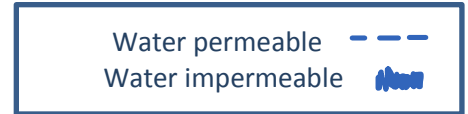
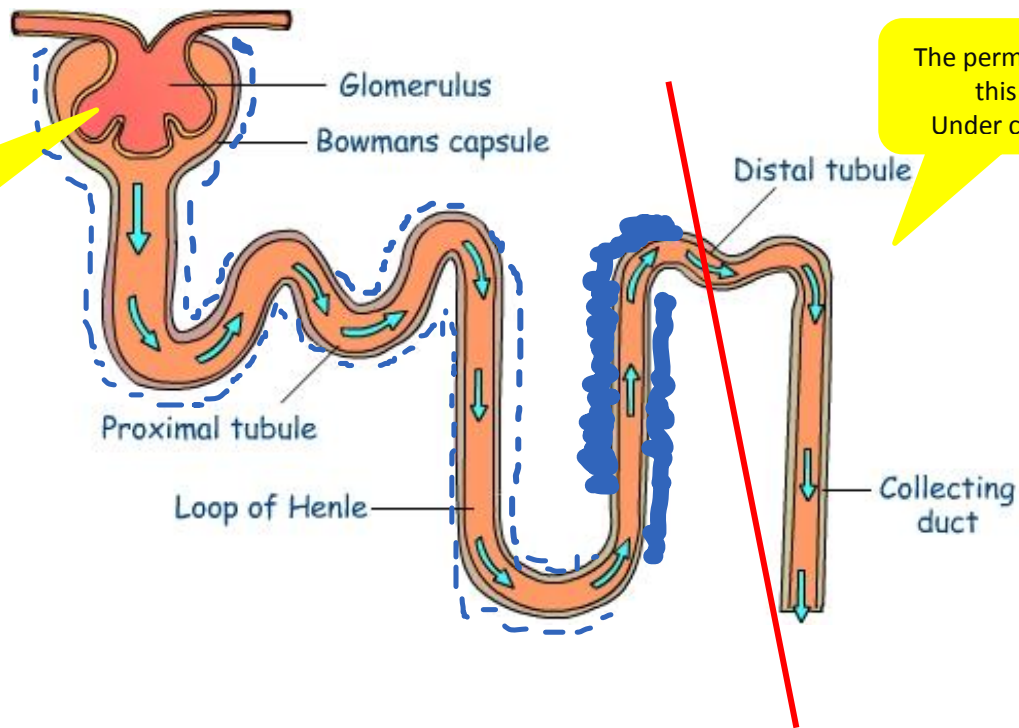
