

Hydrogen atoms

Oxygen atom

Atoms bond to form molecules with three-dimensional structures.

Water molecule

A variety of molecules combine to form the fluid and organelles of a body cell.

Smooth muscle cell

Organelle

Cell fluid

Organelle

Smooth muscle tissue

A community of similar cells form a body tissue.

Bladder

Two or more different tissues combine to form an organ.

Smooth muscle

Skeletal muscle

Urinary tract system

Kidney

Ureter

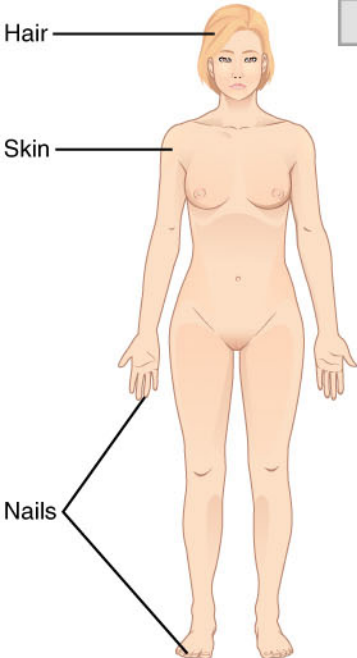
Bladder

Urethra

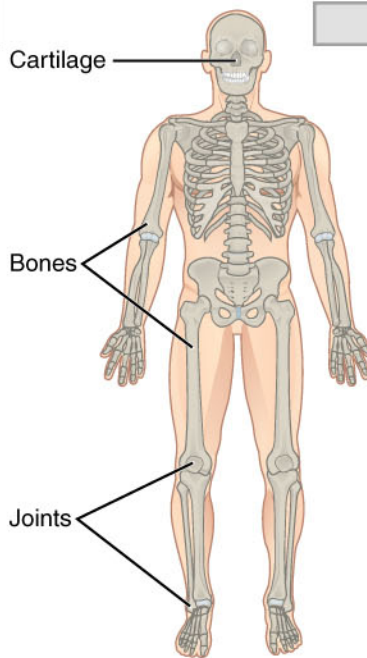
Two or more organs work closely together to perform the functions of a body system.

Many organ system work harmoniously together to perform the functions of an independent organism.

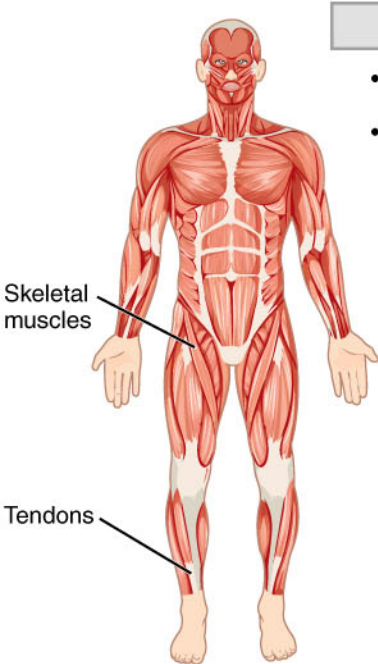




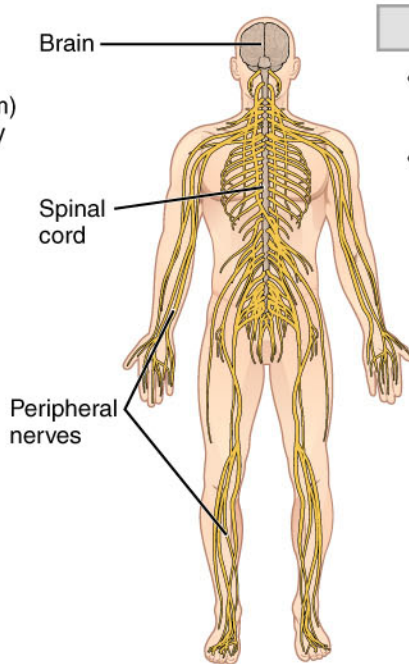
- Encloses internal body structures
- Site of many sensory receptors



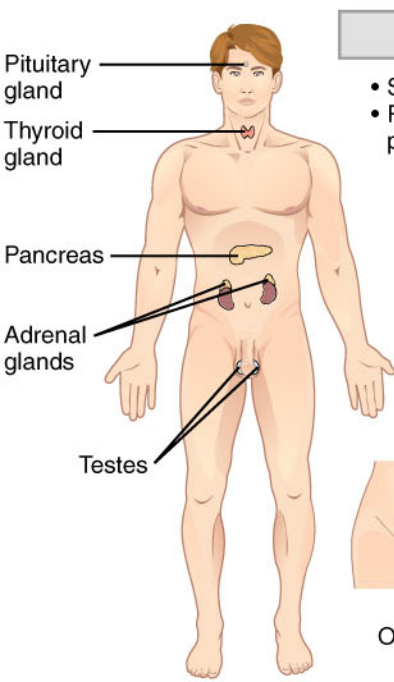
- Supports the body
- Enables movement (with muscular system)



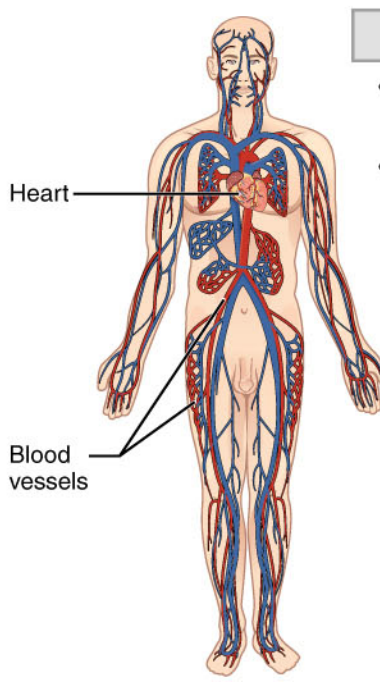
- Enables movement (with skeletal system)
- Helps maintain body temperature



