37a Pathology: Circulatory System

37a Pathology: Circulatory System Class Outline

5 minutes Attendance, Breath of Arrival, and Reminders

10 minutes Lecture:

25 minutes Lecture:

15 minutes Active study skills:

60 minutes Total

37a Pathology: Circulatory System Class Reminders

Assignments:

- 41a Review Questions (Packet A: 165-178)
- 43a Swedish: Outside Massages (Packet A: 57-62)

Quizzes and Exams:

- 43a Kinesiology Quiz
 - (adductor magnus, gracilis, iliopsoas, sartorius, TFL, piriformis, quadratus femoris)
- 44a Quiz (33b, 35a, 36a, 37a/b, 38a, 39a, 40a, 41a/b, 42b, and 43a)
- 46a Exam

Preparation for upcoming classes:

- 38a A&P: Lymphatic System and Immunity
 - Trail Guide: sartorius and tensor fasciae latae
 - Packet E: 75-78
 - RQ Packet A: 171-172
- 38b Body Mobilization Techniques: Technique Demo and Practice Prone
 - Packet F: 79-82

Classroom Rules

Punctuality - everybody's time is precious

- Be ready to learn at the start of class; we'll have you out of here on time
- Tardiness: arriving late, returning late after breaks, leaving during class, leaving early

The following are not allowed:

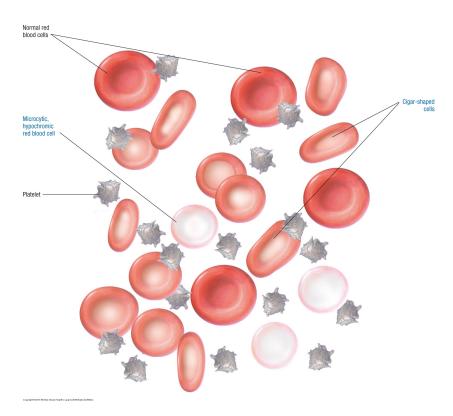
- Bare feet
- Side talking
- Lying down
- Inappropriate clothing
- Food or drink except water
- Phones that are visible in the classroom, bathrooms, or internship

You will receive one verbal warning, then you'll have to leave the room.

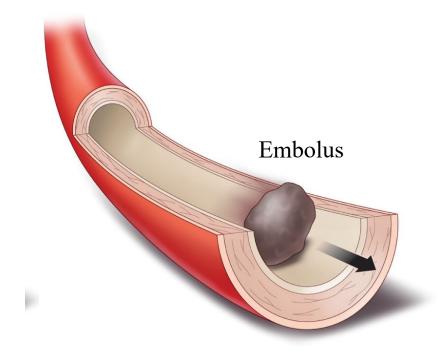
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E - 73

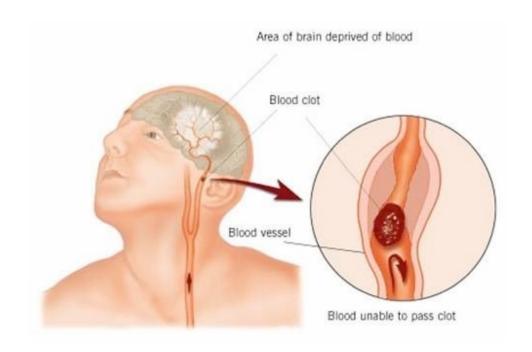
Anemia Shortage of red blood cells or hemoglobin that limits oxygen carrying capacity. May cause fatigue, pallor, dyspnea, rapid heartbeat, intolerance to cold or heart problems.



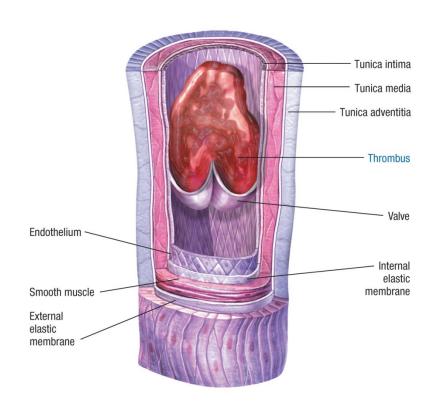
Embolus Traveling clot or collection of debris. May cause blockage in lungs (if originating on the venous side) or brain, heart, kidneys or legs (if originating on the arterial side).



Embolism The occlusion of a blood vessel by an embolus.



