Study Guide Bio 40B Final *(3 pages)*
Dr. Kandula Spring 2016

This study guide will give you some hints in studying, but you will need to make sure you review #1 - #5 below. Good luck!

1. Review power point presentations online
2. Review notes from class
3. Review handouts from class
4. Review homework
5. Review models

Models to review for identification; functions, relevance etc

Blood cells :
erythrocytes (red blood cell), proerythroblast, reticulocyte;
granulocyte –eosinophil, basophil, neutrophil;
agranulocyte – lymphocytes, monocytes; platelets
- when do numbers of the above increase: at least one cause
- hormones involved in production

Blood tests
Blood groups
Rh type

Heart model
Inferior vena cava, superior vena cava, coronary sinus
Auricles
Coronary sulcus
Right coronary artery, middle cardiac vein,
Left coronary artery, great cardiac vein
Right atrium – pectinate muscle, fossa ovalis, interatrial septum
Tricuspid valve – cusps, chordae tendinae, papillary muscle
Right ventricle – interventricular septum, trabeculae carnae
Pulmonary semilunar valve
Pulmonary trunk – right pulmonary artery, left pulmonary artery; right pulmonary veins, left pulmonary veins
Ligamentum arteriosum
Left atrium – pectinate muscle
Biscuspid or mitral valve – cusps, chordae tendinae, papillary muscle
Left ventricle – interventricular septum, trabeculae carnae
Aortic semilunar valve
Aorta – ascending aorta, arch of aorta, thoracic artery
Brachiocephalic artery
Left common carotid artery
Left subclavian artery

Right and left brachiocephalic veins

Blood Vessels – identification and at least one structure supplied
ARTERIES - define
Ascending aorta
Arch of aorta
Thoracic aorta
Abdominal aorta
Right coronary artery (on heart model)
Left coronary artery (on heart model)
Brachiocephalic artery
Right common carotid artery
Right subclavian artery
Left common carotid artery
Left subclavian artery

**Right Internal carotid artery – structure supplied only
**Right external carotid artery – structure supplied only
**Left internal carotid artery – structure supplied only
**left external carotid artery - structure supplied only

Right and/or left subclavian artery
***Right and/or left vertebral artery - structure supplied only
*** Circle of Willis – function only
Right and/or left axillary artery
Right and/or left brachial artery
Right and/or left radial artery
Right and/or left ulnar artery

Celiac trunk
Left gastric artery
Common hepatic artery
Splenic artery
Superior mesenteric artery
Right and/or left renal artery
Right and/or left testicular artery in males **OR** Right and/or left ovarian artery in females
Inferior mesenteric artery

Right and/or left common iliac artery
Right and/or left external iliac artery
Right and/or left internal iliac artery
Right and/or left femoral artery
Right and/or left popliteal artery
Right and/or left anterior tibial artery
Right and/or left posterior tibial artery

CAPILLARIES -define
VEINS - define
Right and/or left saphenous vein
Right and/or left femoral vein
Right and/or left external iliac veins
Right and/or left internal iliac veins
Right and/or left common iliac vein

Inferior vena cava
Right and/or left Renal veins
Hepatic vein

***Hepatic portal system – function only
***Hepatic portal vein- function and veins that form it
***Inferior mesenteric vein – structures drained by
***Splenic vein - structures drained by
***Superior mesenteric vein - structures drained by

Right and/or left radial vein
Right and/or left ulnar vein
Right and/or left brachial vein
Right and/or left axillary vein
Right and/or left subclavian vein
Right and/or left brachiocephalic vein

*** Right and/or left internal jugular vein – structure drained by
*** Right and/or left external jugular vein – structure

What is unique about…..
Pulmonary arteries
Pulmonary veins
Hepatic artery
Hepatic vein
Hepatic portal vein

What specific blood vessel do we use most commonly for blood draws? Why?
Why do we use veins for blood draws more commonly than arteries?
Why do we use arteries for blood draws?
When do we use capillaries for blood draws?
What vessels are used in infants?
Plasma components
Blood flow through the heart
Pericardium structure and function
Lining of heart
Lining of blood vessels wall