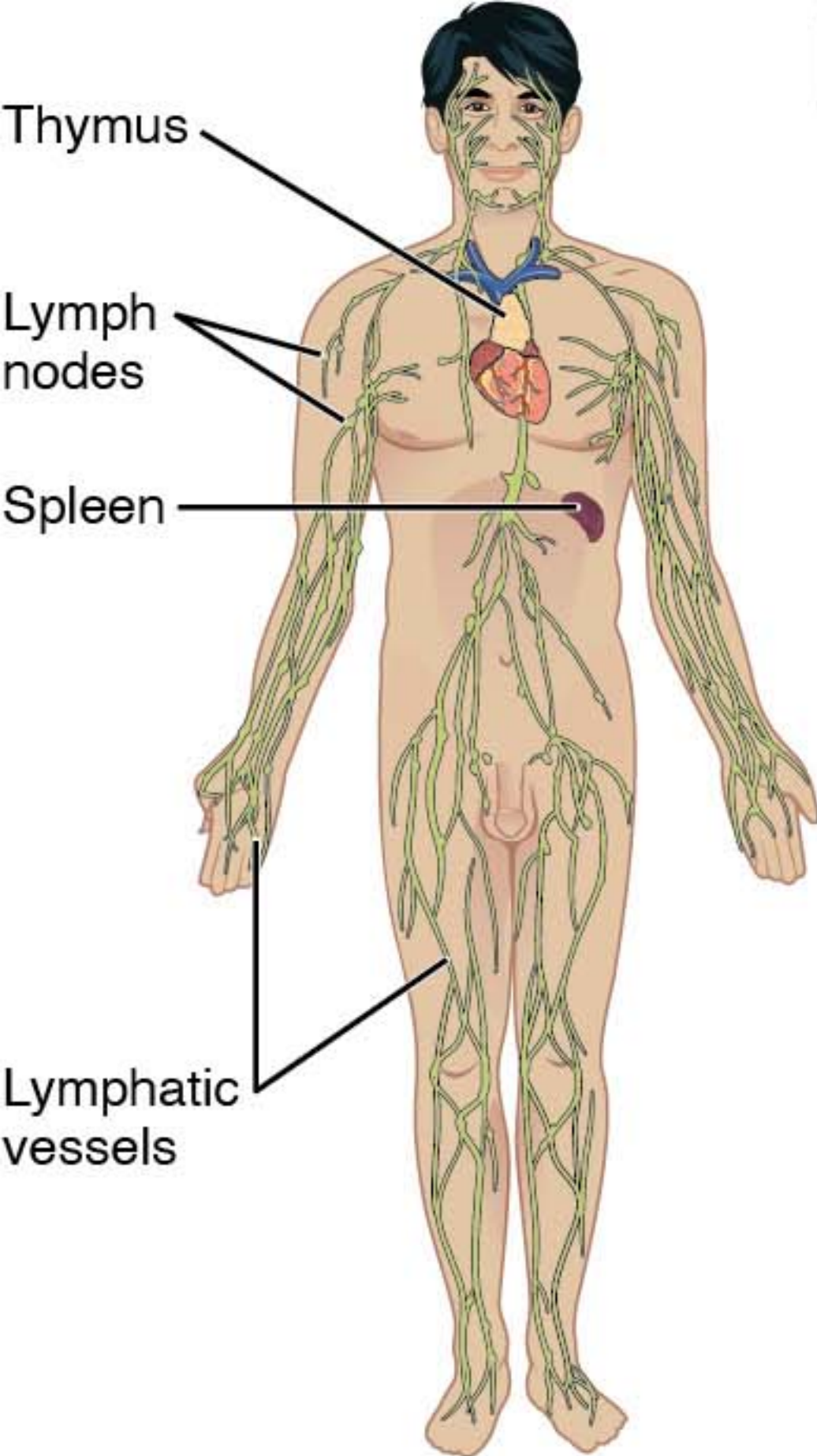
- Detects and processes sensory information
- Activates bodily responses



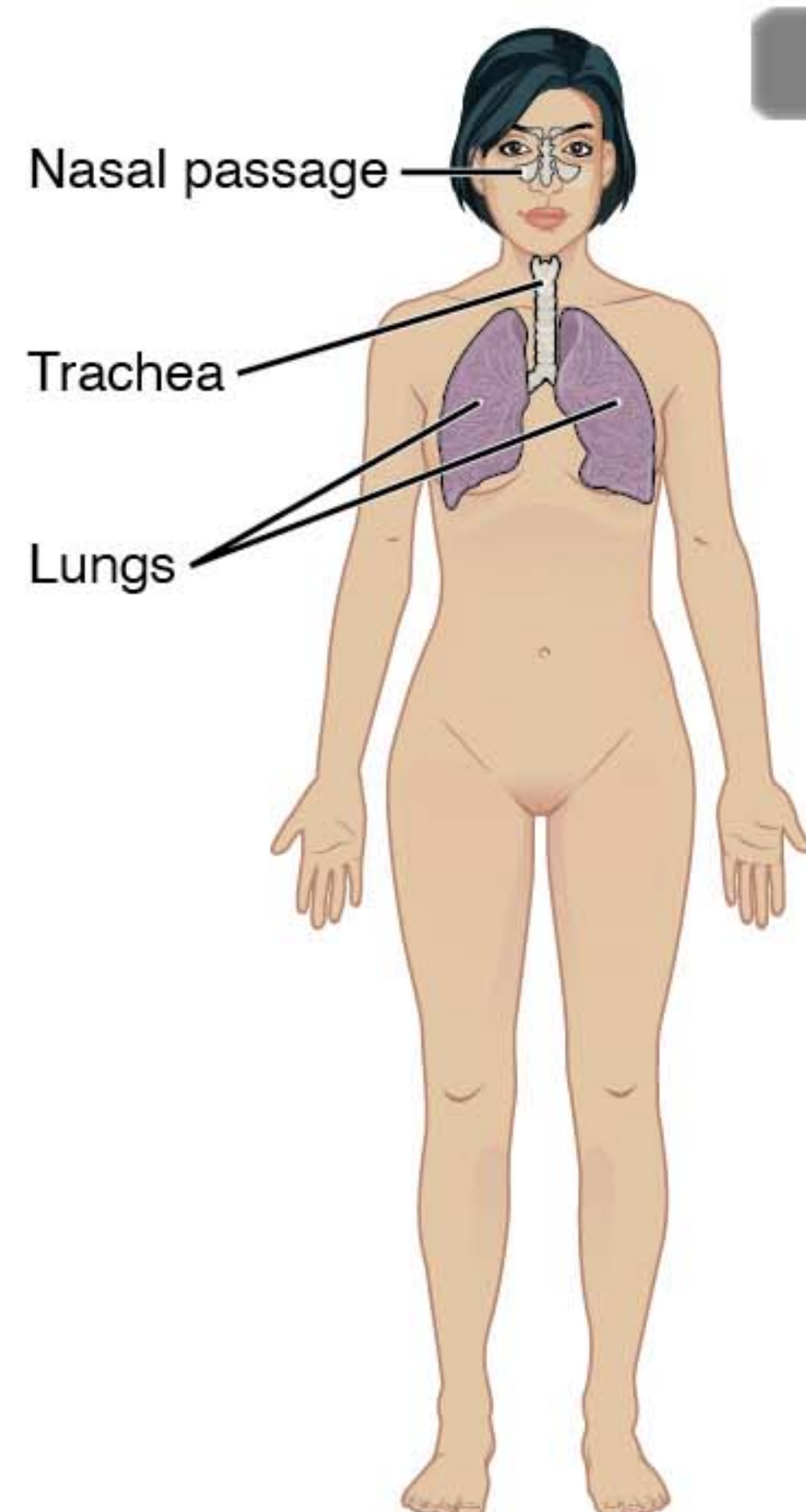
- Secretes hormones
- Regulates bodily processes



