Basic kidney anatomy and blood supply:

* The kidney’s receive 30% of the cardiac output. They receive blood from the renal arteries, which devide into anterior andposterior brances, which then in turn branch into interlobar arteries and then arcuate arters
* The arcuate arteries traverse through the boundary of the cortex and the medulla, and then branch into interlobular arteries and give rise to the different arterioles that supply the glomeruli
  + Two mechanisms by which the afferent arteriole regulates downstream blood pressure and tubular reabsorption are discussion in Chapter 5
* Each human kidney is populated by about a million nephrons
  + Each nephron consists of an initial filtering component called the renal corpuscle and a renal tubule specialized for reabsorption and secretion