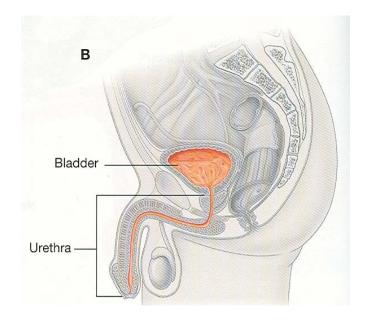
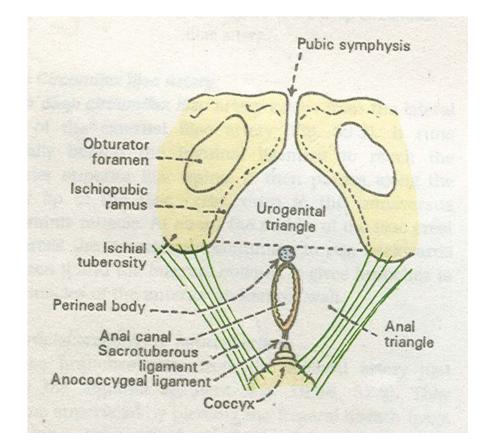
Perineum

Rhomboid space at the lower end of abdomen which lies between two thigh



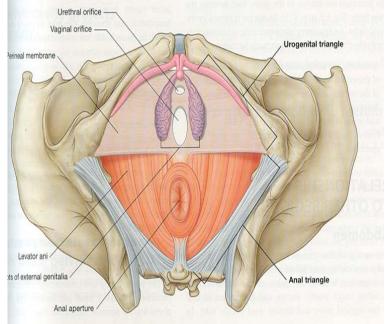
Boundaries

- Anteriorly bounded by pubic arch and Arcuate pubic ligament
- Posteriorly the tip of coccyx
- On each side ischiopubic rami, ischial tuberosity & sacrotuberous ligament



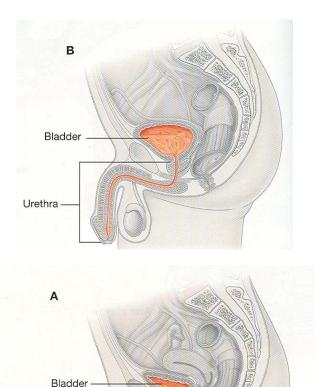
Division

- Divided into two regions by a line joining the anterior part of ischial tuberosity
- Urogenital region
- Anal region



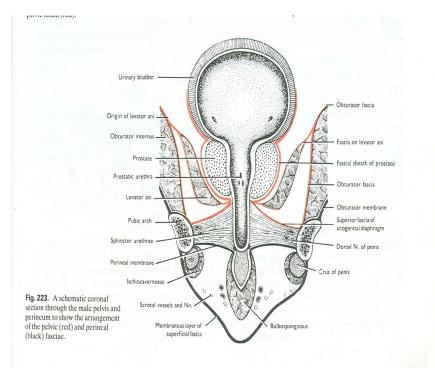
Urogenital region

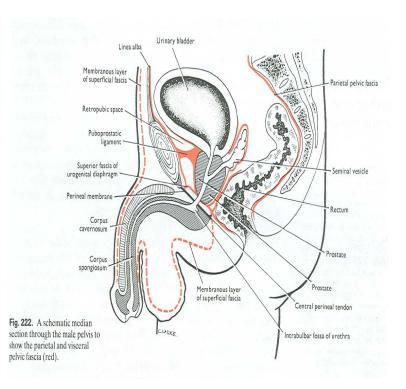
- Placed between two ischiopubic rami
- In male contains urethra enclosed by root of penis, scrotum
- In females contains urethral and vaginal orifice & female external genitalia
- Three membranes
- Two spaces