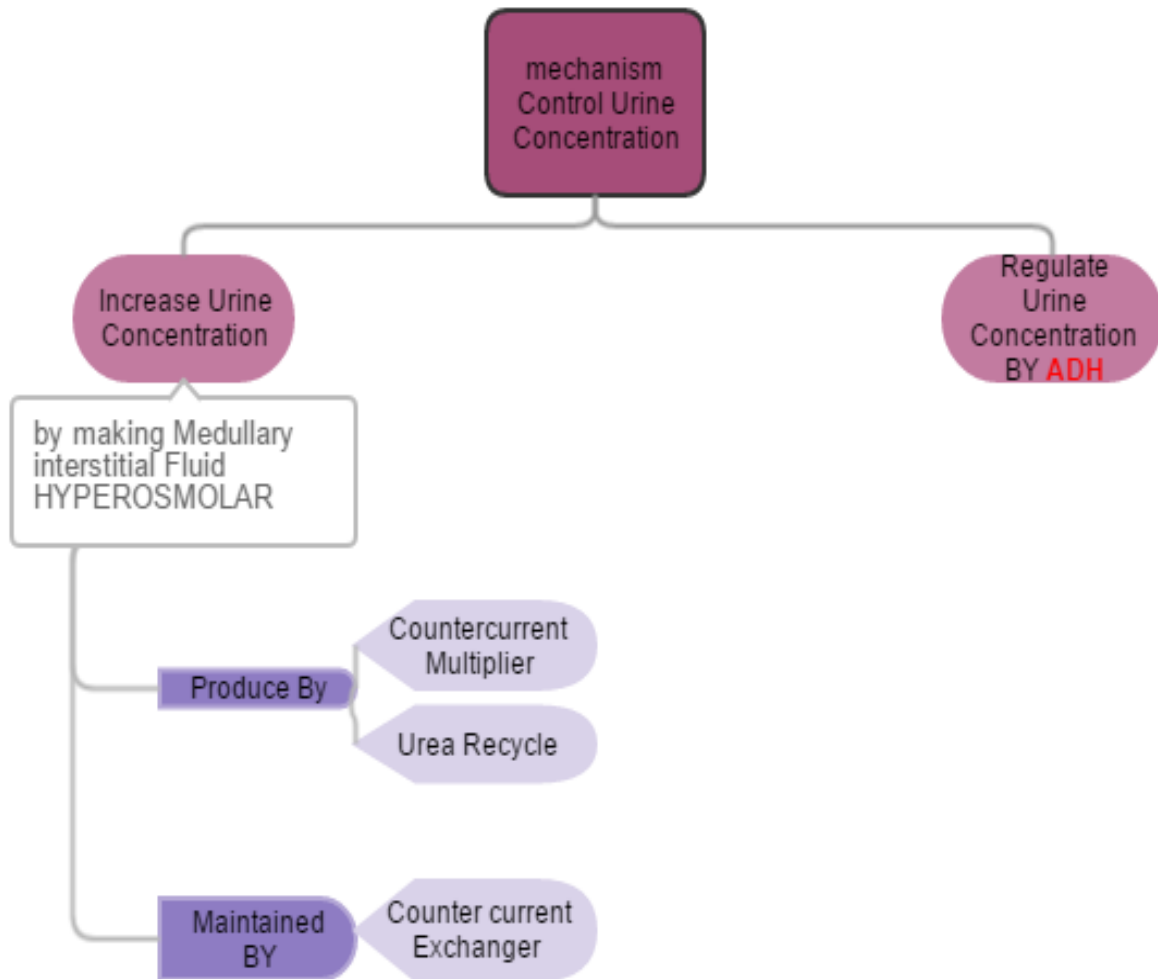


