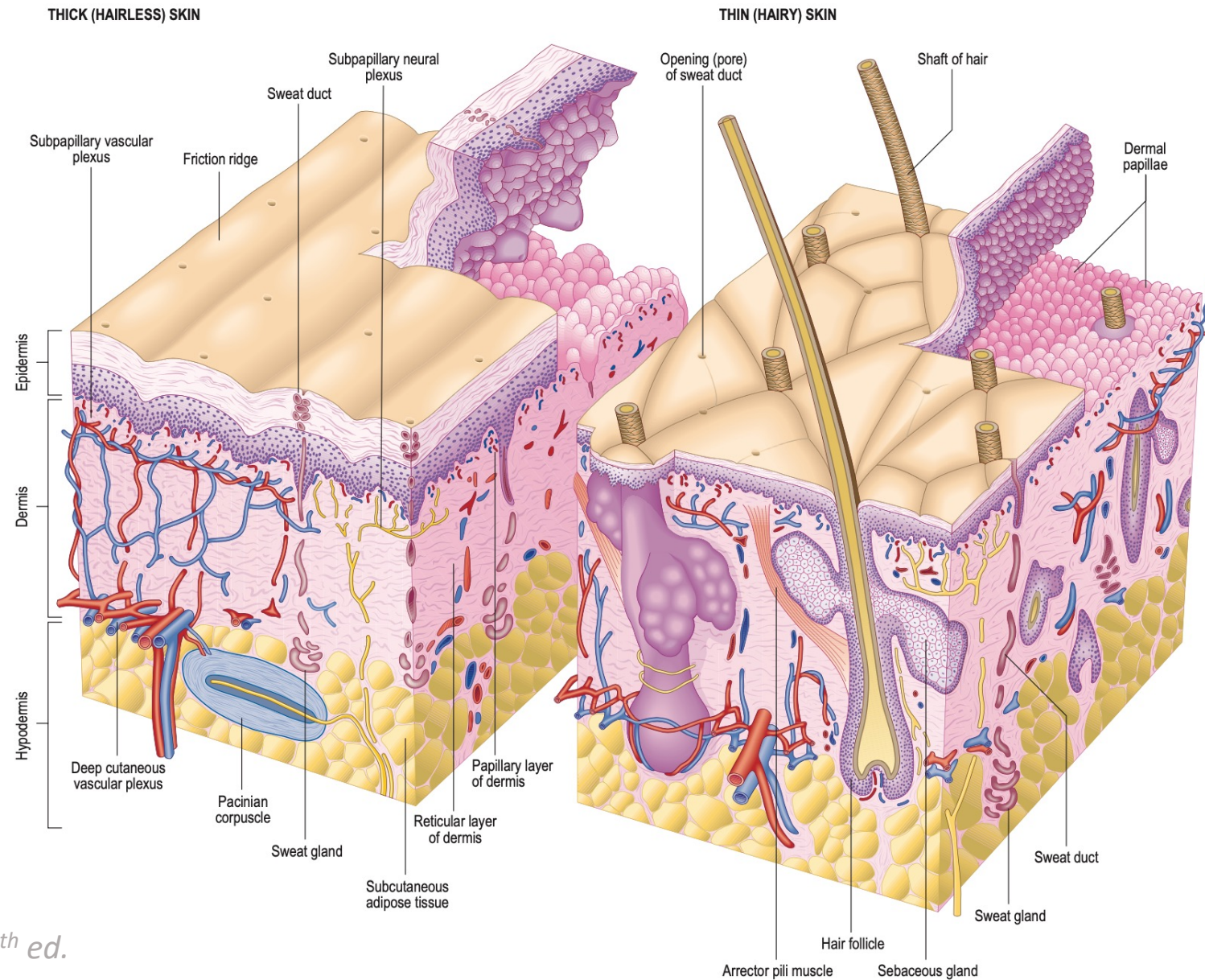


Integumentum



Skin and adnexa

💧 function

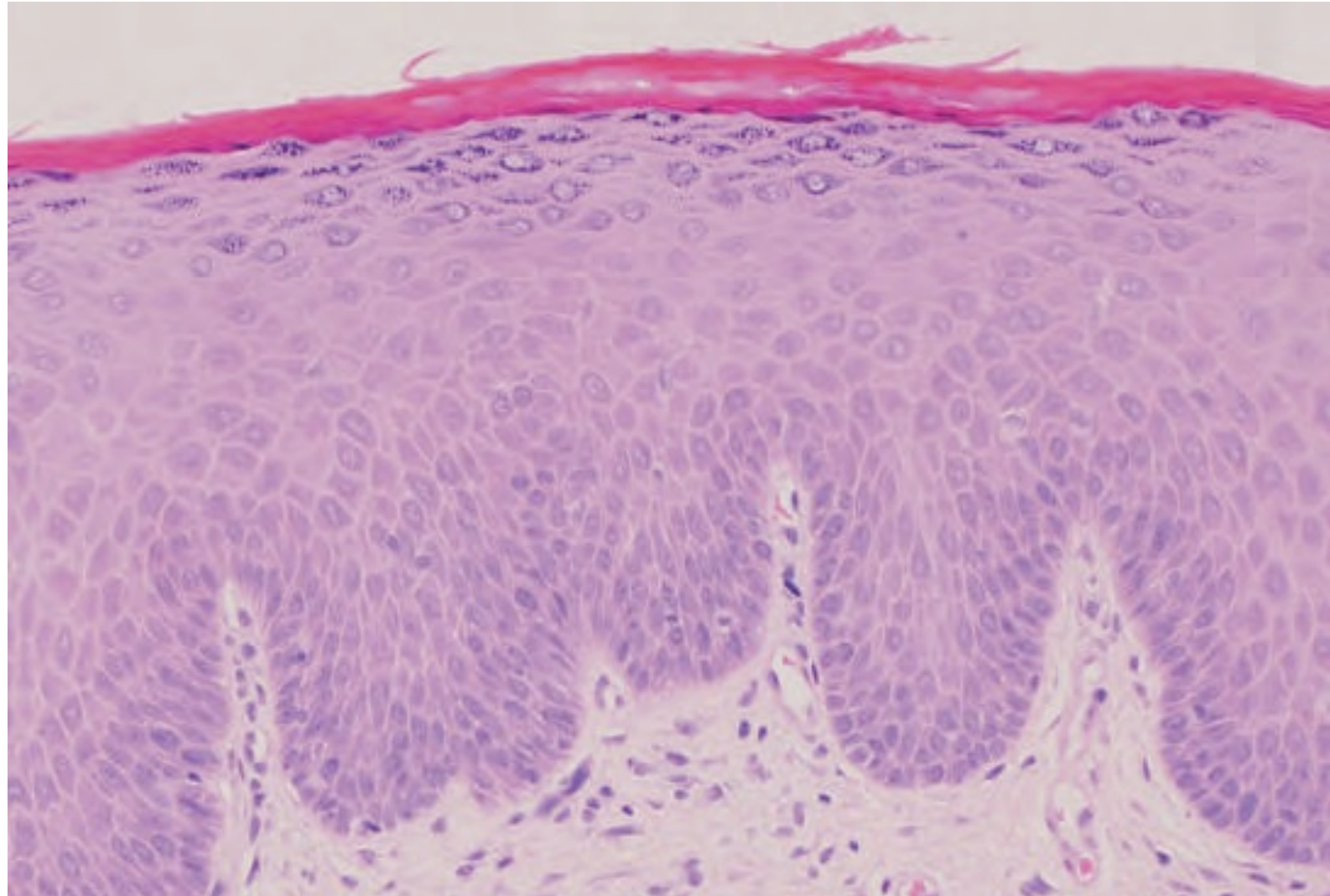
- 💧 integrity
- 💧 defence
- 💧 excretion
- 💧 termoregulation
- 💧 locomotion

