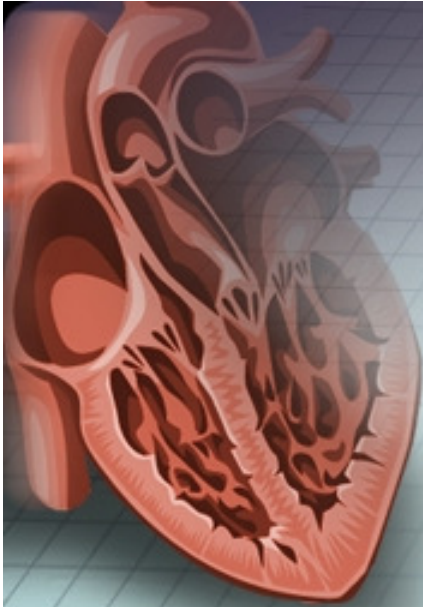


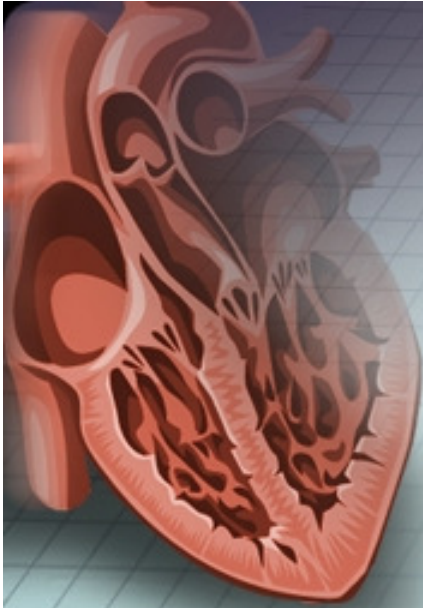
ANATOMI & FISIOLOGI

TIM KLINIK TERAPI
FIK UNY



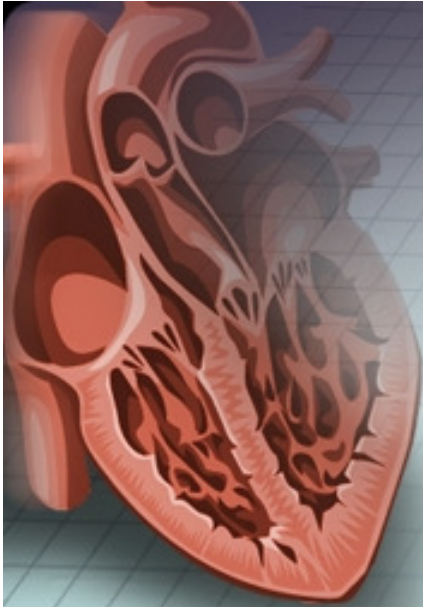
KULIT

- Organ tubuh paling luar
- Luas kulit org dewasa 1,5 m²; dg berat kira-kira 15% BB.
- Mrp organ esensial & vital
- Mrp cermin kesehatan & kehidupan
- Bervariasi dlm hal warna, lembut, tipis, tebalnya.



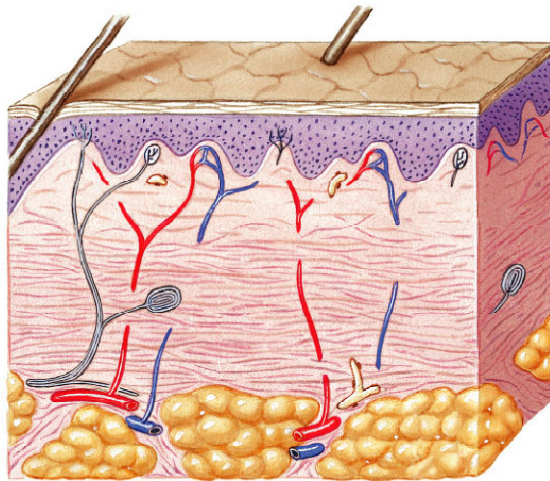
KULIT

- Kulit putih, bersih, cerah → sebagian dr konsep kecantikan wanita Indonesia.
- Mrp peluang bisnis bagi produsen kosmetik, salon kecantikan, bahkan klinis medis.
- Penggunaan pemutih & efek sampingnya mrp masalah kesehatan