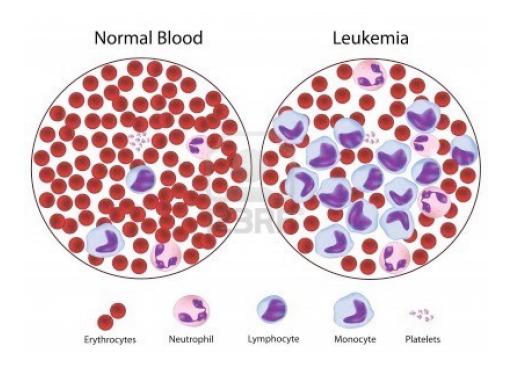
Thrombus Blood clot formed in the wall of an artery or vein. If it breaks loose it becomes an embolus, and may lodge in the lungs, brain, heart, kidneys or other places.



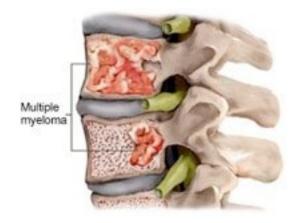
Hemophilia Collection of genetic disorders. Absence of plasma proteins that are crucial in the clot-forming process puts a person at risk of serious complications due to inability to clot in normal amount of time.



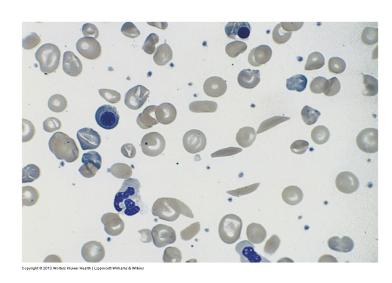
Leukemia Cancer that affects bone marrow cells, causing overproduction of non-functioning white blood cells.



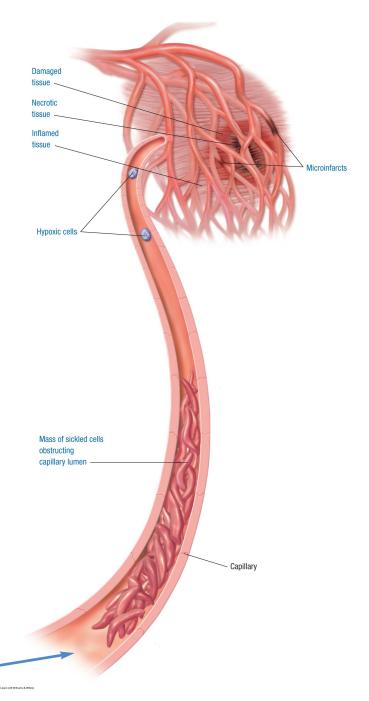
Myeloma Blood cancer involving B cells maturing in bone marrow.



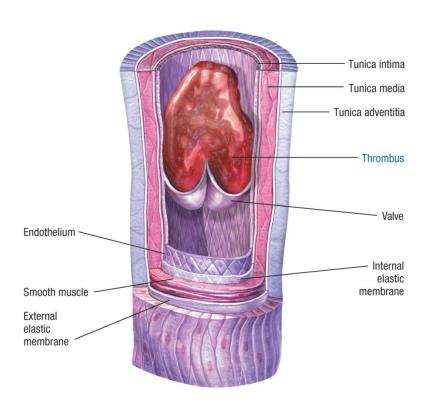
Sickle cell disease Faulty gene causes the production of short-lived and misshapen red blood cells.



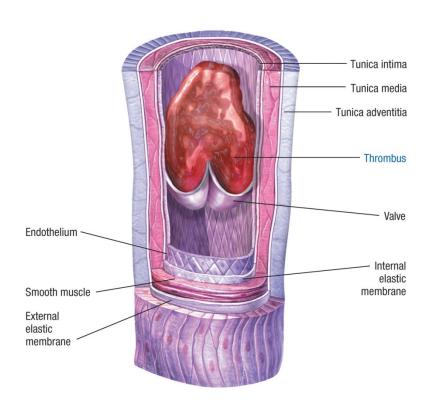
Blood flow



Thrombophlebitis Blood clots obstructing superficial leg veins - usually involves inflammation.



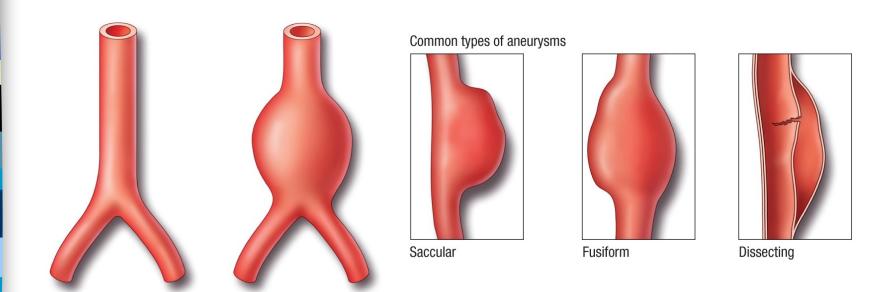
Deep vein thrombosis (AKA: DVT) Blood clots obstructing deep leg veins - a more serious risk for embolism than thrombophlebitis - often occurs with no significant symptoms.



