# Cardiovascular System Pathologies

- coronary artery disease-
- atherosclerosis-
- atheroma -
- plaque-
- ischemia-
- angina pectoris-



- myocardial infarction (MI)- (aka \_\_\_\_\_) -
- **congestive heart failure- (CHF)** condition in which the heart is unable to pump enough blood flow to the whole body; as a result, kidneys malfunction and allow fluid to build up in the legs, ankles & lungs.

#### Carditis-

- Endocarditis
- Bacterial endocarditis
- Myocarditis
- Pericarditis inflammation of the surrounding of the heart or pericardium

#### **Heart Valves**

- Valvulitis -
- o mitral valve prolapse- protrusion of the mitral valve does not allow it to close entirely
- o mitral stenosis-
- heart murmur- the sound made by the abnormal blood flow through a malfunctioning valve

# **Arrhythmias**

Cardiac Arrhythmia/dysrhythmia-

- Bradycardia -
- Tachycardia –
- Flutter cardiac arrhythmia where the atrial contractions are rapid but regular

Palpitation –

Paroxysmal Tachycardia - sudden onset of a fast heartbeat

**Fibrillation** 

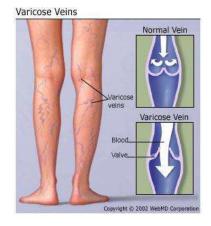
fibrillation-

atrial fibrillation- also known as \_\_\_\_\_:

ventricular fibrillation- also known as \_\_\_\_\_:

**Blood Vessel Pathology** 

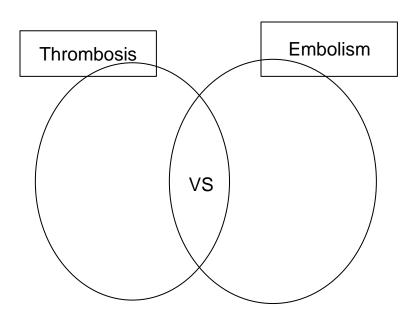
- vasculitis/angiitis-
- Angionecrosis death of the walls of the blood vessels
- angiospasm- spasmodic contraction of the blood vessels
- stenosis/angiostenosis-



- Hemangioma
- hypoperfusion- deficiency of blood passing through an organ or body part \*Perfusion
- aneurysm-
- Arteritis/polyarteritis inflammation of one or several arteries
- Arteriosclerosis -
- **Raynaud's Phenomenon** intermittent attacks of pallor (paleness), cyanosis, and redness of the fingers and toes; due to arterial and arteriolar contraction usually caused by cold or emotion
- Phlebitis -
- varicose veins-

# Thromboses & Embolisms

- Thrombotic occlusion -
- Coronary thrombosis –
- Embolus -



### **Blood Disorders and Blood Cells**

- Dyscrasia any abnormal or pathologic condition of the blood
- septicemia- (aka \_\_\_\_\_) -
- hemochromatosis-
- Erythrocytosis-
- thrombocytopenia- (aka \_\_\_\_\_) abnormal decrease in platelets
- leukopenia- abnormal decrease in the number of white blood cells
- leukemia-

#### **Cholesterol**

Consists of lipids that travel in the blood in packages called \_\_\_\_\_\_.

- Iow-density lipoproteins (LDL)- \_\_\_\_ cholesterol- contributes to plaque buildup Image of the second s
- high-density lipoproteins (HDL)- \_\_\_\_ cholesterol
- triglycerides-
  - Homocysteine
  - Hyperlipidemia

### Anemias

- anemia=
- Examples:
  - aplastic anemia hemolytic anemia iron-deficiency anemia
  - megaloblastic anemia pernicious anemia sickle-cell anemia
  - thalassemia

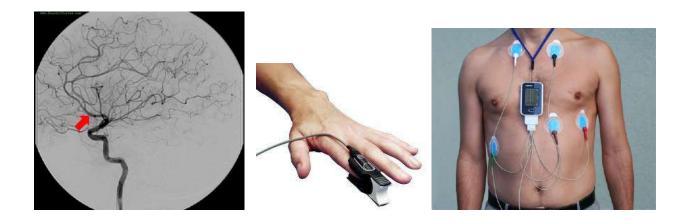
Hypertension

- layman's term: \_\_\_\_\_ \_\_\_\_\_
- Primary hypertension/essential hypertension-
- Secondary hypertension-
- **Malignant hypertension** sudden onset of severely elevated blood pressure; can be lifethreatening as it damages small vessels in the brain, retina, heart, and kidneys

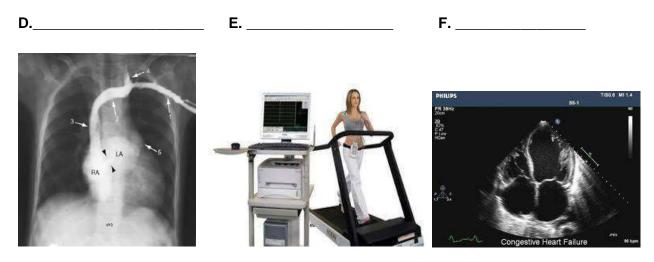
# Diagnostic Procedures of the CV System

These procedures use a variety of electronic means and mediums to study the heart. Label the following and summarize the procedure!

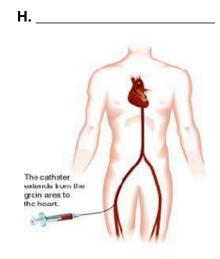




# Cardiovascular System







Blood Tests	CBC complete blood count group of tests to evaluate several conditions
Angiocardiography	
Thallium Stress Test	
Transesophageal Echocardiography	

# SURGERIES/PROCEDURES

Balloon angioplasty	
Stent	
atherectomy	Surgical removal of plaque from the interior lining of an atery
Endarterectomy	
Carotid Endarterectomy	Surgical removal of a portion of a clogged carotid artery leading to the brain
bypass surgery	
MIDCAB	Minimally Invasive Direct Coronary Artery Bypass
defibrillation	
pacemaker	
CPR	Cardiopulmonary Resuscitation
aneurysmectomy	
aneurysmorrhaphy	
arteriectomy	
hemostasis	Means to control bleeding
Plasmapheresis	
transfusion	

# TREATMENTS ... MEDICINES

- To reduce high blood pressure: aka antihypertensives
  - ACE Inhibitors -
  - Beta blockers- slow the heart
  - **Calcium channel blockers-** reduce the contraction of the muscles that squeeze blood vessels tight
  - diuretics-
- Additional important medicines
  - statins- used to reduce LDL or bad cholesterol and triglycerides or to raise HDL or good cholesterol
  - digotoxin -
  - o nitroglycerin-
  - anticoagulant- aka \_\_\_\_\_; slows blood clotting (coagulation) and prevents new clots from forming
  - o antiarrhythmic-
  - vasoconstrictor/vasodilator-

Career (	Opportun	ities:
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cardiologist hematologist phlebotomist perfusionist cardiovascular technologist EKG Technician

\*\* These could show up on a test!