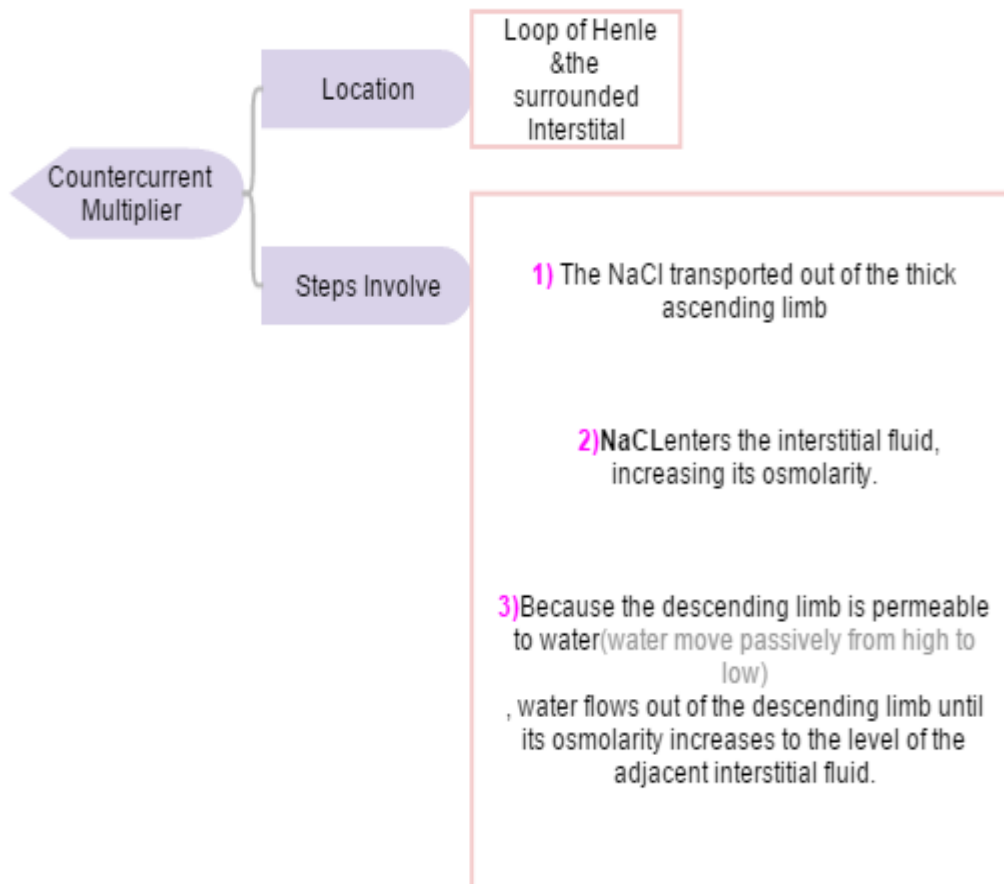
# Water Permeability



**Isosmotic:**  
السائل الي  
ببمر هنا  
ببصير  
متعادل  
التركيز لأن  
water  
follow



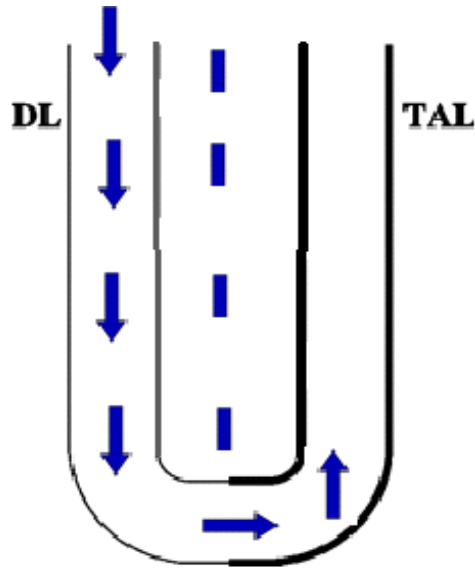




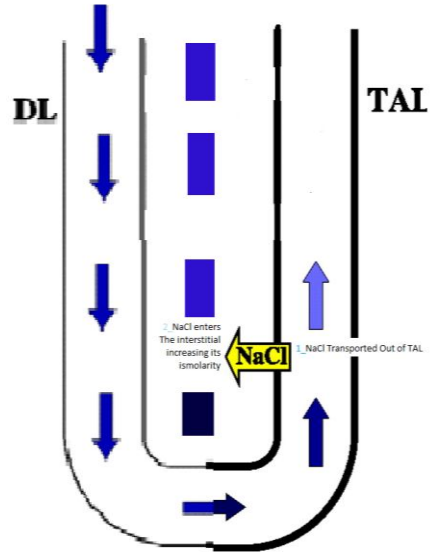