💧 Skin covering

💧 hairs

💧 Skin glands

- 💧 sweat, aromatic, sebaceous



Cutis - skin

Epidermis

Epithelium squamocellulare

Basal layer of cells

Langerhans cells

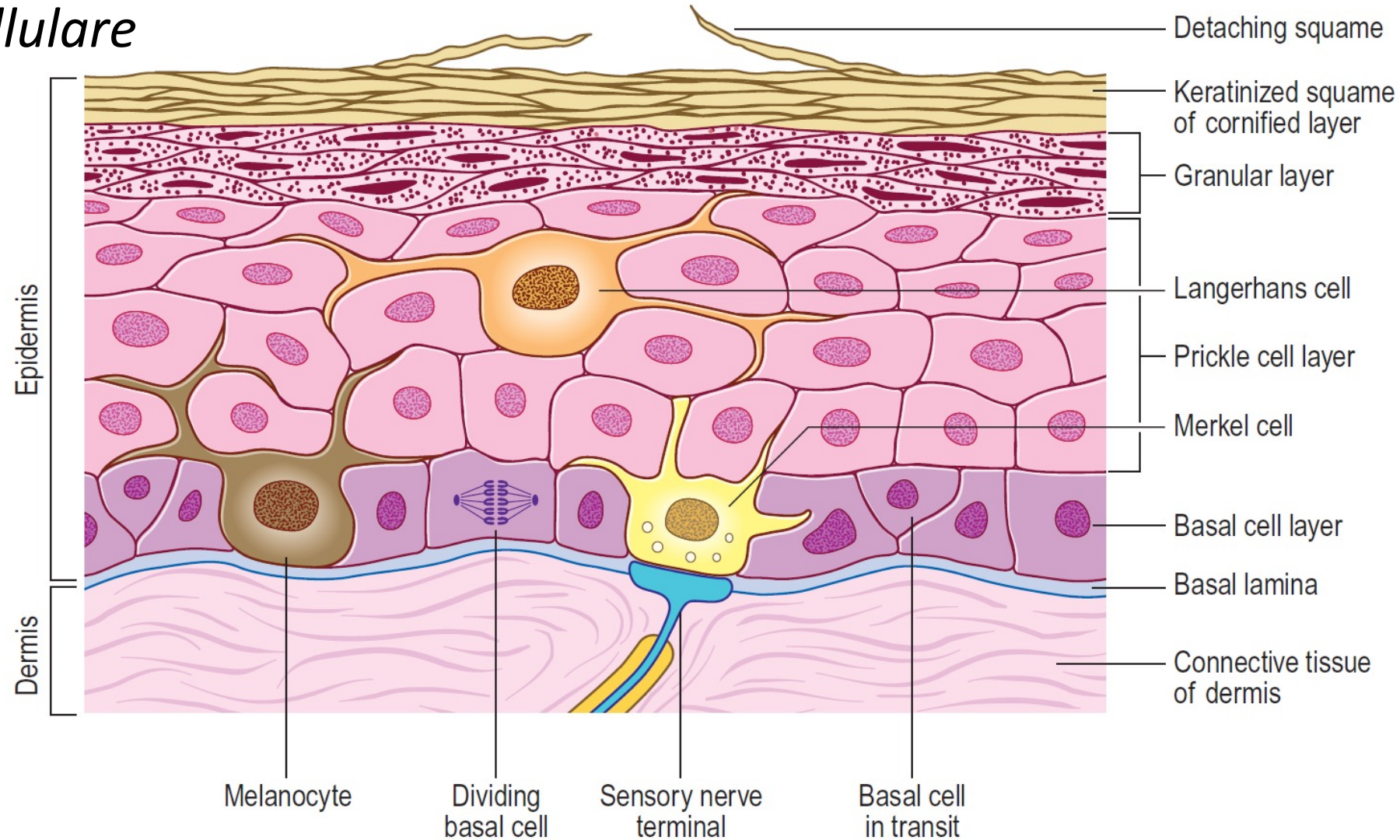
Merkel cells

Melanocytes