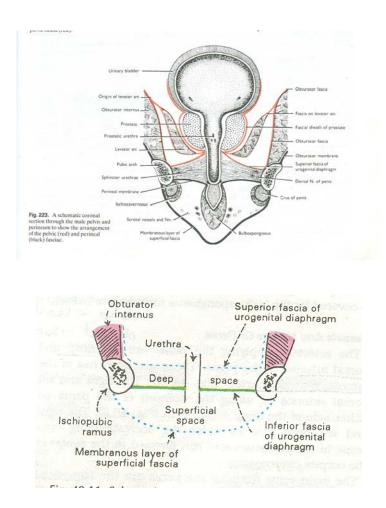
Urethra

Three membranes Two spaces



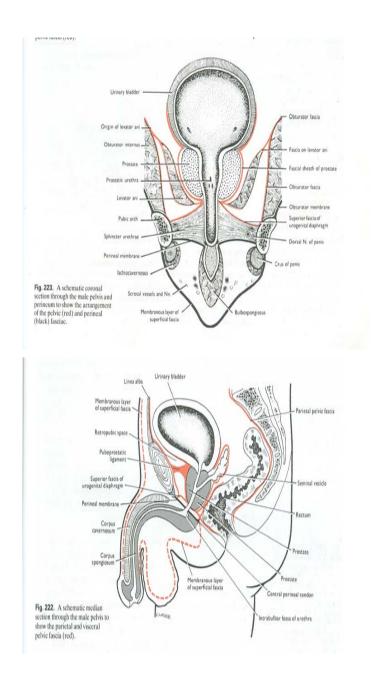


- Part of pelvic fascia continuous laterally with the fascia over obturator internus & constitutes superior fascia of urogenital diaphragm
- Second membrane is inferior fascia of the urogenital diaphragm (Perineum)
- Most superficial membrane is membranous layer of superficial fascia

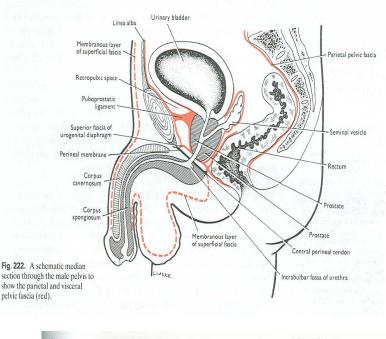


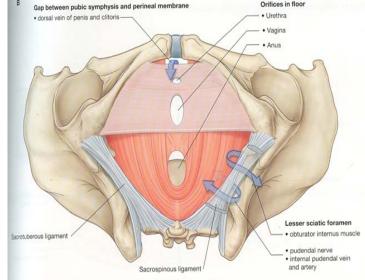
• Between upper and middle layer is deep perineal space

 Between the middle and membranous layer is superficial perineal space



- Posteriorly all three membranes are attached to perineal body & to each other thus closing the perineal spaces behind
- Anteriorly the upper & middle membrane fuse a little behind the pubic symphysis & form transverse ligament of the pubis
- Traced Anteriorly the membranous layer is continues with the anterior abdominal wall





Structures piercing the perineal membrane in males

- Urethra
- Duct of bulbourethral gland
- Artery & nerve to bulb, urethral artery, deep artery & dorsal artery of penis
- Posterior scrotal nerves & vessels
- Branches of perineal nerve to superficial perineal muscles

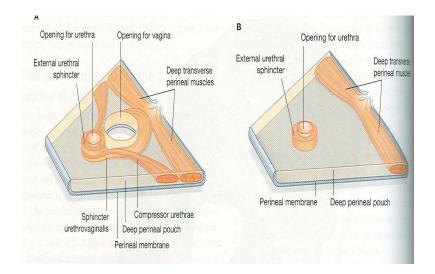
Structures piercing the perineal membrane in females

- Urethra
- Vagina
- Artery & nerve to the bulb of the vestibule
- Deep & dorsal artery of clitoris
- Posterior labial arteries & nerves
- Branches of perineal nerve to superficial perineal muscles

Urogenital diaphragm

Formed by

- Superficial fascia of urogenital diaphragm
- Deep perineal muscles Sphincter urethrae, Deep transverse perinei
- Inferior fascia of urogenital diaphragm (perineal membrane)

