

499721 Medical Terminology (NU-2557)

“Body Systems 1”

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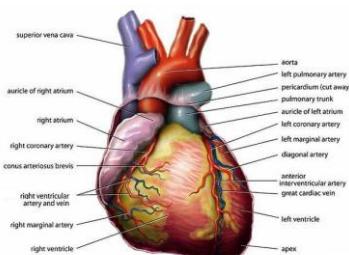
2 ตุลาคม 2557

Topics

- แจกคืน Quiz ครั้งที่ 3 Structure of medical terms 2
- เฉลย Mid-term examination
- Medical terminology in the body systems 1
 - Respiratory system
 - **Cardiovascular system**
 - **Blood, Lymphatic, Immune system**
- Assignment topics

Cardiovascular system

- Area of study – specialist
- Structure and Function
- Signs and symptoms
- Lab investigation
- Diseases
- Medical & surgical procedures
- Medications



Cardiovascular system

1. Area of study – specialist

- cardi/o (heart) + vascul/o (blood vessel) + -ar (adj.)
- หัวใจวิทยา, หัวใจแพทย์
- cardiology** (-logy = subject)
- cardiologist** (-logist = specialist)
- หัวใจศัลยศาสตร์, ศัลยศาสตร์หัวใจ
- cardiosurgery**, **cardiothoracic surgery** (ras)
- cardiac surgery**, **surgeon**

Cardiovascular system

2. Structure and Function

- heart (cardi/o), atrium (atri/o), ventricle (ventricul/o), atrioventr*ic*ular, heart valves (valvul/o), endocardium, myocardium, pericardium, pericardial cavity
- aorta, artery (arteri/o), arteriol/o
- capillaries, endothelium
- veⁿule, vein (ven/o, phleb/o), vena cava, circulation
- blood pressure, pulse, heartbeat, systole, diastole

Cardiovascular system

3. Signs and symptoms

- ใจสั่น, palpitation, bradycardia, tachycardia, fibrillation
- เจ็บหน้าอก, chest pain, angina pectoris
- หัวใจหยุดเต้น, cardiac arrest
- คลำซึพจรไม่ได้, pulseless
- ความดันโลหิตสูง, high blood pressure, headache (k)
- ความดันโลหิตต่ำ, low blood pressure, syncope (3)

Cardiovascular system

4. Lab investigation

- stethoscope, steth/o = chest
- sphygmomanometer, sphygm/o = pulse
- oximeter, oximetry, oximetric, ox/i = oxigen
- electrocardiography (EKG, ECG), -cardiograph, -cardiogram
- echocardiography (echo)
- transesophageal echocardiogram (TEE), transthoracic- (ras)
- angiography

Cardiovascular system

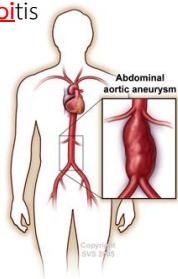
5. Diseases

- cardiac arrhythmia
- coronary artery disease (CAD)
- atherosclerosis – arteriosclerosis – arteriolosclerosis
- isch*em*ia (k) = loss of blood supply, infarction
- ischium (k) = lower part of hip bone
- hemodynam*ic* disorders, thrombosis, embolism,

Cardiovascular system

5. Diseases

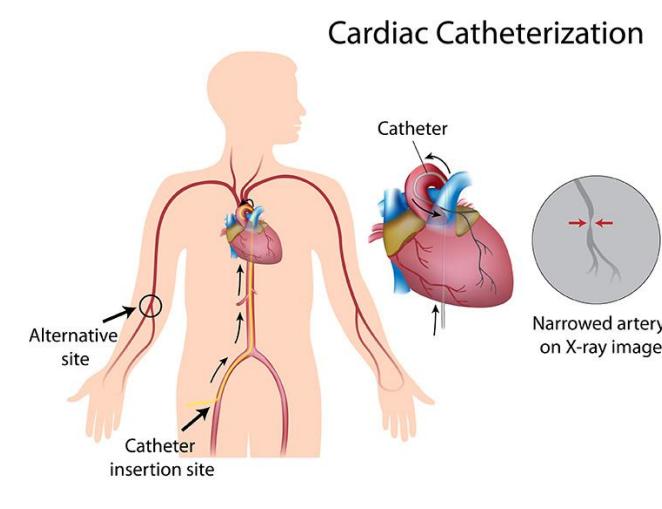
- congestive heart failure (CHF)
- pericarditis, myocarditis, endocarditis, phlebitis
- abdominal aortic aneurysm (AAA)
- hypertension
- hypotension, shock