Warna Kulit

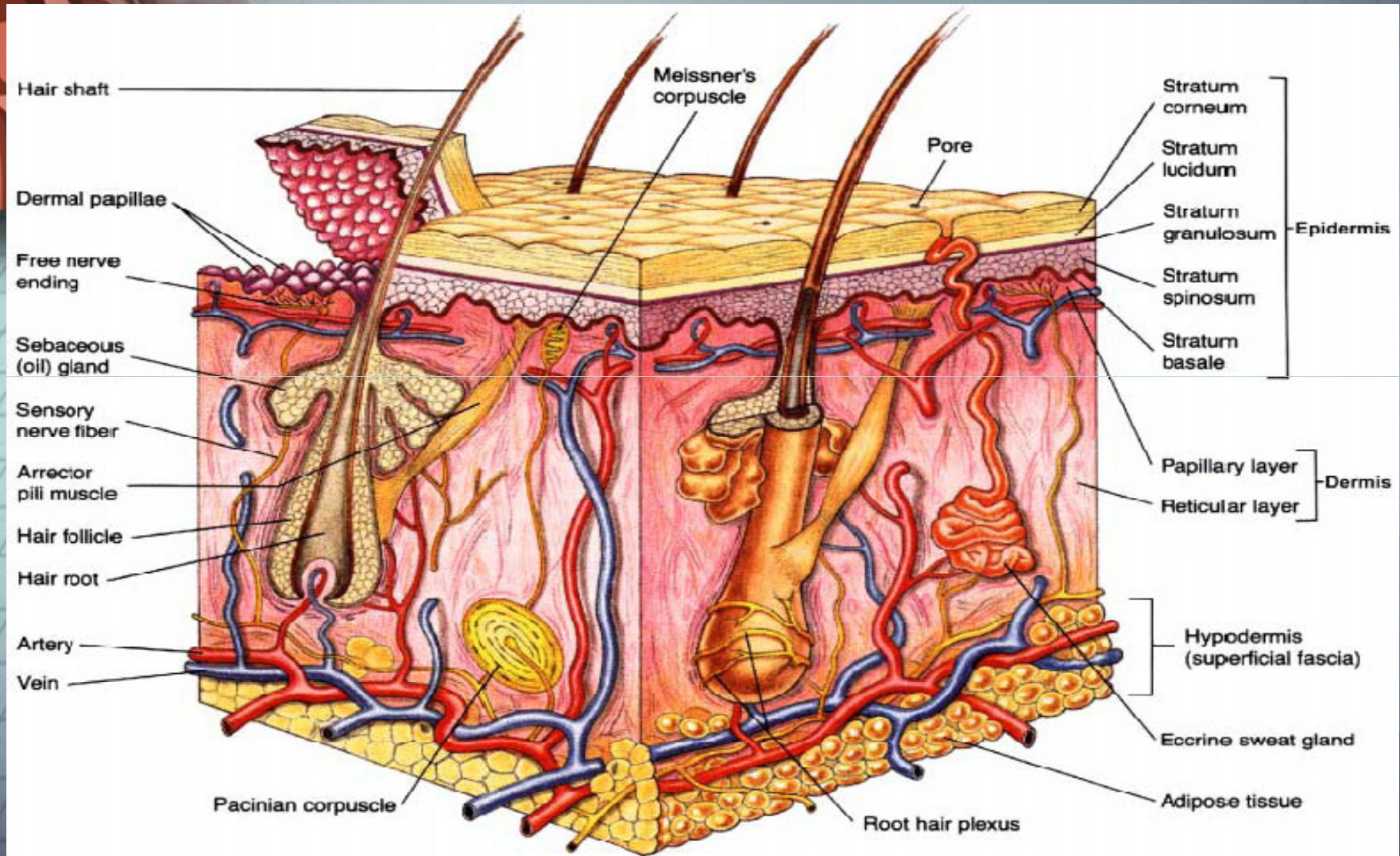
- Merupakan hasil kombinasi berbagai pigmen →
- Warna kuning: beta karoten
- Warna merah: oksihemoglobin
- Warna biru: hemoglobin yg tereduksi
- Warna coklat: pigmen melanin (berperan paling besar).

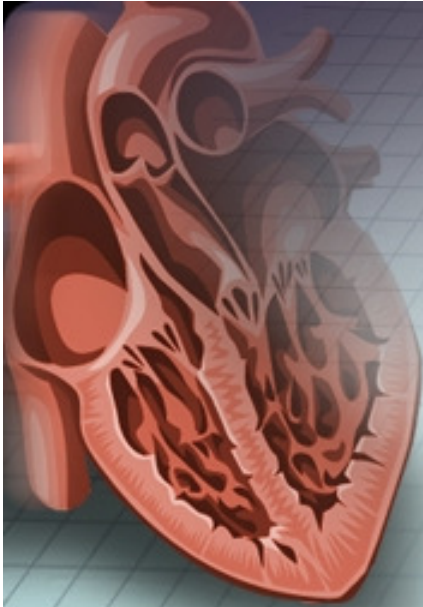


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ANATOMI KULIT





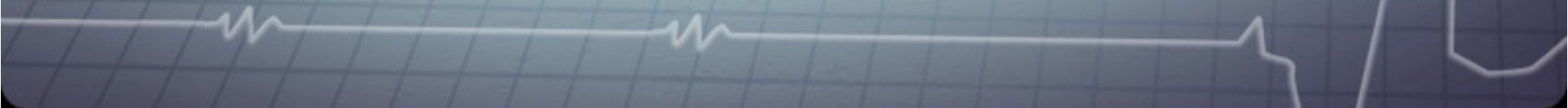
Kulit

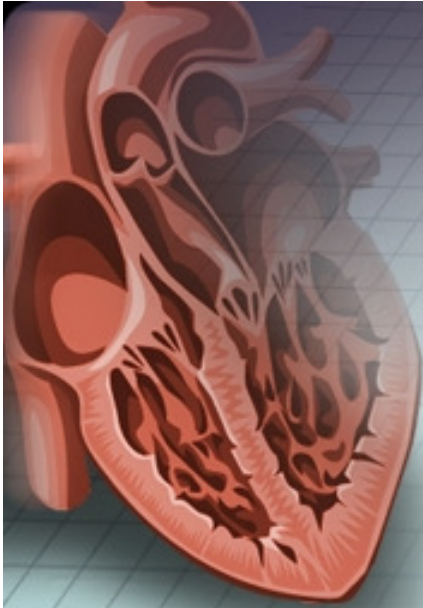
- Ada 3 lapisan utama:
 1. Lapisan epidermis
 2. Lapisan dermis
 3. Lapisan subkutis





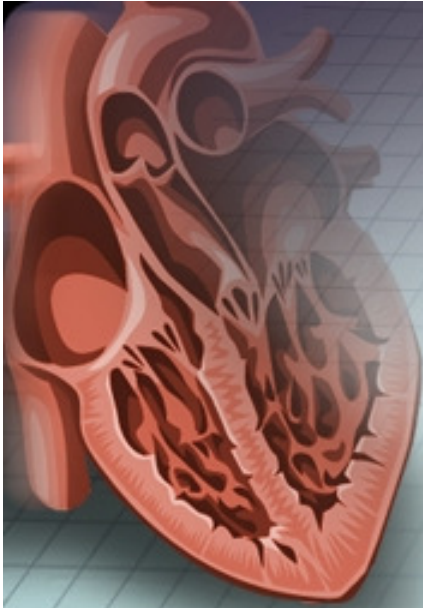
SEL-SEL KULIT PD EPIDERMIS

- **Keratinosit:** sel epitel yg membelah, tumbuh, & bergerak ke atas → membentuk lapisan pelindung tubuh.
 - **Melanosit:** di bagian basal epidermis → membentuk pigmen melanin yg memberi warna gelap pd kulit. Pemaparan kulit thd sinar matahari merangsang pembentukan melanin
 - **Sel Langerhans:** pd respon imun
 - **Sel Merckel:** mekanoreseptor
- 