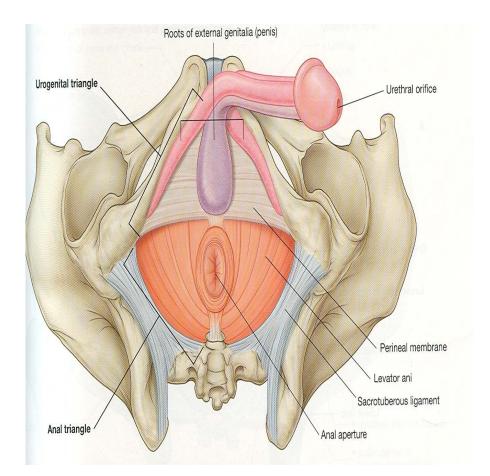


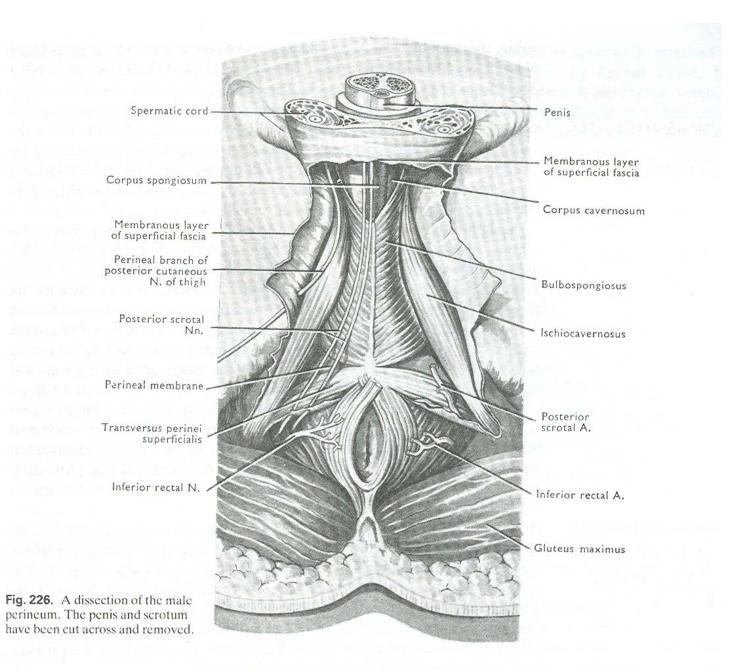
Superficial perineal space in the male

- Contents
- Root Of Penis Bulb Right & left crura
- Muscles

Bulbospongiosus Ischiocavernosus Superficial transversus perinei All muscles are supplied by

perineal branch of pudendal nerve





Nerves

•Branches of perineal nerve- posterior scrotal, nerve to bulb & muscular

•Long perineal nerve from posterior cutaneous nerve of thigh

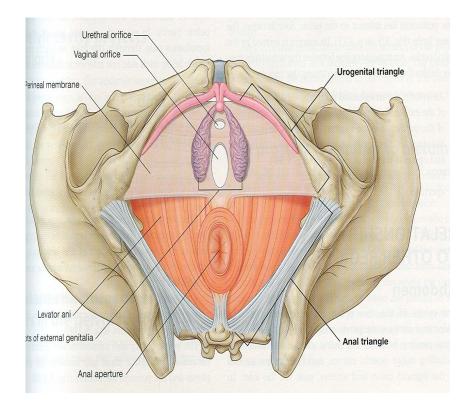
•Vessels- branches of perineal artery namely posterior scrotal and transverse perineal

Branches of artery of penis namely artery to bulb, urethral artery and deep &dorsal artery of penis

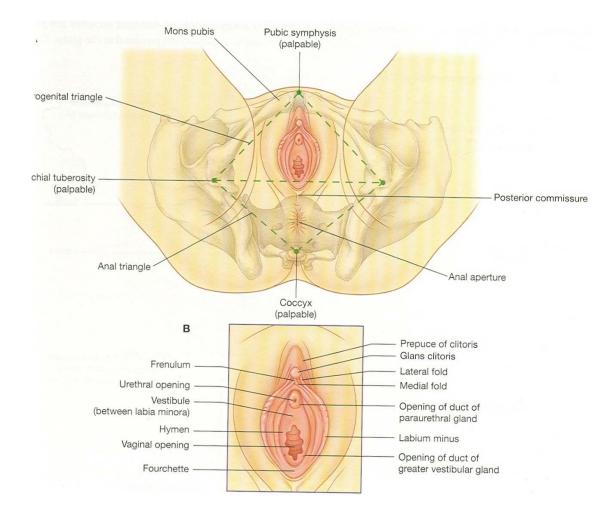
Superficial perineal space in the female

- Female external genitalia
- Muscles

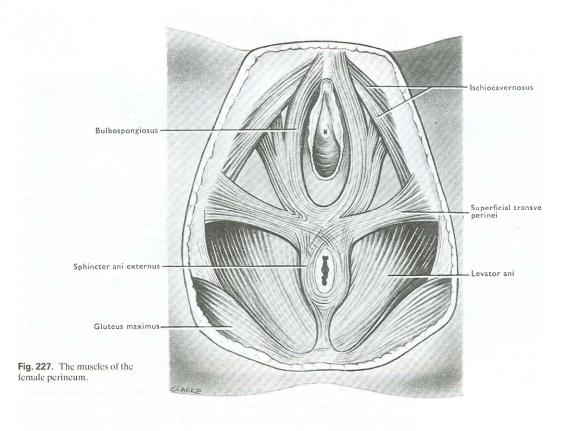
Bulbospongiosus Ischiocavernosus Superficial transversus perinei Nerve supply of muscles is by perineal branch of pudendal nerve



