

Body Cavities and Serous Membranes

Body Cavities

Dorsal Cavity

Cranial cavity

Spinal cavity

Ventral Cavity

Thoracic cavity

Right and left pleural cavity

Pericardial cavity

Mediastinum

Abdominal cavity

Pelvic cavity

Sectioning the Body

Sagittal section

Midsagittal

Parasagittal

Frontal (coronal)

Transverse

Serous Membranes

Outer coverings:

Parietal pleura

Parietal pericardium

Parietal peritoneum

Inner coverings:

Visceral pleura

Visceral pericardium

Visceral peritoneum

Mesenteries:

Mesentery proper

Mesocolon

Greater omentum

Retroperitoneal Organs

Pancreas

Duodenum

Ascending colon

Descending colon

Adrenal glands

Kidneys

Ureters

Urinary bladder

Internal reproductive structures

Rectum

The Endocrine System

The Endocrine Glands

Hypothalamus

Pituitary gland

Anterior lobe (adenohypophysis)

Posterior lobe (neurohypophysis)

Pineal gland

Thyroid gland

Parathyroid glands

Thymus gland

Adrenal glands

Adrenal cortex

Adrenal medulla

Pancreas

Ovaries

Testes

The Cardiovascular System

Blood Flow Through the Heart

The Pulmonary Circuit

Deoxygenated blood is returned to the heart from veins of the body.

Superior vena cava, inferior vena cava

→ Right atrium

→ Tricuspid valve

→ Right ventricle

→ Pulmonary semilunar valve

→ Pulmonary trunk to pulmonary arteries: carries blood to the lungs for oxygenation

The Systemic Circuit

Oxygenated blood is returned to the heart from the lungs by pulmonary veins

Pulmonary veins (right and left)

→ Left atrium

→ Bicuspid (mitral) valve

→ Left ventricle

→ Aortic semilunar valve

→ Ascending aorta: carries oxygenated blood throughout body via arterial system

External Structures of the Heart

Coverings, Linings, and Layers

Pericardium

Pericardial cavity

Epicardium (visceral pericardium)

Myocardium

Endocardium

Chambers

Right and Left Atria (atrium singular)

Auricles

Right and Left Ventricles

External Landmarks

Coronary sulcus

Anterior interventricular sulcus

Posterior interventricular sulcus

Apex

Base

Major Blood Vessels into and Out of the Heart

Superior and inferior vena cava

Pulmonary veins

Pulmonary trunk

Pulmonary arteries

Ascending aorta

Aortic arch

Ligamentum arteriosum

Coronary Vessels (Blood supply to the Heart Itself)

Right coronary artery

 Marginal artery

 Posterior interventricular artery

Left coronary artery

 Anterior interventricular artery

 Circumflex artery

Coronary sinus

 Middle cardiac vein

 Great cardiac vein

Internal Structures of the Heart

Right and Left Atria

Pectinate muscle

Interatrial septum

Fossa ovalis

Opening of coronary sinus

Right and Left Ventricle

Tricuspid valve (top of right ventricle)

Bicuspid (mitral) valve (top of left ventricle)

Chordae tendinae

Papillary muscle

Interventricular septum

Trabeculae carneae

Pulmonary Trunk (take off from right ventricle)

Pulmonary semilunar valve

Aorta (take off from left ventricle)

Aortic semilunar valve

Openings of right and left coronary arteries

Authorhythmic Elements (Intrinsic Conduction System)

Sinoatrial (SA) node

Atrioventricular (AV) node

Atrioventricular (AV) bundle (Bundle of His)

Right and left bundle branches

Purkinje fibers

The Vascular System

The Pulmonary System

Pulmonary trunk

Pulmonary arteries

Lobar arteries

Pulmonary veins

The Systemic Arterial System

Vessels of the Torso

Ascending aorta

Aortic arch

Brachiocephalic trunk

Right subclavian

Right common carotid

Left common carotid

Left subclavian

Thoracic aorta

Intercostals

Abdominal aorta

Celiac trunk

Left gastric

Splenic

Hepatic

Superior mesenteric

Renal

Ovarian/testicular (gonadal)

Inferior mesenteric

Right/left common iliac

Right/left internal iliac

Right/left external iliac

Lower Limb

Femoral

Deep femoral

Popliteal

Posterior tibial

Anterior tibial

Dorsalis pedis

Upper Limb

Axillary

Brachial

Ulnar

Radial

Superficial palmar arch

Digital

Deep palmar arch

Neck, Head, and Brain

Right/left external carotid

Facial

Superficial temporal

Right/left vertebral

Basilar

Right/left internal carotid

Middle cerebral

Anterior cerebral

Anterior communicating

Posterior communicating

Posterior cerebral

Circle of Willis

The Venous System

Torso

Superior vena cava

Right/Left brachiocephalic

Right/left internal jugular

Right/left subclavian

Right/left internal jugular

Azygos

Intercostals

Hemiazygos

Intercostals

Inferior vena cava

Renal veins

Left ovarian/testicular (gonadal)

Right ovarian/testicular

Right/left common iliac

Right/left internal iliac

Right/left external iliac

Lower Limb

Femoral

Great saphenous

Popliteal

Posterior tibial

Anterior tibial

Upper Limb

Axillary

Basilic

Brachial

Ulnar

Radial

Cephalic

Median cubital

Neck, Head, and Brain

Subclavian veins

Internal jugular

Facial

Sigmoid sinus

Transverse sinus

Junction of sinuses

Straight sinus

Inferior sagittal sinus

Superior sagittal sinus

External jugular

The Hepatic Portal System

Hepatic veins

Hepatic portal vein

Superior mesenteric vein

Splenic vein

Inferior mesenteric vein

Fetal Circulation

Placenta

Umbilical cord

Umbilicus

Umbilical vein

Ductus venosus

Inferior vena cava

Foramen ovale

Ductus arteriosus

Aortic arch

Pulmonary trunk

Umbilical arteries

Internal iliac arteries