FUNGSI KULIT

- Perlindungan: epitel berlapis gepeng berlapis tanduk (keratin) pd epidermis kulit → melindungi permukaan tubuh thd berbagai gesekan, mikroorganismen, & mencegah hilangnya cairan tubuh scr berlebihan.
- Pengaturan suhu → antara lain mll mekanisme berkeringat.
- Indera peraba (persepsi sensoris): thd suhu, sentuhan, nyeri, & tekanan.
- Pembentukan vitamin D



Kelenjar tambahan pd kulit

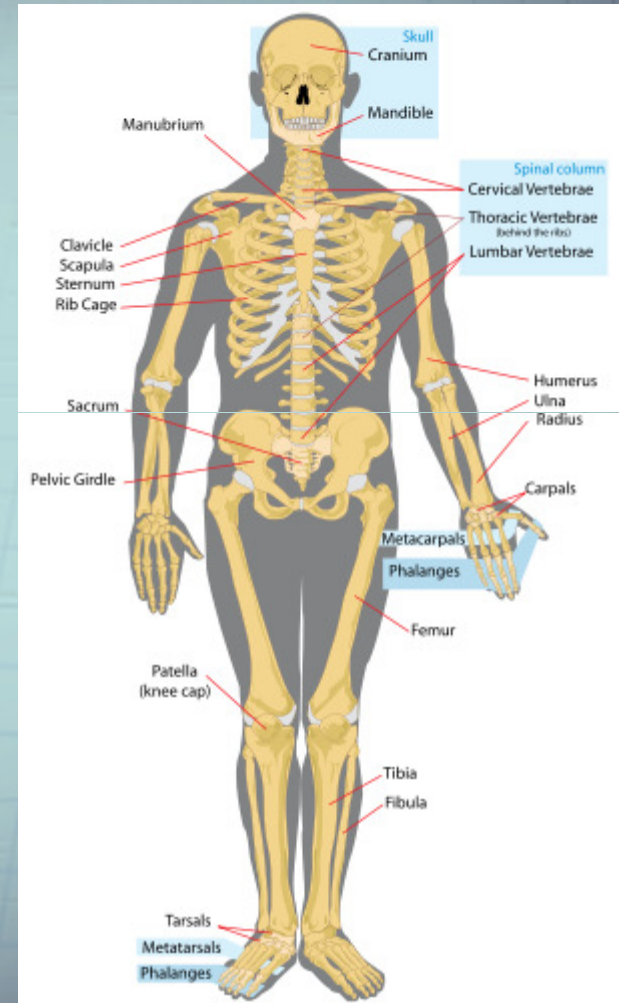
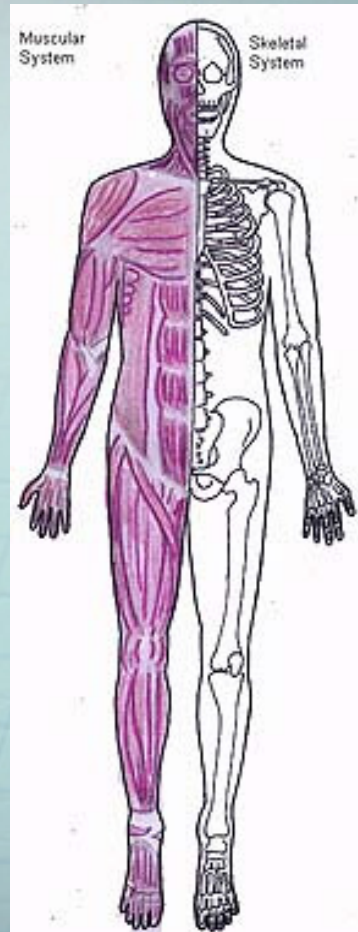
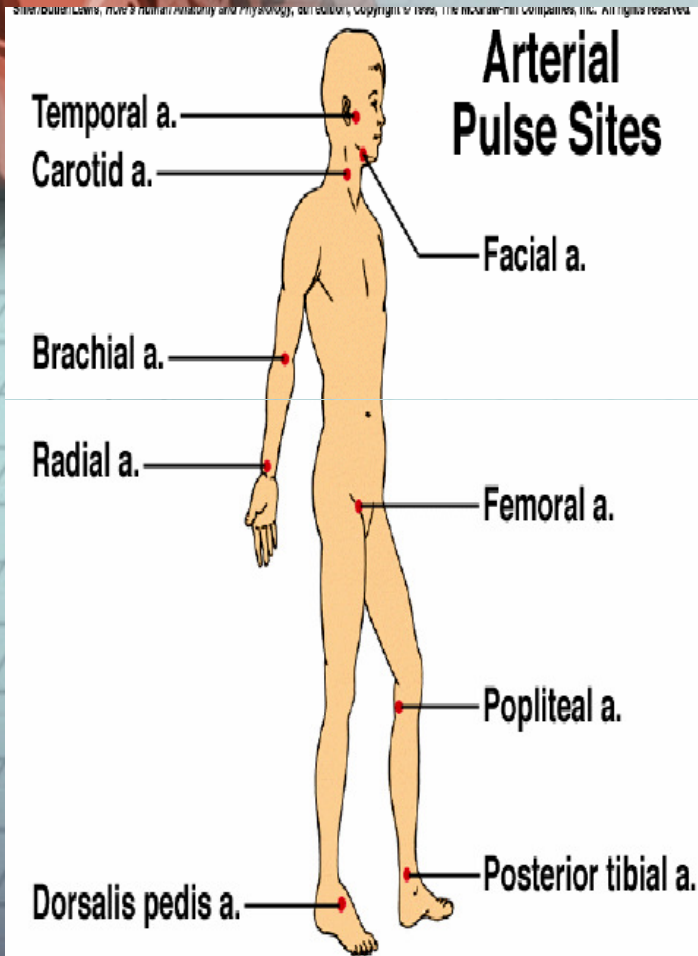
1. Kelenjar Kulit