Female external genital organs



Muscles



Nerves

- Branches of perineal nerve- posterior labial, nerve to bulb & muscular
- Long perineal nerve from posterior cutaneous nerve of thigh
- Vessels- branches of perineal artery namely labial and transverse perineal
- Branches of artery of clitoris namely artery to bulb,deep &dorsal artery of clitoris
- greater vestibular gland in females

Deep perineal space

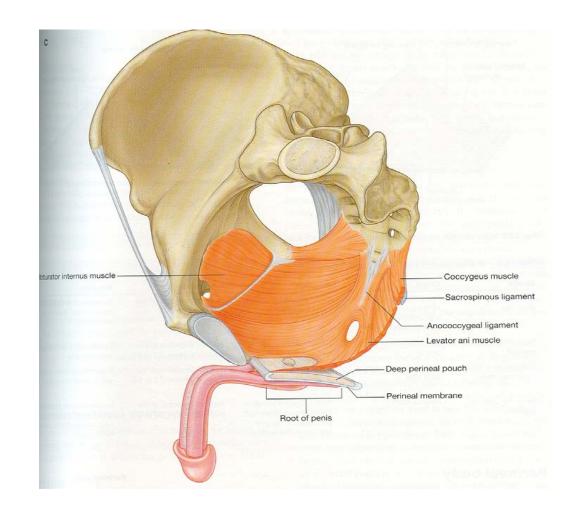
- Contents
- Membranous urethra
- Muscles- sphincter urethrae, deep transverse perinei

Nerves-

 Dorsal nerve of penis and muscular branches from perineal nerve

Vessels-

- Artery of penis
- Bulbourethral Gland In Males

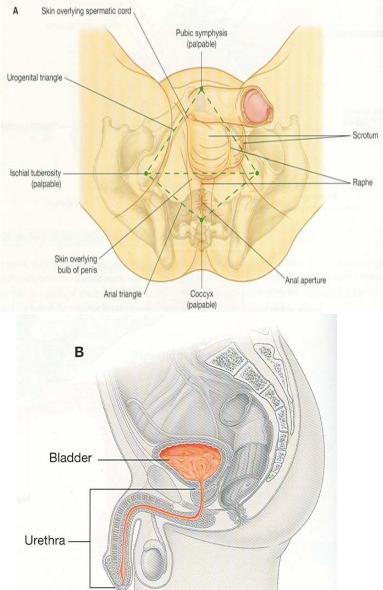


Applied

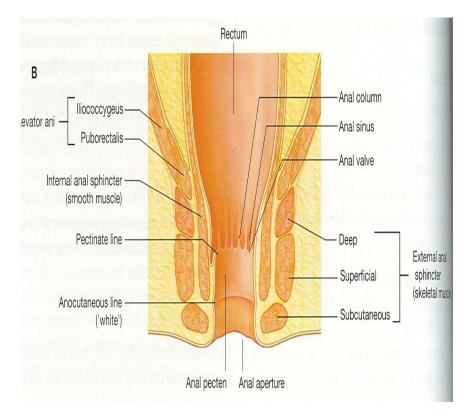
- Membranous part of urethra is narrowest
 & least dilatable
- Extravasation of urine
- Proalpse of pelvic viscera due to perineal body rupture

ANAL REGION

- Triangular area between the posterior margin of the urogenital diaphragm & the coccyx
- Transmits the anal canal

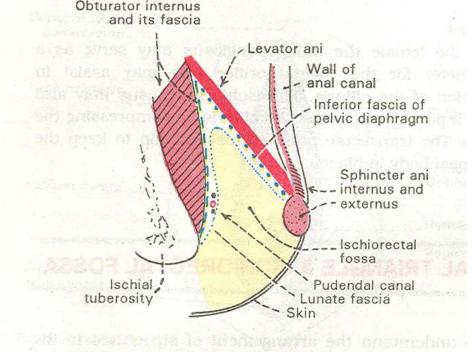


- Anal canal is surrounded by external anal sphincter
- Anal canal is connected to the coccyx by anococcygeal ligament
- On either side of canal is a triangular space called ischiorectal fossa
- Perineal body (central tendon of perineum) is situated 1.25 cm anterior to anal canal



