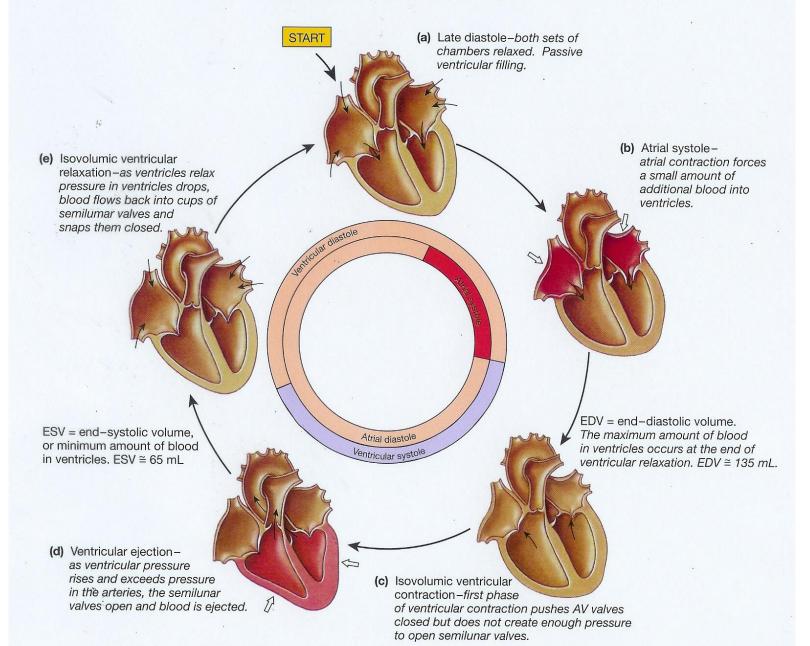
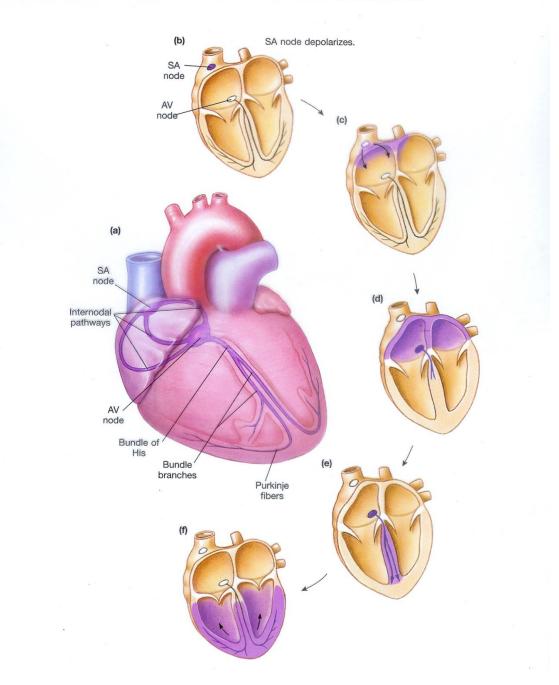
Cardiovascular System