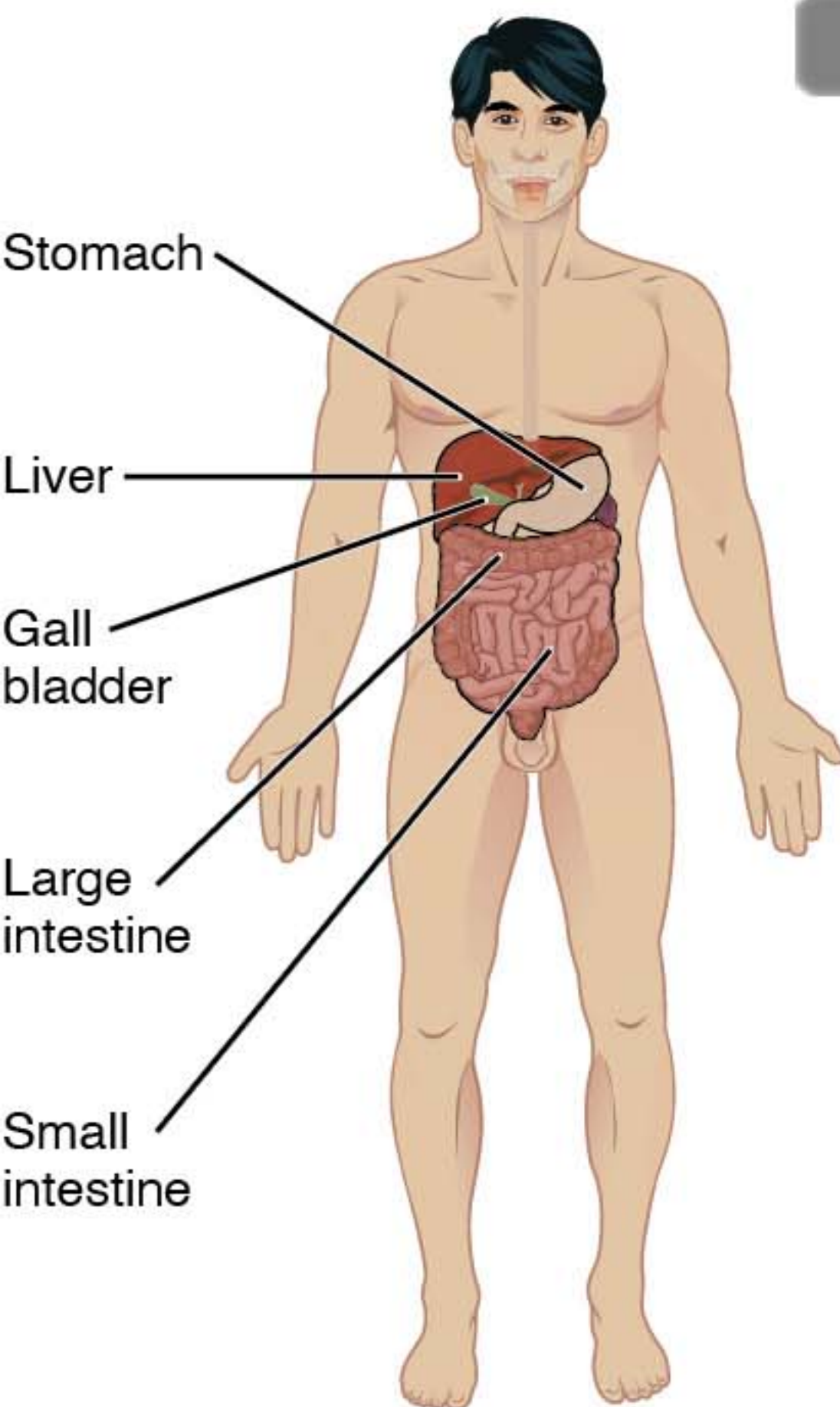
- Delivers oxygen and nutrients to tissues
- Equalizes temperature in the body



