

Abdominal wall muscles

External Oblique muscle

- Origin: Outer surface of lower 8 ribs
- Insertion:
 - ① linea alba (Xiphoid → Pubic arch)
 - ② Pubic crest, pubic tubercle
 - ③ iliac crest (Ant 1/2)
- Nerve supply:
 - ① lower 6 Thoracic nerves
 - ② L1 (Iliohypogastric, Ilioinguinal)

↳ Fibres move forward, downward, medially!!



Imp. points:- Aponeurosis forms:-

- ① Superficial inguinal ring: above + medial to pubic tubercle
- ② Inguinal ligament: ASIS → Pubic tubercle (Lower border of Apo)
- ③ Lacunar ligament: Medial border of femoral canal
- ④ Pectineal ligament: attached on pectineal line of the pubis
- ⑤ Inguinal canal
- ⑥ Rectus sheath: (Anterior border)

↳ Deep inguinal (Transversus Fascia)
 ↳ Superficial inguinal (Apo of EO)
 ↳ Pathway:-
 Deep → superficial → Testes (male) or ovaries (female)

Comp.....

- Origin: ① Lumbar fascia
 - ② iliac crest (ant 2/3)
 - ③ inguinal ligament (lat med 1/3)
- Insertion: ① Lower 3 ribs
 - ② Linea alba → ③ xiphoid
 - ④ pubic symphysis
- Nerve Supply: Same as External Oblique

↳ Conjoint tendon: Meeting of Internal Oblique and Transversus abdominis.

- Medially attached to linea alba
- laterally free!!

↳ Functions: Support for inguinal canal

↳ Cremasteric Fascia: part of internal oblique give support

Fibers run upwards, medially, forwards

Internal Oblique

Comp.....

Transversus abdominis

Fibers move transversely

- Origin:
 - ① Lumbar's fascia
 - ② iliac crest
 - ③ inguinal ligament (Clark's)
 - ④ inner surface of lower 6 costal cartilages

• Insertion: Linea Alba

Note: Don't forget conjoint tendon with IO

• Nerve supply: Same as above

Comp.

Rectus Abdominis + Pyramidalis

↑ Fibers move vertically

↑ located: Medially: Linea alba

Laterally: Linea semilunaris

↑ Origin: pubic symphysis, pubic crest

↑ Insertion: ① 5, 6, 7 Costal cartilages

② xiphoid process

↑ Nerve supply: No L1!! (Covers 6 thoracic only)

↑ Tendinous intersections: ① Umbilicus

② Xiphoid process

③ Between xiphoid and Umbilicus

④ Below Umbilicus

Pyramidalis

↑ Origin: Ant of pubis

↑ Insertion: Linea Alba

↑ Nerve Supply: T12 only