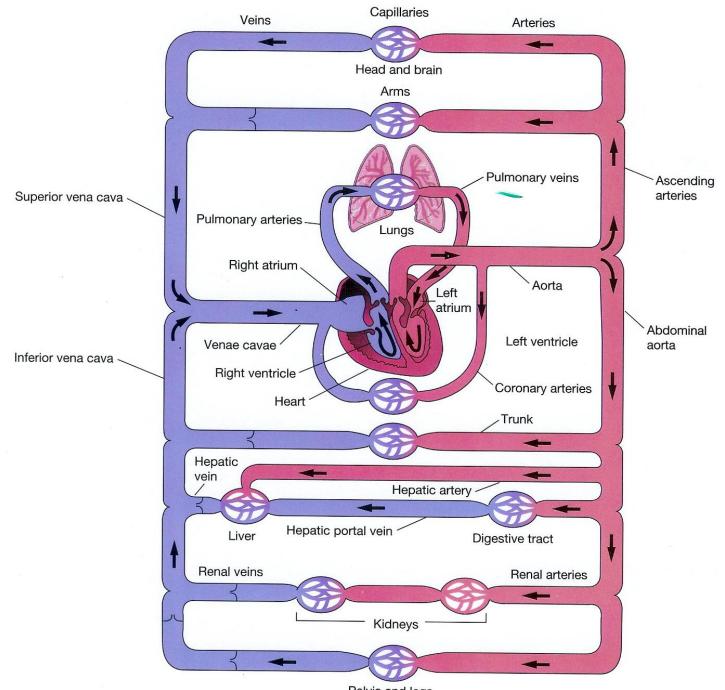


Fig. 14-25 The cardiac cycle

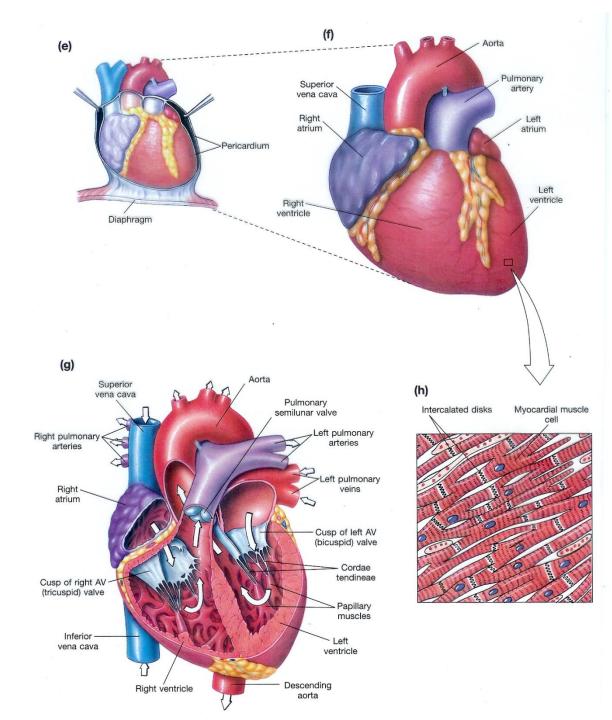


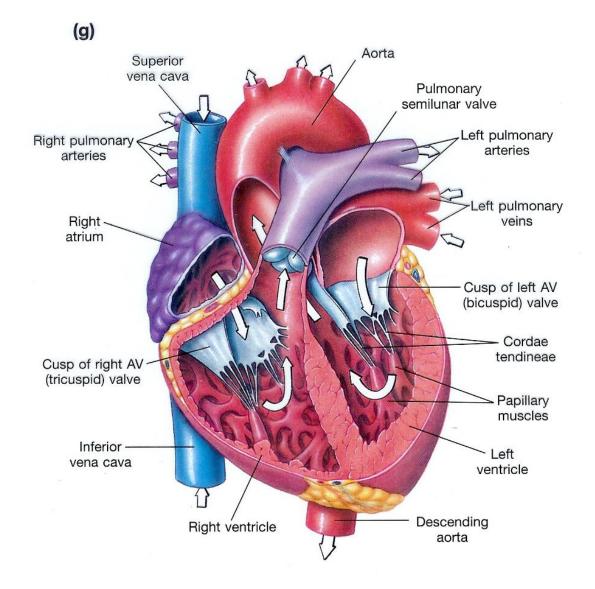


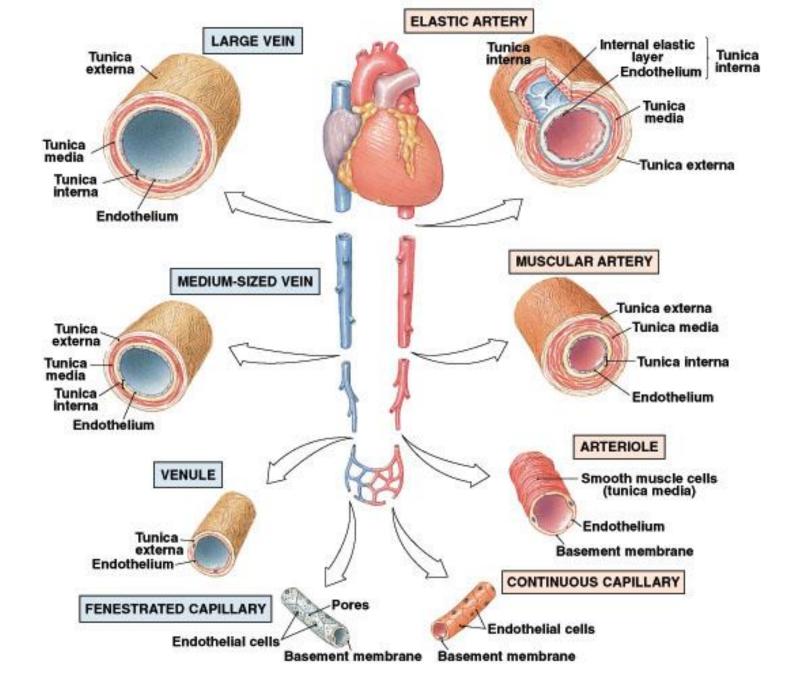
