S1 nerve root
 - _____ B. S2-S5 nerve roots
 - ___ C. Dural sac
 - ____ D. Epidural space



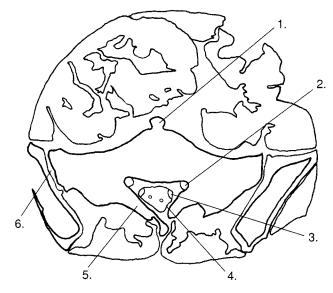


Figure 7-17

Ι.	wnat nu	ımı	per mustrates the durai sact
	A	١.	3
	I	3.	6
	(Σ.	2
	I).	4
2.	Which o	of tl	he following is illustrated by 2?
	A	١.	S1 nerve root
	I	3.	Subarachnoid space
	(Э.	Vertebral artery
	I	Э.	Epidural space
3.	Which o	of tl	he following is illustrated by 6?
	A	١.	Lamina of S1
	I	3.	Zygapophysis
			Sacroiliac joint
			L5-S1 intervertebral joint

4. What number illustrates the osteophyte?
A. 5
B. 1
C. 6
D. 2
5. Which of the following is illustrated by 3?
A. Dural sac
A. Dural sac

CLINICAL APPLICATIONS

•		In the spine, the upper and lower borders of the intervertebral foramen are formed by the
vertebrae, thoracic		A. Laminae
vertebrae, lumbar vertebrae,		B. Pedicles
		C. Articular processesD. Transverse processes
the following vertebrae? A. Cervical B. Lumbar C. Sacral	8.	The [anterior/posterior] nerve root contains a collection of nerve cell bodies known as a ganglion.
Describe the posterior longitudinal ligament.		
	9.	In axial sections, which part of the vertebral column described as having a batlike appearance?
The anterior border of the right L5-S1 intervertebral		
foramen is formed by the,, and		Which of the following have the largest vertebral foramina?
The conus medullaris is usually found at which of the		A. Cervical
		B. Thoracic
A. T1-L2		C. Lumbar
		D. Sacral
	C. Sacral D. Thoracic Describe the posterior longitudinal ligament. The anterior border of the right L5-S1 intervertebral foramen is formed by the, and The conus medullaris is usually found at which of the following vertebral levels? A. T1-L2 B. L1-L3 C. L2-L4	vertebrae,

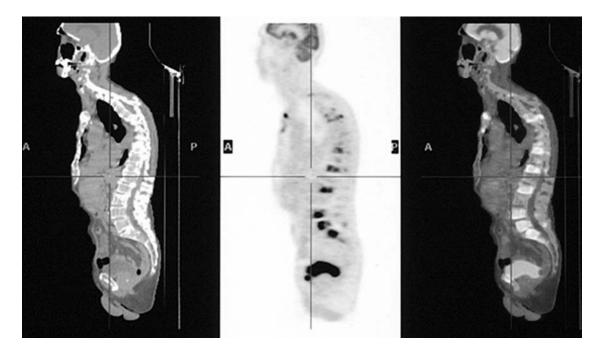
CLINICAL CORRELATIONS



1.	Which of the following best describes the image generated above? A. T1 weighted magnetic resonance (MR) B. T2 weighted MR C. Computed tomography (CT) D. Positron emission tomography (PET)/CT	 4. Which of the following would most likely be affected by this injury? A. Spinal cord B. Cauda equina C. Conus medullaris D. Vagus nerve
2.	In the image above, the injury is found at which of the following vertebral levels? A. T12-L2 B. L1-L3 C. L3-L5 D. L5-S1	5. Would the injury shown above result in a constriction of the spinal nerves?A. YesB. No
3.	Which of the following best describes the injury? A. Spondylolysis B. Spondylolisthesis C. Degenerative disk disease D. Ankylosing spondylitis	

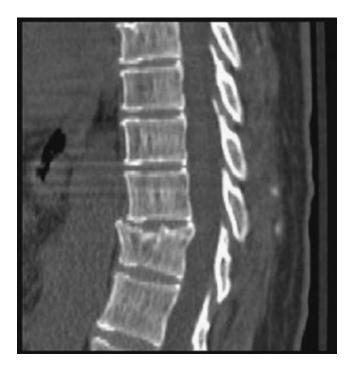


1.	Which of the following best describes the image generated above?	4. The ventral nerve roots from the spinal cord transmit which of the following fibers?
	A. T1 weighted magnetic resonance (MR) B. T2 weighted MR C. Computed tomography (CT) D. Positron emission tomography (PET)/CT	A. Motor B. Sensory C. Both of the above D. None of the above
2.	In this image, does the spinal cord have a strong or weak signal? A. Strong B. Weak	5. In this image, does the cerebrospinal fluid have a strong or weak signal?A. StrongB. Weak
3.	Typically, the spinal cord terminates at what vertebral level? A. T12-L2 B. L1-L3 C. L3-L5	
	D. L5-S1	



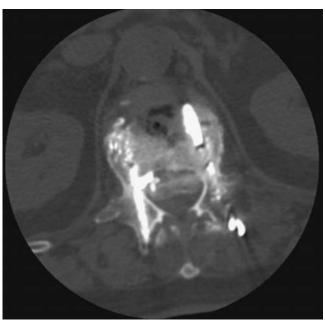
- 1. Describe the location of the metastatic disease within the spine on the CT (left), PET (middle), and corresponding fused PET/CT (right) images in this patient who was previously treated for adenocarcinoma of the colon.
- 3. Describe the consistency, shape, and border.

2.	Descri	be the	changes	in ac	ljacent	tissues.
----	--------	--------	---------	-------	---------	----------



1. Describe the location of the pathology within the lower thoracic spine (T12 is lowest vertebra shown in full).	3. Describe the consistency, shape, and border.
2. Describe the changes in adjacent tissues.	





- 1. Describe the location of the pathology within the spine in this patient who previously underwent vertebroplasty (the upper part of L3 is the lowermost vertebra shown).
- 3. Describe the consistency, shape, and border.