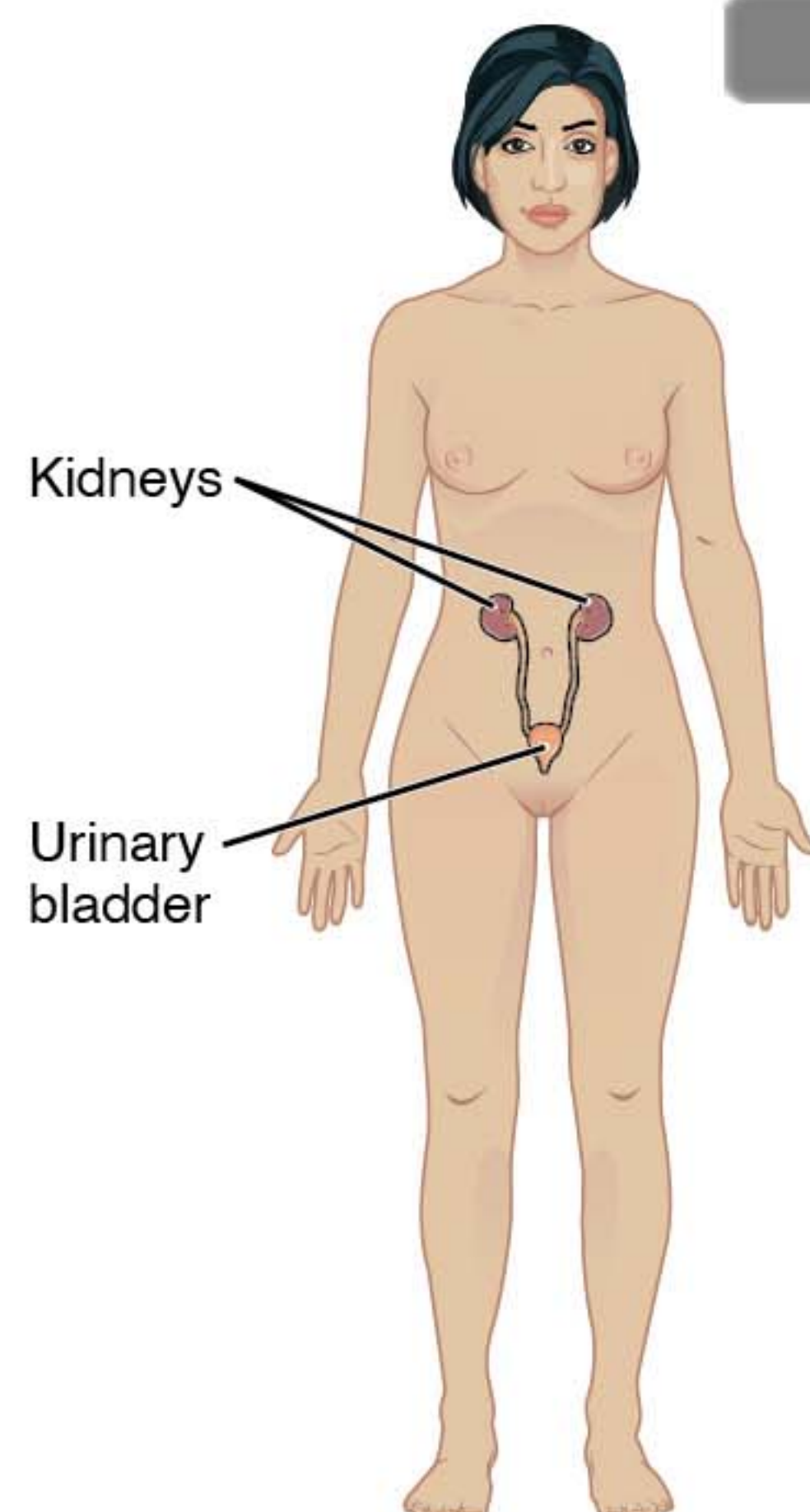
- Returns fluid to blood
- Defends against pathogens



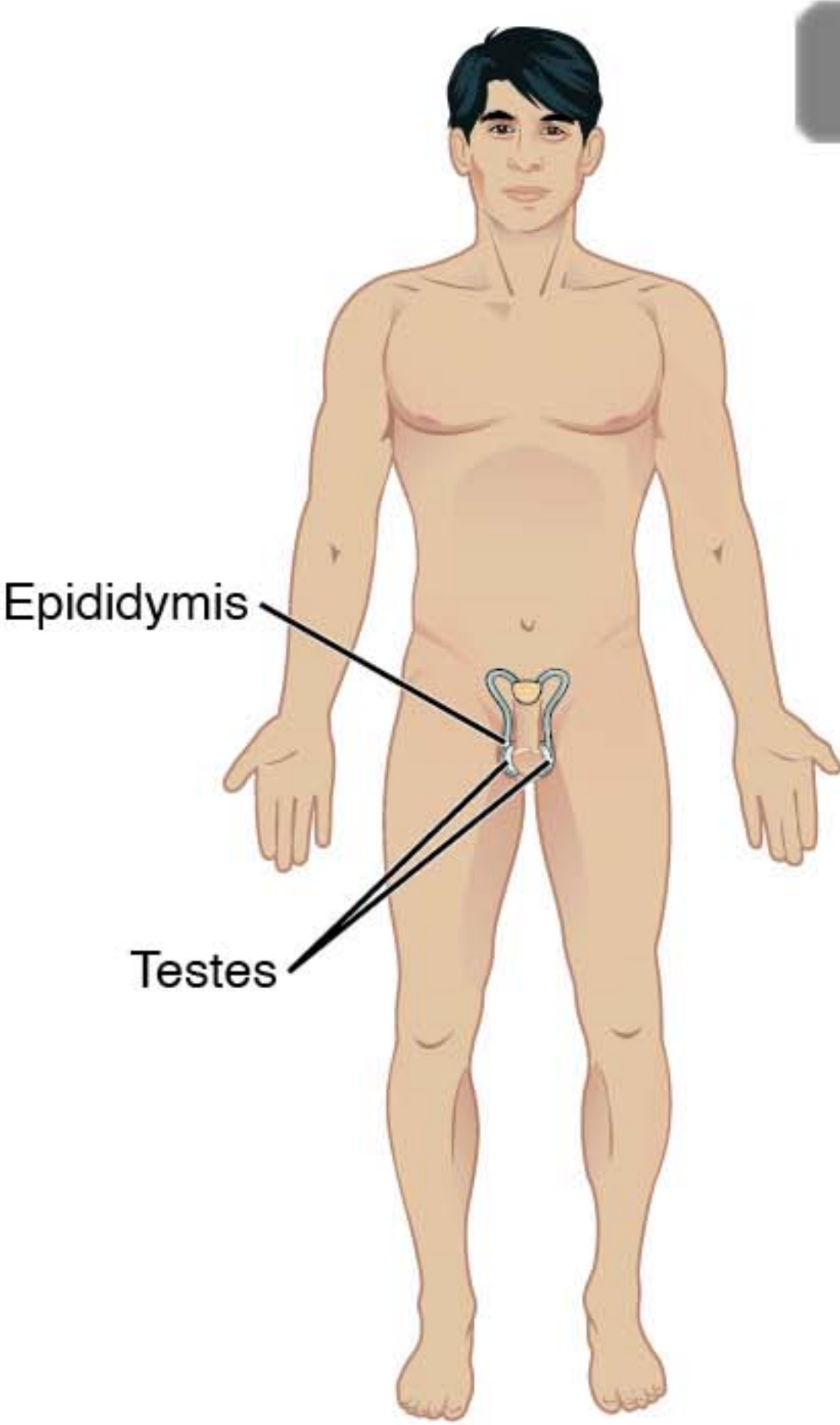
- Removes carbon dioxide from the body
- Delivers oxygen to blood



