Pelvis and Perineum Overview

M3 Clerkship
Bones and Ligaments of Pelvis
Anterior View
Arteries of Rectum and Anal Canal: Posterior View
Nerves of Pelvic Viscera
Female - Sagittal Section
Nerves of Pelvic Viscera: Male

- Anterior vagal trunk
- Posterior vagal trunk
- Celiac branch
- Inferior phrenic arteries andplexuses
- Left gastric artery and gastric plexus
- Celiac ganglia, plexus and trunk
- Left aortorenal ganglion
- Superior mesenteric ganglion
- Superior mesenteric artery and plexus
- Intermesenteric (aortic) plexus
- Inferior mesenteric ganglion, artery and plexus
- Ureter and ureteric plexus
- Superior hypogastric plexus
- Superior rectal artery and plexus
- Hypogastric nerves
- Nerve from inferior hypogastric plexus to sigmoid and descending colon (parasympathetic)
- Sacral splanchnic nerves (sympathetic)
- Inferior hypogastric (pelvic) plexus
- Obturator nerve and artery
- Duodenal plexus and plexus
- Vesical plexus
- Rectal plexus
- Prostatic plexus
- Cavernous nerves of penis
- T10 spinal nerve (anterior ramus)
- White and gray rami communicantes
- Greater splanchnic nerve
- Lesser splanchnic nerve
- Least splanchnic nerve
- Diaphragm
- Left renal artery and plexus
- L1 spinal nerve (anterior ramus)
- Gray rami communicantes
- White rami communicantes
- 1st, 2nd, 3rd lumbar splanchnic nerves
- Gray rami communicantes
- Sympathetic trunk and ganglia
- 5th lumbar splanchnic nerve
- L5 spinal nerve (anterior ramus)
- Lumbosacral trunk
- Gray rami communicantes
- S1 spinal nerve (anterior ramus)
- Pelvic splanchnic nerves (parasympathetic)
- Sacral plexus
- Plantaris muscle
- Gluteus maximus muscle and sacrotuberous ligament
- (Ischial)-coccygeus muscle and sacrospinous ligament
- Pudendal nerve
- Levator ani muscle
- Inferior anal (rectal) nerve
- Perineal nerve
- Dorsal nerve of penis
Neuropathways in Parturition

Greater splanchnic nerve
Lesser splanchnic nerve
Least splanchnic nerve
Celiac ganglion
Anterior mesenteric ganglion
Superior mesenteric ganglion
Intermediate (aortic) plexus
Lumbar splanchnic nerves
Iliohypogastric nerve (L1)
Iliovaginal nerve (L1)
Vesicle plexus
Dorsal nerve of clitoris
Posterior labial nerves

Motor fibers to uterine body

Sensory fibers from uterine body and fundus accompany sympathetic fibers via hypogastric plexuses to T11, T12 (L1?).

T7 spinal nerve (anterior ramus)
T11 spinal nerve (anterior ramus)
Sympathetic trunk and ganglia
Rami communicantes
Subcostal nerve (T12)
Inferior mesenteric ganglion
Intermediate (aortic) plexus
Superior hypogastric plexus
S1 spinal nerve (anterior ramus)
Hypogastric nerves
Pelvic splanchnic nerves
 Inferior hypogastric (pelvic) plexus
Uterovaginal plexus
Pudendal nerve (S2, 3, 4)
Inferior anal (rectal) nerve

Sensory fibers from cervix and upper vagina accompany pelvic splanchnic nerves (parasympathetic) to S2, 3, 4.

Motor fibers to lower uterine segment,

Sensory fibers from lower vagina and perineum accompany somatic fibers via pudendal nerve to S2, 3, 4.

Motor fibers to lower vagina