	Describe the location of the metastatic disease shown in this MR imaging examination following the administration of 17 and first and states of 18 and 18 an	3. Describe the consistency, shape, and border.
	tration of 15 cc of gadolinium.	
2		
2.	Describe the changes in adjacent tissues.	





1. Describe the location of the pathology shown with proton density (left) and T2 (right) weighted MR sagittal images in the spine of this 58-year-old patient reporting chronic lower back pain.

3.	Describe the	consistency,	shape,	and l	border.
----	--------------	--------------	--------	-------	---------



1.	Describe the location of the pathology shown with T1
	weighted MR sagittal images in the spine of this female
	patient previously treated for malignant breast carcinoma
	(T12 is lowest vertebra shown completely).

3 .	Describe the consistency, shape, and border.

2.	Describe	the	changes	in	adjacent	tissues.



Joints



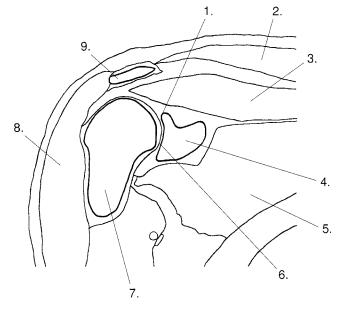


Figure 8-1

- 1. Which of the following illustrates 6?
 - ____ A. Glenohumeral joint
 - _____ B. Aeromioelavicular joint
 - ____ C. Axillary recess
 - ____ D. Inferior glenoid labrum
- 2. Which number illustrates the trapezius muscle?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 5
 - ____ D. 8
- 3. Which of the following is illustrated by 4?
 - ____ A. Superior glenoid labrum
 - _____ B. Glenohumeral joint
 - ____ C. Acromion process of scapula
 - ____ D. Glenoid process of scapula

- 4. Which of the following is illustrated by 1?
 - ____ A. Superior glenoid labrum
 - _____ B. Acromion process
 - ____ C. Axillary recess
 - _____ D. Acromioclavicular joint
- 5. Which number illustrates the supraspinatus muscle?
 - ____ A. 2
 - ____ B. 5
 - ____ C. 3
 - ____ D. 8





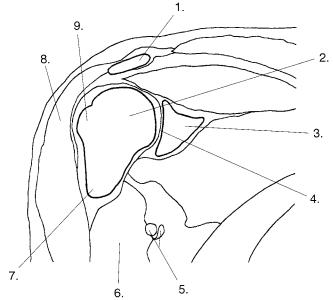
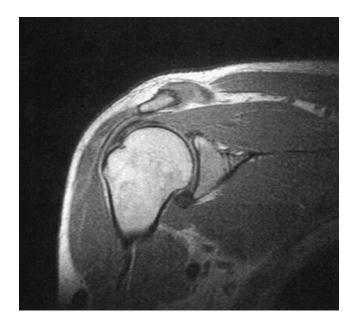


Figure 8-2

- 1. Which of the following is illustrated by 6?
 - _____ A. Subscapular muscle
 - _____ B. Teres minor muscle
 - ____ C. Deltoid muscle
 - _____ D. Teres major muscle
- 2. Which of the following is illustrated by 9?
 - _____ A. Lesser tubercle of the humerus
 - _____ B. Greater tubercle of the humerus
 - ____ C. Surgical neck
 - ____ D. Head of the humerus
- 3. Which of the following is illustrated by 1?
 - _____ A. Greater tubercle of the humerus
 - _____ B. Surgical neck of the humerus
 - ____ C. Acromion process of the scapula
 - ____ D. Head of the humerus

- 4. Which of the following is illustrated by 7?
 - _____ A. Surgical neck of the humerus
 - _____ B. Greater tubercle of the humerus
 - ____ C. Head of the humerus
 - _____ D. Acromion process of the scapula
- 5. Which of the following is illustrated by 2?
 - _____ A. Acromion process of the scapula
 - _____ B. Greater tubercle of the humerus
 - ____ C. Head of the humerus
 - _____ D. Surgical neck of the humerus



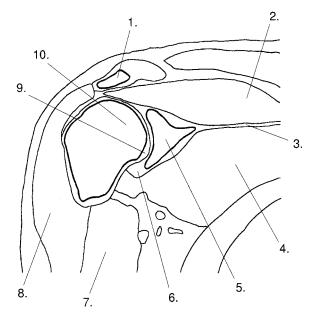
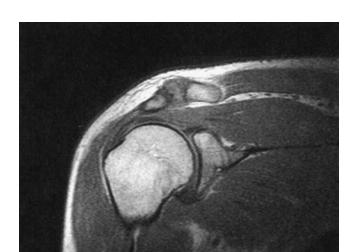


Figure 8-3

- 1. Which of the following is illustrated by 1?
 - _____ A. Glenoid process of scapula
 - ____ B. Clavicle
 - ____ C. Greater tubercle
 - _____ D. Acromion process of scapula
- 2. Which number illustrates the supraspinatus muscle?
 - ____ A. 2
 - ____ B. 8
 - ____ C. 7
 - ___ D. 4
- 3. Which of the following is illustrated by 6?
 - _____ A. Axillary recess of the articular cavity
 - _____ B. Glenoid process of the scapula
 - ____ C. Acromioclavicular joint
 - _____ D. Articular cartilage

- 4. Which number illustrates the articular cartilage?
 - ____ A. 3
 - ____ B. 10
 - ____ C. 9
 - ____ D. 6
- 5. Which of the following is illustrated by 3?
 - ____ A. Articular cartilage
 - ____ B. Glenoid labrum
 - ____ C. Glenoid process of scapula
 - ____ D. Body of scapula