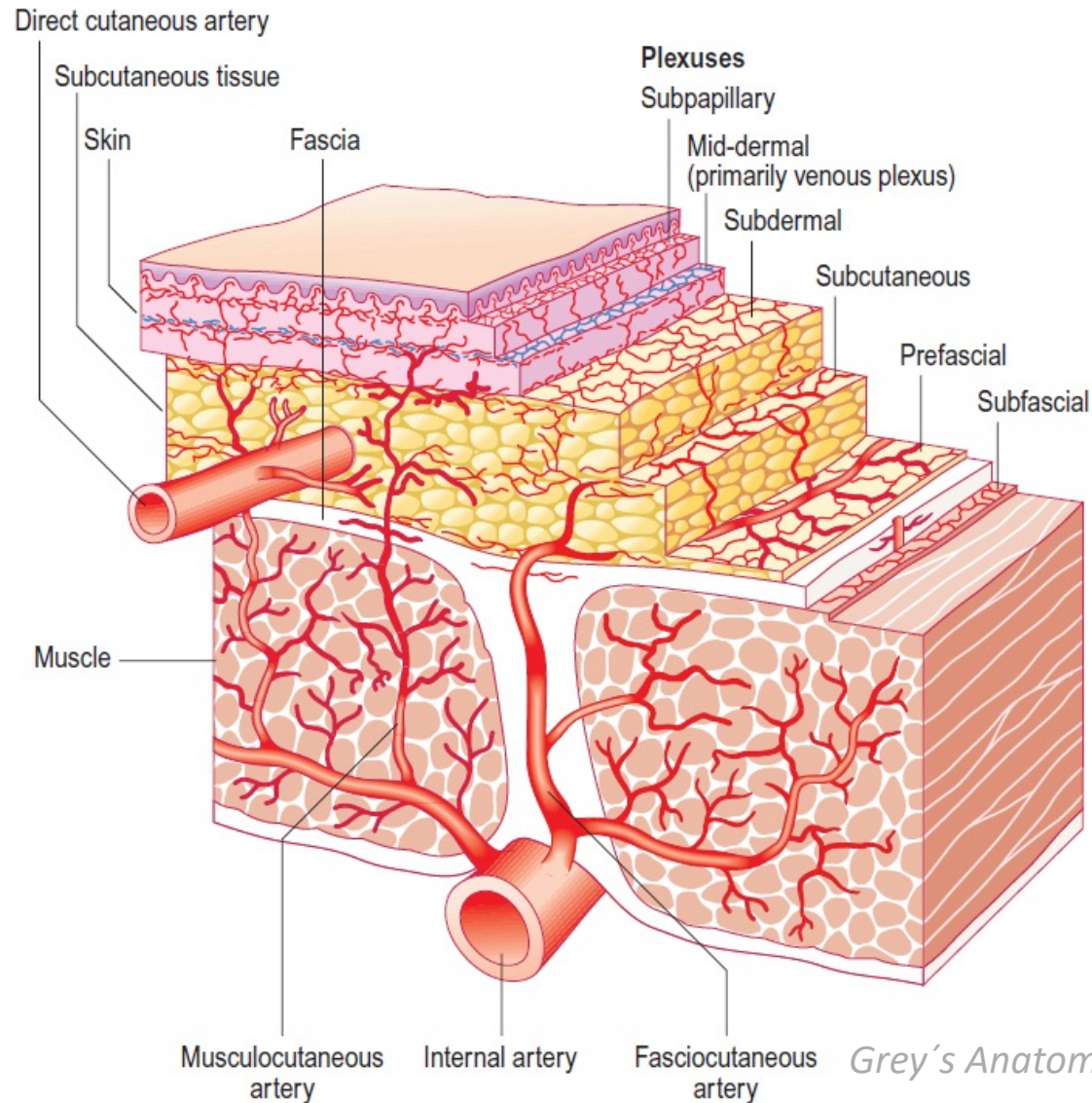
Dermis

Vessels

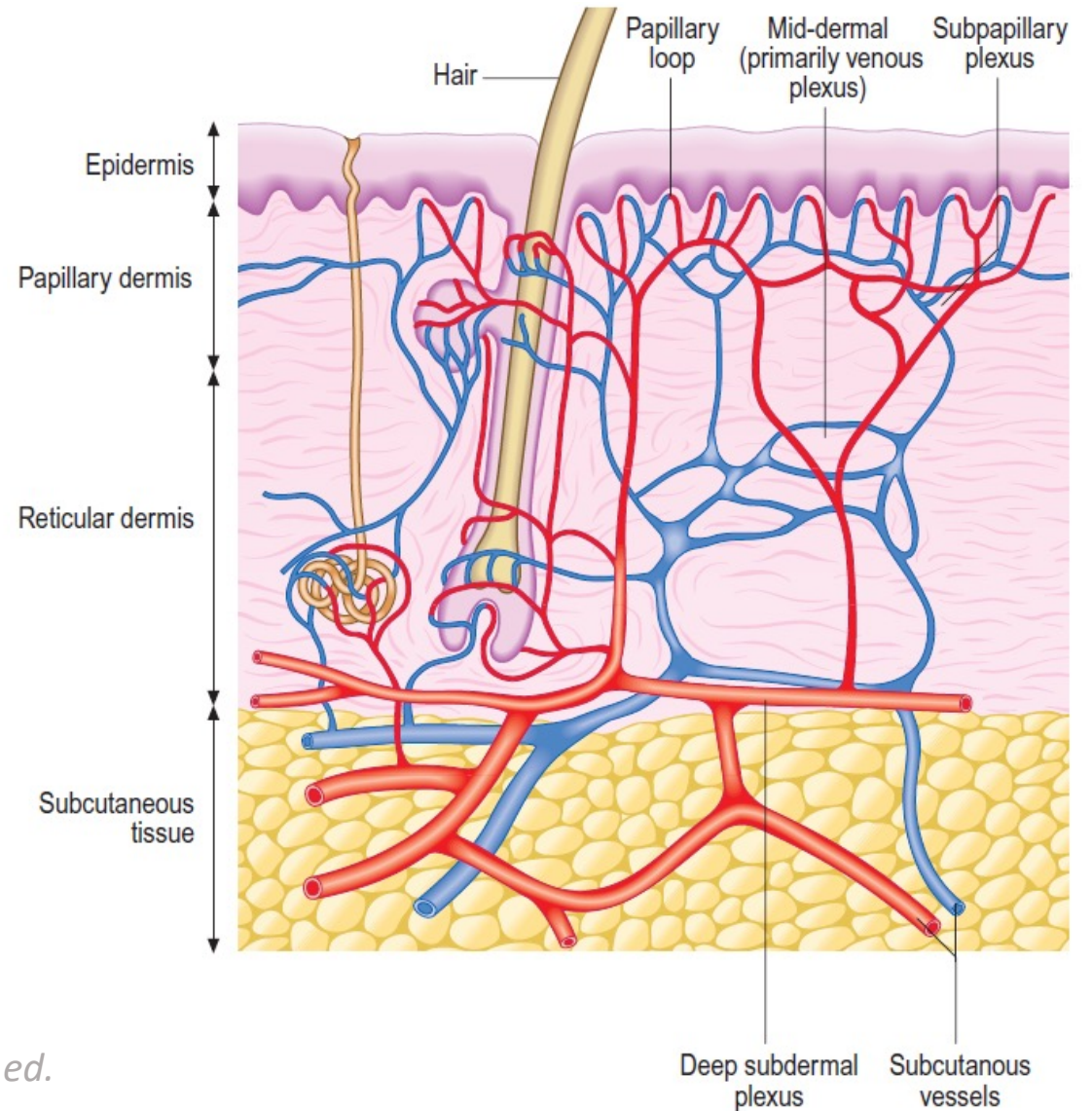
Nerves

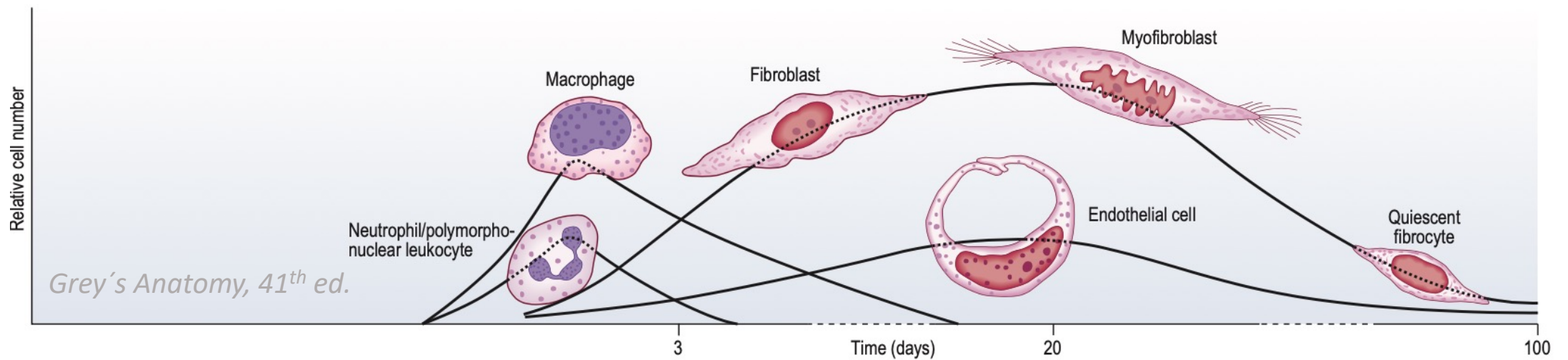
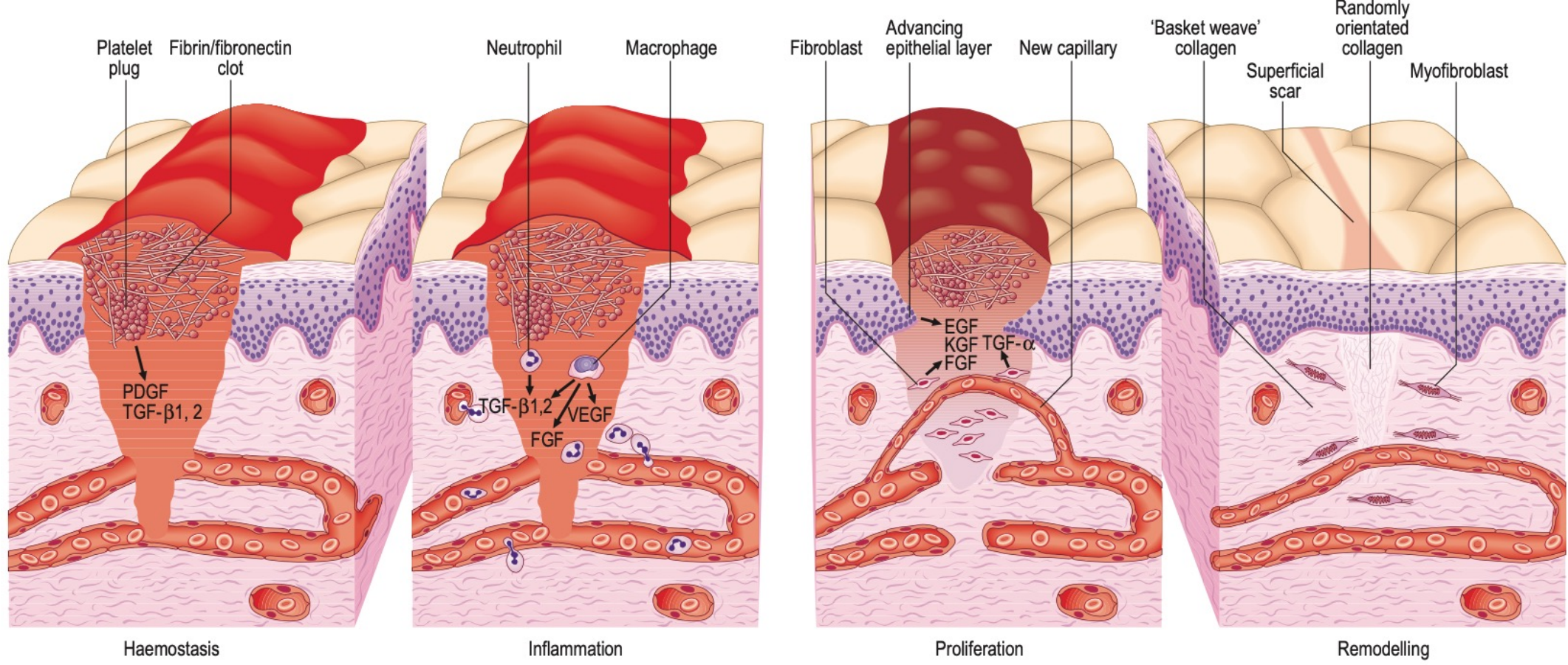


Skin vessels



Grey's Anatomy, 41th ed.