Normal artery

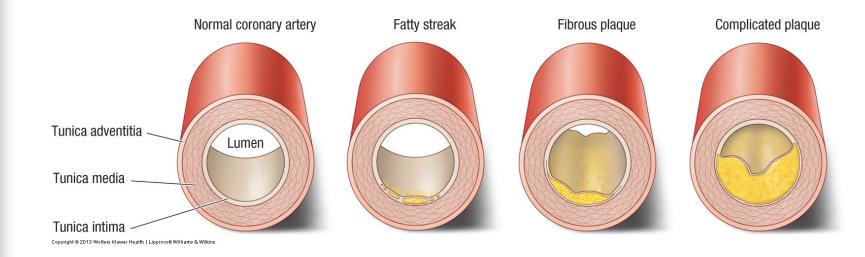
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Aneurysm Permanent bulge in the wall of a vein, artery, or heart. Aortic or cerebral most common. Risk of rupture and internal bleeding.



Artery with aneurysm

Atherosclerosis Arteries become inelastic, brittle, and hardened. May be compounded by local spasm and blood clot formation, increasing risk of thrombosis and embolism.



Hypertension (AKA: high blood pressure) Persistently above 140/90. Can lead to edema, atherosclerosis, stroke, enlarged heart, aneurysm, kidney disease or retinopathy.

Category	Systolic BP (mm Hg)	Diastolic BP (mm Hg)
Optimal	<120	<80
Pre-hypertension	122–139	80–89
Hypertension		
Stage 1 (mild)	140–159	90–99
Stage 2 (moderate)	160+	100+

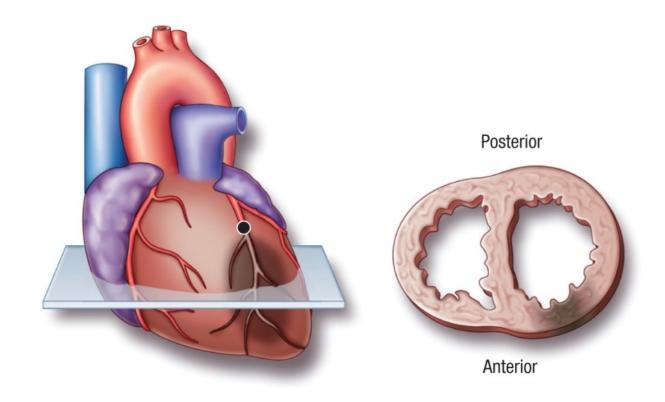
Raynaud syndrome Episodes of vascular constriction followed by dilation of the arterioles, usually in the fingers and toes. Pain, numbness and /or tingling may follow.



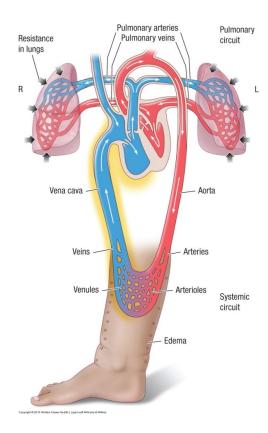
Varicose veins Permanently distended superficial leg veins, due to weakening of vessel walls and compromised valves.

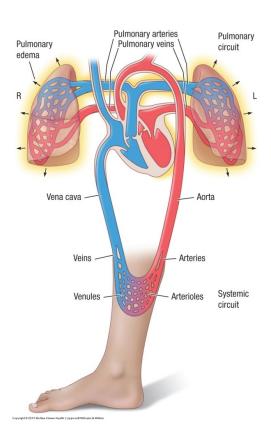


Heart attack (AKA: myocardial infarction) Damage to the myocardium caused by obstructed coronary vessels. Dead cells are replaced by non-contractile scar tissue.

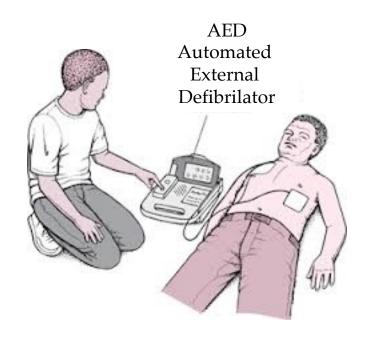


Heart failure Progressive loss of cardiac function resulting in the heart not being able to keep up with the needs of the body. This may result in edema in the lungs, legs, or abdomen, enlarged liver, or renal failure.





Cardiac arrest Heart completely stops working.



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