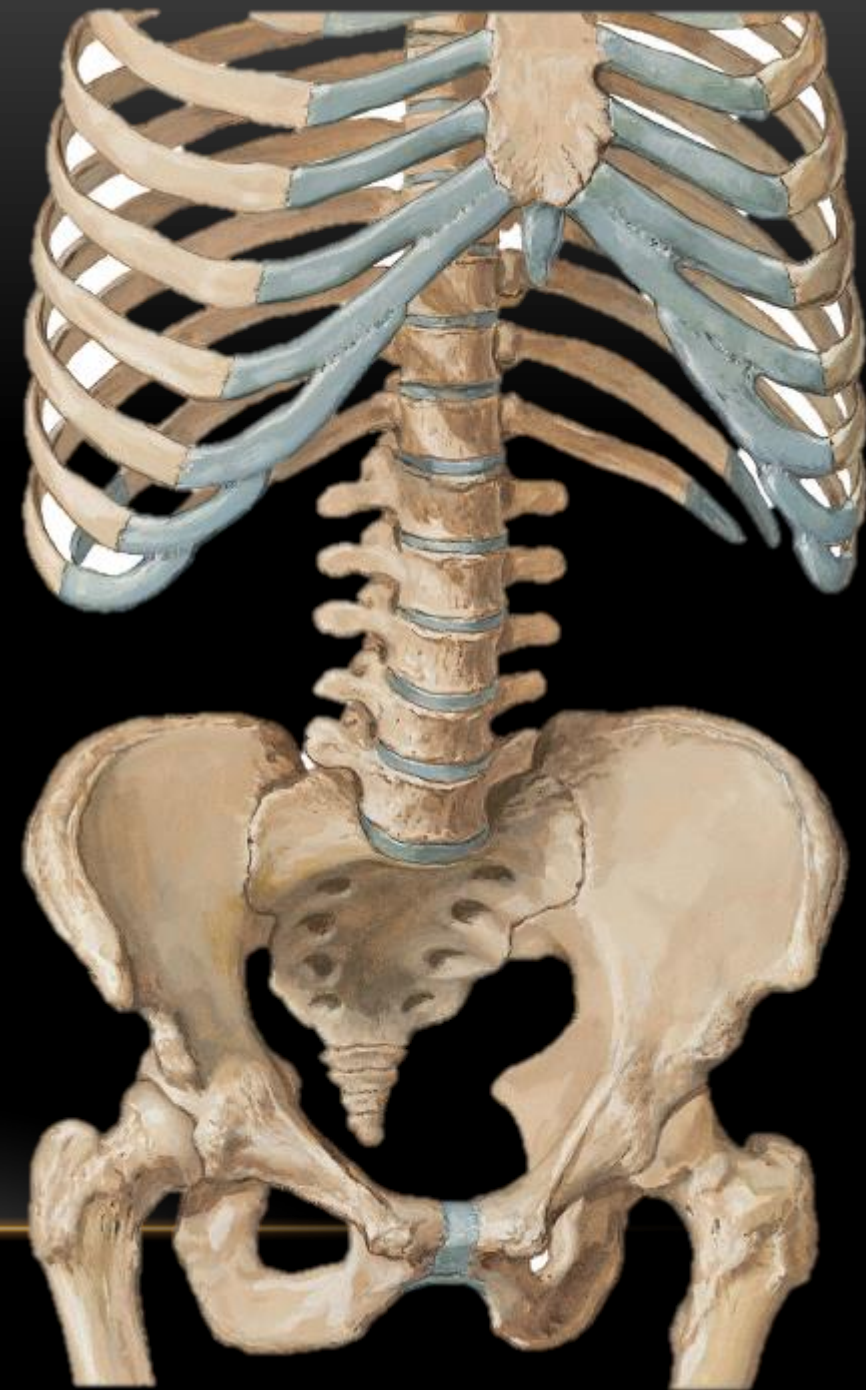


Introduction
to Anatomy
of the
Abdomen

The region between:
Diaphragm and pelvis.

