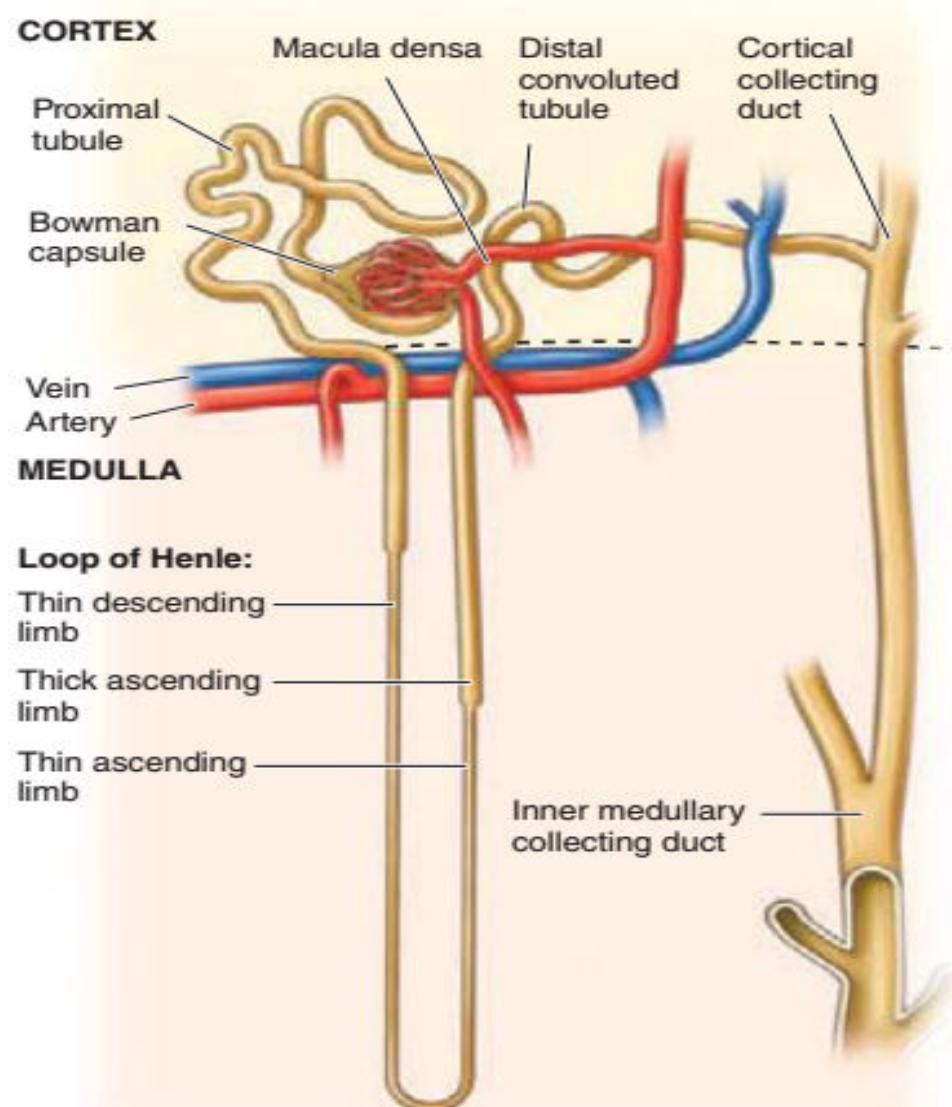