- Kelenjar keringat (glandula sudorifera)
- Kelenjar minyak (glandula sebacea)

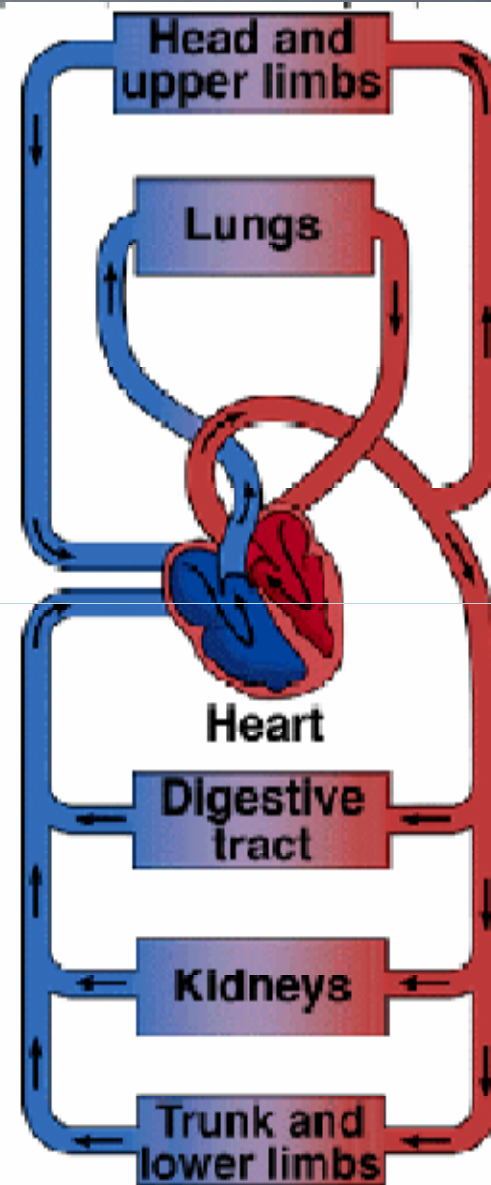
2. Rambut

3. Kuku

SISTEM MUSKULOSKELETAL

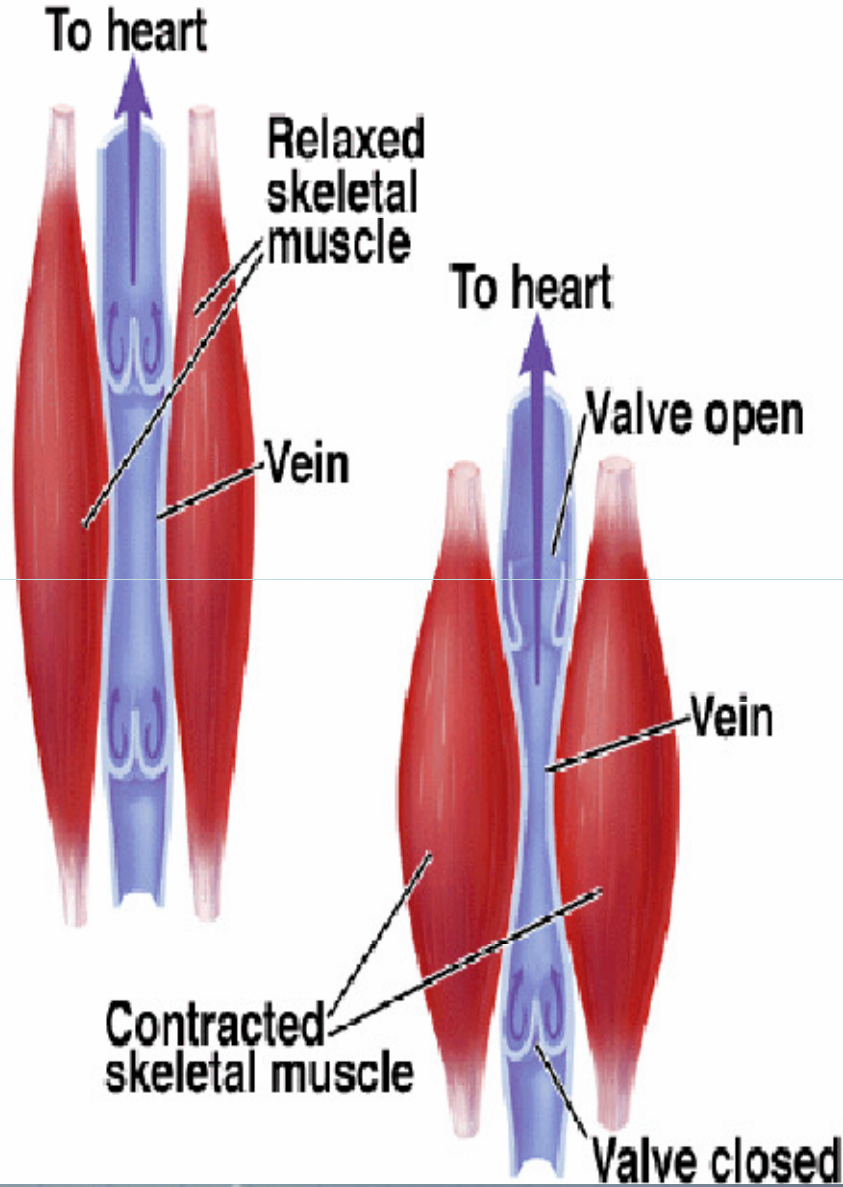


Cardiovascular System Schematic



Shier/EuterLemis, *Hole's Human Anatomy and Physiology*, 8th edition, Copyright © 1999, The McGraw-Hill Companies, Inc. All rights reserved.