T-128

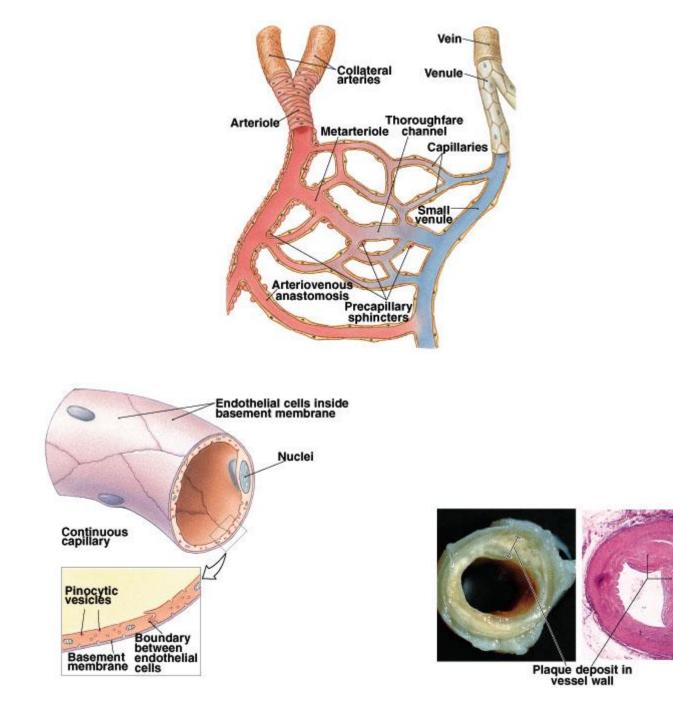


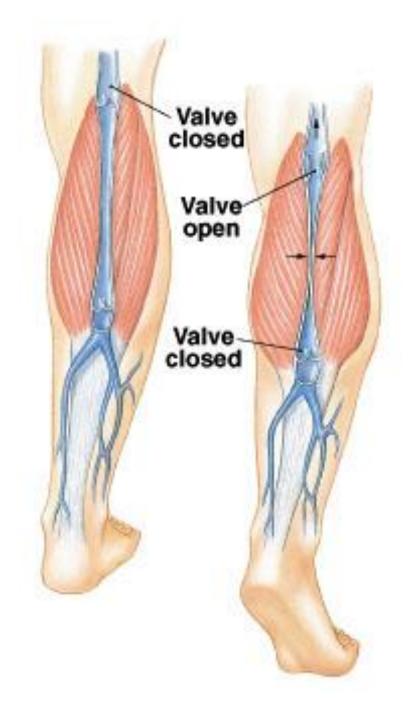
Pelvis and legs

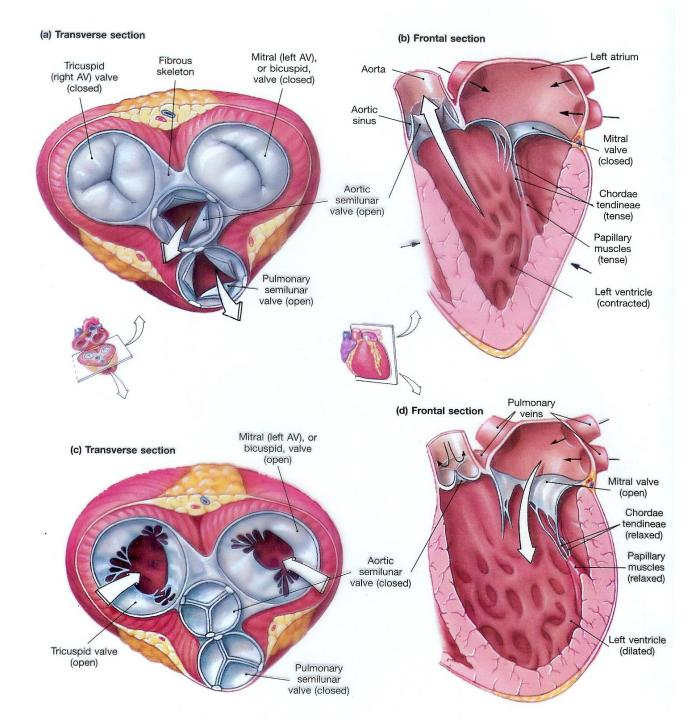