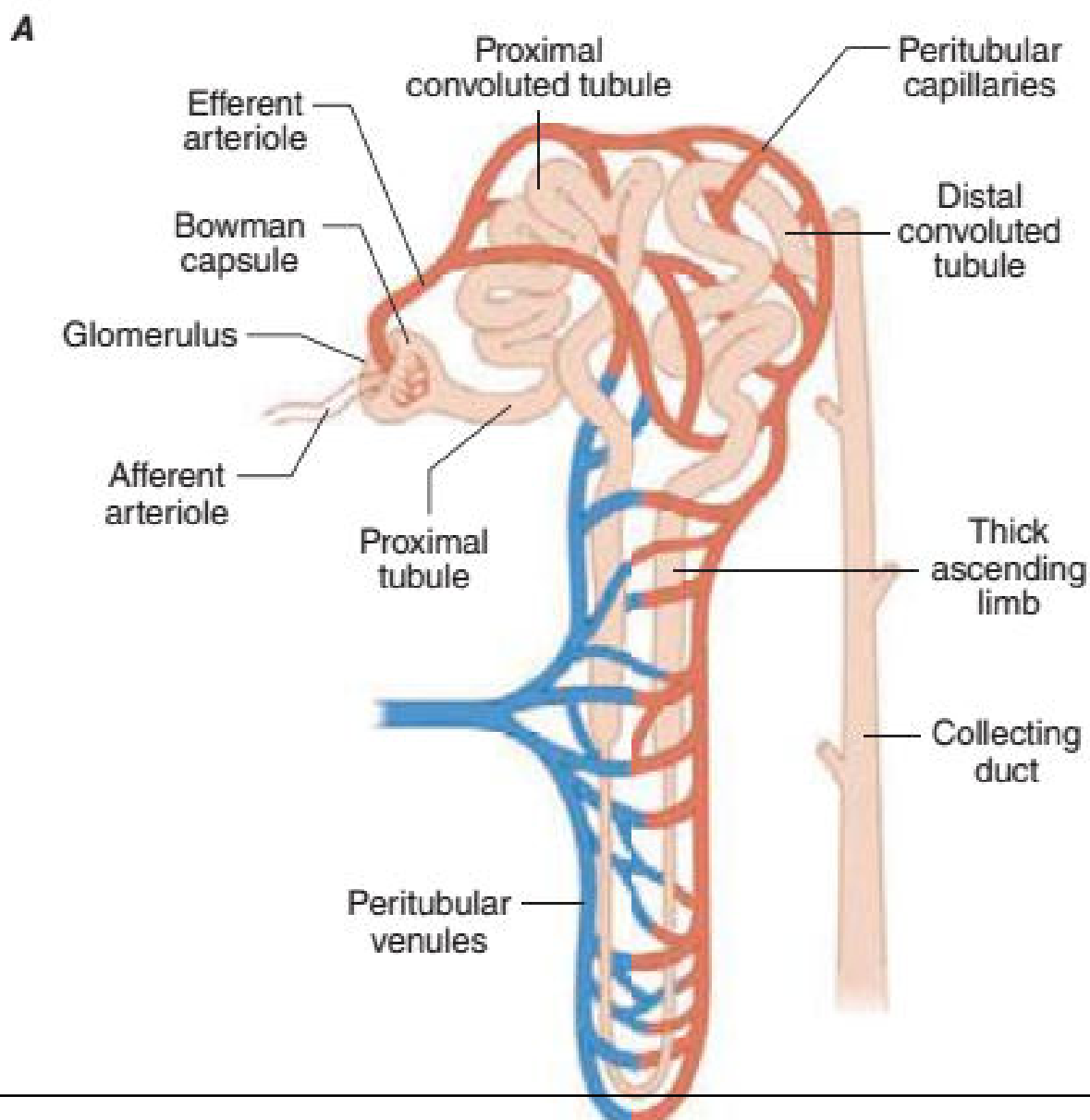