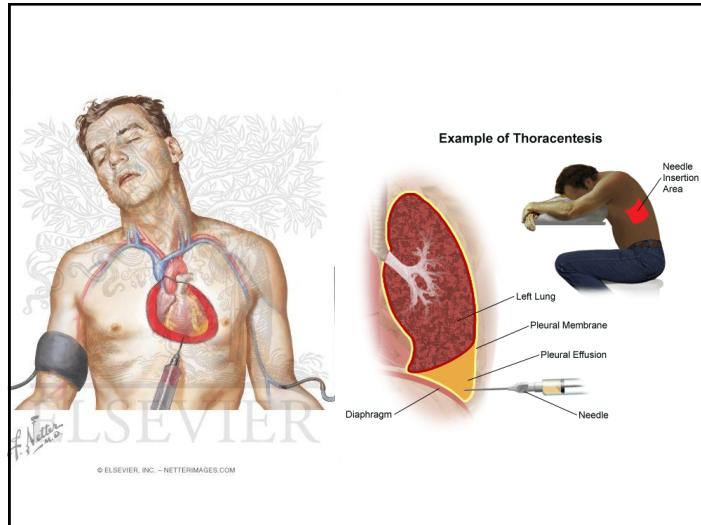
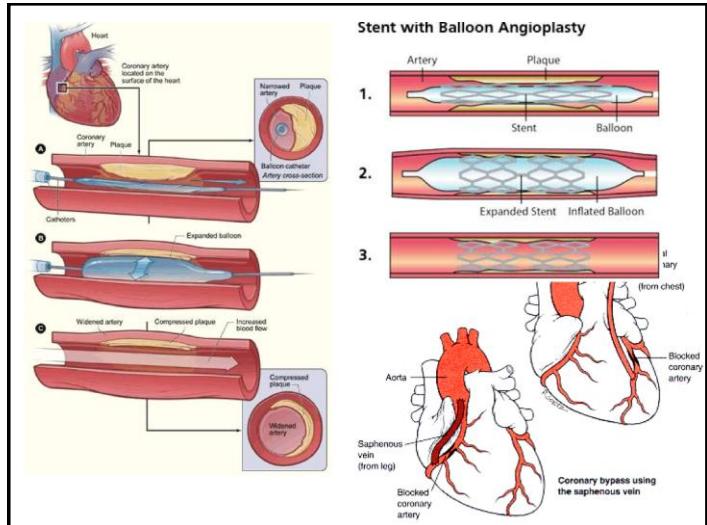


Cardiovascular system

6. Medical and surgical procedures

- defibrillation, defibrillator (defib)
- phlebotomy, venipuncture, venepuncture
- cardiac catheterization
- percutaneous transluminal coronary angioplasty (PTCA)
- coronary artery bypass grafting (CABG)
- pericardiocentesis
- thoracocentesis, thoracentesis

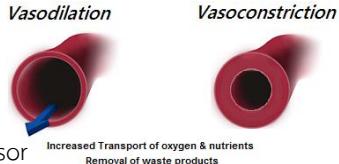




Cardiovascular system

7. Medications

- antianginal
- sublingual (SL)
- antihypertensive
- antiarrhythmic
- vasodilator
- vasoconstrictor, vasopressor



Blood, Lymphatic, Immune system

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Blood, Lymphatic, Immune system