# Countercurrent Multiplier



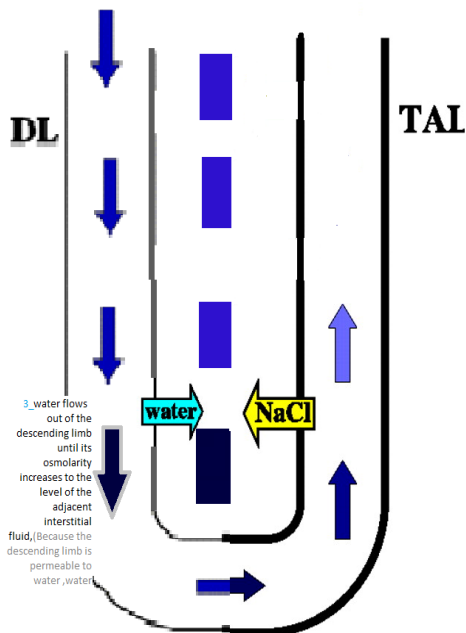
1



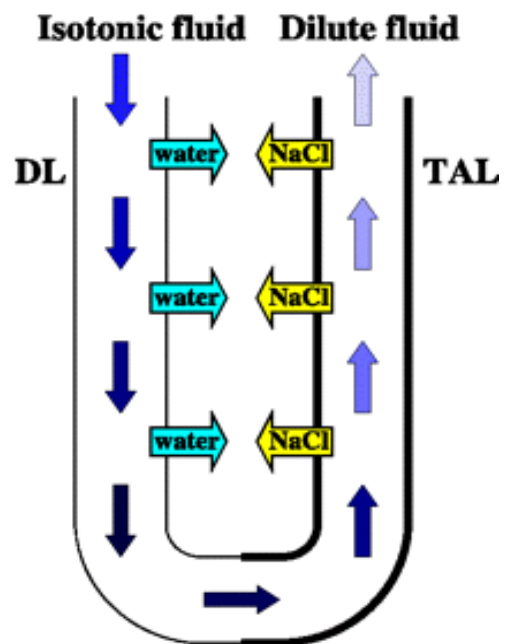
2

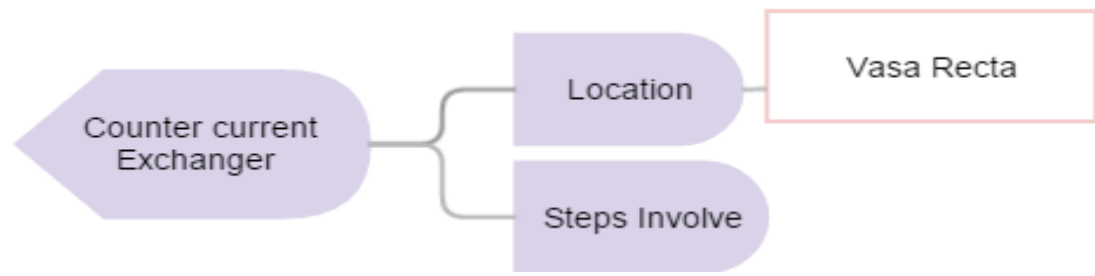
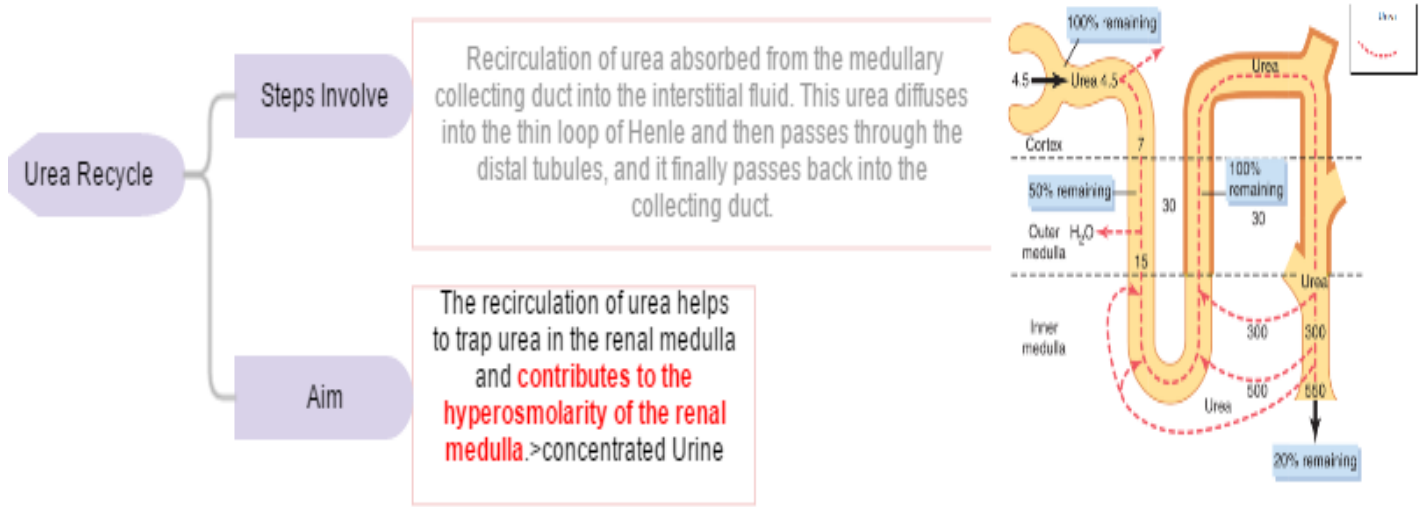


