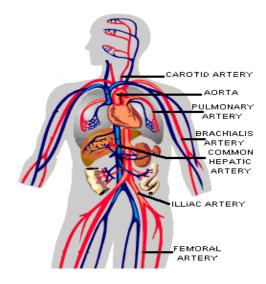
University of Kerbala - College of Applied Medical Sciences Department of Clinical Laboratories - 2<sup>nd</sup> - 1<sup>st</sup> stage **Medical Terminology** 

### Lecture No. 5

# The Circulatory System



The circulatory system composed of cardiovascular system and lyphatic vascular system , the cardiovascular system consist of heart , arteries ,

veins and capillaries.

#### Arteri/o = Arteries

Arteri/o/scler/osis: Hardening of the arteries

Arteri/o/fibr/osis: A fibrous condition of the arteries

Arteri/o/malacia: A softening of the arteries

### Ather/o = Fatty, Porridgelike

Ather/o/scler/osis: Hardening of the blood vessels caused by a fatty substance (atheroma)

Can decrease vascular supply causing ischemia (temporary lack of blood flow) and necrosis (dead tissues), leading to myocardial infarction (heart attack) or cerebral infarction (stroke).

Ather/o/scler/o/tic coronary artery disease causes Angina Pectoris

Ather/ectomy or End/arter/ectomy: Excision of an ather/oma Commonly performed on the carotid artery

### Hem/o, Hemat/o = Blood

Hem/angi/oma: A benign tumor of a blood vessel Hem/angi/o/blast: An embryonic blood vessel cell Hem/arthr/osis: A condition of blood in a joint Hemat/o/lysis or hem/o/lysis: Destruction of blood cell Hemat/o/phobia: An abnormal fear of blood Hemat/o/logy: The study of blood Hemat/o/logist: One who specializes in the science of blood University of Kerbala - College of Applied Medical Sciences Department of Clinical Laboratories -  $2^{nd} - 1^{st}$  stage



# Thromb/o = Blood Clot Thromb/o/angi/itis: Inflammation of a vessel with formation of a blood clot Thromb/ectomy: Excision of a thrombus (clot) Thrombus (singular): clot Thrombi (plural): clots Thromb/o/lymph/ang/itis: Inflammation of a lymph vessel with formation of a thrombus Thromb/o/phleb/itis: Inflammation of a vein with thrombus formation Phleb/o = vein Thromb/osis: A condition of forming a thrombus Thromb/o/cyte: A cell that aids clotting Thromb/oid: Resembling a thrombus Thromb/o/gen/ic: Pertaining to the formation of a thrombus Thromb/o/lysis: Destruction of a thrombus Thromb/o/cyt/o/penia: Lack of cells that aid in clotting (platelets) **Thrombotic Events** A thrombus may occlude a vessel, causing ischemia, producing an infarct. In heart muscle, this condition is called myocardial infarction (MI). Occlusion = Blockage in a vessel Infarction = Necrosis of tissue due to ischemia Myocardial = Pertaining to heart muscles Myocardial infarction = A heart attack If an cerebral artery is occluded, Cerebral Infarction can occur Cerebral infarction = CVA, stroke Phleb/o = VeinArteries carry oxygenated blood away from the heart. Veins carry deoxygenated blood back to the heart. Phleb/o/scler/osis: Hardening of veins Phleb/ectomy: Excision of a vein Phleb/o/pexy: Surgical fixation of a vein Phleb/o/plasty: Surgical repair of a vein Phleb/o/tomy: Incision into a vein, or venipuncture (for blood draw) Ven/o, Ven/i = VeinVen/i/puncture: A procedure performed to obtain a venous blood samples Ven/ous: Pertaining to veins IV injection = Intravenous injection: injecting inside vein Angi/o/plasty: Repair of a vessel i.e. Balloon angioplasty = PTCA (percutaneous transluminal coronary angioplasty)

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Angi/o/graphy: Process of obtaining an x-ray of a vessel i.e. coronary angiography Angi/o/scopy: Process of using a looking device to examine a vessel Phleb/o/plasty: Repair of a vein Phleb/o/graphy, Ven/o/graphy: Process of obtaining an x-ray of a vein -ectasia = Stretching, Dilation Dilation or Dilatation = Stretching or increase in diameter Phleb/ectasia: Venous dilatation (stretching) Arteri/ectasia: Arterial dilatation Angi/ectasia: Vessel dilatation -rrhexis = Rupture Rupture of the heart Cardi/o/rrhexis Rupture of a vessel Angi/o/rrhexis Rupture of an artery Arteri/o/rrhexis Rupture of a vein Phleb/o/rrhexis Echocardiogrfy: an ultrasonic evalution of the montion of the heart. Cardic catheterization : insertion of a catheter and contrast dye into

the coronary arteries to detect blockage.

Abbreviation	
AOD	Arterial occlusive disease
AS	Arteriosclerosis, Left ear
ASCVD	Arteriosclerotic cardiovascular disease
ASHD	Arteriosclerotic heart disease
CABG	Coronary artery bypass graft
CAD	Coronary artery disease
MI	Myocardial infarction
MS	Multiple Sclerosis
ECG	Electrocadiogram
BP	Blood pressure
LDL	Low density lipoprtein
HDL	High density lipoprotein
Hb	Hemoglobin
HR	Heart rate
HTN	Hypertension