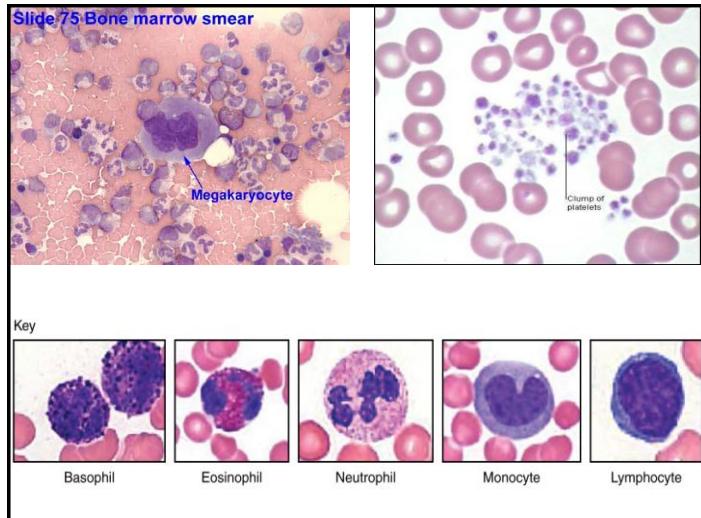
1. Area of study – specialist

- hem/o, hemat/o, -emia
- lymph/o, immun/o
- hemat~~o~~logy โลหิตวิทยา
- hemat~~o~~logist แพทย์ผู้เชี่ยวชาญด้านโลหิตวิทยา
- immun~~o~~logy วิทยาภูมิคุ้มกัน
- immun~~o~~logist นักวิทยาภูมิคุ้มกัน

Blood, Lymphatic, Immune system

2. Structure and Function

- erythrocite, red blood cell (RBC)
- leucocyte, white blood cell (WBC)
- megakaryocyte, thrombocyte, platelet
- -cyte, cyt/o, -blast, blast/o
- polymorphonuclear leucocyte (PMN), granulocyte, neutrophil, basophil, eosinophil
- mononuclear leucocyte, lymphocyte, macrophage



Blood, Lymphatic, Immune system

2. Structure and Function

- plasma, albumin, immunoglobulin (Ig), serum
- bone marrow (myel/o)
- lymph node (lymphaden/o), lymph vessel (lymphangi/o)
- spleen (splen/o), thymus (thym/o)
- erythropoiesis, hematopoiesis, -poiesis = formation
- immune, immunity, antigen (Ag), antibody (Ab)

Blood, Lymphatic, Immune system

3. Signs and symptoms

- **anemia** an- + -emia
- **leukocytopenia** - ปริมาณน้อยกว่าปกติ
- **leukocytosis, neutrophilia** -ปริมาณมากกว่าปกติ
- **poikilocytosis** poikil/o = irregular, variable
- **hemorrhage, petechia, purpura, ecchymosis, hematoma, hemothorax, hemoptysis, hematemesis, hematuria**
- **splenomegaly**



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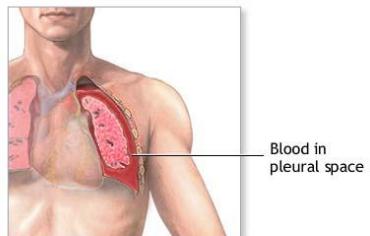
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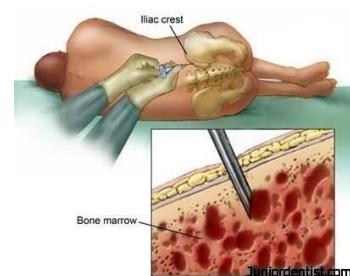


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Blood, Lymphatic, Immune system

4. Lab investigation

- complete blood count (CBC)
- bone marrow aspiration
- antibody titer



Blood, Lymphatic, Immune system

5. Diseases

- hemolytic anemia, thalassemia, hemoglobinopathy
- blood coagulopathy, hemorrhage, hemophilia
- lymphadenitis, thrombophlebitis
- leukemia, lymphoma
- hypersensitivity, allergy, allergic
- Acquired Immunodeficiency Syndrome (AIDS), opportunistic
- autoimmune disease, Systemic Lupus Erythematosus (SLE)

Blood, Lymphatic, Immune system

6. Medical and surgical procedures

- phlebotomy, venipuncture, venepuncture
- plasmapheresis, -apheresis = taken away
- blood transfusion, blood group incompatibility
- bone marrow transplantation
- splenectomy, thyectomy

Blood, Lymphatic, Immune system

7. Medications



- iron, folate supplement, sider/o = iron
- antithrombotic, thrombolysis, thrombolytic
- anticoagulant, antiplatelet, platelet aggregation inhibitor
- antihistamine, antiallergic, antiallergenic
- immunosuppressive, -suppressor, -suppressant, -ion
- vaccination, vaccine, give/get a flu shot