Boundaries:

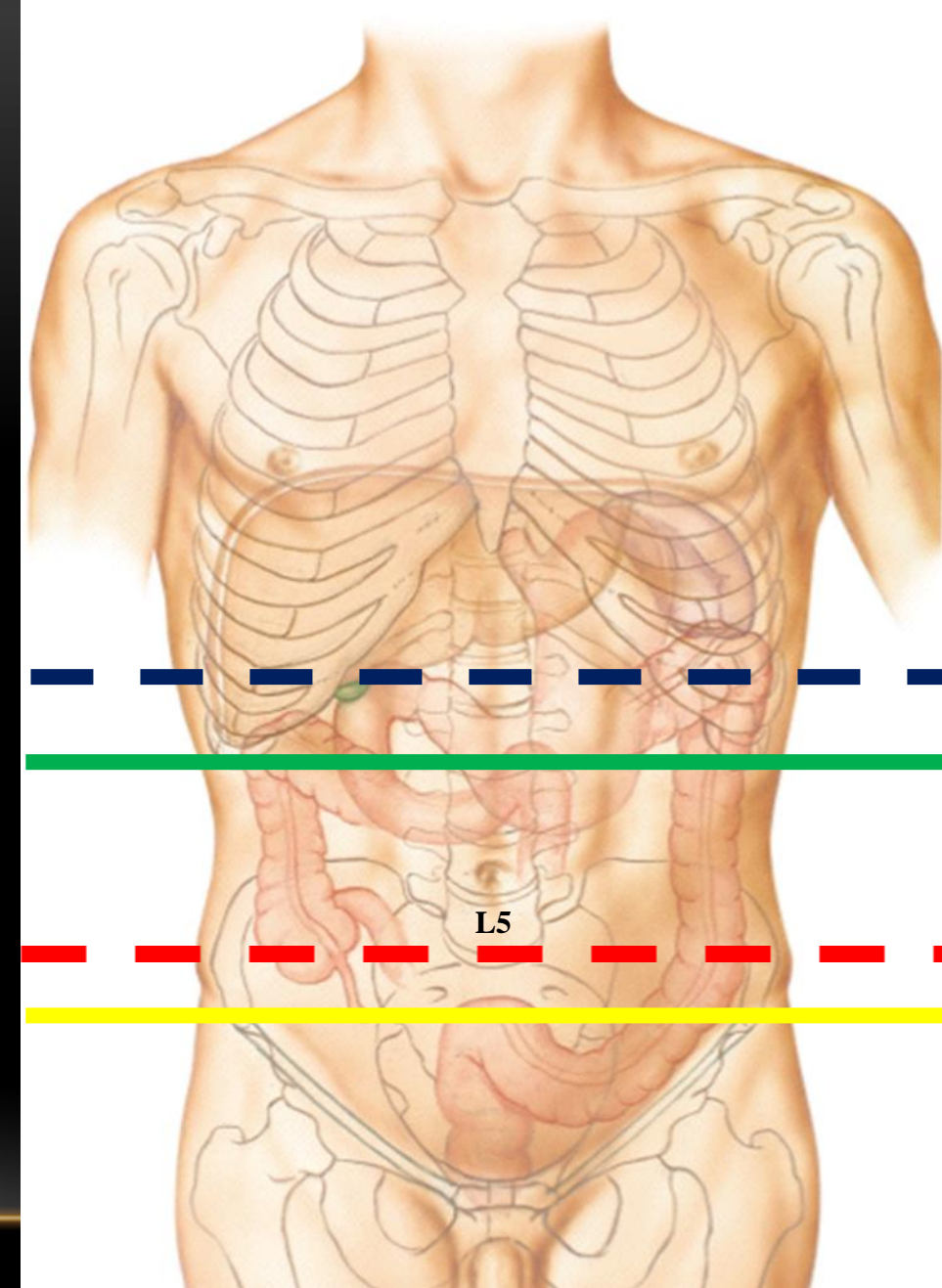
- **Roof**: Diaphragm
- **Posterior**: Lumbar vertebrae, muscles of the posterior abdominal wall
- **Inferior**: Continuous with the pelvic cavity, superior pelvic aperture
- **Anterior and lateral**: Muscles of the anterior abdominal wall



