

KIDNEY:

Location:

- ⇒ occupy epigastric, hypochondriac, lumbar & umbilical
- ⇒ extend - upper border of T12 → centre body of L3
- ⇒ Right kidney is slightly lower than left.

Shape:

- 11cm long
- 6cm broad
- 3cm thick
- weight = 150g male
- 135 female

EXTERNAL FEATURE: is bean shaped

- Two poles - upper pole - Broad
- lower renal hilum

- lower pole - Pointed

- Two sulci - Ant sulcus - Irregular
- Post sulcus - flat

- Two borders - lateral border - convex
- Medial border - concave
- Middle part → hilum

Hilum - from Ant side to post side - Renal vein

Renal Artery
Renal pelvis
lymphatics if present

RELATIONS:

Anterior Relation: organ:

Pituitary covered Ant only. (suprahepatic for right kidney)

Relation common to both kidney

Upper pole - suprarenal gland

Medial border - suprarenal gland

Posterior Relation: Diaphragm

Medial of lateral aortic ligament

Quadratus lumborum

Transverse Atheria

Subcostal nerve usually 1 space

11th hypogastric Nerve of lower part

Left testis

11th & 12th Rib

Right

only 12th Rib

Ant Relation of Right kidney: Right suprarenal gland

- Liver
- 2nd part of duodenum
- Hepatic flexure of colon
- small intestine

Ant Relation of Left kidney: Left suprarenal gland

- Spleen
- Pancreas
- Splenic vessels
- Colic flexure

CAPSULE OF COVERING OF KIDNEY:

- fibrous capsule - thin membrane - closely united to it
- Normally it is easily stripped off
- Perinephric fat - layer of adipose tissue
- Renal fascia
- Pararenal fat - layer of fat lying outside the renal fascia

Renal fascia

=> Fibrous sheath consist of 2 layers

EXTENSION:

Superiorly - 2 layers enclose suprarenal gland
- then join each other & become continuous diaphragmatic fascia.

Inf: 2 layers remain separate & enclose ureter
- Ant - lost in extraperitoneal tissue of ilio psoas
- Post - blend with fascia iliaca.

Laterally - 2 layers unite and continuous with fascia transversalis

Medially - Ant layer pass in front of kidney & merge with connective tissue surrounding aorta & IVC

Post layer pass behind kidney & attaches to fascia covering quadratus lumborum & psoas major

Date _____
Page _____Date _____
Page _____

4

1

4

4

1

1

↓

10

1

1

2

1

7

24

2

1

15

↓

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

5

1

27

A

5

15

→ graphic Arts

...

English

1

1

51

1

1

2

1