

URINARY SYSTEM

KIDNEY (REN, NEPHROS)

Facies anterior et posterior

Margo lateralis et medialis (hilum renale - sinus renalis)

Extremitas superior et inferior

Capsula fibrosa

Cortex renalis, medulla renalis- 6-20 pyramides renales

Columnae renales, pars radiata corticis

Papilla renalis – ductus papillares – area cribrosa

Lobus renalis s. renculus. - renculi-marking

Nephron: corpusculum renale (Malpighi) - glomerulus + Bowman`s capsule, tubulus proximalis, Henle`s loop, tubulus distalis, tubulus colligens - ductus papillares - foramina papillaria.

Primary urine (to the Bowman`s capsule) - 170-200 liters a day

Definitive amount of urine - 1, 5 liter a day.

Blood supply of kidneys

A. renalis - r. anterior (4 rr. praepelvis) and posterior (r. retropelvis).

5 vascular segments (segmentum superius, anterius superius, anterius inferius, inferius and posterius)

A. renalis accessoria - in 30 %.

Aa. segmentales – aa. lobares - aa. interlobares - aa. arcuatae - aa. interlobulares - vasa afferentia – glomerulus - vasa efferentia - arteriolae rectae

Venulae stellatae +venulae rectae - vv. interlobulares, vv. arcuatae and vv. interlobares.

V. renalis - v. cava inf.

Coverings of kidneys:

Capsula adiposa

Fascia renalis - lamina praerenalis and lamina retrorenalis

Corpus adiposum pararenale

Ren migrans x ectopic kidney

GLANDULA SUPRARENALIS

Facies anterior (hilum), facies posterior and facies renalis

Cortex - steroid hormones

Medulla - adrenaline and noradrenaline (epinephrine and norepinephrine).

CALICES RENALES, PELVIS RENALIS

Calices renales minores (7-14)

Calices renales majores (2-4)

Pelvis renalis (2-5 cm³).

URETER

Pars abdominalis, pelvina, intramuralis (ostium ureteris).

Lanz's point (urolithiasis)

ureteral sheath

VESICA URINARIA

Fundus vesicae (toward the rectum in male and cervix uteri in female).

Cervix vesicae – around ostium urethrae internum.

Corpus vesicae

Apex vesicae - ligamentum umbilicale medianum

Trigonum vesicae (without folds) – 2 ostia ureterum + ostium urethrae internum

Plica interureterica, fossa retrotrigonalis.

Uvula vesicae

M. sphincter vesicae

M. retractor uvulae

M. trigonalis.

Paracystium

URETHRA FEMININA

Ostium urethrae internum - ostium urethrae externum (papilla urethralis)

Pars intramuralis, pelvina, membranacea, perinealis.

Crista urethralis, lacunae urethrales - glandulae urethrales, ductus paraurethrales

M. transversus perinei profundus - m. sphincter urethrae