Topography of the Abdomen (PLANES)..1/2

TRANSVERSE PLANES

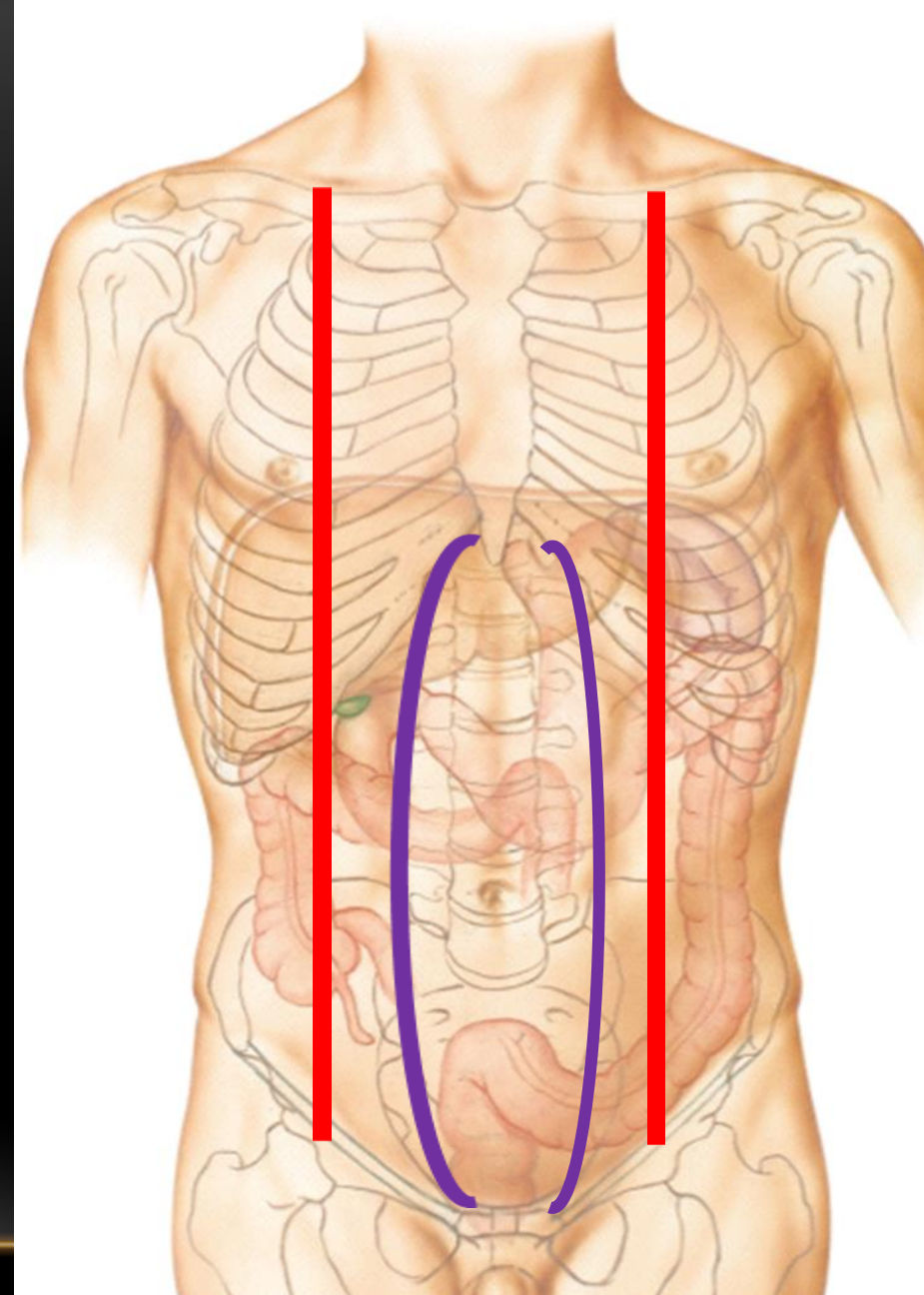
- **Transpyloric plane** : tip of 9th costal cartilages; pylorus of stomach, L1 vertebra level.
- **Subcostal plane**: tip of 10th costal cartilages, L2-L3 vertebra.
- **Transtubercular plane**: tubercles of iliac crests; L5 vertebra level.
- **Interspinous plane**: anterior superior iliac spines; promontory of sacrum



