the muscles and spinal cord. Branches of the external iliac artery provide the blood supply for the lower extremity. The internal iliac artery supplies the pelvic viscera.

Major Systemic Arteries

All systemic arteries are branches, either directly or indirectly, from the aorta. The aorta ascends from the left ventricle, curves posteriorly and to the left, then descends through the thorax and abdomen. This geography divides the aorta into three portions: ascending aorta, aortic arch, and descending aorta. The descending aorta is further subdivided into the thoracic aorta and abdominal aorta.

Major Systemic Veins

After blood delivers oxygen to the tissues and picks up carbon dioxide, it returns to the heart through a system of veins. The capillaries, where the gaseous exchange occurs, merge into venules and these converge to form larger and larger veins until the blood reaches either tesale.co.ul the superior vena cava or inferior vena cava, which drain into the right atrium.

Most circulatory pathways in a foos are like these in he adult but there are some notable differences because the large, the gastroint sina Oract, and the kidneys are not functioning before on the local part of the large of t maternal <u>circulation</u> to carry away the carbon dioxide and waste products.

The umbilical cord contains two umbilical arteries to carry foetal blood to the placenta and one umbilical vein to carry oxygen-and-nutrient-rich blood from the placenta to the foetus. The ductus venosus allows blood to bypass the immature liver in foetal circulation. The <u>foramen</u> ovale and ductus arteriosus are modifications that permit blood to bypass the lungs in fatal circulation.