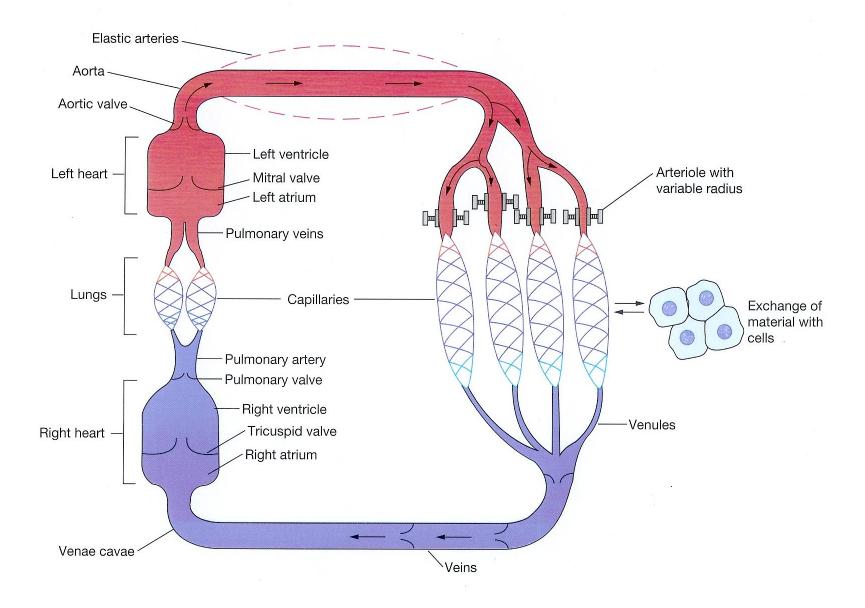




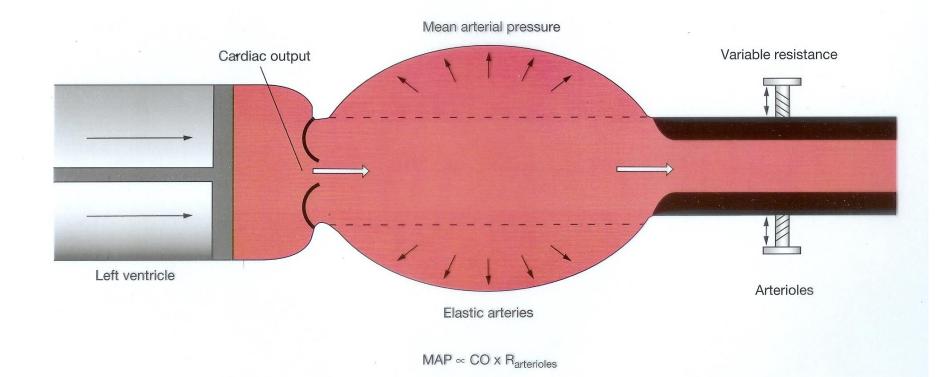








F-138 Fig. 15-8 Mean arterial pressure is a function of cardiac output and resistance in the arterioles