Topography of the Abdomen (PLANES)..2/2

VERTICAL PLANES

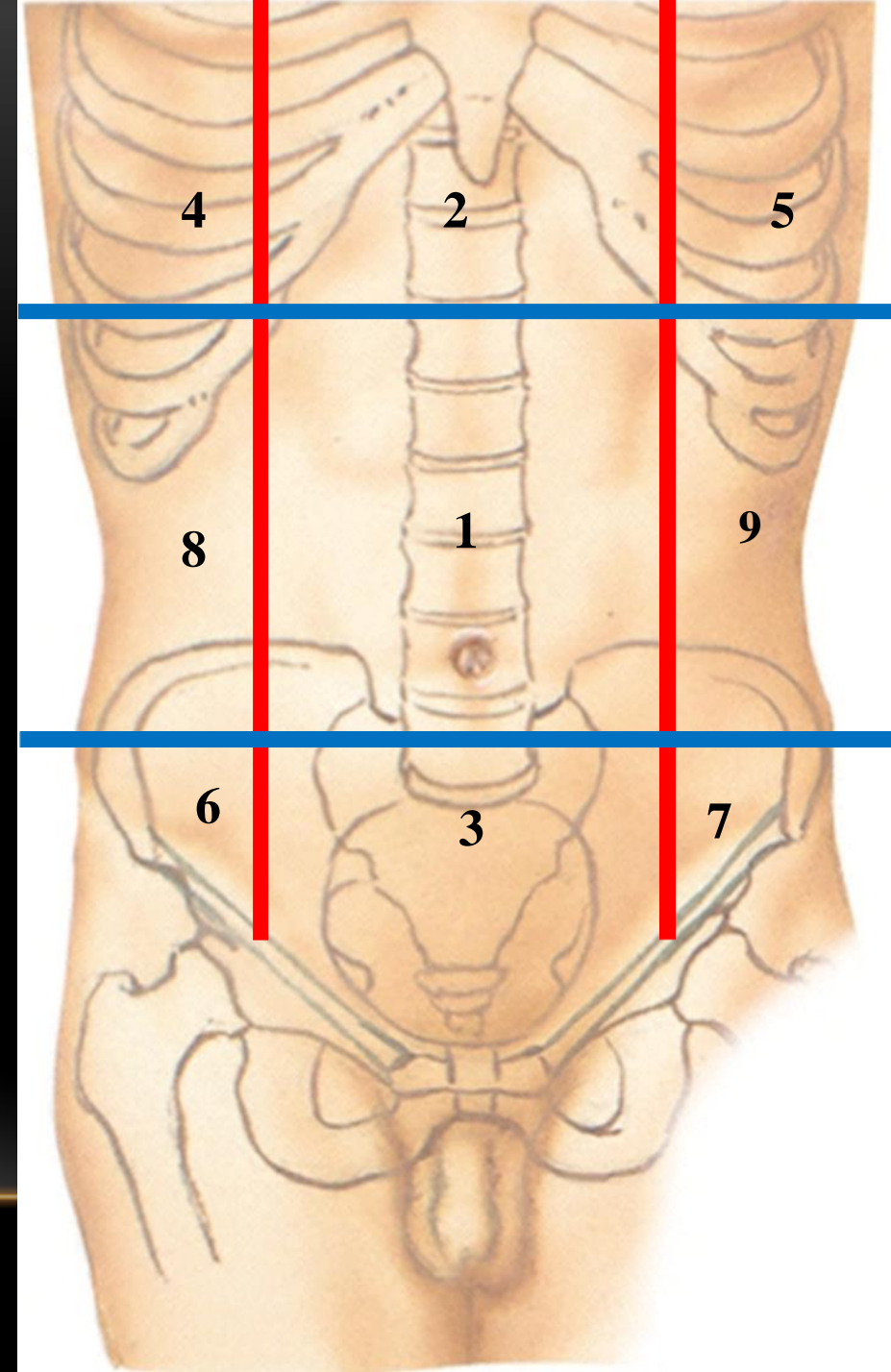
- Mid-clavicular plane: midpoint of clavicle- mid-point of inguinal ligament.
- Semilunar line: lateral border of rectus abdominis muscle.