Venous Blood Flow



Heart and Main Vessels—Anterior (1)

Superior vena cava

Right pulmonary artery

Branches of right
pulmonary veins

Right auricle

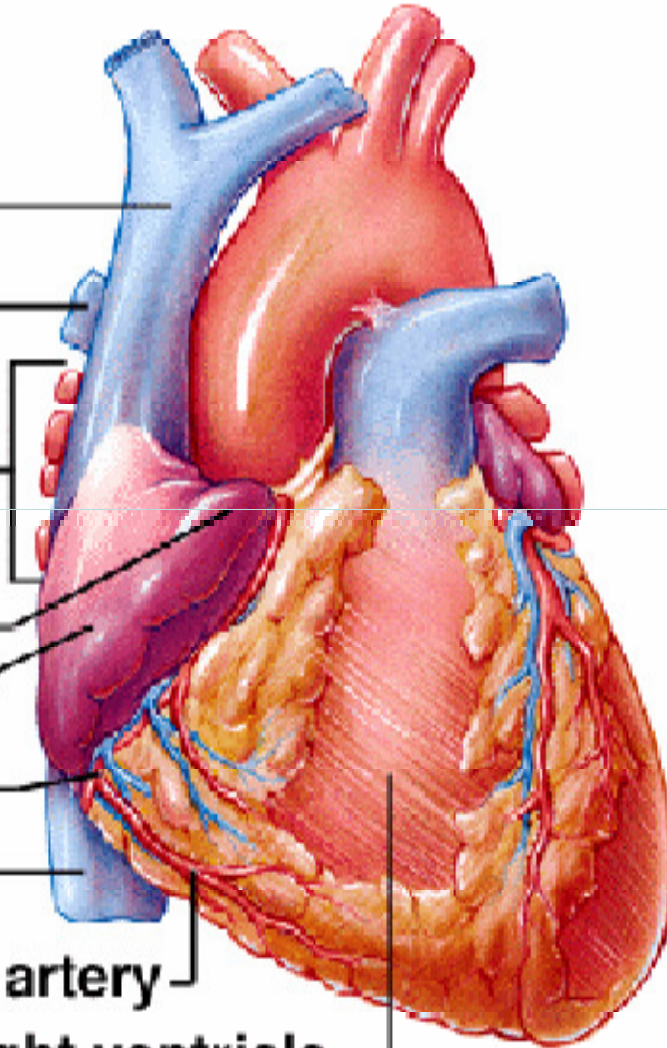
Right atrium

Right coronary artery

