

Human Vessels

The list below represents the arteries and vessels that you should be prepared to identify for your lecture exam (not lab practical). Specificity is important; vessels must be identified as left or right, vein or artery etc. where appropriate. This information may not always be provided below.

Arteries

Veins

Superior to Heart Ascending Aorta

Internal Carotid Arteries

External Carotid Arteries

Subclavian Arteries

Axillary Arteries

Brachial Arteries

Ulnar Arteries Radial Arteries

Abdominal Arteries

Celiac Trunk

Splenic Artery

Renal Arteries

Left Gastric Artery

Common Hepatic Artery

Superior Mesenteric Artery

Gonadal (Spermatic or Ovarian) Arteries

To Brachium and Antebrachium

Ascending Aorta Aortic Arch Descending (Thoracic / Abdominal) Aorta Brachiocephalic Trunk Common Carotid Arteries

Superior to Heart Superior Vena Cava

Brachiocephalic Veins Internal Jugular Veins External Jugular Veins

To Brachium

Subclavian Veins Axillary Veins

Cephalic Veins Brachial Veins Basilic Veins

Abdominal Veins

Inferior Vena Cava Hepatic Veins

Gonadal (Sper. or Ov.) Veins

To Lower Appendages

Common Iliac Veins External Iliac Veins Internal Iliac Veins

Inferior Mesenteric Artery

To Lower Appendages

Common Iliac Arteries External Iliac Arteries Internal Iliac Arteries Femoral Arteries

Hepatic Portal System

(Use your hepatic portal System handout) Hepatic Vein(s) Hepatic Portal Vein Inferior Mesenteric Vein Superior Mesenteric Vein

Vessel Diagrams

The attached two diagrams were put together to make your learning of the vessels easier. Use them if you think they will otherwise avoid them.

It is suggested that you use the Human vessel list, along with your text and the coloring book (excellent, pages 115 and 120), to identify them. Having done so, write the name of the vessels in. Color them if you like. On your exam, I will use similar (not exact) diagrams. Answers are all fill in the blank, so you want to work with this immediately.

Take care and as always, STUDY HARD !!!!





Hepatic Portal System

The hepatic portal system shunts newly absorbed nutrients from the organs of absorption to the liver for processing before entering the general systemic circulation. This initial processing is important to maintain a physiological balance necessary for life. Nutrients in overabundance are stored or broken down. Toxins are detoxified. Some nutrients may be altered.

Note that blood going to the digestive tract is oxygen rich. Once it reaches the organs of digestion and absorption, oxygen will be used for the digestive process, resulting in oxygen-poor but nutrient rich blood. The liver, being a highly metabolic organ also has significant oxygen needs, and these needs exceed what the hepatic portal vein can supply. Therefore, the hepatic artery will supply Liver necessary oxygen. After nutrient processing, the blood is again oxygen-poor (but nutrient rich and "adjusted"), and will then enter the pulmonary circulation for "oxygen recharging". The system

- Direction of Blood Flow OR & NR - Oxygen Rich and Nutrient Rich OR & NP - Oxygen Rich and Nutrient Poor OP & NR - Oxygen Poor and Nutrient Rich OP & NP - Oxygen Poorand Nutrient Poor





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Hypothalamic-hypophyseal Portal System and Endocrine Control of Anterior Pituitary Gland