3



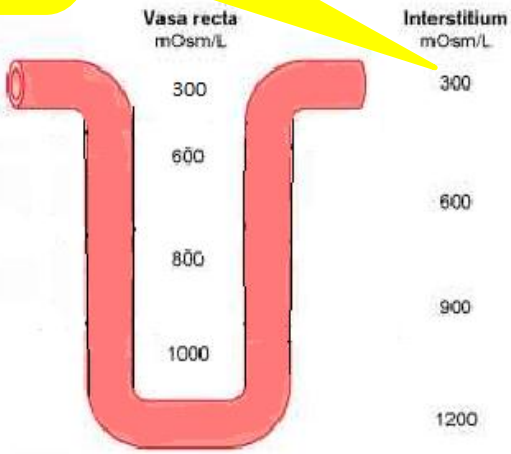
4





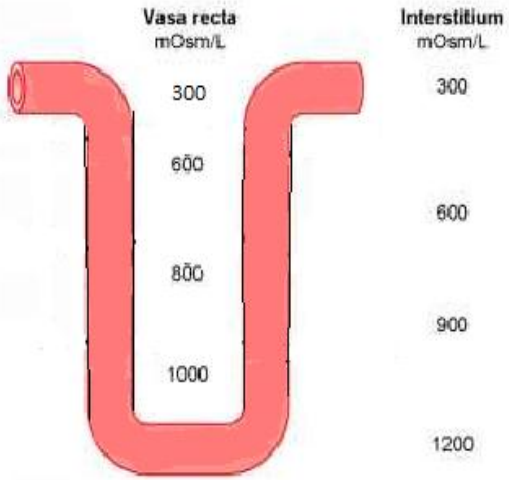
هذا التدرج بالتركيز وزيادة  
**medullary** تركيز  
**interstitial** ناتج  
 عن عملية  
**countercurrent**  
**Multiplier,**  
**vasa** ووظيفة  
**recta** تحافظ  
 على هذه القيم

1



2

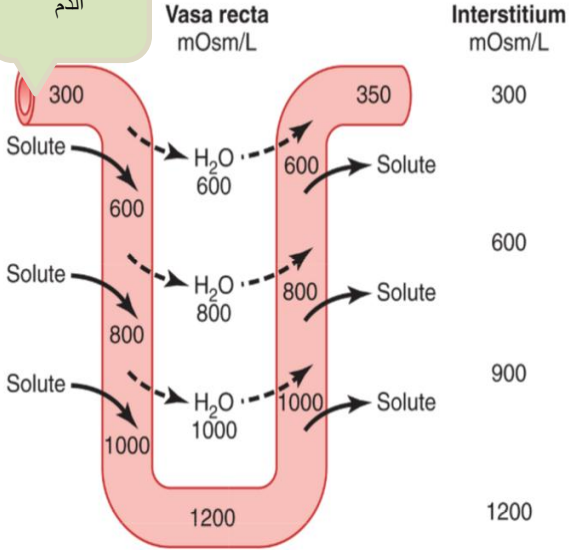
How can vasa recta maintain hyperosmolar medullary interstitial??



