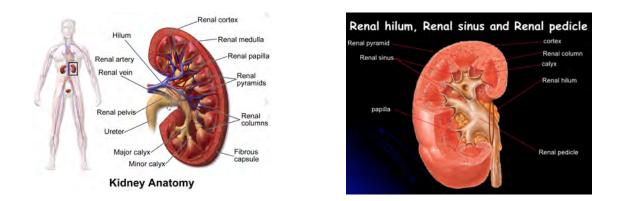
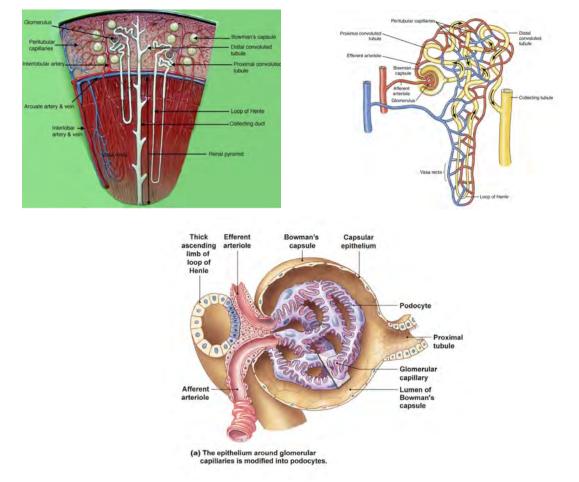
glomerulus

Cardiac output is typically 5 liters/min at rest. If the left ventricle contracts 70 times per minute and ejects 70 ml of blood across the aortic valve with each stroke, then the heart delivers a pulsatile volume flow rate of **5 L/min**. The kidneys receive 20% of this volume, about **1 L/min**.



As each renal artery enters the kidney it branches into segmental arteries, then arterioles, ultimately delivering flow to over *1,000,000 nephrons* in each kidney. Each renal arteriole terminates in a tuft of capillaries in a structure known as a *glomerulus*.



The external links on the **<u>*glomerulus*</u>** webpage give understanding to the importance of the kidneys, which receive *1/5* of the total systemic arterial flow.