Assessment and Management of Patients With Vascular Disorders and Problems of Peripheral Circulation

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Vascular System

- Arteries and arterioles
- Capillaries
- Veins and venules
- Lymphatic vessels

Function of the vascular system
- Provide conduits for blood from heart & lungs
- Carry cellular waste
- Allow lymphatic flow to drain tissue fluid back into circulation
- Return blood to heart
Progression of Atherosclerosis

Fatty streak
Fibrous plaque
Complicated lesion: Hemorrhage Ulceration Calcification Thrombosis
Thrombus
Infarction
Stroke
Gangrene
Range of clinical symptoms
Common Sites of Atherosclerotic Obstruction
Characteristics of Arterial Aneurysms

A permanent localized dilation of an artery
Repair of an Ascending Aortic Aneurysm

Figure 38-4, pp. 896
Blood Flow & Function of Valves in Veins

Competent valves showing blood flow patterns when the valve is open and close, allowing blood to flow against gravity.

With faulty or incompetent valves, the blood cannot move toward the heart.
Trendelenburg test: recumbent-life leg

Veins empty

Apply tourniquet
Trendelenburg test

Slow fill from below—COMPETENT VALVES

Rapid fill—INCOMPETENT VALVES