Adnexa cutis

♦ **keratine**

♦ **Pili**

♦ **Capili**

♦ **Barba**

♦ **Supercilia**

♦ **Cilia**

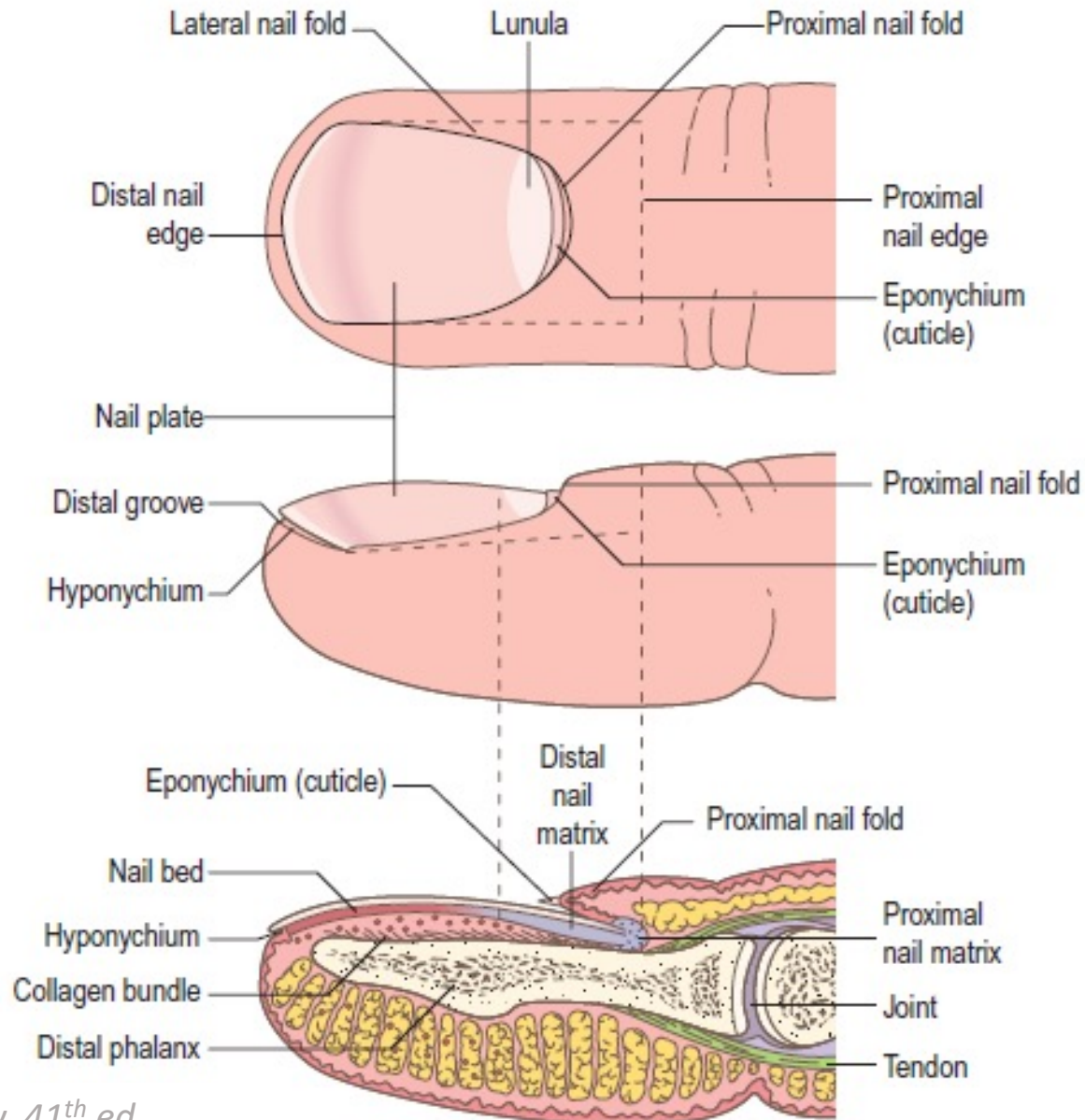
♦ **Unguis**

♦ **glands**

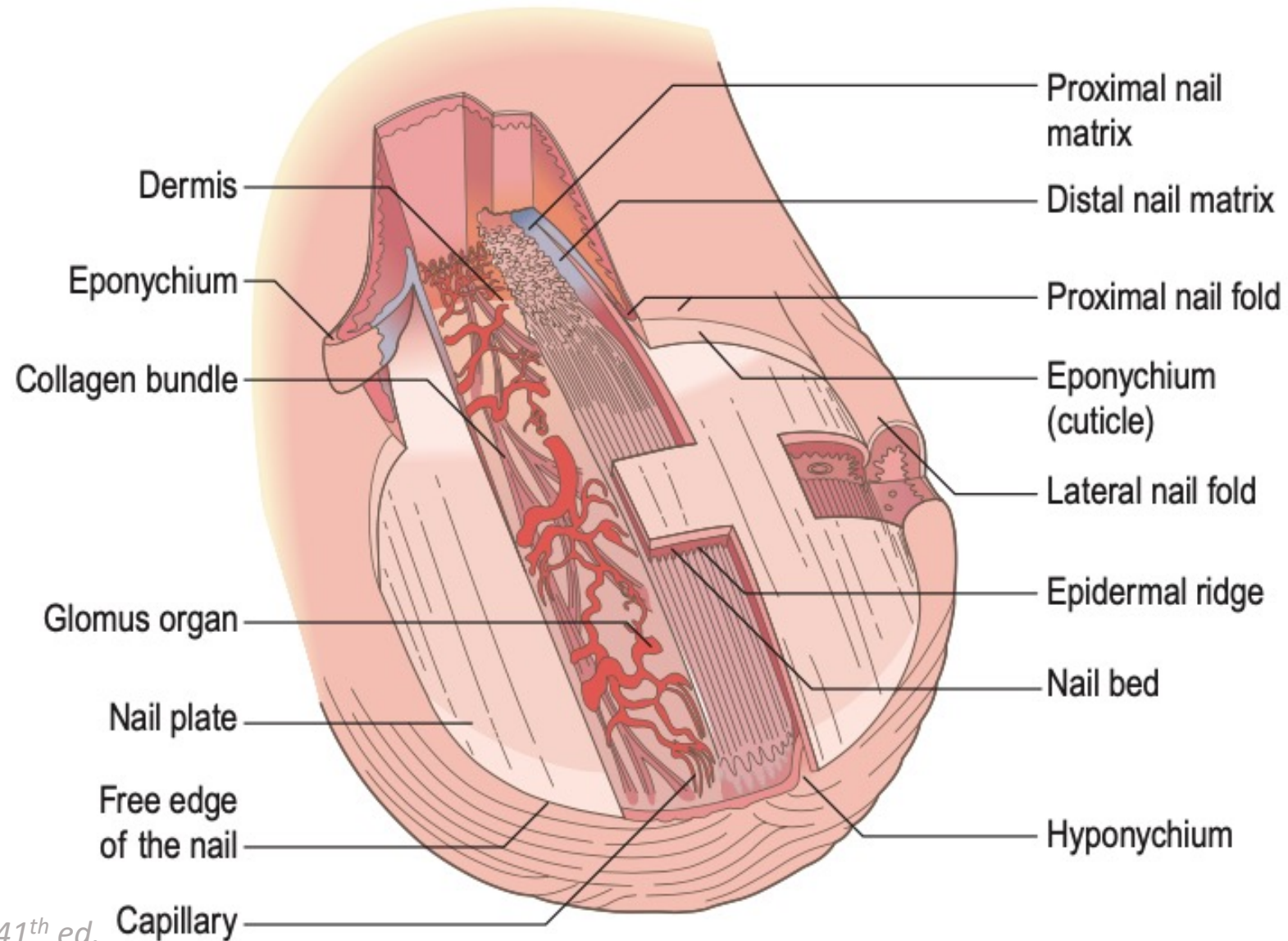
♦ **sweat**

♦ **aromatic**

♦ **sebaceous**



Unguis



Pili

Pilus

Cuticula

Cortex