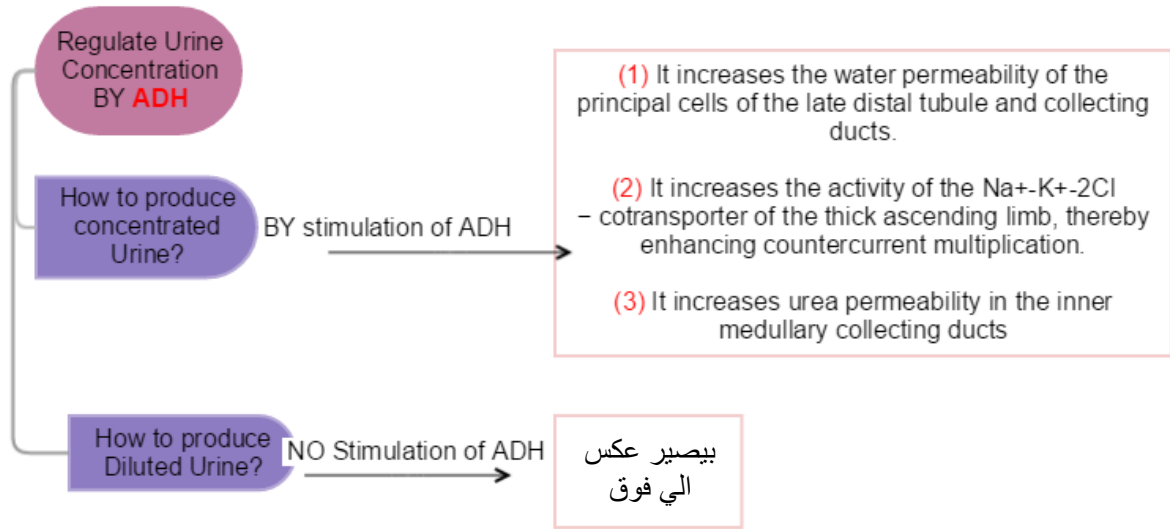
3

قاعد يحاول يزيد تركيزه لين  
 مايصير مساوي للي جنبه

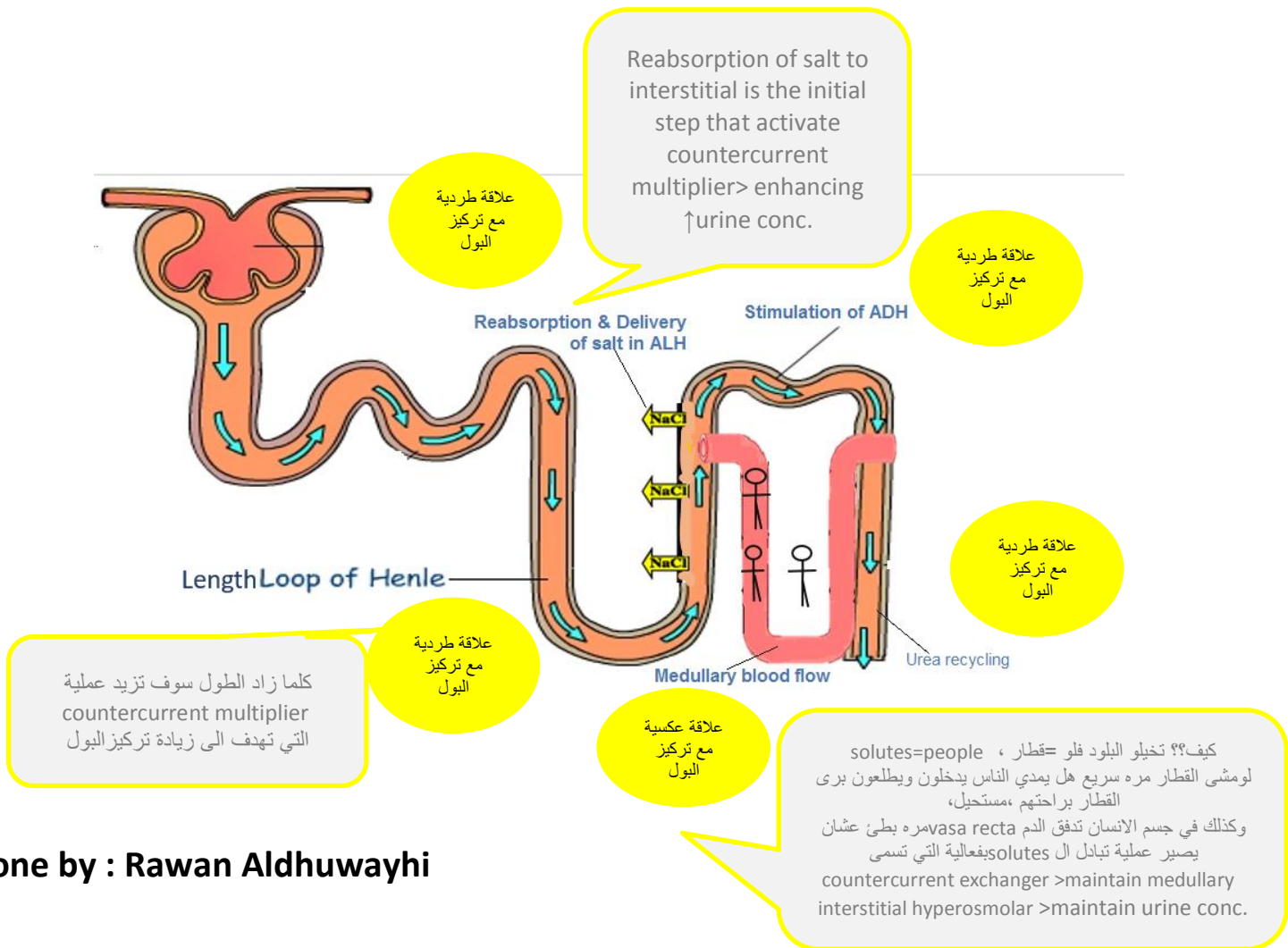
أول مايدخل  
 الدم



The osmolarity of blood inside vasa recta try to equilibrate with surrounded interstitial



## Factors affecting Urine conc.



Done by : Rawan Aldhuwayhi