Regions of the Abdomen..1/2

9 regions:

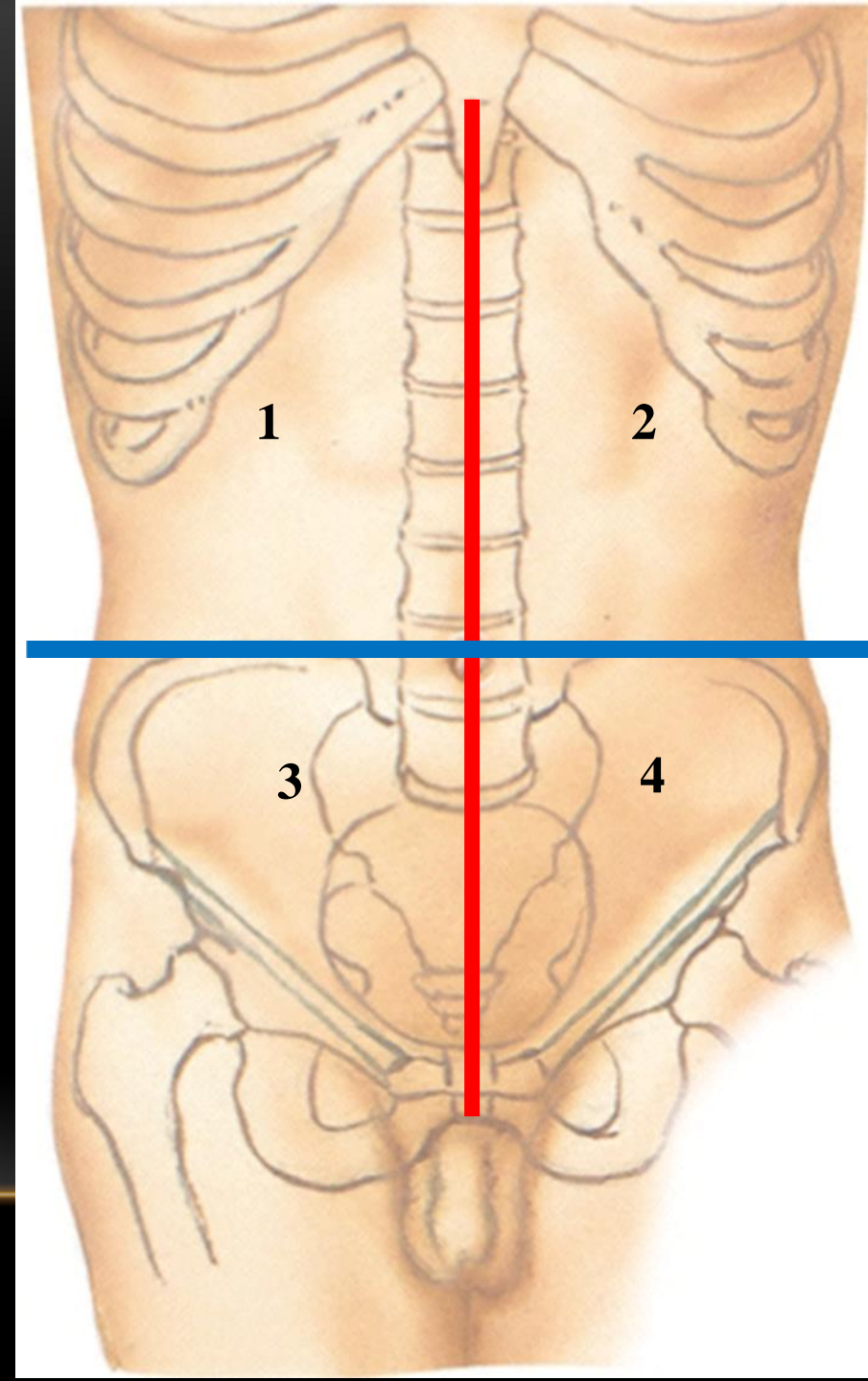
- Umbilical (1)
- Epigastric (2)
- Hypogastric (Suprapubic) (3)
- Right hypochondriacum (4)
- Left hypochondrium (5)
- Right Iliac (Inguinal) (6)
- Left Iliac (Inguinal) (7)
- Right lumbar (8)
- Left lumbar (9)



Regions of the Abdomen..2/2

4 Quadrants:

- Upper right quadrant (1)
- Upper left quadrant (2)
- Lower right quadrant (3)
- Lower left quadrant (4)