medulla

scapus pili

radix pili

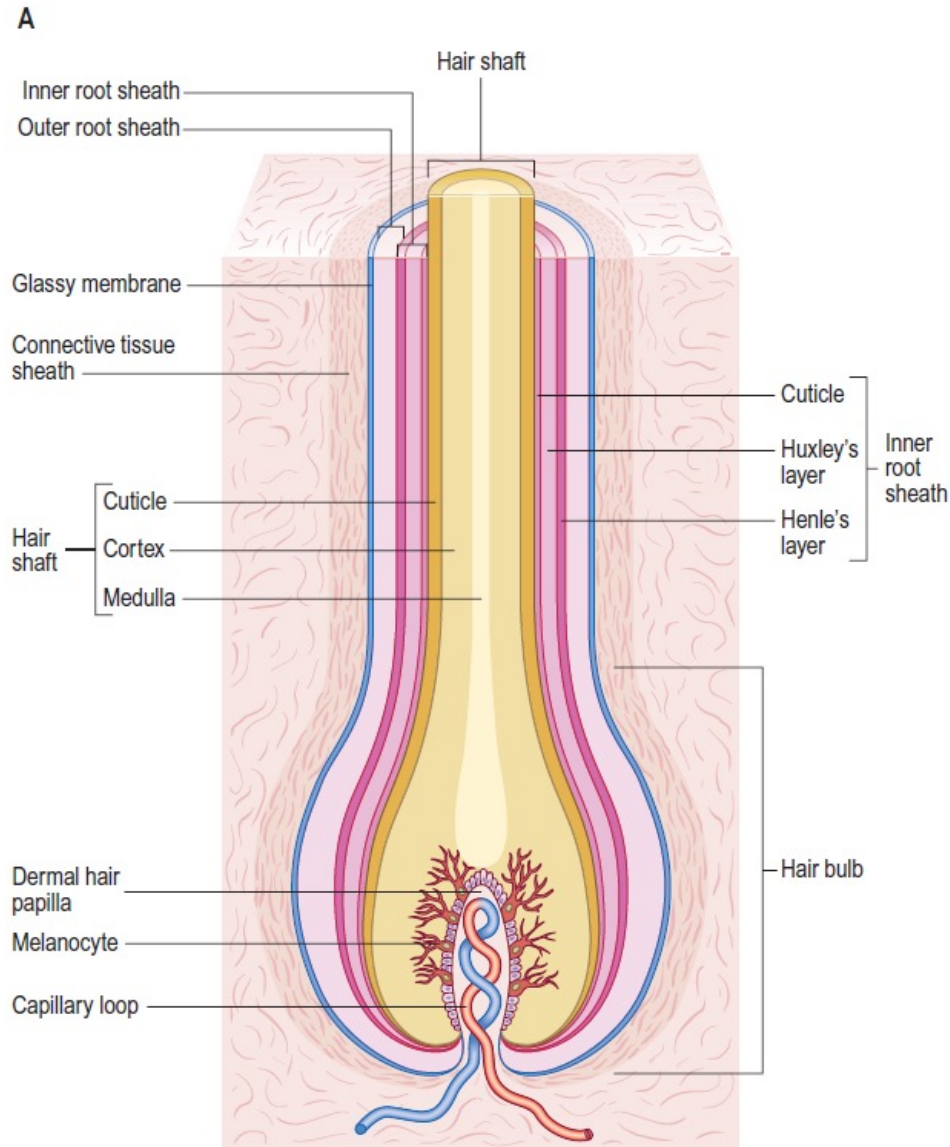
folliculus pili

bulbus pili

papilla pili

glandula sebacea

m. arrector pili

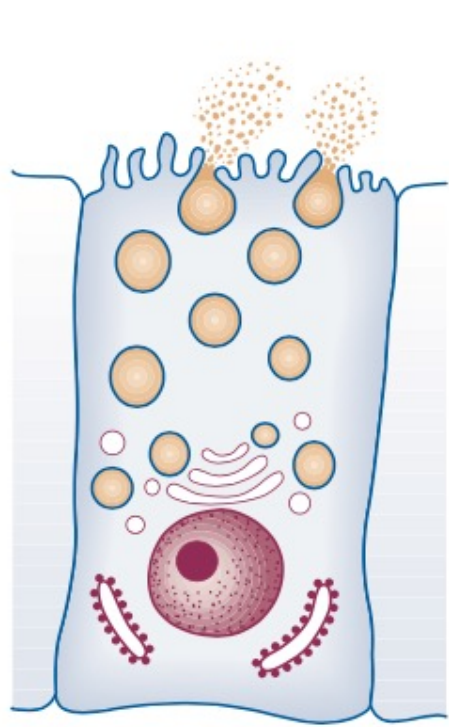


Grey's Anatomy, 41th ed.

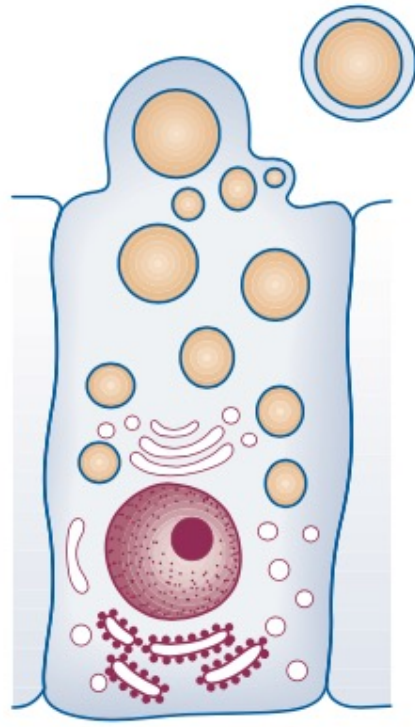
Grey's Anatomy, 41th ed.