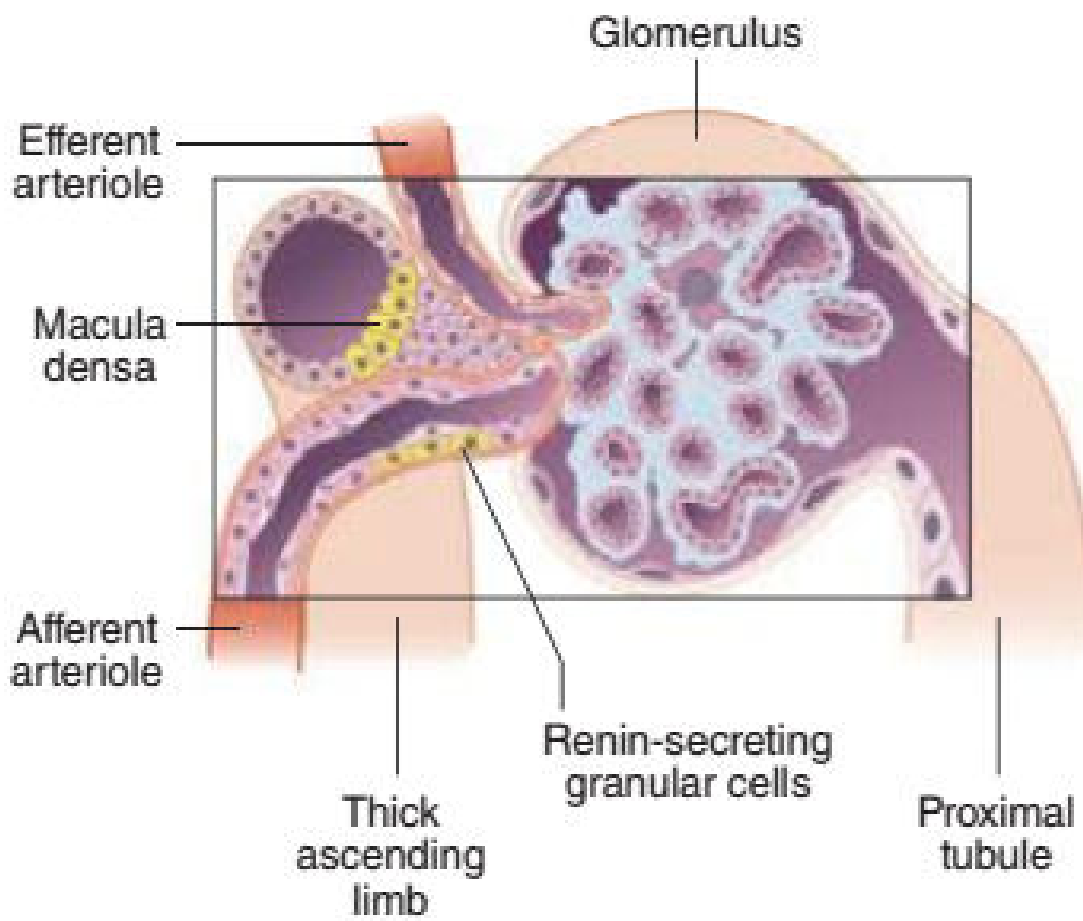