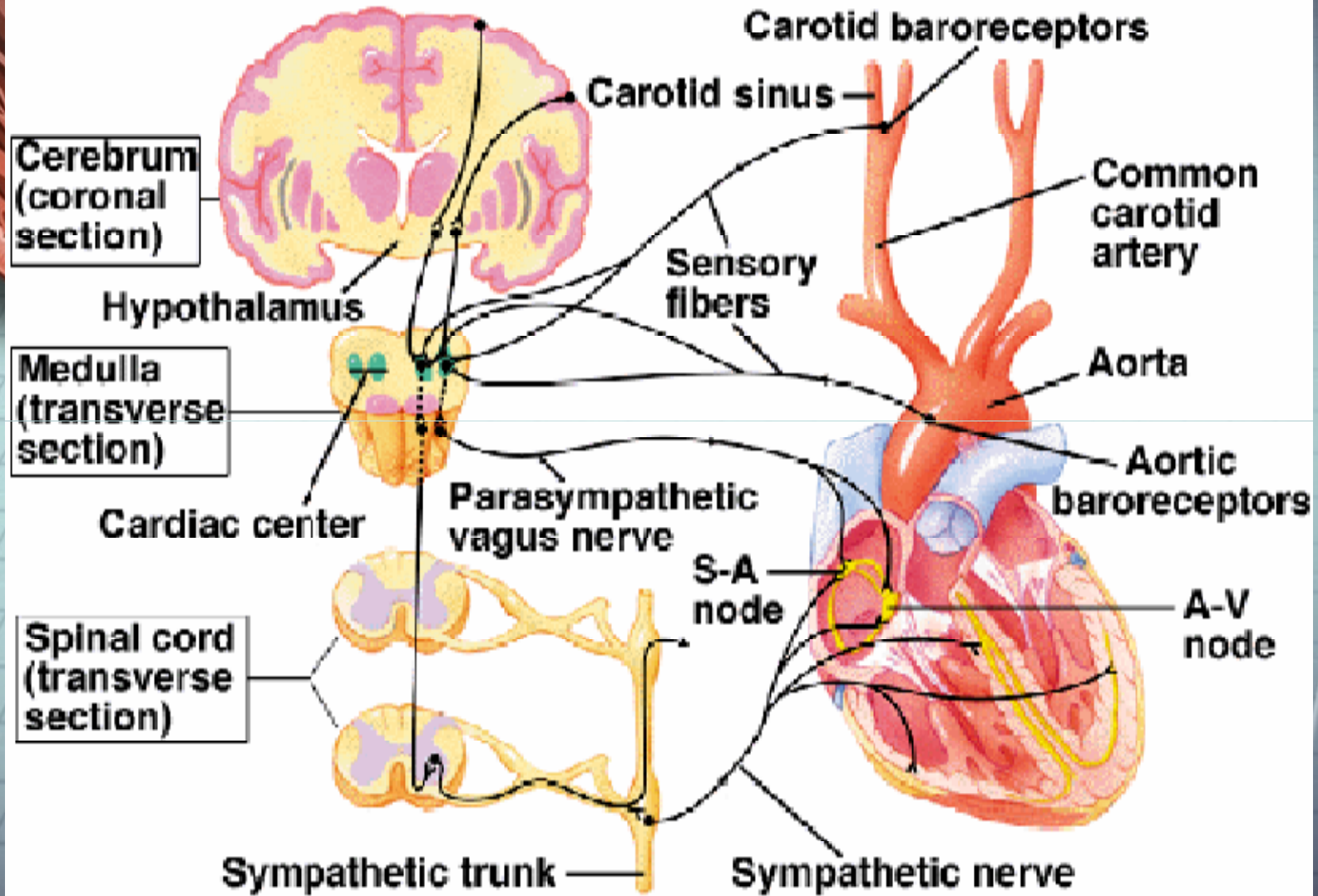
Inferior vena cava

Marginal artery

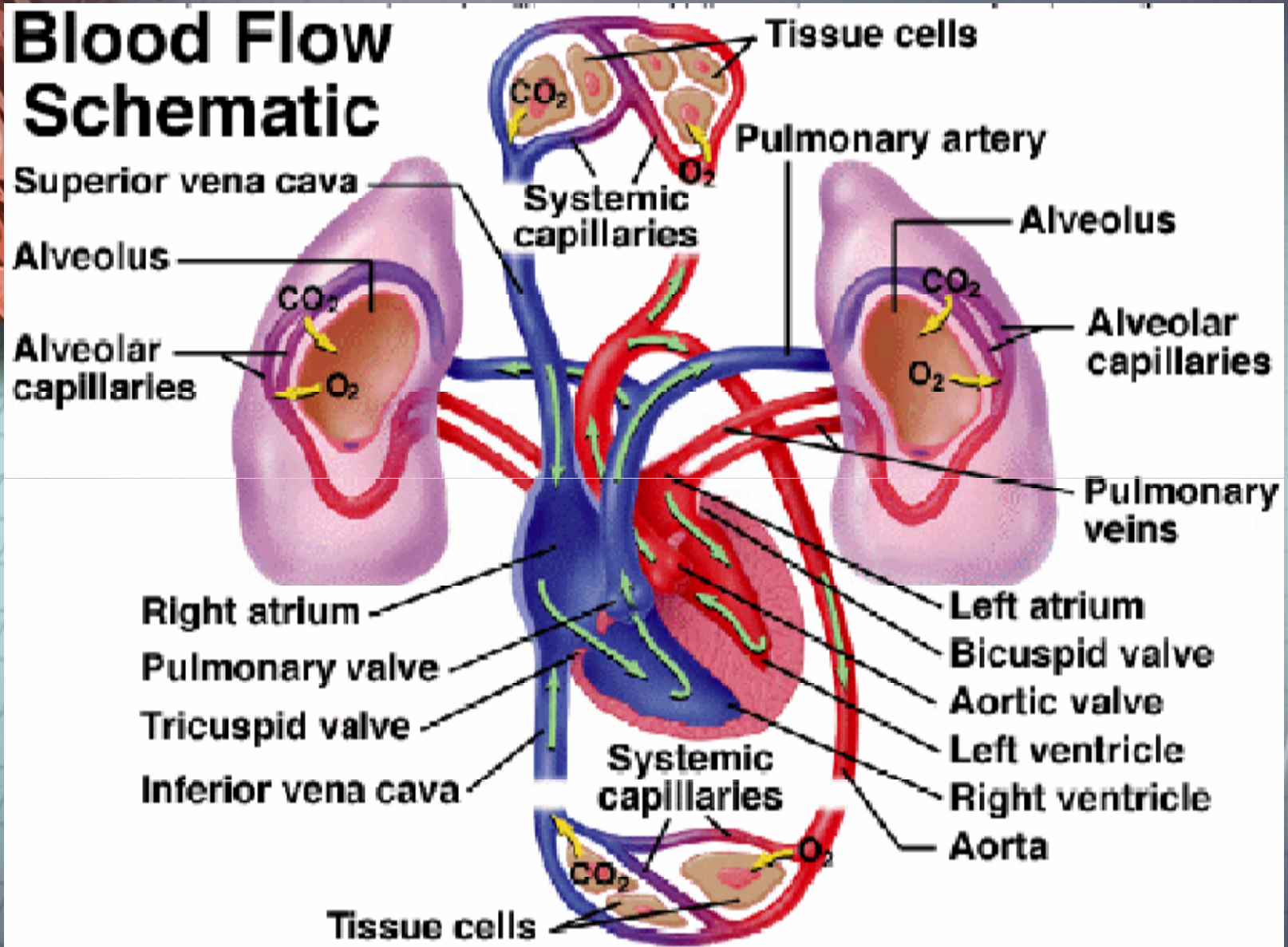
Right ventricle



Heart Rate Control

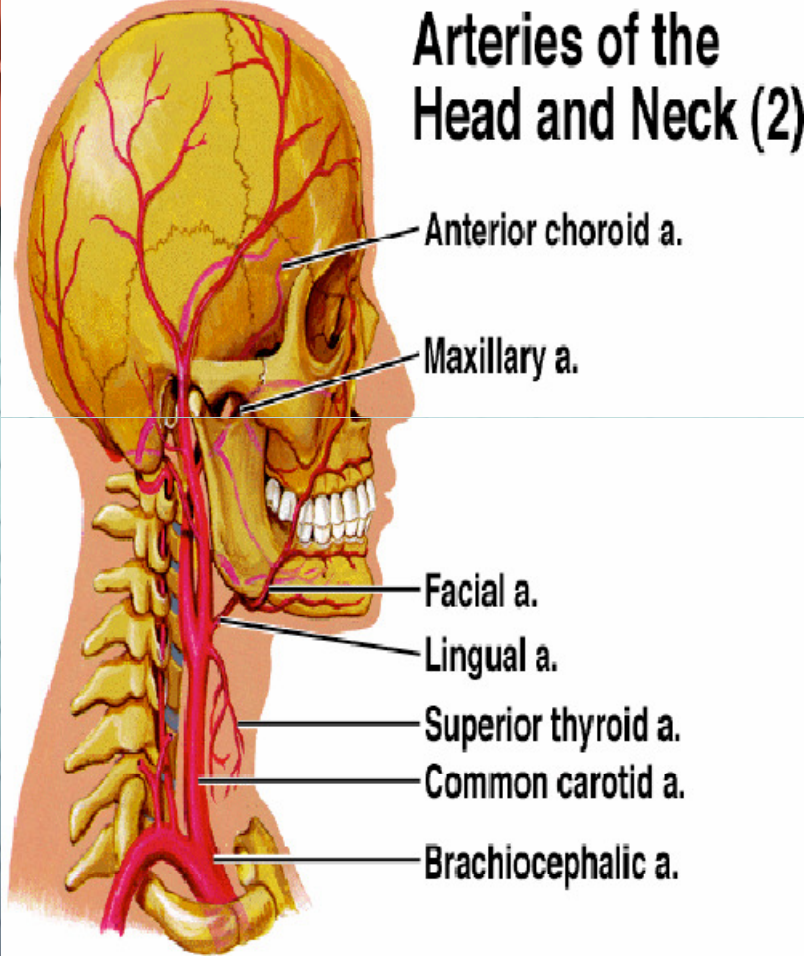


Blood Flow Schematic



