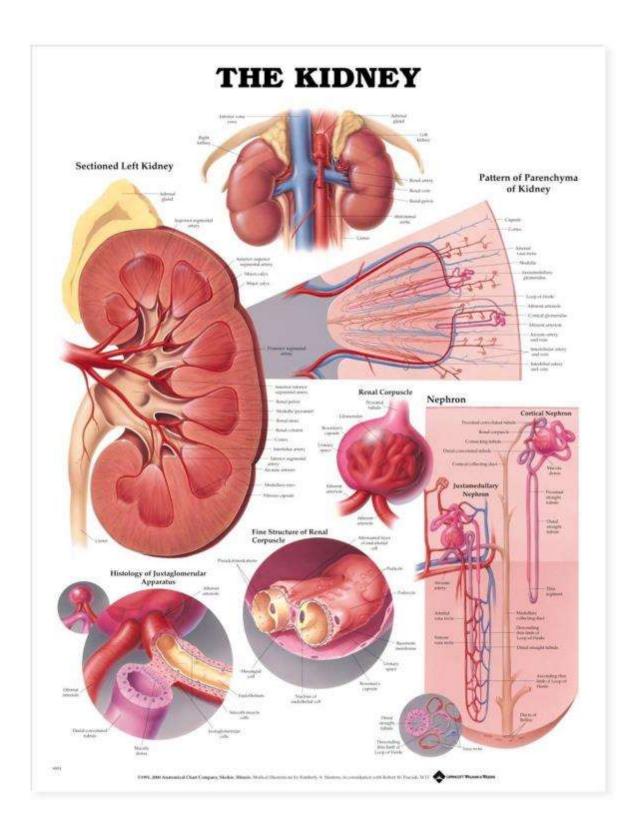
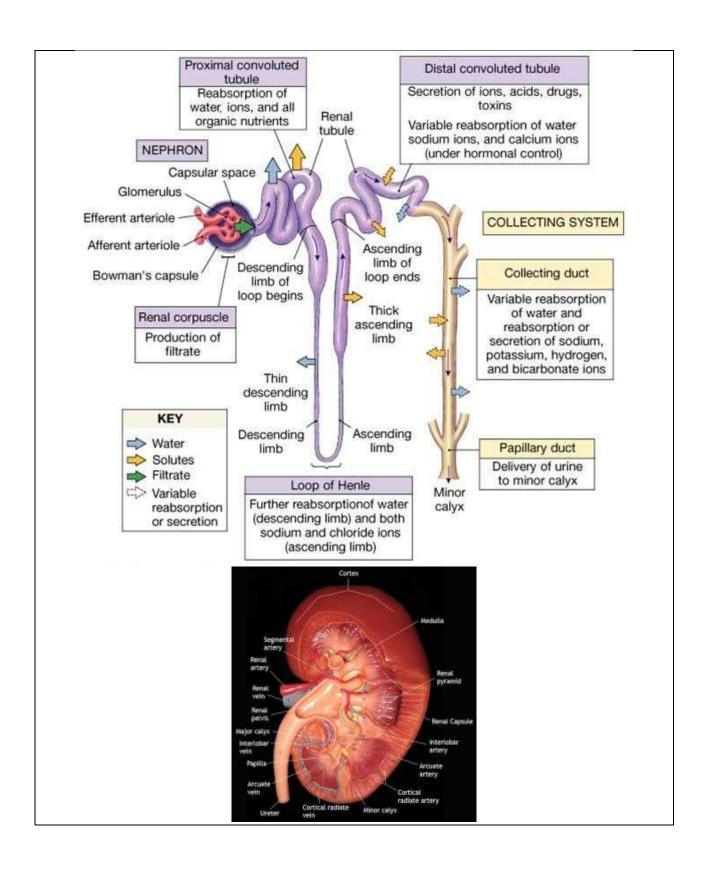
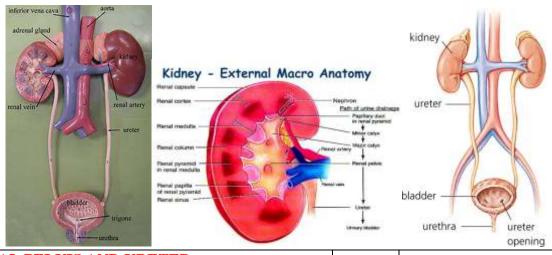
X. Relevant Normal Features 93

| KIDNEY | Functional Anatomy of the Kidney | | | | | | |
|--------------------|---|---|--|--|--|--|--|
| | Abdunited nets From time Int. planning t Middle suppyred t Cohe tools | Renti grands Bred grands Rest of the sales Rept | Admini pland Senal contex Senal capade Line State Li | Convidentia a suit la Perinancia limita Contrad giameralia Antonia Perinancia Vinentia Vinen | | | |
| Each is situated t | to one side of upper | part of abdomen | | | | | |
| Weight: | Right: | 125-170 g. (average is 140 (male) | | | | | |
| | + & - 20 g | 115-155 g. (average is 135) (female) | | | | | |
| | Left: | 150 g. (male) (the average) | | | | | |
| | | 140 g. (female) (the average) | | | | | |
| | | Longer, Narrower & Heavier | | | | | |
| Shape: | Bean-shaped or ovoid | | | | | | |
| Measurements: | Right: | Length: | 11 cm. | | | | |
| | | Breadth: | 6.2 cm. | | | | |
| | | Thickness: | 3.2 cm. (at m | 3.2 cm. (at middle) | | | |
| | Left: | Length: | 11.5 cm. | | | | |
| | | Breadth: | 6 cm. | | | | |
| | | Thickness: | 3.2 cm. | | | | |
| Consistence: | Soft Pliable | | | | | | |
| Colour: | Reddish-brown | | | | | | |
| Borders: | 1 Medial: | Concave (centre) | | | | | |
| | _ I/I/W/W/ | Convex (upper and lower ends) | | | | | |
| | 2 Lateral: | Convex (upper | 1 - 1 | | | | |
| Surfaces: | | | | | | | |
| | Smooth | Anterior | | | | | |