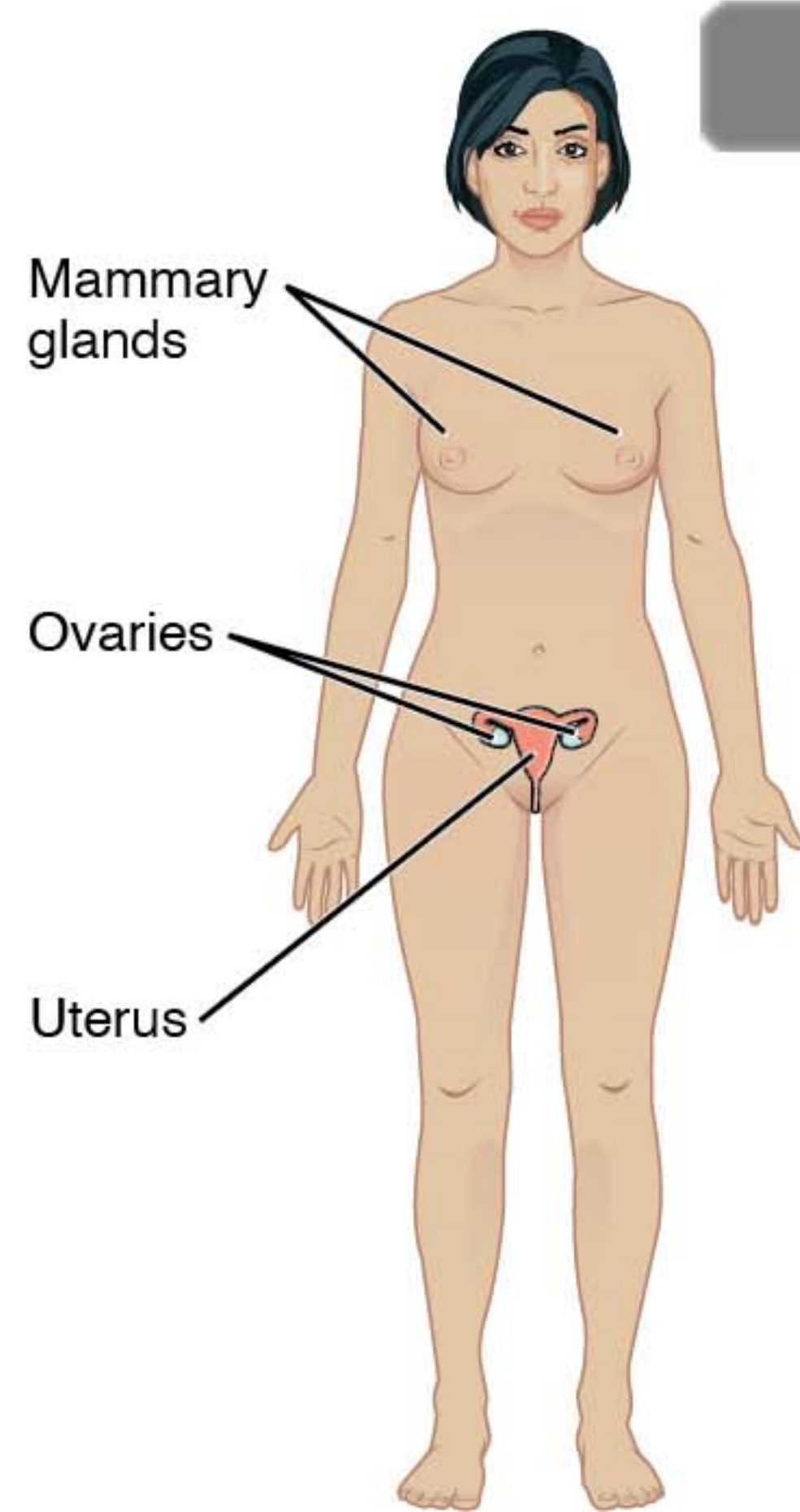
- Processes food for use by the body
- Removes wastes from undigested food



- Controls water balance in the body
- Removes wastes from blood and excretes them



- Produces sex hormones and gametes
- Delivers gametes to female

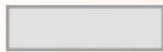


- Produces sex hormones and gametes
- Supports embryo/fetus until birth
- Produces milk for infant