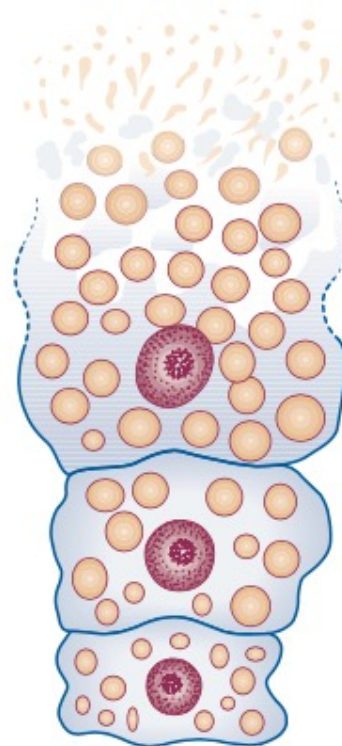
Glandulae cutis



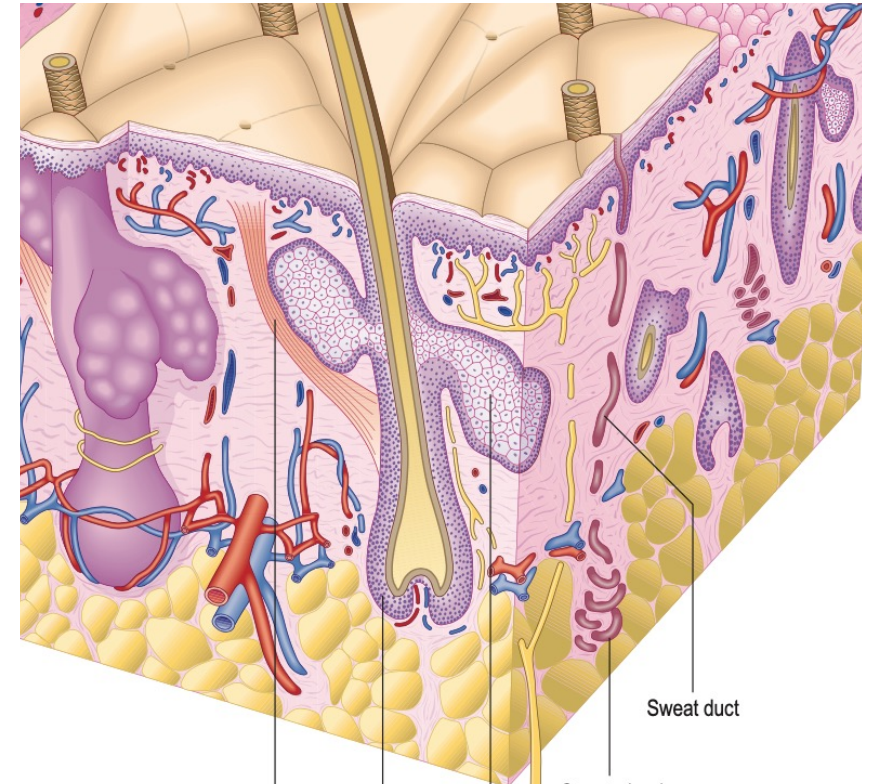
A. Merocrine



B. Apocrine

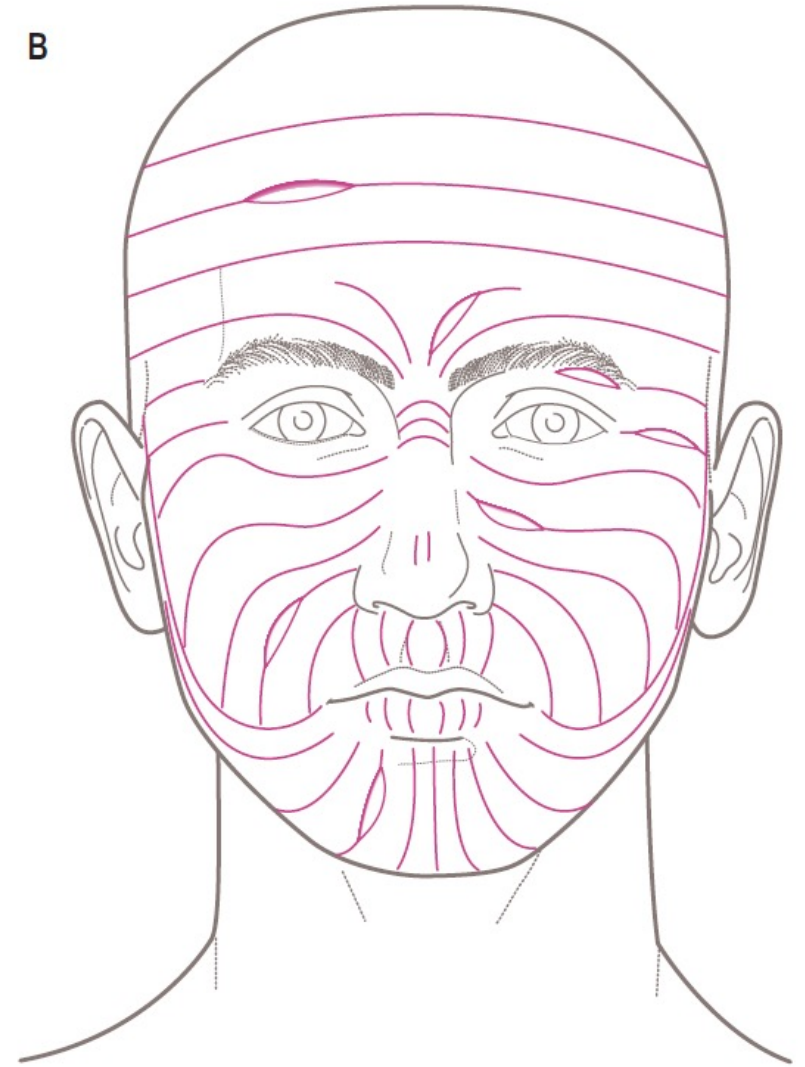
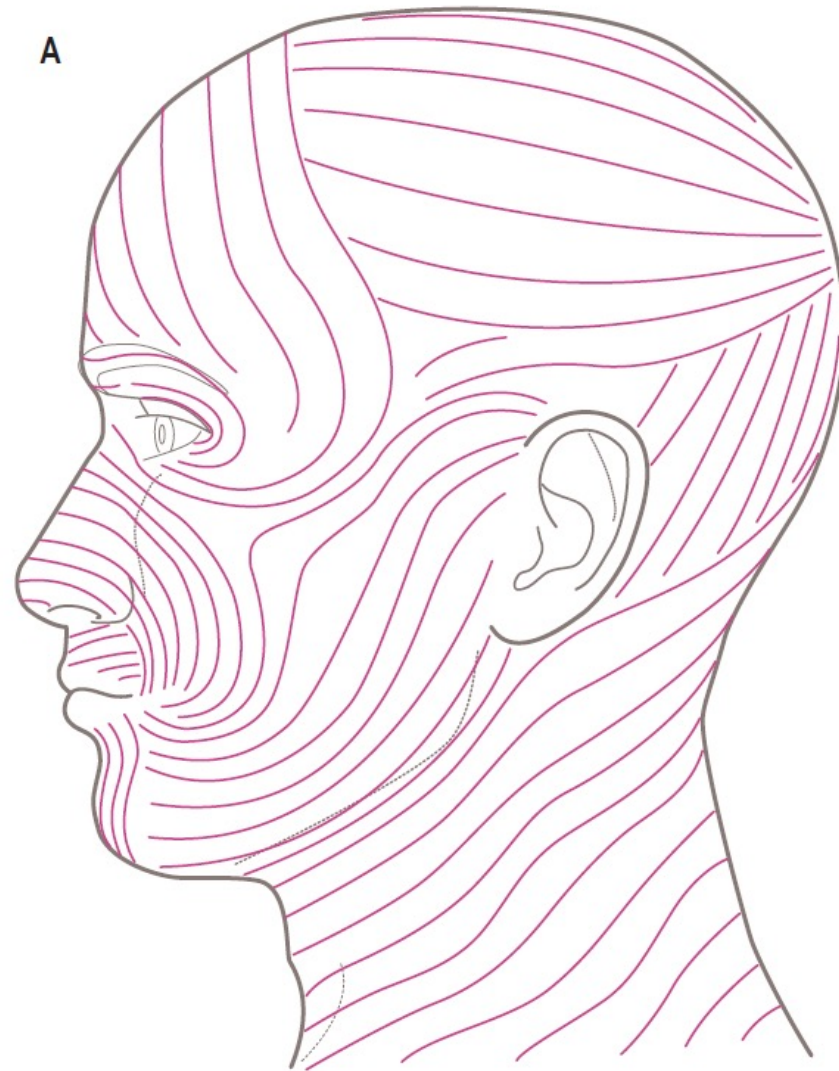


C. Holocrine



Cutting lines

- Papillae cutis
- Cutting lines



Grey's Anatomy, 41th ed.

Receptory

♦ Free nerve endings – unmyelinated

- ♦ Termoreceptors, unimodal and multimodal nociceptores - pain detection – irritation and cell destruction
- ♦ Fine mechanoreceptors – Merkel tactile endings – slow adaptation

♦ *Meissner corpuscle*

- ♦ *Papillary parts of hands and feet, forearm, eyelids*
- ♦ *Ventral part of finger 24/cm²*
- ♦ *Sensitive to shape and texture*

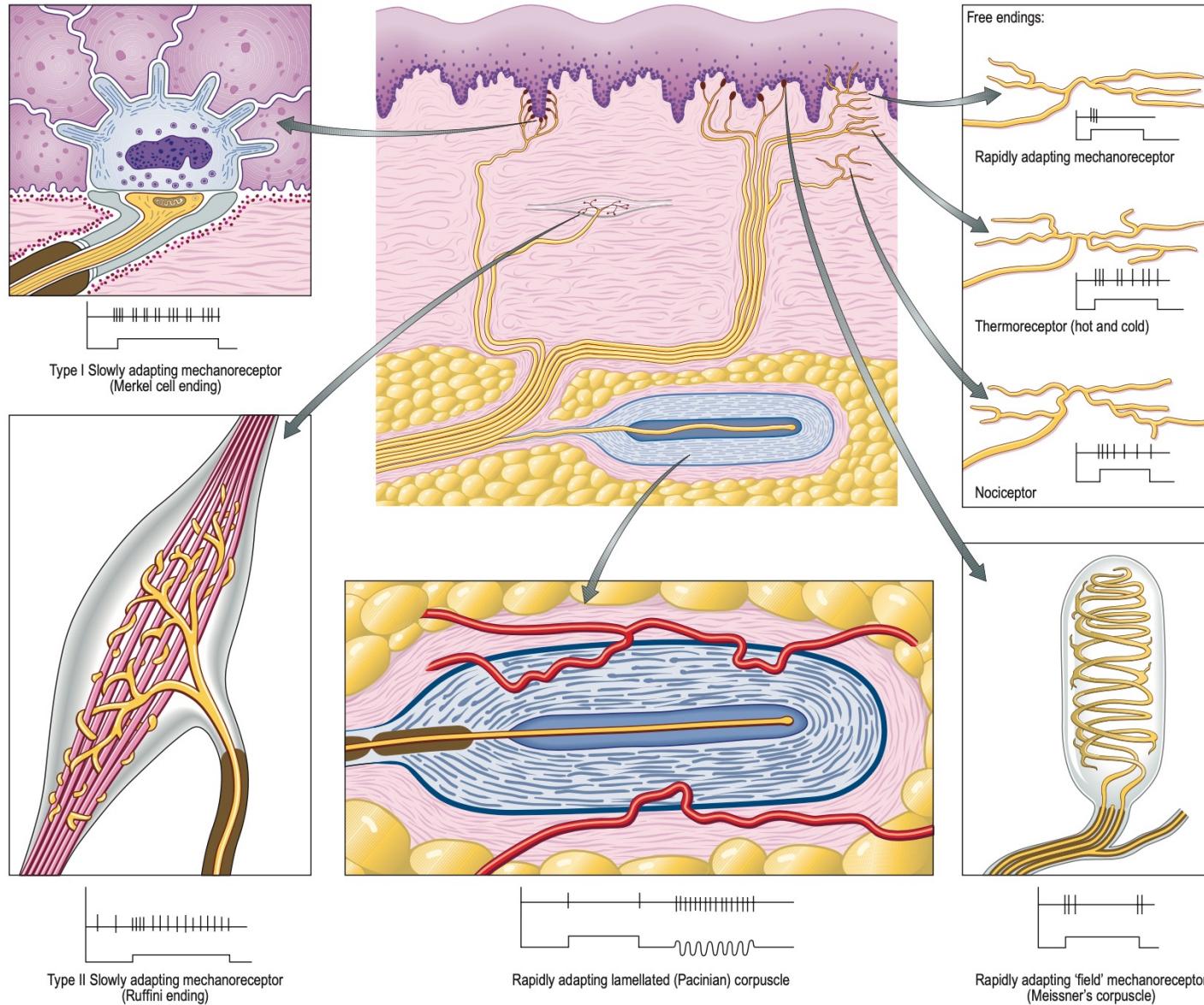
♦ *Paccini corpuscle*

- ♦ *Papillary parts of hands and feet, forearm, eyelids, genitals, nipples, mesentery*
- ♦ *Fast adaptation, sensitive to oscillation, vibration – unmyelinated ending with lamellary structure*