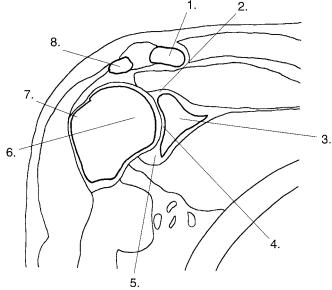


Figure 8-4

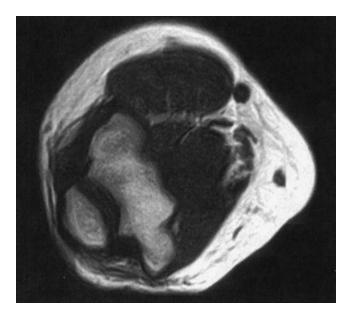
	1.	Which	of the	follow	ving is	illustrated	. by 2?
--	----	-------	--------	--------	---------	-------------	---------

- _____ A. Articular cartilage in the glenoid fossa
- _____ B. Superior glenoid labrum
- ____ C. Inferior glenoid labrum
 - ____ D. Axillary recess of articular cavity

2. Which of the following is illustrated by 1?

- _____ A. Acromion process of scapula
- _____ B. Glenoid process of scapula
- ____ C. Superior glenoid labrum
- ____ D. Clavicle
- 3. Which number illustrates the articular cartilage in the glenoid fossa?
 - ____ A. 4
 - ____ B. 3
 - ____ C. 2
 - ____ D. 5

- 4. Which number illustrates the inferior glenoid labrum?
 - ____ A. 4
 - ____ B. 3
 - ____ C. 5
 - ____ D. 2
- 5. Which of the following is illustrated by 3?
 - ____ A. Superior glenoid labrum
 - _____ B. Inferior glenoid labrum
 - ____ C. Glenoid process of the scapula
 - _____ D. Acromion process of the scapula



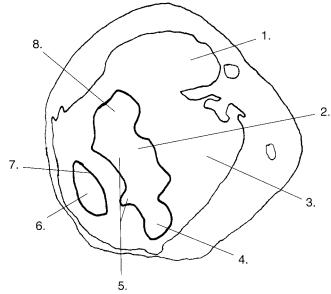


Figure 8-5

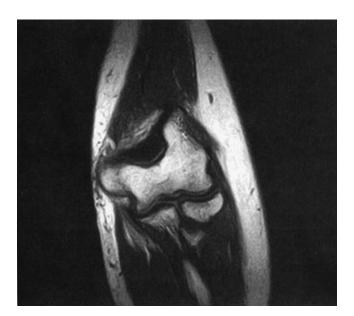
1. \	Nhich	illustrates	the	trochlear	notch?
------	-------	-------------	-----	-----------	--------

- ____ A. 4
- ____ B. 7
- ____ C. 6
- ___ D. 5

2. Which of the following is illustrated by 2?

- ____ A. Radius
- _____ B. Ulna
- ____ C. Trochlea
- ____ D. Humerus
- 3. Which number illustrates the olecranon process of the ulna?
 - ____ A. 7
 - ____ B. 2
 - ____ C. 6
 - ____ D. 5

- 4. Which of the following is illustrated by 4?
 - ____ A. Medial epicondyle
 - _____ B. Capitulum
 - ____ C. Trochlea
 - ____ D. Lateral epicondyle
- 5. Which of the following is illustrated by 1?
 - _____ A. Biceps muscle
 - _____ B. Triceps muscle
 - ____ C. Brachialis muscle
 - _____ D. Brachioradialis muscle



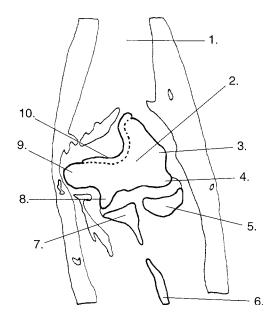


Figure 8-6

1.	Which	of the	following	is il	lustrated	by 8	3:)
----	-------	--------	-----------	-------	-----------	------	----	---

- ____ A. Coronoid process of ulna
- ____ B. Medial epicondyle
- ____ C. Trochlea
- ____ D. Capitulum

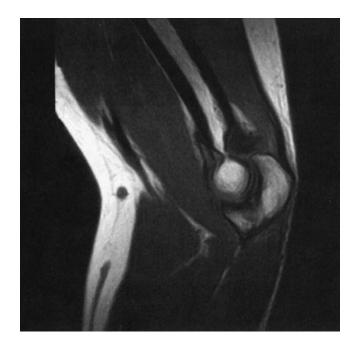
2.	Which	number	illustrates	the c	apitulum?

- ____ A. 4
- ____ B. 2
- ____ C. 5
- ____ D. 3

3. Which of the following is illustrated by 10?

- ____ A. Capitulum
- _____ B. Lateral epicondyle
- ____ C. Trochlea
- ____ D. Olecranon fossa

- 4. Which number illustrates the lateral epicondyle?
 - ____ A. 7
 - ____ B. 3
 - ____ C. 5
 - ____ D. 9
- 5. Which number illustrates the coronoid process of the ulna?
 - ____ A. 5
 - ____ B. 6
 - ____ C. 9
 - ____ D. 7



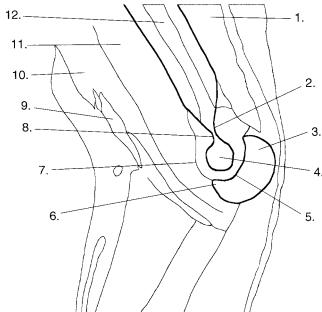
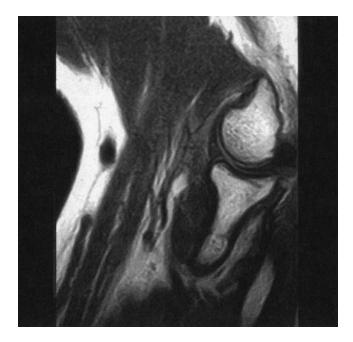


