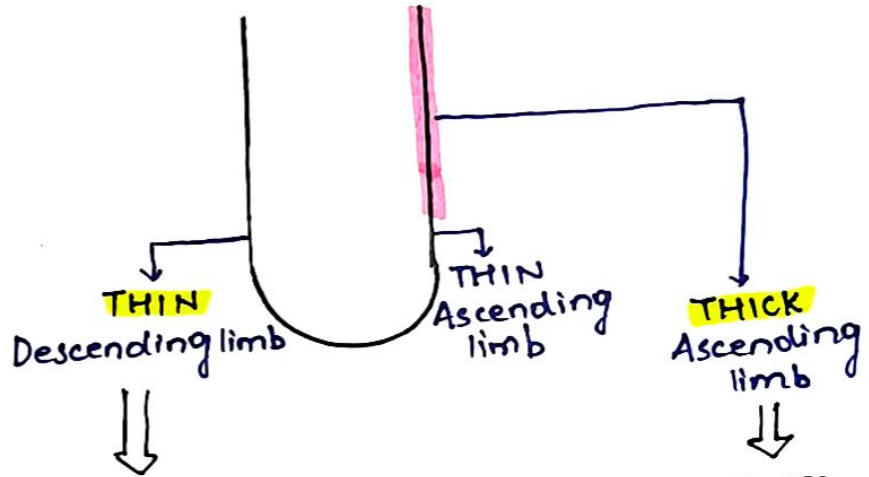
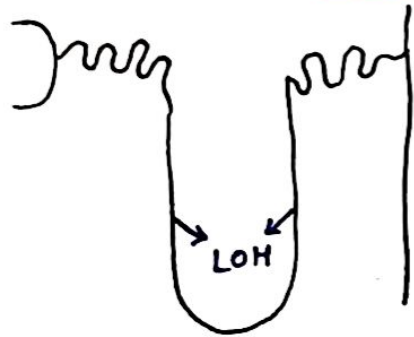


# LOOP OF HENLE



- No Brush border
  - Less Mitochondria
- [↓ metabolic activity]

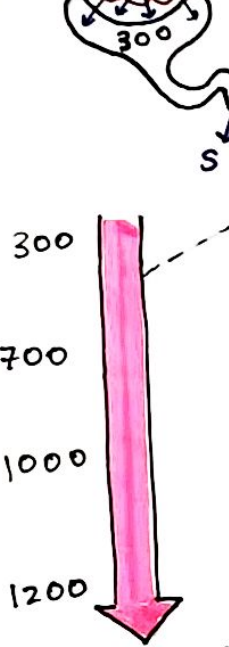


- Brush border
  - More mitochondria
- [Active reabsorption takes place]

# **Thin** & **Thick** is for thickness of epithelium rather than diameter.

(N) Plasma = 300 mOsm/L

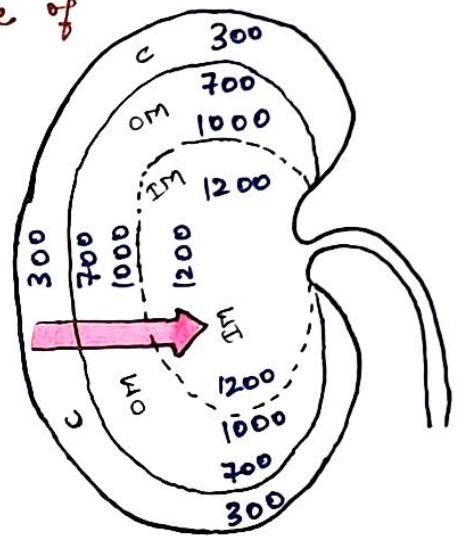
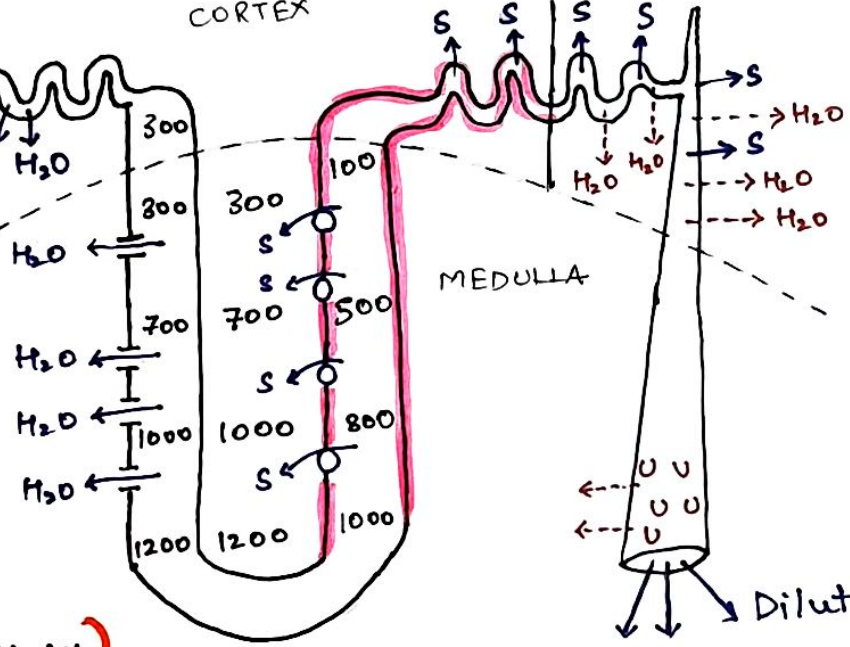
in presence of ADH



Cortico-medullary osmolarity gradient  
(OR)  
Hyperosmolar medullary interstitium

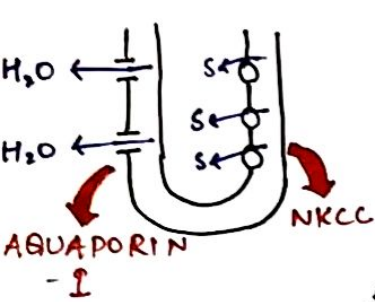
CORTEX

MEDULLA



Dilute urine (50 mOsm/L)  
Concentrated urine (1200 mOsm/L)

COUNTER CURRENT MECHANISM



[Hence; 10-20% of  $Na^+$  is reabsorbed.]

Tubular lumen