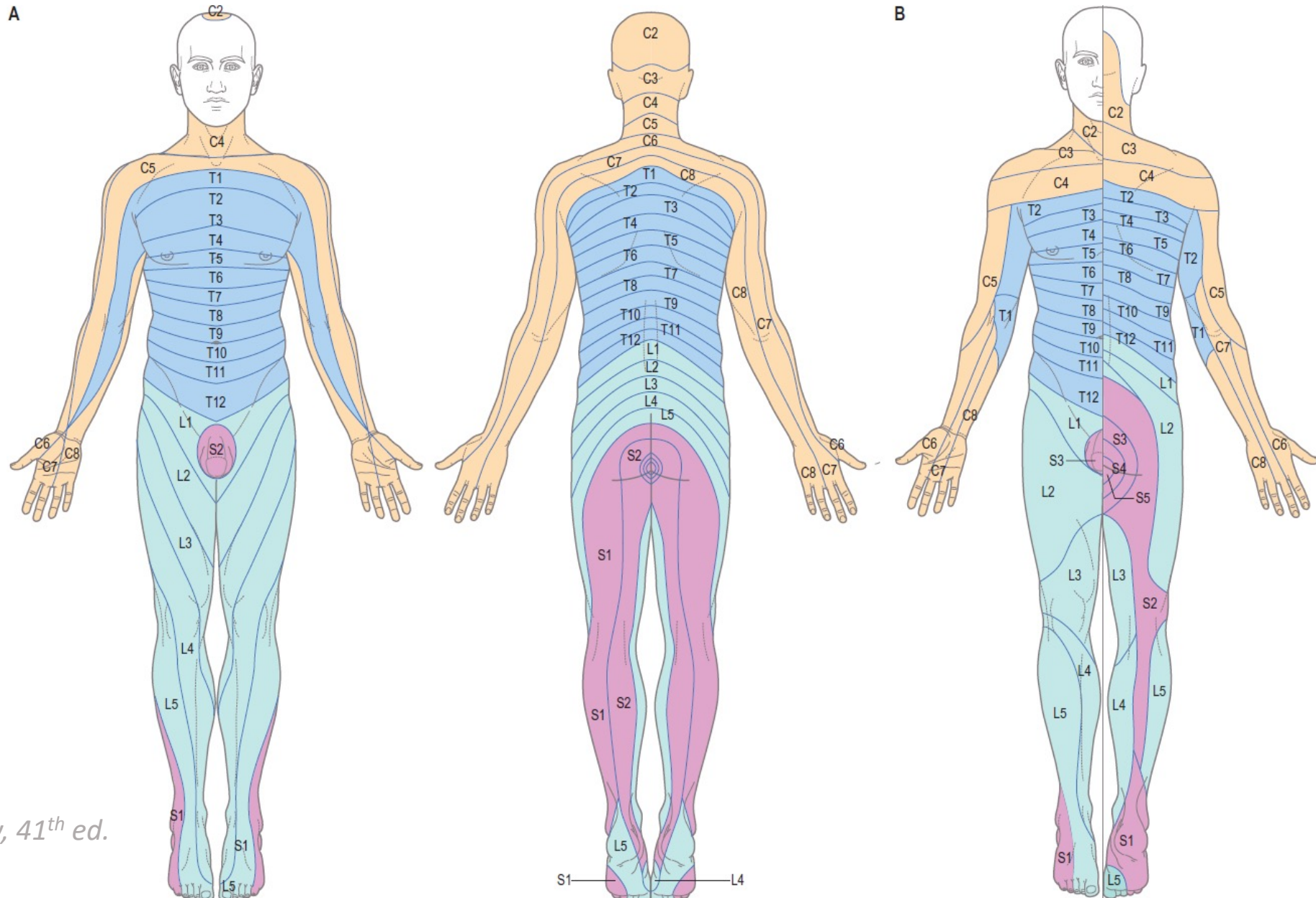
♦ *Ruffini ending*

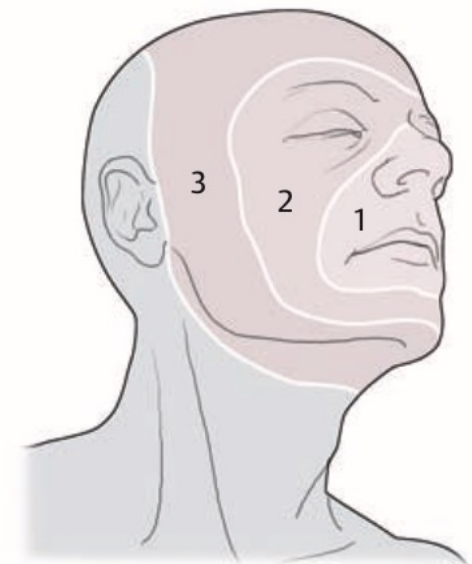
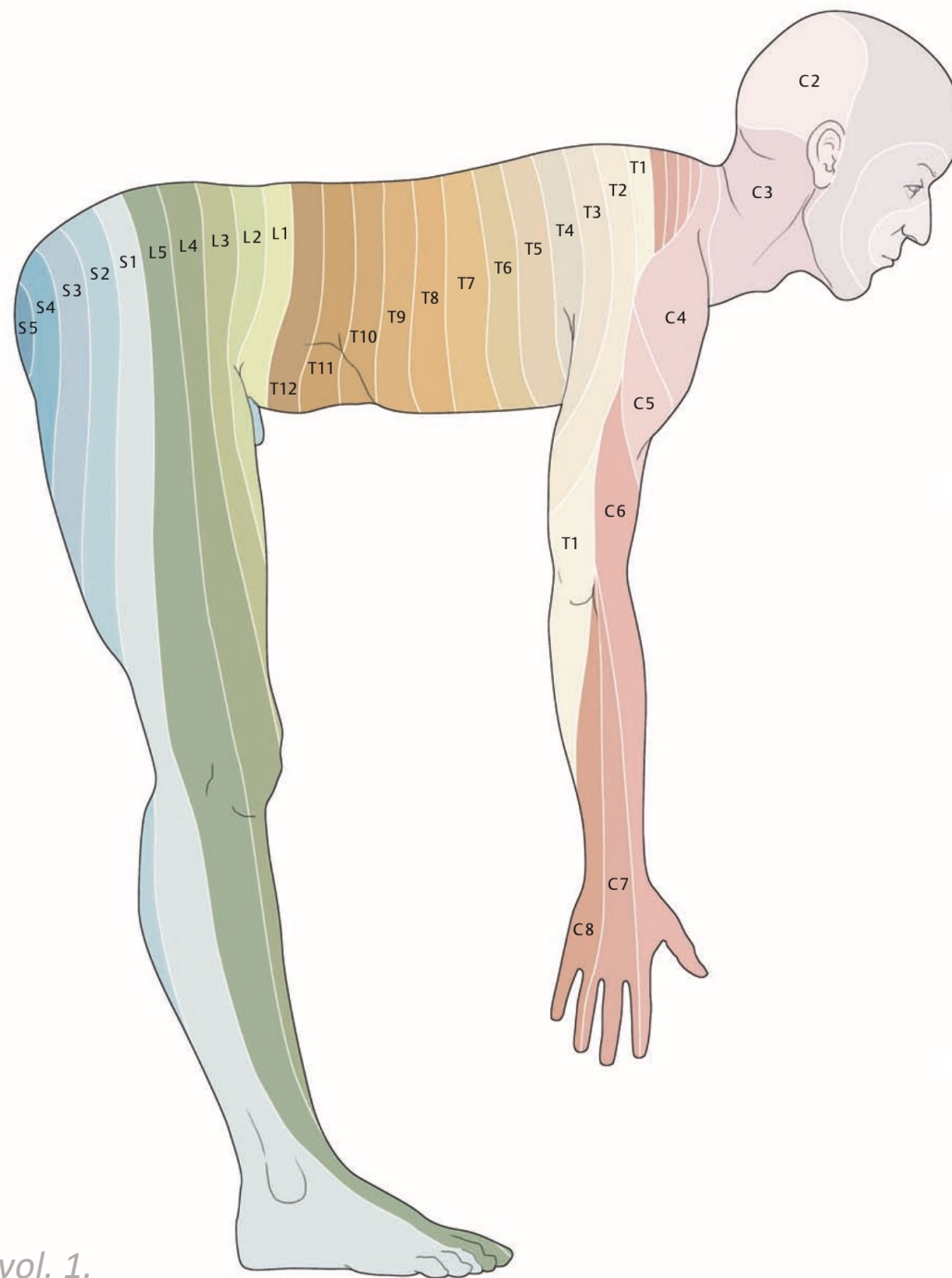
- ♦ *Slowly adapting, tension of dermis, fibrocellular sheet – perineurium derivative*
- ♦ *Similar to Golgi tendon organ – ending is branched in between collagenous fibers*