Figure 8-7

- 1. Which number illustrates the olecranon fossa?
 - ____ A. 8
 - ____ В. 5
 - ____ C. 7
 - ____ D. 2
- 2. Which of the following is illustrated by 5?
 - _____ A. Olecranon process of ulna
 - _____ B. Articular capsule
 - ____ C. Trochlear notch
 - ____ D. Coronoid process of ulna
- 3. Which number illustrates the triceps muscle?
 - ____ A. 1
 - ____ B. 12
 - ____ C. 11
 - ____ D. 10

- 4. Which of the following is illustrated by 9?
 - ____ A. Brachialis muscle
 - _____ B. Brachial artery
 - ____ C. Biceps muscle
 - ____ D. Axillary artery
- 5. Which of the following is illustrated by 7?
 - ____ A. Capitulum
 - ____ B. Coronoid fossa
 - ____ C. Articular capsule
 - ____ D. Trochlear notch



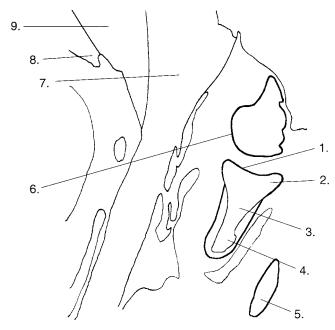
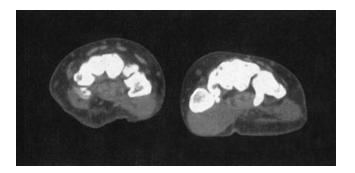


Figure 8-8

- 1. Which of the following is illustrated by 3?
 - ____ A. Fovea of the radius
 - _____ B. Neck of radius
 - ____ C. Radial tuberosity
 - ____ D. Head of radius
- 2. Which number illustrates the biceps muscle?
 - ____ A. 8
 - ____ B. 6
 - ____ C. 9
 - ____ D. 7
- 3. Which of the following is illustrated by 7?
 - _____ A. Biceps muscle
 - _____ B. Deltoid muscle
 - ____ C. Brachialis muscle
 - ____ D. Brachioradialis muscle

- 4. Which number illustrates the fovea of the radius?
 - ____ A. 2
 - ____ В. 5
 - ____ C. 1
 - ____ D. 6
- 5. Which number illustrates the capitulum?
 - ____ A. 6
 - ____ B. 2
 - ____ C. 1
 - ____ D. 5



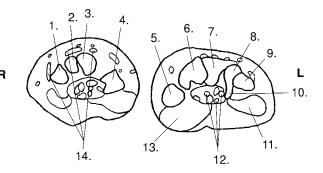


Figure 8-9

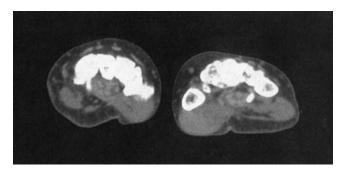
- 1. Which of the following is illustrated by 9?
 - ____ A. Trapezoid
 - _____ B. Triquetrum
 - ____ C. Trapezium
 - ____ D. Hamate
- 2. Which number illustrates the trapezoid?
 - ____ A. 4
 - ____ B. 2
 - ____ C. 7
 - ____ D. 3
- 3. Which of the following is illustrated by 6?
 - _____ A. Trapezium
 - _____ B. Hamate
 - ____ C. Trapezoid
 - ____ D. Capitate

- 4. Which number illustrates the abductor digiti minimi muscle?
 - ____ A. 11

 - B. 13 C. 12
 - ____ D. 14
- 5. Which number illustrates the flexor digitorum superficialis and profundus tendons?
 - ____ A. 14
 - ____ B. 13
 - ____ C. 11
 - ____ D. 12



____ D. 2



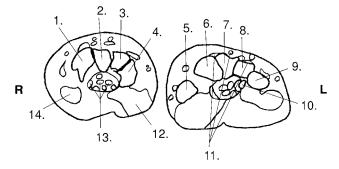


Figure 8-10

1. Which number illustrates the capitate?	4. Which of the following is illustrated by 11?
A. 8	A. Extensor tendons
B. 6	B. Flexor digitorum superficialis and profundus
C. 3	tendons
D. 7	C. Abductor digiti minimi muscle
2. Which of the following is illustrated by 10? A. Triquetrum	 D. Abductor pollicis brevis and opponens pollicis muscles
B. Hamulus of hamate	5. Which of the following is illustrated by 13?
C. Pisiform	A. Extensor tendons
D. Scaphoid	B. Flexor digitorum superficialis and profundus
3. Which number illustrates the right hamate? A. 3 B. 1 C. 4	tendons C. Abductor digiti minimi muscle D. Abductor pollicis brevis and opponens pollicis muscles



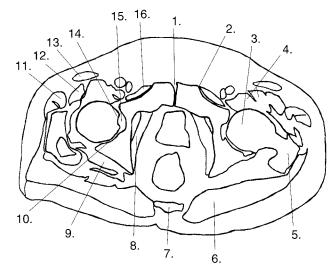
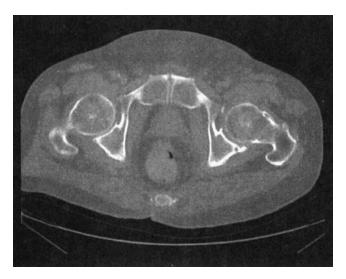


Figure 8-11

- 1. Which number illustrates the sartorius muscle?
 - ____ A. 14
 - ____ B. 13
 - ____ C. 12 ____ D. 11
- 2. Which of the following is illustrated by 14?
 - ____ A. Acetabular fossa
 - _____ B. Lunate surface of acetabulum
 - ____ C. Fovea capitis femoris
 - ____ D. Pubic symphysis
- 3. Which number illustrates the tensor fascia latae muscle?
 - ____ A. 11
 - ____ B. 14
 - ____ C. 12
 - ____ D. 13

- 4. Which of the following is illustrated by 1?
 - ____ A. Pubic symphysis
 - _____ B. Acetabular fossa
 - ____ C. Obturator foramen
 - _____ D. Sacroiliac joint
- 5. Which number illustrates the superior gemellus muscle?
 - ____ A. 9
 - ____ B. 8
 - ____ C. 6
 - ____ D. 4