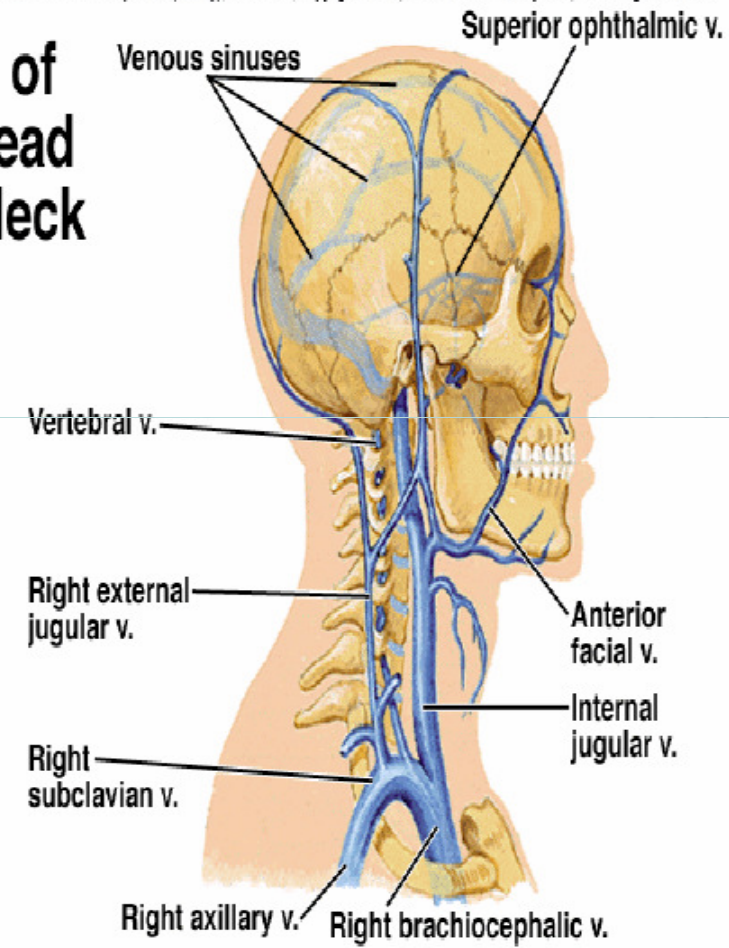
Shier/Euter/Lewis, *Hole's Human Anatomy and Physiology*, 8th edition, Copyright © 1998, The McGraw-Hill Companies, Inc. All rights reserved.

Arteries of the Head and Neck (2)