Food

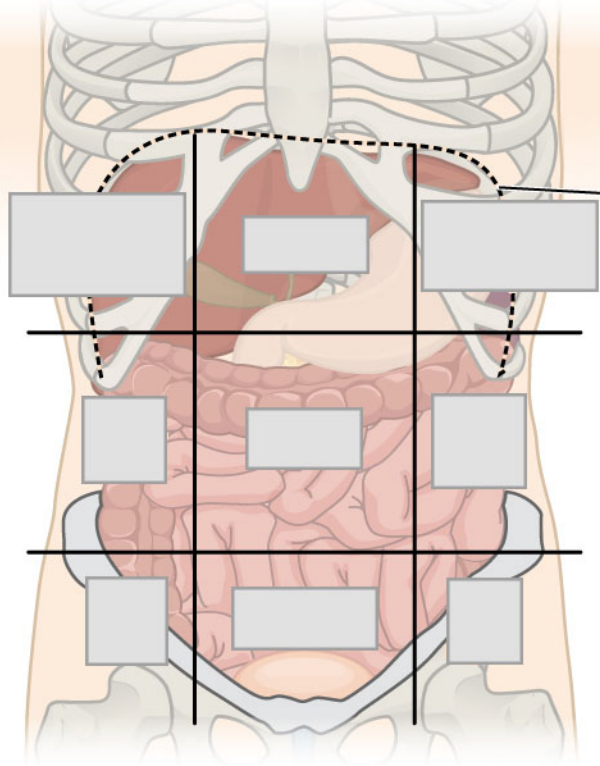


Releases
energy

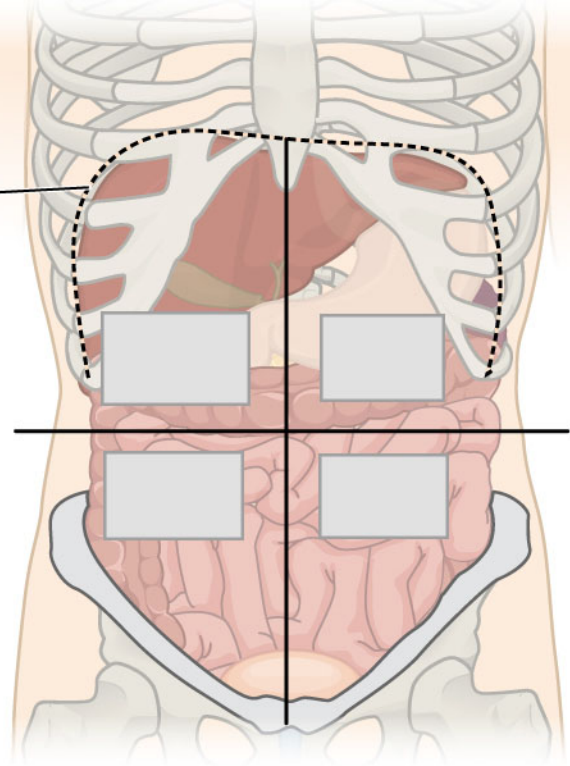


Requires
energy

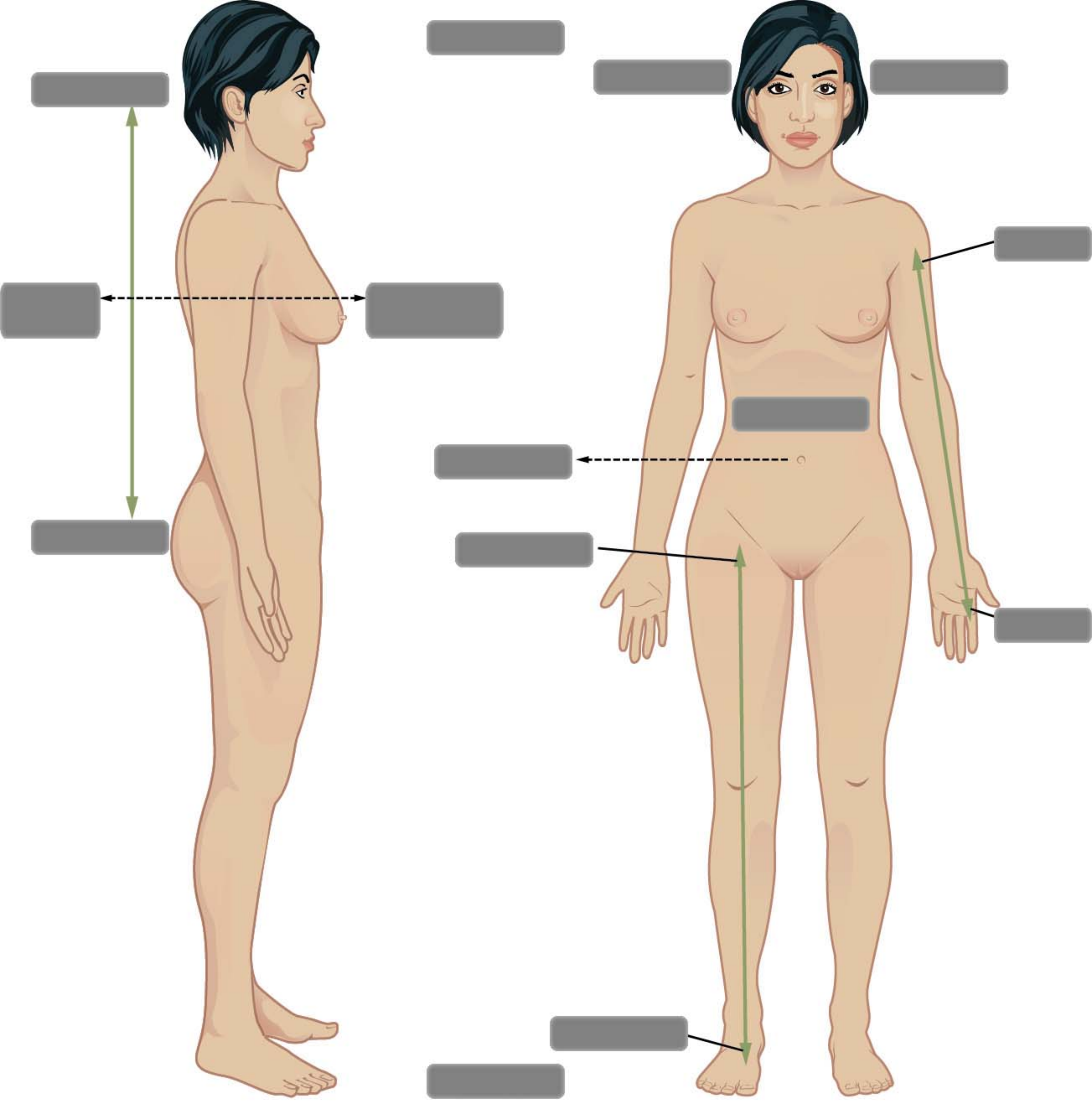