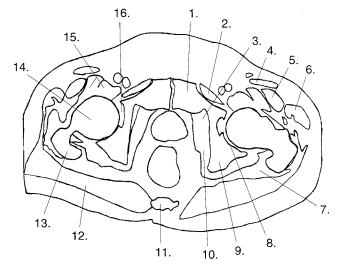
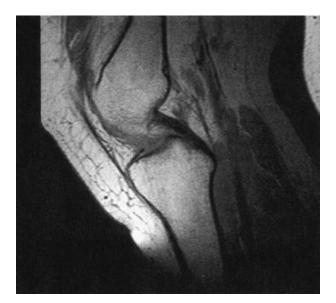


Figure 8-12

- 1. Which of the following is illustrated by 3?
 - _____ A. Lunate surface of acetabulum
 - _____ B. Obturator foramen
 - ____ C. Pubic symphysis
 - ____ D. Acetabular fossa
- 2. Which of the following is illustrated by 16?
 - ____ A. Obturator foramen
 - _____ B. Lunate surface of acetabulum
 - ____ C. Fovea capitis femoris
 - ____ D. Acetabular fossa
- 3. Which number illustrates the iliopsoas muscle?
 - ____ A. 5
 - ____ B. 10
 - ____ C. 7
 - ____ D. 15

- 4. Which number illustrates the obturator internus muscle?
 - ____ A. 10
 - ____ B. 15
 - ____ C. 7
 - ____ D. 2
- 5. Which illustrates the pectineus muscle?
 - ____ A. 10
 - ____ B. 15
 - ____ C. 7
 - ____ D. 2



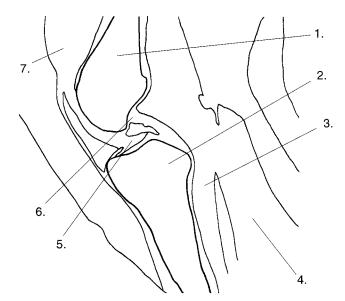


Figure 8-13

1.	Which	of the	following is	s illustrated	by 6?

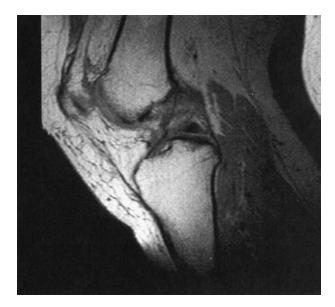
- _____ A. Posterior cruciate ligament
- _____ B. Popliteus muscle
- C. Anterior cruciate ligament
 D. Tibia

2. Which of the following is illustrated by 2?

- ____ A. Femur
- ____ B. Fibula
- ____ C. Patella
- ____ D. Tibia
- 3. Which number illustrates the popliteus muscle?
 - ____ A. 4
 - ____ B. 7
 - ____ C. 5
 - ____ D. 3

- 4. Which of the following is illustrated by 5?
 - _____ A. Medial collateral ligament
 - _____ B. Anterior cruciate ligament
 - ____ C. Posterior cruciate ligament
 - ____ D. Popliteus muscle
- 5. Which number illustrates the quadriceps muscle?
 - ____ A. 7
 - ____ B. 4
 - ____ C. 6
 - ____ D. 3





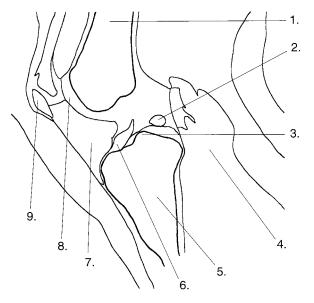
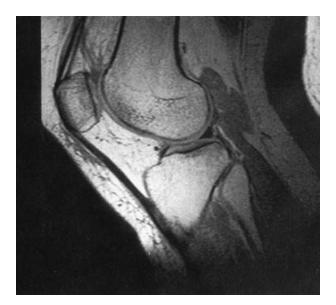


Figure 8-14

1.	Which o	of t	he following is illustrated by 9?
	A	١.	Articular cartilage
	I	3.	Infrapatellar fat pad
	(Σ.	Anterior cruciate ligament
	I	Э.	Medial patella

- 2. Which of the following is illustrated by 3?
 - _____ A. Posterior cruciate ligament
 - _____ B. Intercondylar eminence
 - _____ C. Anterior cruciate ligament
 - D. Lateral head of gastrocnemius muscle
- 3. Which number illustrates the anterior cruciate ligament?
 - ____ A. 6
 - ____ B. 8
 - ___ C. 3
 - ___ D. 2

- 4. Which of the following is illustrated by 7?
 - ____ A. Patellar tendon
 - _____ B. Patella
 - ____ C. Infrapatellar fat pad
 - D. Quadriceps tendon
- 5. Which number illustrates the articular cartilage?
 - ____ A. 8
 - ____ B. 3
 - ____ C. 2
 - ____ D. 6



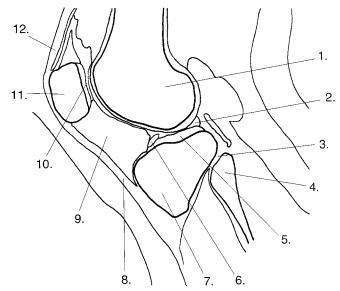


Figure 8-15

1.	Which	nur	mber illustrates the posterior horn of the
	lateral 1	mei	niscus?
		A.	5
		В.	2
		C.	7
		D.	6
2.	Which	nur	mber illustrates the femoropatellar joint?
			- ·
		В.	3
		C.	9
		D.	10
3.	Which	of t	he following is illustrated by 5?
		A.	Head of fibula
		В.	Anterior horn of lateral meniscus

____ C. Posterior horn of lateral meniscus

_____ D. Articular cartilage

4. Which number illustrates the patella?
A. 11
B. 8
C. 9
D. 1
5. Which of the following is illustrated by 6?
A. Anterior horn of medial meniscus
B. Anterior cruciate ligament
C. Posterior cruciate ligament
D. Anterior horn of lateral meniscus