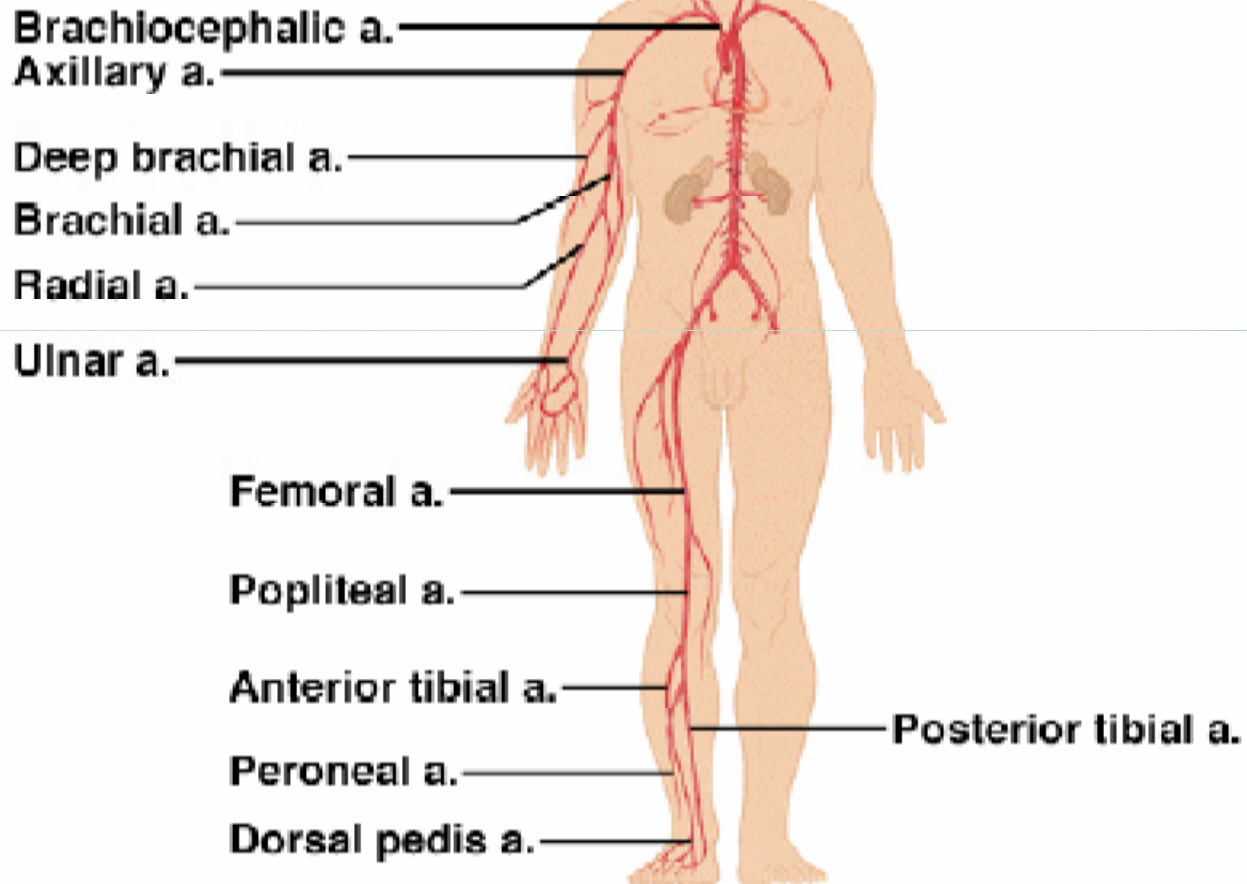


Shier/Euter/Lewis, *Hole's Human Anatomy and Physiology*, 8th edition, Copyright © 1998, The McGraw-Hill Companies, Inc. All rights reserved.

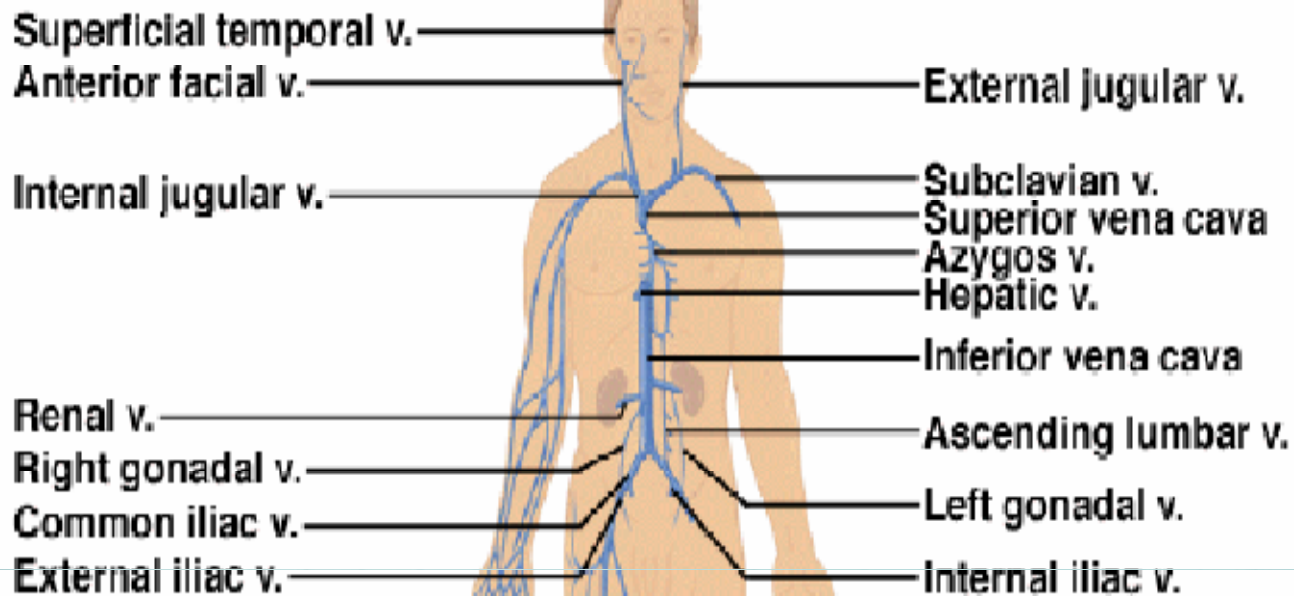
Veins of the Head and Neck



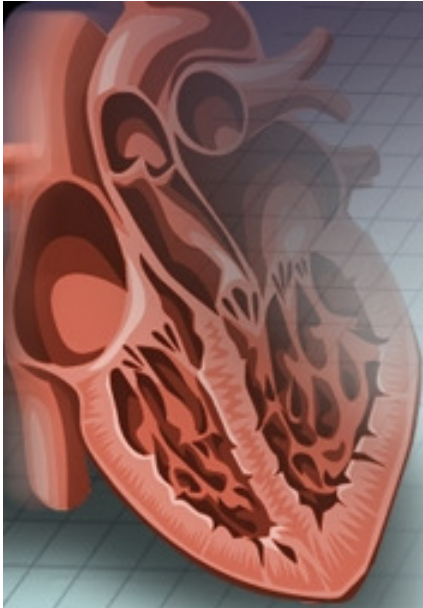
Arterial System (2)



Sherrilyn Lewis, *Text of Human Anatomy and Physiology*, 8th edition, Copyright © 2009, The McGraw-Hill Companies, Inc. All rights reserved.



Venous System (1)



Efek Fisiologis Massage

- Memperlancar aliran darah, terutama aliran darah balik & sistem limfatik.
- Sebagai exercise pasif utk jaringan lunak
→ reseptor di area yg dipijat distimulasi → serangkaian impuls listrik → sistem saraf pusat → stimulasi tubuh utk bereaksi
→ misal: vasodilatasi (pembuluh darah melebar), suplai darah ke jaringan tubuh meningkat, ketegangan otot hilang, dll.