Nephrology – Basics



- The distal ends of the glomerular capillaries coalesce to form an efferent arteriole leading to the first segment of a second capillary network (cortical peritubular capillaries or medullary vasa recta) surrounding the tubules.
- Thus, nephrons have two capillary beds arranged in a series separated by the efferent arteriole that regulates the hydrostatic pressure in both capillary beds.
- The distal capillaries empty into small venous branches that coalesce into larger veins to eventually form the renal vein.



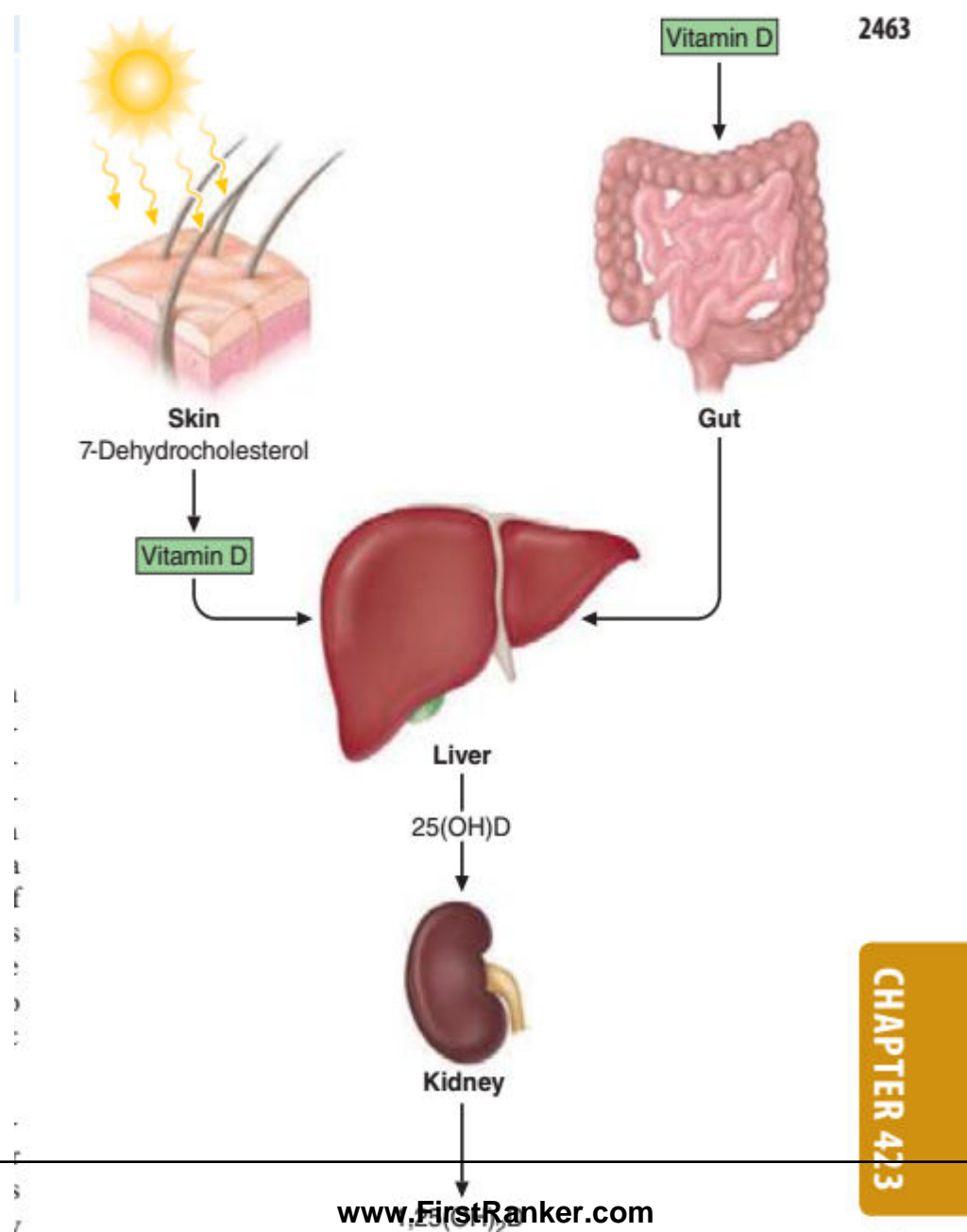
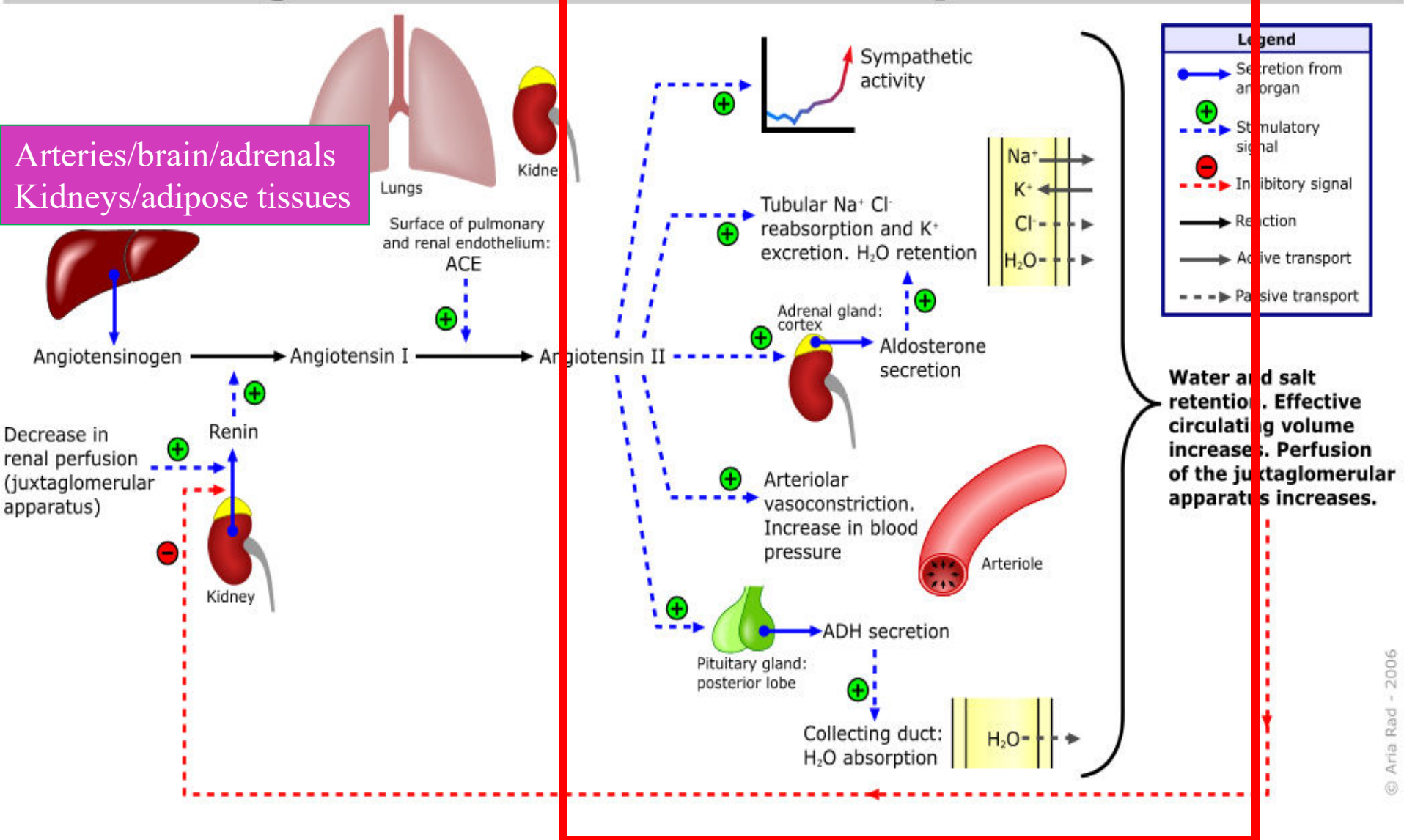


- The **proximal tubule** is responsible for reabsorbing ~60% of filtered NaCl and water, as well as ~90% of filtered bicarbonate and most critical nutrients such as glucose and amino acids.
- The proximal tubule uses both cellular and paracellular transport mechanisms.

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Renin-angiotensin-aldosterone system



Renal Function Tests

- Blood Urea
- Serum Creatinine
- Serum Electrolytes
- Serum Calcium
- Serum Phosphate

Urine Examination

- Dip stick
- Microscopy
- 24 hrs Urine

Renal Imaging

- Skiagram
- USG
- CT scan
- MRI

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