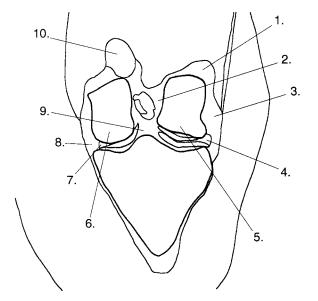


Figure 8-16

Ι.	Which of t	the following is illustrated by 4.5
	A.	Posterior cruciate ligament
	В.	Lateral collateral ligament
	C.	Lateral meniscus
	D.	Articular cartilage

- 2. Which number illustrates the posterior cruciate ligament?A. 6
 - ____ A. 6
 - ____ C. 5
 - ____ D. 9
- 3. Which number illustrates the medial meniscus?
 - ____ A. 7
 - ____ В. 9
 - ____ C. 8
 - ____ D. 4

- 4. Which of the following is illustrated by 1?
 - _____ A. Lateral head of gastrocnemius muscle
 - _____ B. Popliteal tendon
 - ____ C. Quadriceps muscle
 - D. Medial head of gastrocnemius muscle
- 5. Which of the following is illustrated by 2?
 - ____ A. Lateral collateral ligament
 - _____ B. Anterior cruciate ligament
 - ____ C. Medial meniscus
 - _____ D. Posterior cruciate ligament



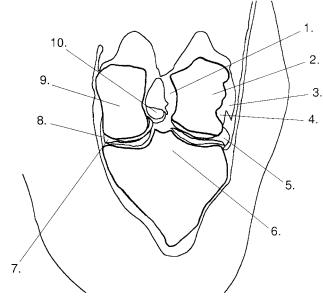


Figure 8-17

1. Which of the following is illustrated by 4	į5
---	----

- _____ A. Lateral collateral ligament
- ___ B. Lateral meniscus
- ____ C. Lateral epicondyle
- ____ D. Popliteal tendon

2. Which number illustrates the medial meniscus?

- ____ A. 7
- ____ B. 5
- ____ C. 8
- ____ D. 10

3. Which of the following is illustrated by 10?

- ____ A. Lateral meniscus
- _____ B. Posterior cruciate ligament
- ____ C. Medial meniscus
- _____ D. Anterior cruciate ligament

- 4. Which number illustrates the tibial intercondylar eminence?
 - ____ A. 6
 - ____ B. 10
 - ____ C. 8 ____ D. 5
- 5. Which of the following is illustrated by 2?
 - _____ A. Lateral femoral epicondyle
 - _____ B. Lateral femoral condyle
 - ____ C. Head of fibula
 - ____ D. Proximal tibia



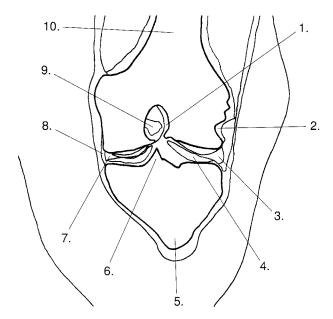
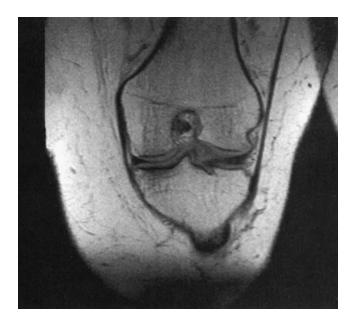


Figure 8-18

- 1. Which number illustrates the medial collateral ligament? ____ A. 8 ____ B. 7 ____ C. 4 ____ D. 9
- 2. Which of the following is illustrated by 6?
 - _____ A. Articular surface of tibia
 - _____ B. Intercondylar eminence
 - ____ C. Medial meniscus
 - _____ D. Lateral meniscus
- 3. Which of the following is illustrated by 9?
 - _____ A. Anterior cruciate ligament
 - _____ B. Intercondylar eminence
 - ____ C. Posterior cruciate ligament
 - _____ D. Medial collateral ligament

- 4. Which number illustrates the popliteal tendon?
 - ____ A. 1
 - ____ B. 9
 - ____ C. 3 ___ D. 2
- 5. Which of the following is illustrated by 4?
 - _____ A. Articular surface of tibia
 - _____ B. Intercondylar eminence
 - ____ C. Medial meniscus
 - _____ D. Lateral meniscus



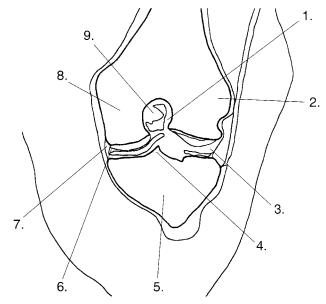


Figure 8-19

____ D. 9

1. Which number illustrates the posterior cruciate ligament? ____ A. 1 ____ В. 9 ____ C. 4 ____ D. 3 2. Which of the following is illustrated by 7? ____ A. Medial meniscus _____ B. Intercondylar eminence ____ C. Medial collateral ligament ____ D. Lateral meniscus 3. Which number illustrates the anterior cruciate ligament? ____ A. 1

____ B. 8 ____ C. 2 ____ D. 9 4. Which of the following is illustrated by 3? _____ A. Articular surface of medial condyle _____ B. Articular surface of tibia ____ C. Anterior cruciate ligament ____ D. Lateral meniscus 5. Which number illustrates the medial meniscus? ____ A. 6 ____ B. 7 ____ C. 3





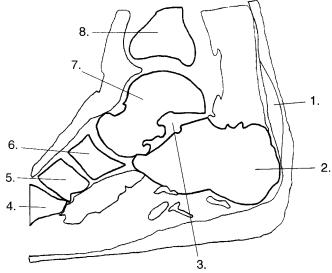


Figure 8-20

1.	Which of t	the following is illustrated by 4?
	A.	First cuneiform
	В.	Navicular
	C.	First metatarsal
	D.	First digit
2.	Which nu	mber illustrates the tibia?
	A.	1
	В.	8
	C.	3
	D.	7
3.	Which of t	he following is illustrated by 7?
	A.	Navicular bone
	В.	Calcaneus
	С.	Tibia
	D.	Talus

