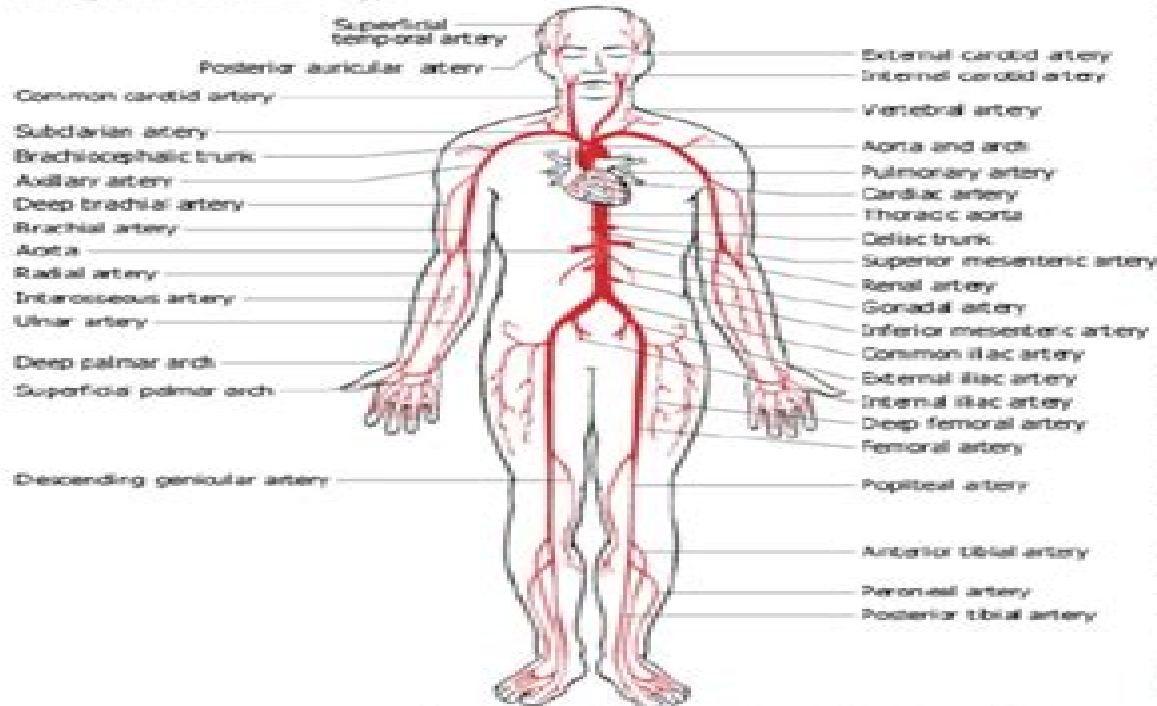


To make learning the arteries easier, be aware that in many cases the name of the artery tells you the body region or organs served (renal artery, brachial artery, and coronary artery) or the bone followed (femoral artery and ulnar artery).



The aorta curves upward from the **left ventricle** of the heart as the **ascending aorta**, arches to the left as the **aortic arch**, then drops downward following the spine as the **thoracic aorta** to finally pass through the diaphragm to become the **abdominal aorta**. The branches of the parts of the aorta are listed below in their sequence from the heart and the organs served.

#### Branches of the Ascending Aorta:

**R. coronary artery** - heart

**L. coronary artery** - heart

#### Branches of the Aortic Arch:

**Brachiocephalic artery**

**R. common carotid artery** - head & neck

**R. subclavian artery** - brain

**L. common carotid artery**

**L. internal carotid** - brain

**L. external carotid** - head & neck

**L. subclavian artery**

**vertebral artery** - brain

The subclavian artery becomes the **axillary artery**, then continues into the arm as the **brachial artery** which supplies the arm. At the elbow, the brachial artery splits

**Radial artery** - forearm

**Ulnar artery** - forearm

#### Branches of the Thoracic Aorta:

- **Intercostal arteries** - 10 pairs supply the muscles of the thorax wall
- **Bronchial arteries** - lungs
- **Esophageal arteries** - esophagus
- **Phrenic arteries** - diaphragm

#### Branches of the Abdominal Aorta:

- **Celiac Trunk**
  - **Left gastric artery** - stomach
  - **Splenic artery** - spleen
  - **Common hepatic artery** - liver
- **Superior mesenteric artery** - small intestine
- **R. and L. Renal arteries** - kidneys
- **R. and L. Gonadal arteries** - called **ovarian arteries** in females (serving the ovaries) and **testicular arteries** in males (serving the testes).
- **Lumbar arteries** - several pairs serving the heavy muscles of the abdomen and trunk walls.
- **Inferior mesenteric artery** - lower large intestine
- **R. and L. Common iliac arteries** - the final branches of the abdominal aorta. Each divides into:
  - **Internal iliac artery** - pelvic organs
  - **External iliac artery** - enters the thigh where it becomes the **femoral artery**. The femoral artery and its branch, the **deep femoral artery**, serve the thigh. At the knee, the femoral artery becomes the **popliteal artery**, which then splits into:
    - **Anterior and posterior tibial arteries**, which supply the leg and foot. The anterior tibial artery terminates in the **dorsalis pedis artery**, which supplies the dorsum of the foot.

# Blood Vessels Study Guide

**Kenneth G. Neal**



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