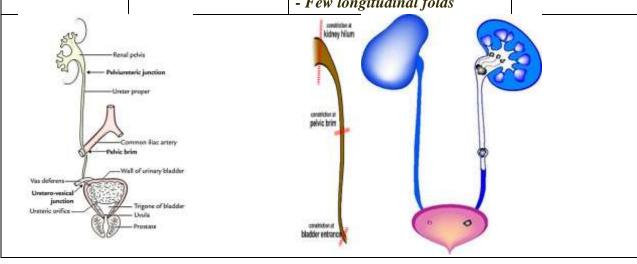




| On section | Cortex: | 1 cn | ıthick (ı | may be 1.2 or 1.3) | | |
|------------------|--|--------------------------|--|---|--|--|
| on section | | | ext to surface-capsule | | | |
| | | | Reddish-brown Iniformly-granular Faintly-streaked Soft | | | |
| | | | | | | |
| | | | | | | |
| | Medulla : | lulla = 1:3 | | | | |
| | Medulu . | | | and cortex | | |
| | | | Shows renal pyramids | | | |
| | | Renal Pale-gray masses | | | | |
| | | | | | | |
| | | P. | yramids | Triangular Stronglad (base > anow) | | |
| | | | | Streaked (base- > apex) Separated from one another by renal columns | | |
| | | | | Separated from one another by renal columns (extensions of cortical substance showing arterioles) | | |
| | | | | Well-defined from the medulla | | |
| | Renal papillae : | | Anico | al parts of pyramids projecting into calyces | | |
| | Renat pape | iiuc . | | er features | | |
| Kidney | Enclosed in | n a th | | | | |
| Kiuney | Enclosed in a thin fibrous capsule | | | | | |
| TT:I | Easily peeled off because of little areolar tissue Transmits Renal - Pelvis | | | | | |
| Hilum | 1 ransmus | | Kena | - Vessels | | |
| | | | | - Vessets - Nerves | | |
| 0 1 1 | 1 1 1 1 | | 1 , 1 | | | |
| · · | ŕ | | • | livides into numerous interlobar arteries. | | |
| | • • | | | teries cross the base of the pyramids parallel to the | | |
| • | ce (arcuate a | rterie | s), which | give rise to the interlobular arteries and cortical | | |
| vessels. | | | | | | |
| Sinus of kidney | Occupied by: | | • F | at | | |
| | | | • V | eins | | |
| | | | • A | rteries | | |
| | | | • L | • Lymph vessels Nerves | | |
| | | | - | s of ureter Calyces | | |
| Peri-nephric fat | • Insi | ide rei | nal fascia | | | |
| | Thickest at borders | | | | | |
| | | | | ~ | | |
| | | | | | | |

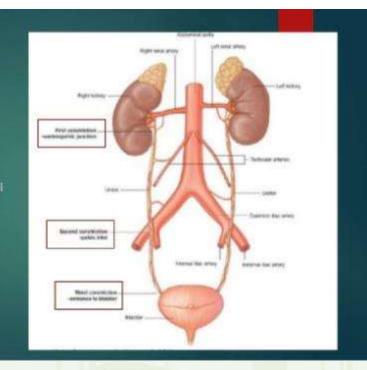


| RENAL PELV | IS AND U | RETER | | | | | | |
|------------------------------------|--|--------------------------|--|---|------|--|--|--|
| (a) RENAL PELVIS | | | | | | | | |
| Begins in sinus of kidney The less | | The lesse | ser calyces (10) → greater calyx | | | | | |
| | | | ter calyces (2) unit l commencement o | _ | lvis | | | |
| | Funnel | l-shaped | | | | | | |
| | Capacia | ty: | 7–10 cc. | | | | | |
| (b) URETER | A cylindrical muscular tube in abdomen proper & pelvis -> | | | | | | | |
| | Commences as an expansile funnel-shaped dilatation (pelvis of ureter) Thick-walled | | | | | | | |
| | Whitish gray | | | | | | | |
| | Slightly constricted, at | | | | | | | |
| | Emergence from pelvis (ureteropelvic junction) Crossing of external iliac artery Entrance into the bladder | | | | | | | |
| | Length | : | 20–30 cm. | | | | | |
| | Diamet | er: | 0.5-0.6 cm. | | | | | |
| Lumen: | Narrow | , | | | | | | |
| | Lined b | y mucosa . | : - Smooth | • | | | | |
| | | - Few longitudinal folds | | | | | | |
| 2 | 1 | | I mattebook | | | | | |





- Ureter has 3 Constrictions:
- 1. Pelvic-ureteric junction
- 2. When it crosses external flac vessel
- 3. Vesico-ureteric junction



- In addition to above three sites of constrictions, twomore sites of constrictions are described by the surgeons.
- 1. At juxtaposition of the vas deferens/broad ligament.
- 2. At the ureteric orifice.

