

Posterior abdominal wall nerve supply



* Objectives of this lecture:

Lumbar plexus

Sympathetic trunk

Aortic plexus

Sympathetic chain

* Read flash cards after you finish it is very important

Note: you can study this notes with or without watching the lecture , it's up to you 😊

**MAKE
ART**



(Lumbar plexus).

- in the psoas major muscle:-

X genitofemoral nerve: Through. (Anterior).

X medial → obturator
Lumbosacral trunk

X lateral → Ilioinguinal^{L1}, Iliohypogastric^{L1}, L.C.N^{L2, L3}, Femoral.

- Ilioinguinal: skin above, symphysis pubis (below umbilicus).
- Iliohypogastric: Inguinal canal (through) to skin of scrotum.
- L.C.N: Lateral side of thigh.

{ femoral → behind inguinal ligament (L2, L3, L4) ~ Femoral triangle. (skin sensation).

• Obturator → L2, L3, L4

{ Lumbosacral trunk (L4, S1)

{ genitofemoral nerve (L1, L2) → before inguinal ligament → A) femoral
B) genital

A) femoral → ☺

B) genital → enters the inguinal canal, skin on cremasteric


→ cremasteric reflex: - Itching on upper medial part of skin
→ contraction → pull testis upwards.

↳ can be absent: A- testicular torsion
B- cut of L1, L2 (damage).



* cervical, thoracic, lumbar, pelvic. on lateral side of vertebral column.

* if the spinal nerve enters the sympathetic ganglia and synapses
→ white rami communicantes (preganglionic)

* if the  exit the sympathetic ganglia and go back to spinal nerve
→ grey rami communicantes (post ganglionic)

- white rami in abdomen comes from L1, L2 spinal nerves. (T1-T12, L1 & L2) = 14

- grey rami (from all) → all the vertebral column ≈ 31

* postganglionic → blood vessels, glands.

(splanchnic nerves).
- Prevertebral ganglia → celiac ganglia, S.M. ganglia, I.M. ganglia (Aortic plexus)

* and these ganglia where Aortic plexus come from.

• celiac plexus → 2 C.N connected by fibers → celiac autreg. (Foregut)

• renal plexus → lowest splanchnic

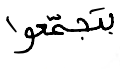
• I.M. plexus → L1/2

(so it is thoracolumbar) (sympathetic)
hindgut ← lumbar splanchnic

- Para sympathetic

vagus → celiac, S.M. plexus until the lateral 3rd of transverse colon.

S2,3,4 → hindgut (lateral 3rd, descending, rectum, upper 1/2 anus)

Both →  in hypogastric plexus.

② sympathetic, parasympathetic



of ganglia:

(Sympathetic chain)

C=3, Th=10-12, L=4, S=4, coccygeal=1

preganglionic fibers:

Origin : # : 14 \approx Synapse at ganglia -

ex: T₅ ~ ganglion # 5 (synapse)

T₅ ~ ganglia # 3 (upwards)

T₅ ~ ganglia # 7 (downwards)

} sympathetic chain.

★ T₅ ~ prevertebral ganglia \approx celiac, Superior M, Inferior M (splanchnic)

origin (pre) ~ ganglia (synapse) ~ lost ~ go to organs by plexuses

NOW THIS IS

Remarkable