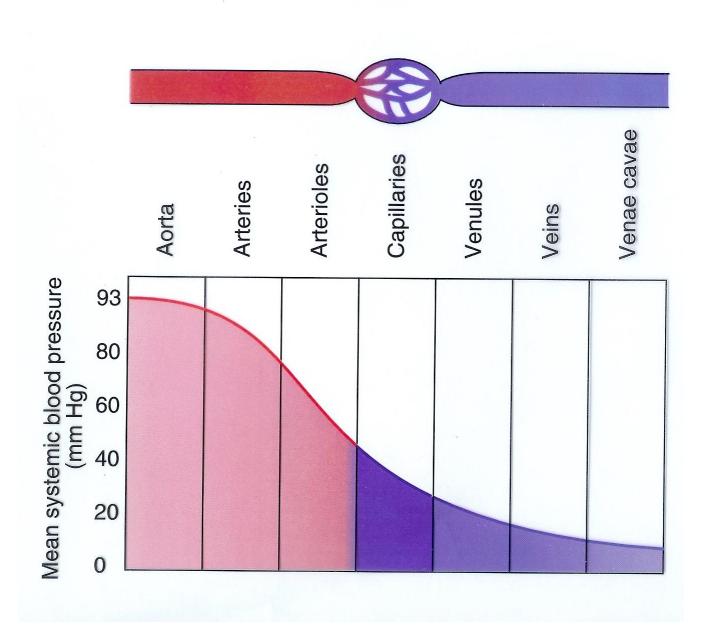
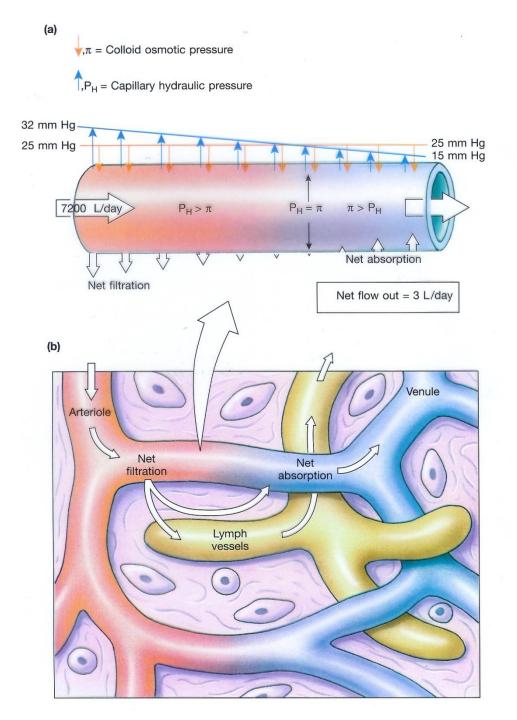
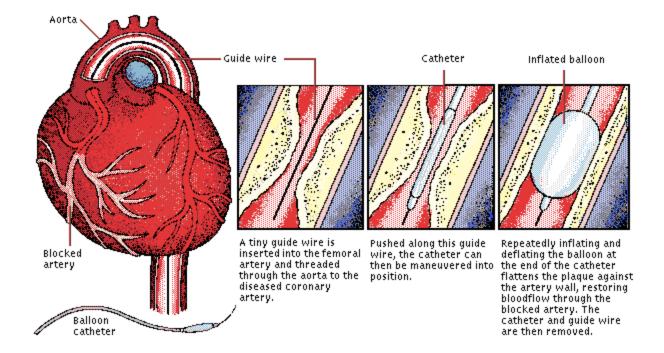


Fig. 14-2 Pressure gradient in the blood vessels





One of the most prevalent causes of heart attack is the buildup of plaque in the arteries leading to the heart. Balloon angioplasty is a common surgical treatment for this condition. If successful, the procedure eliminates the need for more involved surgery such as coronary bypass.

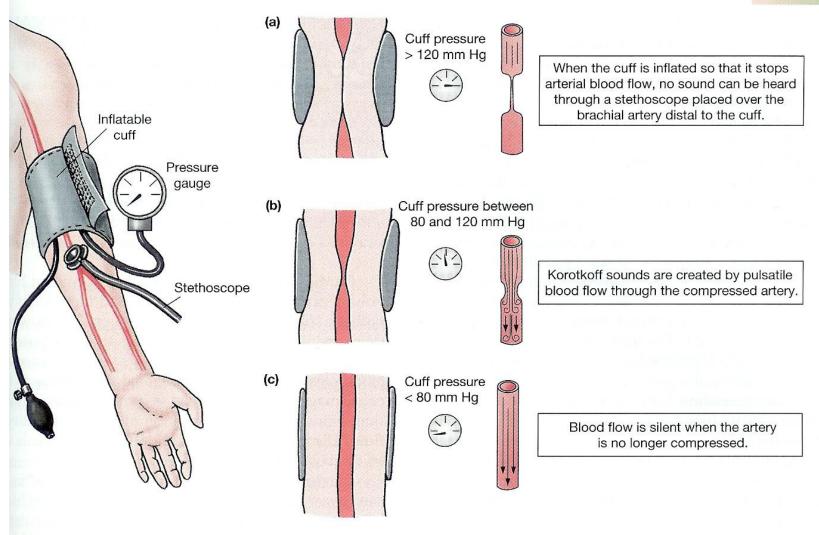
b. Maintenance of arterial blood pressure:

1) Rate of the heart beat and force of the contraction

- 2) Elasticity of the vessel walls
- 3) Peripheral resistance
- 4) Blood volume
- 5) Blood viscosity

BLOOD PRESSURE

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igure 15-7 Measurement of arterial blood pressure Arterial blood pressure is measured with a sphygmomanometer, conng of an inflatable cuff and a pressure gauge, and a stethoscope.

Normal BP= 120/80 mm Hg Abnormal: Sys >140 and Dia >90 mm Hg