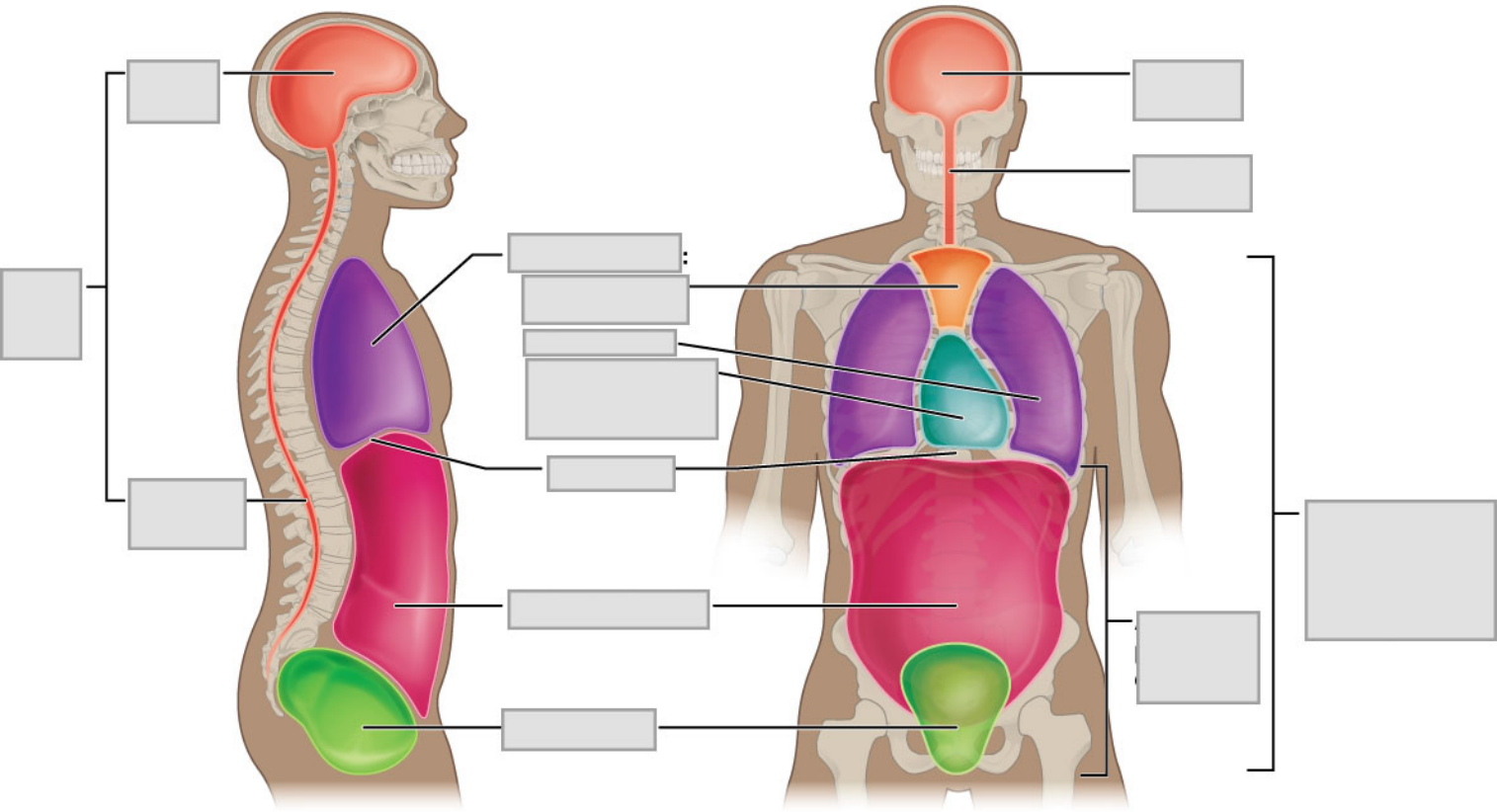


(a) Abdominopelvic regions



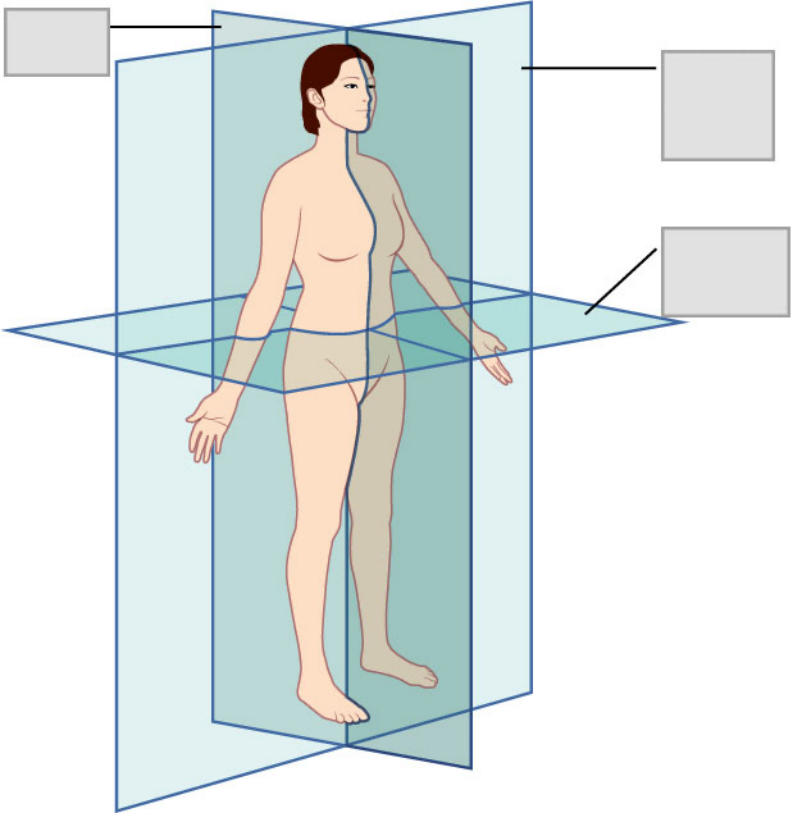
(b) Abdominopelvic quadrants