4.	Which nu	umber illustrates the tendinous insertion of
	gastrocne	emius muscles?
	A	. 1
	B	. 3
	C	. 6
	D	. 2
5.	Which of	the following is illustrated by 5?
	A	. First cuneiform
	В	. Talus
	C	. Navicular
	D	. First metatarsal



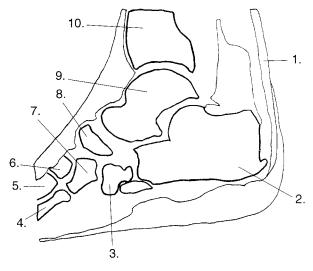
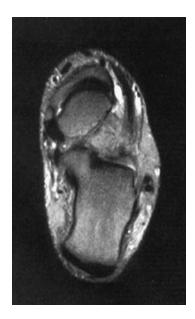


Figure 8-21

Ι.	Which	ot	the following is illustrated by 6:	ر.
		A.	Third metatarsal	

- __ B. Second metatarsal
- ____ C. Third cuneiform
- ____ D. Second cuneiform
- 2. Which number illustrates the talus?
 - ____ A. 7
 - ____ В. 9
 - ____ C. 8
 - ____ D. 2
- 3. Which number illustrates the third cuneiform?
 - ____ A. 6
 - ____ B. 4
 - ____ C. 7
 - ____ D. 5

- 4. Which of the following is illustrated by 2?
 - ____ A. Calcaneus
 - _____ B. Talus
 - ____ C. Tibia
 - _____ D. Tendo calcaneus tendon
- 5. Which of the following is illustrated by 8?
 - ____ A. Cuboid
 - _____ B. Navicular
 - ____ C. Talus
 - ____ D. Second cuneiform



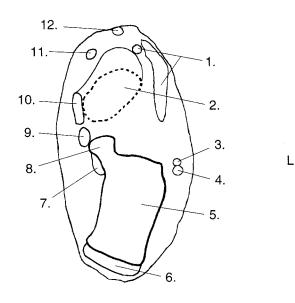


Figure 8-22

Μ

1. Which number illustrates the tibialis ante	erior tendon?
---	---------------

- _ A. 1
- __ B. 11
- ___ C. 9
- ___ D. 12

2. Which of the following is illustrated by 8?

- ____ A. Cuboid
 - __ B. Talus
- ___ C. Navicular
- ____ D. Sustentaculum tali

3. Which of the following is illustrated by 3?

- ____ A. Peroneus longus tendon
- _____ B. Flexor hallucis longus tendon
- ____ C. Flexor digitorum longus tendon
- ____ D. Peroneus brevis tendon

- 4. Which number illustrates the extensor digitorum tendon?
 - ____ A. 1
 - ____ B. 11
 - ____ C. 4
 - ____ D. 10

5. Which number illustrates the extensor hallucis longus tendon?

- ____ A. 11
- ____ B. 1
- ____ C. 12
- ____ D. 10

L



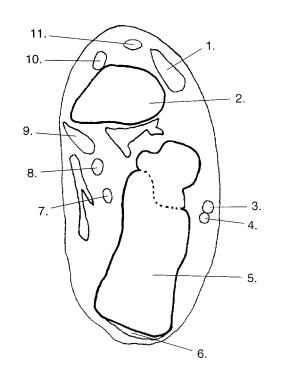


Figure 8-23

Μ

 Which number illustrates the tibialis posterior tendor
--

- ____ A. 10
- ____ В. 3
- ____ C. 9 ____ D. 7

2. Which of the following is illustrated by 10?

- _____ A. Extensor hallucis longus tendon
- _____ B. Tibialis anterior tendon
- ____ C. Extensor digitorum tendon
- _____ D. Tibialis posterior tendon

3. Which number illustrates the peroneus brevis tendon?

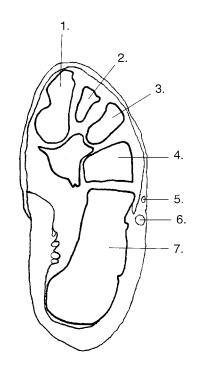
- ____ A. 3
- ____ B. 7
- ____ C. 4 ____ D. 8

- 4. Which of the following is illustrated by 5?
 - ____ A. Cuboid
 - _____ B. Talus
 - ____ C. Sustentaculum tali
 - ____ D. Calcaneus

5. Which number illustrates the talus?

- ____ A. 2
- ____ B. 5
- ____ C. 1
- ____ D. 9





L

Figure 8-24

Μ

- 1. Which of the following is illustrated by 4?
 - ____ A. Cuboid
 - _____ B. Third cuneiform
 - ____ C. Second cuneiform
 - ____ D. Navicular
- 2. Which number illustrates the third cuneiform?
 - ____ A. 2
 - ____ B. 7
 - ____ C. 4
 - ____ D. 8
- 3. Which number illustrates the second cuneiform?
 - ____ A. 3
 - ____ B. 2
 - ____ C. 4
 - ____ D. 1

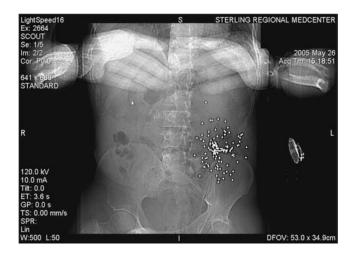
- 4. Which of the following is illustrated by 5?
 - ____ A. Peroneus longus tendon
 - _____ B. Extensor digitorum tendon
 - ____ C. Peroneus brevis tendon
 - D. Extensor hallucis longus tendon
- 5. Which of the following is illustrated by 1?
 - ____ A. Second cuneiform
 - ____ B. Third cuneiform
 - ____ C. First cuneiform
 - ____ D. Cuboid