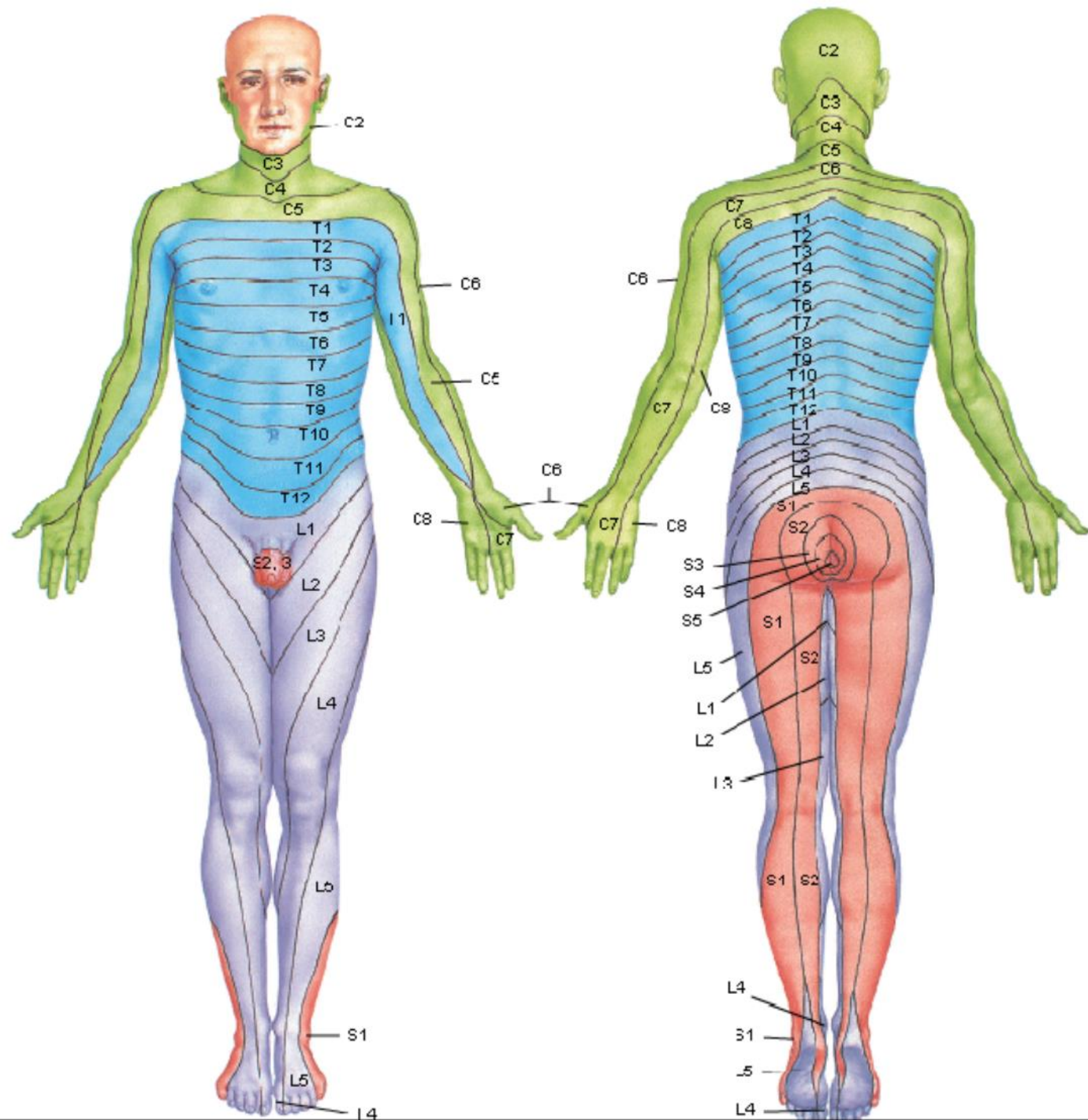


Dermatomes

Skin innervation:

- lower 5 intercostal nerves
- Subcostal nerve
- L1 spinal nerve (ilioinguinal+iliohypogastric nerves).

Umbilical region skin
= T10



Layers of Anterior Abdominal Wall

Skin

Fascia:

- Superficial fascia:
 - Superficial fatty layer(CAMPER'S fascia)
 - Deep membranous layer (SCARPA'S fascia)
- Deep fascia: a thin layer underneath the deep membranous layer

External oblique muscle (1)

Internal oblique muscle (2)

Transversus abdominis muscle (3)

Transversalis fascia