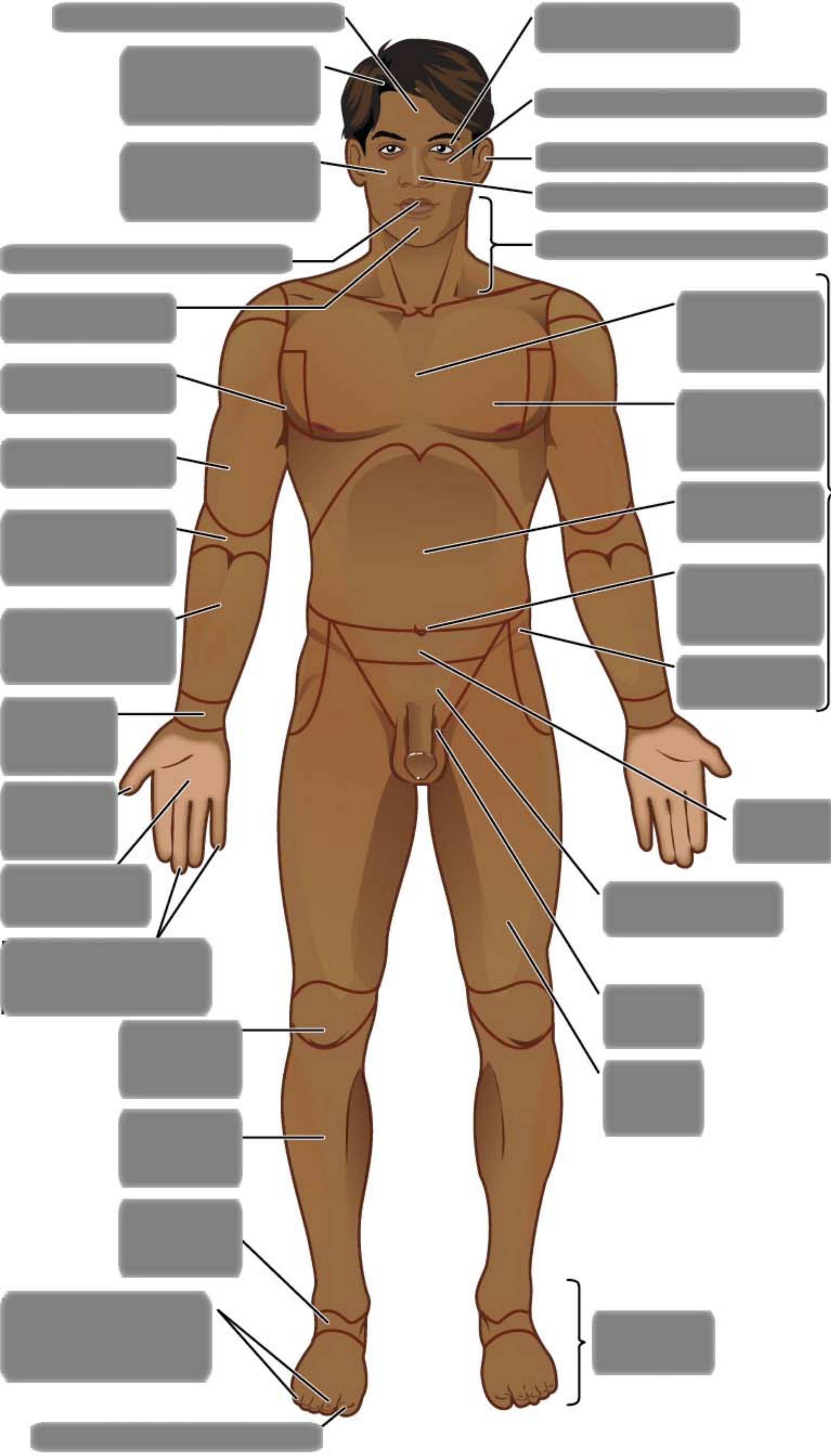




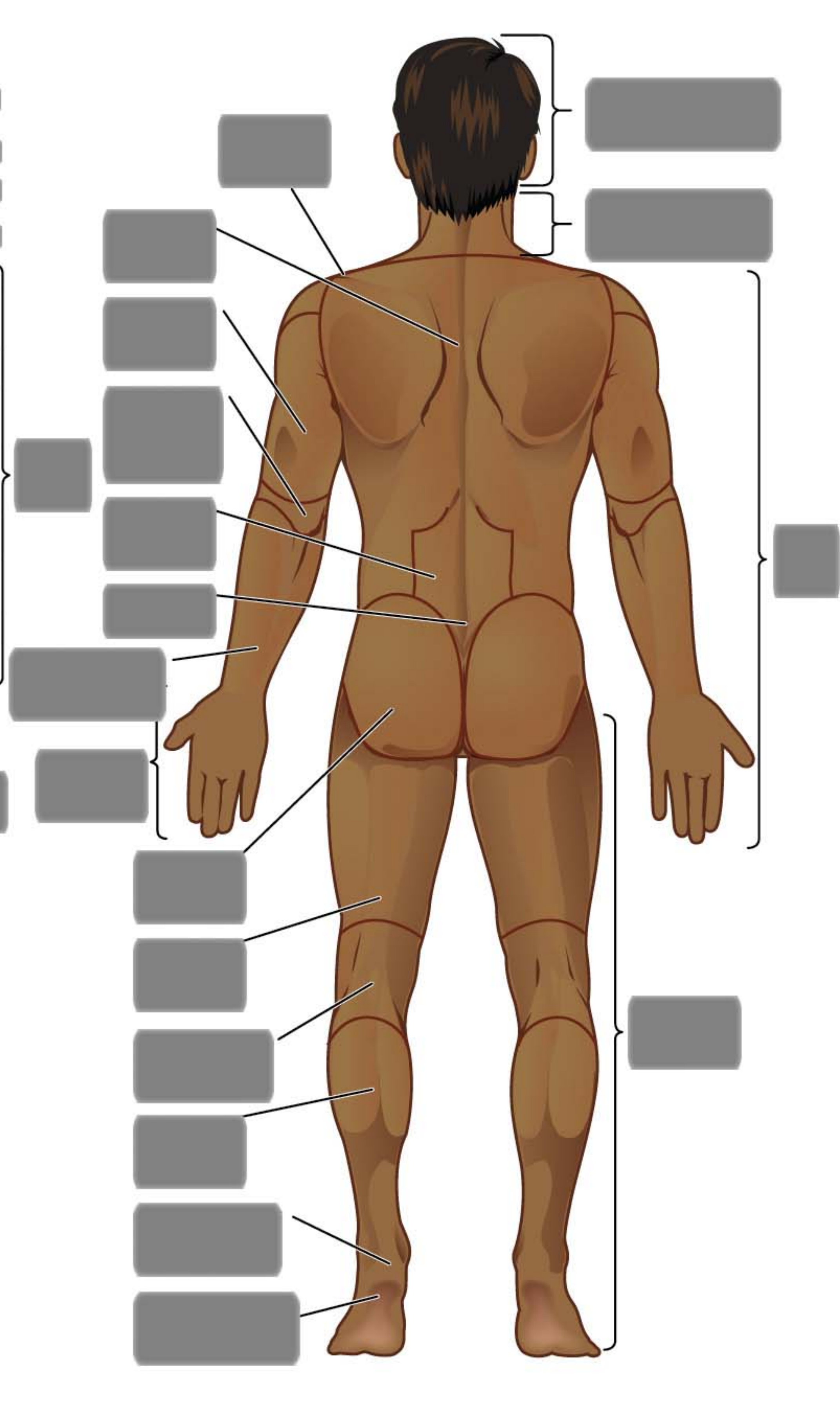
Lateral view

Anterior view





(a)  view



(b)  view

