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Name

Blood Vessels

Your job is to be able to identify all the blood vessels mentioned in this activity. You will be tested on the material via power point slides.

Arteries are vessels that deliver blood from the heart to the body organs (Arteries-Away.) The blood then flows back to the heart through **veins**. As the arteries pass through the organs, they divide into smaller vessels called **arterioles** and then finally into tiny **capillaries**. Capillaries consist of simple squamous epithelium, and it is through these thin membranes that food and oxygen are exchanged for waste products in each organ. Before leaving the organ, groups of capillaries reunite to form progressively larger vessels, the **venules**, and then finally the **veins**.

The Arteries

4. Arteries of the Abdomen

small branches come off...

stomach, and spleen.

ine iai	ige vesser that leaves the heart (left ventricle) is the dorta. Notice that it ascends toward the head
but the	en quickly arches back, forming what is called the aortic arch. The aorta, running close to the
verteb	rae, proceeds down the body and terminates by dividing into two common iliac arteries. Arteries
branch	n off the aorta at many points.
1.	Branches off the Aortic Arch
	Three branches come off the aortic arch. They supply blood to the head and arms.
	 a. The first branch is the brachiocephalic (innominate)
	b. The second branch is the left common carotid.
	c. The left subclavian is the third branch.
2.	Arteries of the Head and Neck
	The primary blood supply to the neck and head is from the common carotids. The right common
	carotid is a branch off the brachiocephalic.
	a External carotid, supplies blood to the tongue, throat, face, and brain.
	b Internal carotid, which supplies blood to the forehead, nose, and brain.
3.	Arteries of the Arms
	The subclavians supply the arms with blood. The right subclavian is a branch off the
	brachiocephalic. The left subclavian is a branch off the aortic arch. As each subclavian passes
	into the arm, it merely changes name. As it passes through the axilla of the arm, it is called the
	axillary. As it travels through the upper arm, it is called the brachial. When the brachial reaches
	the elbow, it divides into the radial and ulnar arteries.

Now back to the aorta. As the aorta passes through the diaphragm into the abdominal cavity, many

a. The first large artery off the abdominal aorta is the _____ celiac. It sends blood to the liver,

	colon.
	c. Next the renals, supply the kidneys.
	d. The last major branch is the inferior mesenteric supplying the colon, rectum, and anus.
5.	Arteries of the Pelvis
	 The aorta divides into the common iliac arteries which in turn divides into two branches. The internal iliac and the external iliac.
	 b. The external iliac is next, and it continues down the leg to become the femoral artery.
6.	Arteries of the Leg
	The femoral artery passes behind the knee where it is called the popliteal artery. This artery
	divides into the posterior and anterior tibial arteries, and they continue down into the foot.
The \	/eins
1.	Vena Cava: The two large veins that empty into the right atrium are the:
	a superior vena cava, which drains the head, neck, arms and thorax.
	b inferior vena cava, which drains the abdomen, pelvis, and legs
2.	Veins of the Head & Neck
	 The jugular veins are the major veins of the head and neck. There are two jugulars: the external jugular veins and the internal jugular veins.
	b. The external jugular joins the subclavian vein, while the internal jugular joins the brachiocephalic (innominate)
3.	Veins of the Arm:
	Three major veins collect blood in the upper arm, carrying it toward the heart, we will learn two of
	them.
	a. The basilic and brachial vein which empties into the:
	b. The axillary vein, found in the armpit. The axillary empties into the subclavian.
4.	Veins of the Leg:
	 a. The posterior tibial vein collects blood from the foot and becomes the popliteal vein
	in the knee region. Above the knee, this vessel becomes the femoral vein, which empties
	into the external iliac. This vessel then empties into the common iliac vein and on to
	the inferior vena cava.