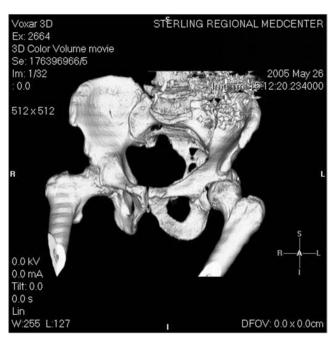
CLINICAL APPLICATIONS

1.	The ankle joint is formed between the	7. The trochlea of the humerus articulates with the A. Glenoid fossa B. Clavicle C. Radius D. Ulna
2.	The ankle joint is classified as what type of joint? A. Ginglymus B. Arthrodial C. Enarthrosis D. Syndesmosis	 8. On an axial image of the ankle, which tendon is not found on the medial surface of the leg? A. Peroneus longus B. Tibialis posterior C. Flexor hallucis longus D. Flexor digitorum longus
3.	The hip joint is classified as what type of joint? A. Ginglymus B. Arthrodial C. Enarthrosis D. Syndesmosis	 9. Approximately 75% of carpal fractures are found within the 10. The hamulus is found on which carpal bone? A. Scaphoid
4.	The joint is considered the largest joint in the body.	B. Hamate C. Capitate
5.	Which of the following articulates with the base of the third metatarsal? A. Cuboid B. Navicular C. Second cuneiform D. Third cuneiform	D. Lunate
6.	Describe the attachments of the lateral collateral ligament.	

CLINICAL CORRELATIONS

■ Clinical Case 8-1





1.	Which of the following is the correct classification for
	the hip joint?
	A. Enarthrosis
	B. Arthrodial
	C. Syndesmosis
	D. Ginglymus
2.	Which of the following bones form the acetabulum?
	A. Pubis
	B. Ischium
	C. Ilium
	D. All of the above
3.	Which of the following best describes the location of
	the tensor fascia latae muscle as compared to the hip
	joint?
	A. Medial

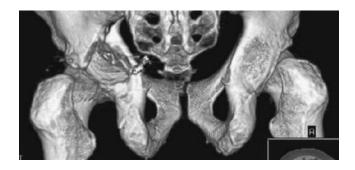
__ B. Lateral ___ C. Anterior ____ D. Posterior

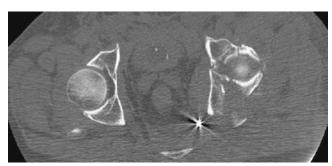
4.	What muscle originates from the ischial spine and
	inserts on the tendon of the obturator internus muscle
	rotating the thigh laterally?
	A. Sartorius
	B. Rectus femoris
	C. Superior gemellus
	D. Pectineus
5.	What muscle originates from the pubis to insert on the
	femur and also acts to rotate the thigh laterally?
	A. Sartorius
	B. Rectus femoris
	C. Superior gemellus
	D. Pectineus

____ B. Posterior



1.	Which of the following best describes the condition shown above? A. Osteopetrosis B. Osteoporosis C. Osteosarcoma D. Chondrosarcoma	 4. The bone that articulates with the three cuneiform bones is which of the following? A. Talus B. Cuboid C. Navicular D. Calcaneus
2.	The large bone forming the heel of the foot is which of the following? A. Talus B. Cuboid C. Navicular D. Calcaneus	 5. The bone forming the lower end of the ankle joint is which of the following? A. Talus B. Cuboid C. Navicular D. Calcaneus
3.	The flexor tendons extend into the foot anterior or posterior to the ankle joint? A. Anterior	

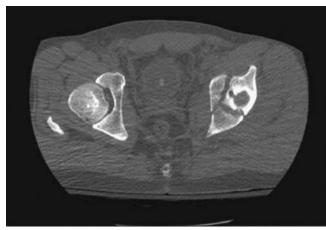




1. Describe the location of the motor vehicle accident (MVA) injury shown in the selected posterior view three-dimensional (3D) and axial computed tomography (CT) images.

3. Describe the consistency, shape, and border.





- 1. Describe the location of the injury in this 26-year-old male patient as shown in the reconstructed anterior view 3D (left) and axial CT (right) images.
- 3. Describe the consistency, shape, and border.





1. Describe the location of the mass discovered in axial (left) and coronal (right) magnetic resonance (MR) images obtained from a 26-year-old man who sustained a knee injury while snowboarding.

3. Describe the consistency, shape, and border.

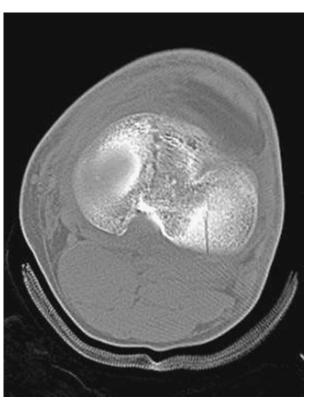




- 1. Describe the location of the metastatic disease in selected coronal (left) and sagittal (right) MR images of this 23-year-old man previously diagnosed with testicular carcinoma.
- 3. Describe the consistency, shape, and border.

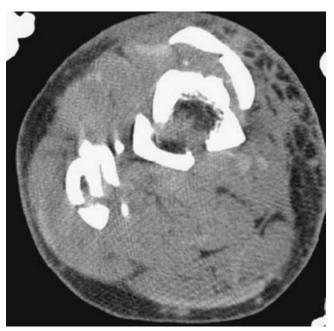
Describe the changes in adjacent tis	ssues.
--	--------





- 1. Describe the location of the injury in this 28-year-old man shown in the coronal (left) and axial (right) CT images of his right knee. The man presented to the emergency department following MVA.
- $3.\,$ Describe the consistency, shape, and border.





- $1. \ \, \text{Describe the location of the injury as shown in the sagittal (left) and axial (right) CT images.}$
- 3. Describe the consistency, shape, and border.