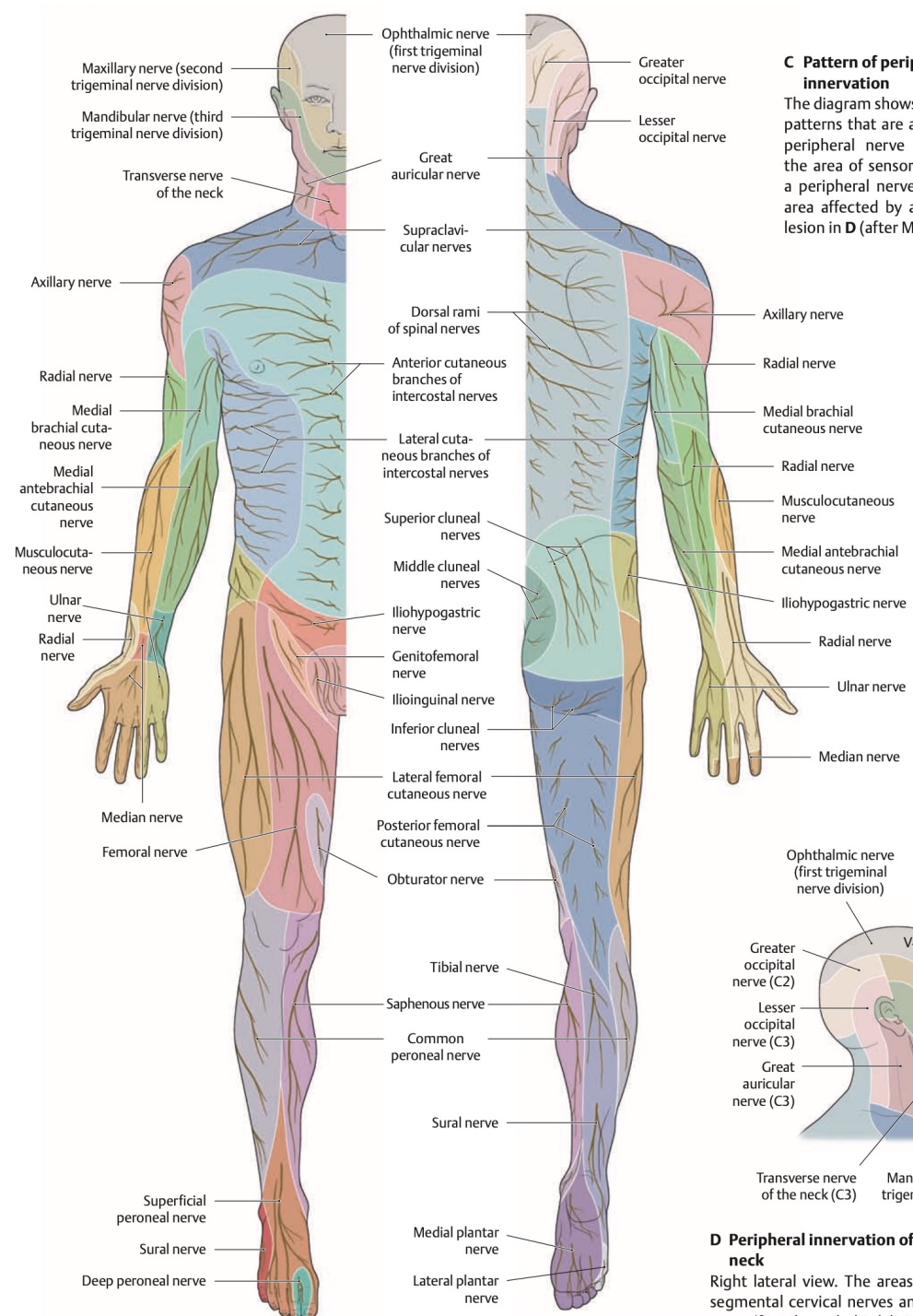
receptores



dermatomes

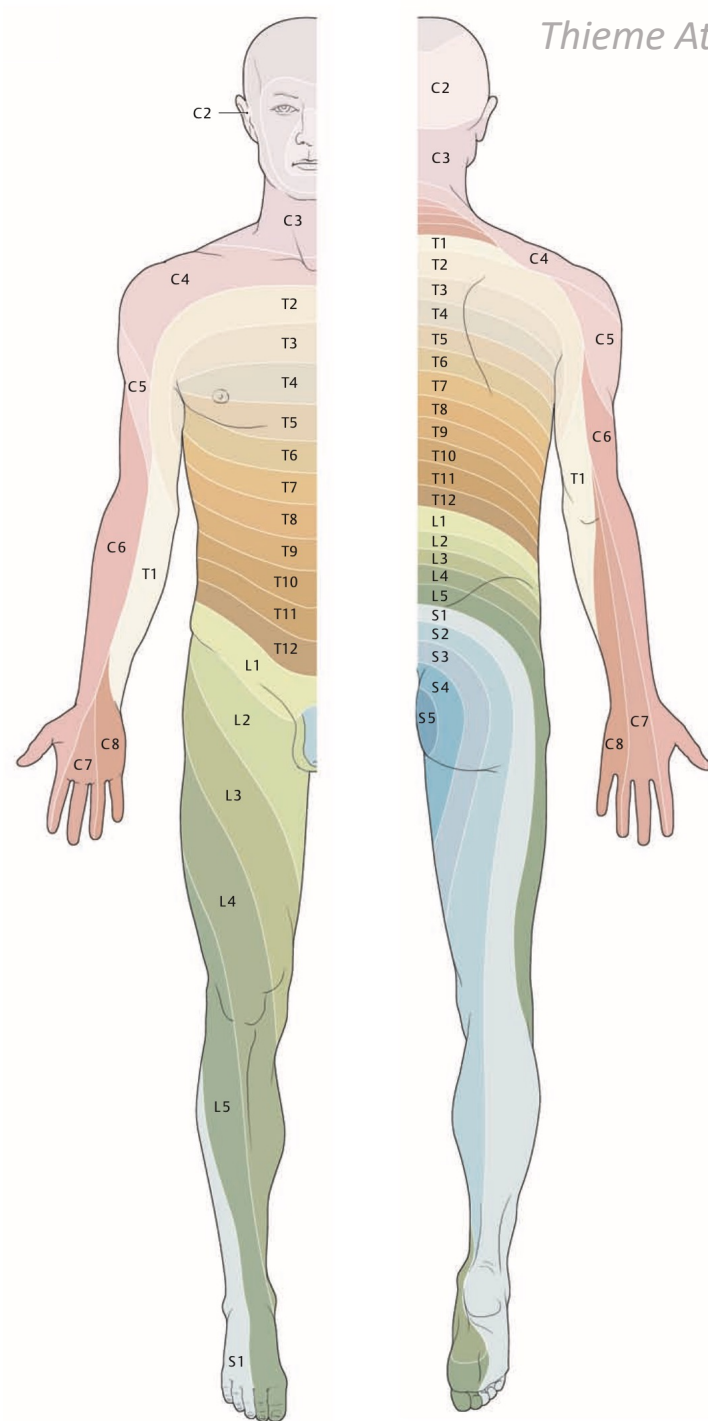
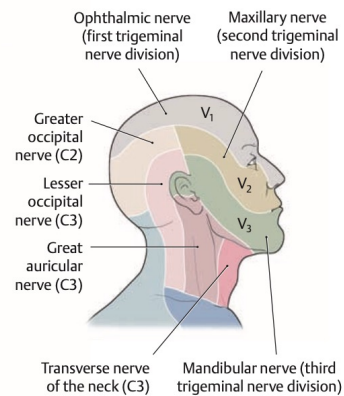






D Peripheral innervation of the head and neck

Right lateral view. The areas supplied by the segmental cervical nerves and the trigeminal nerve (first through third divisions) intersect in



Integumentum

