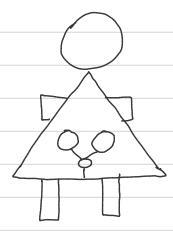
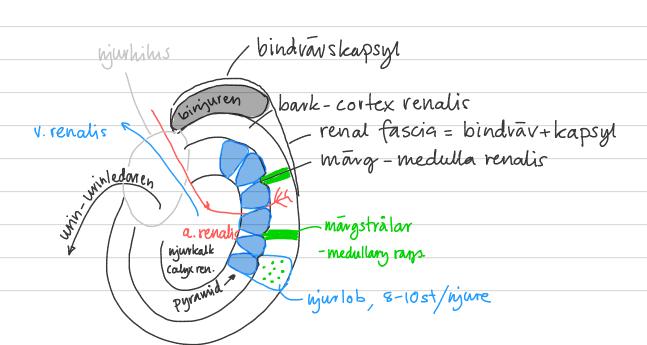
Njurar & winvagar



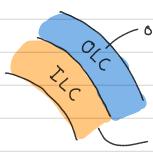
- · njurarna aktiva
- · urinledaren
- · urinblåsan lagring
- · urinroret

Njurarna

- · Kotor TI2-L3
- · hamtar viktiga annen H20 ~ 1801 21 urin
 - · clektrolyter, metaboliter
 - · blod/extrocellular vatskevolym
 - · Syra-bas-balans
 - · mycket vaskulariserad 25% CO "cardiac output"
- · endokrint -> EPO-RBC
 - renin blodtyck
 - activt vit 03



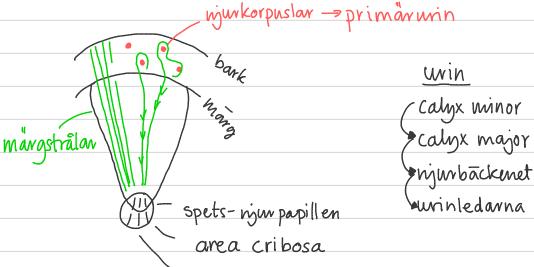


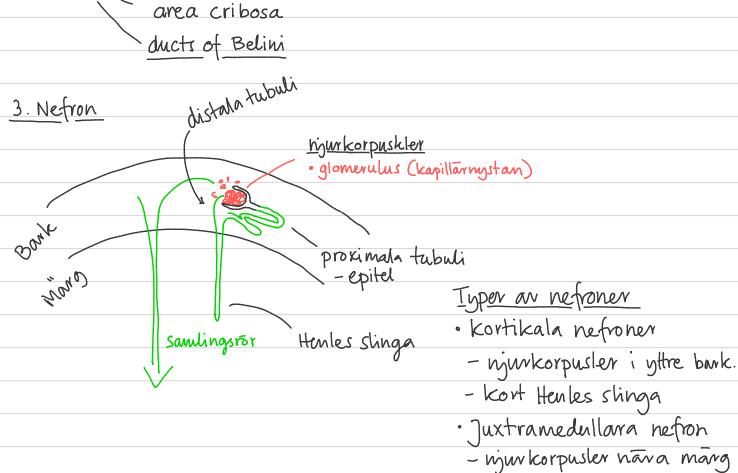


outer layer - fibroblaster + kollagen

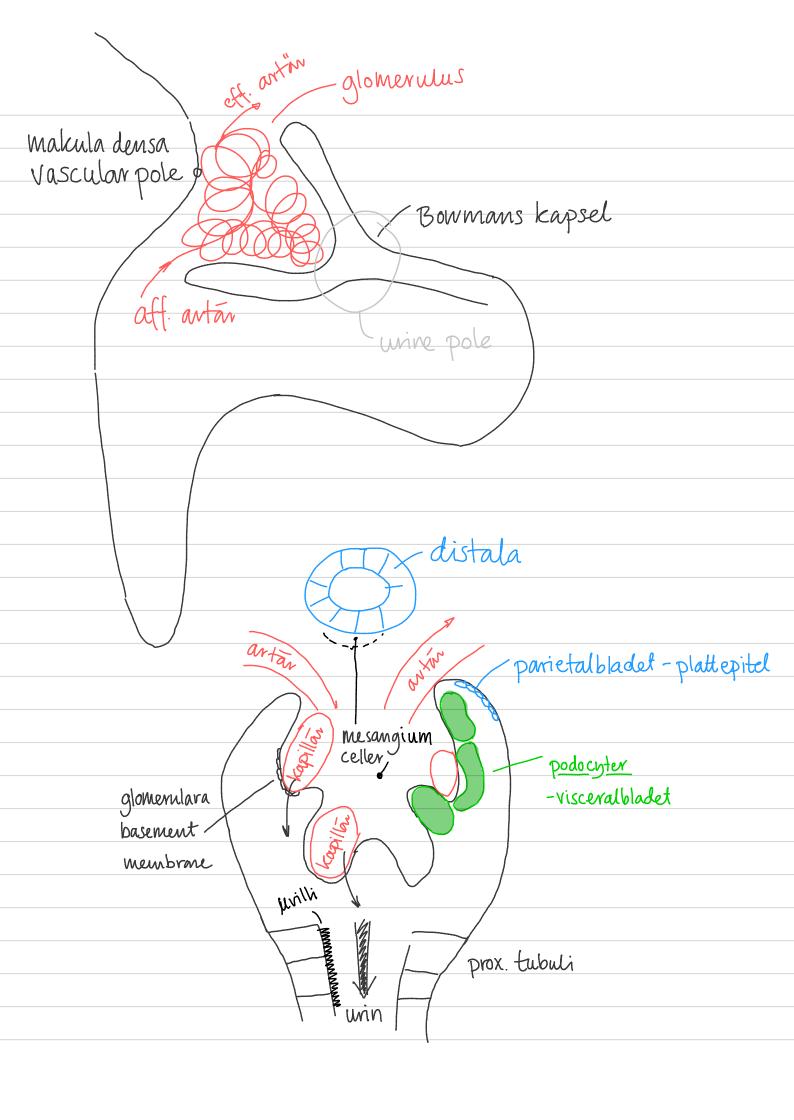
inner layer - myofibroblaster

2. Pyramid





- lång Henles slinga



Glomerulava filtrationsbarriaren

GBM = Glomerulosa Basement Membrane

kap: fenestrerat endotel \$70-90 nm

kollagen mutation

> 70k Da G.B.M @-laddning } 3-400 nm

Podocyt-fot Alports syndrom

filtration slit diaphragma (litet hålrum mellan podocyternas

(nephrin fotter)

Mesangium

- · mesangianceller
- · ECM-matrix
- ·Fagocytos/endocytos
- · Strukturellt stod
- · Skador IL, PGT, PDGF
- · kontraktila egenskaper

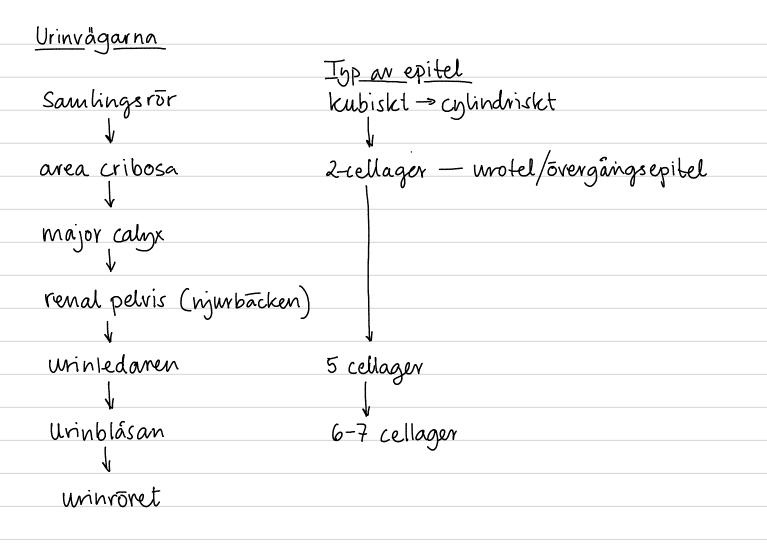
<u>Juxtaglomerulara apparaten</u>

- · Endoknin funktion
- · Malcula densa (distala tubuli)
- -[Na+]
- · Juxtaglomerulara celler -> renin ut i blodet... (RAS-systemet)
- · Extraglomerulara mesengialceller

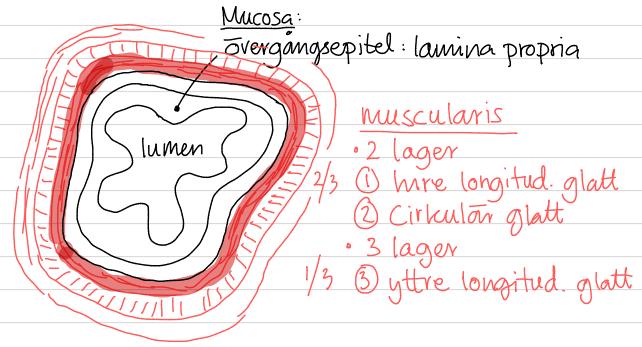
- (1) Proximala tubuli
 - kubiskt epitel med u-villi
 - -120l, 98%
 - aminosyror, socker (100%)
- 2 · plattane epitel
- 3 distala tubuli kubiskt
- Samlings rōr kubiskt → cylindriskt epitel (ADM → HzO)

Interstitiell varnad

- · Barken: 7% ou volymen
- O fibroblastliknande
- 1 makrofager
- · Margen 20%, av volym
- 1 mysfibroblastliknande producerar EPO







Uninblásan