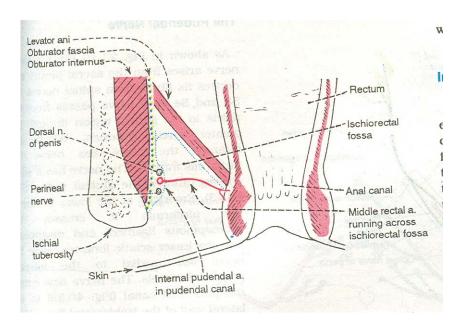
Ischiorectal fossa

- Wedge shaped space between obturator internus & levator ani
- Base is formed by skin
- Widest & deepest Posteriorly, continues with the lesser sciatic foramen
- Anteriorly continues with a narrow space filled with loose areolar tissue
- Lateral wall by fascia covering obturator internus
- superomedial wall formed by fascia covering levator ani & external anal sphincter



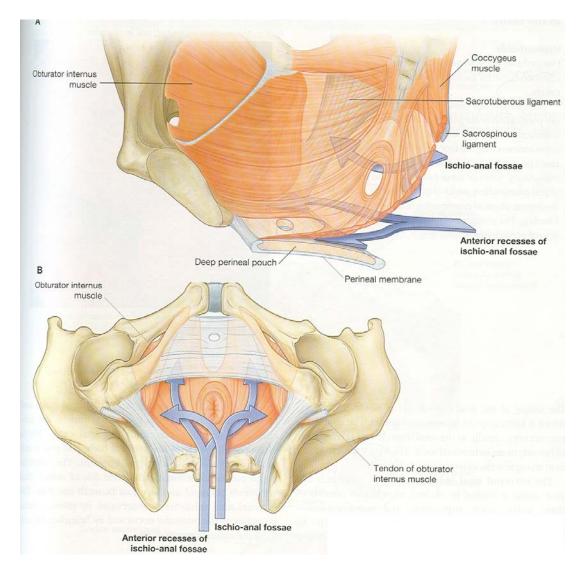
Contents of Ischiorectal fossa

- vessels & nerves that enter thru lesser sciatic foramen and run in pudendal canal
- Perineal branch of the fourth sacral nerve
- Perforating cutaneous branches of S2 &3



Recesses of Ischiorectal fossa

- Anterior recess
- Posterior recess
- Horseshoe recess

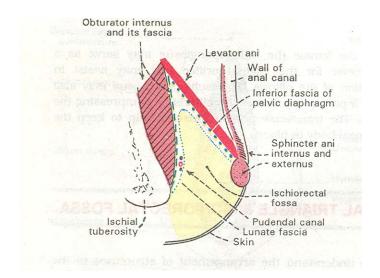


Applied anatomy

- Ischiorectal abscess
- Anorectal fistula and external sinus
- Prolapse of rectum
- Ischiorectal hernia

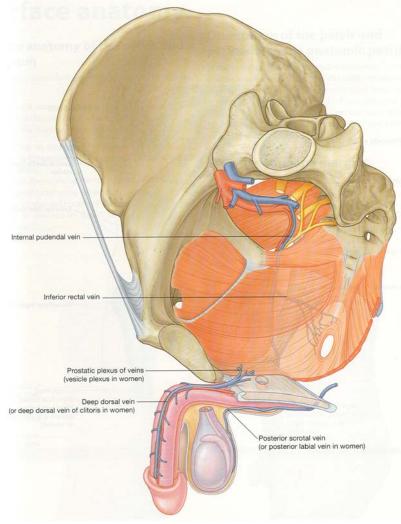
PUDENDAL CANAL

- seen in the lateral wall of Ischiorectal fossa
- bounded laterally by obturator fascia
- Medially by lunate fascia
- Begins Posteriorly near lesser sciatic foramen
- Inferiorly related to sacrotuberous ligament
- Extends to the posterior border of perineal membrane



Contents

- Pudendal nerve S234
- Internal pudendal vessels

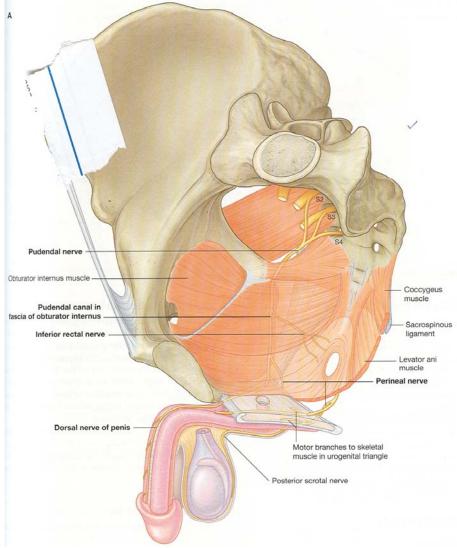


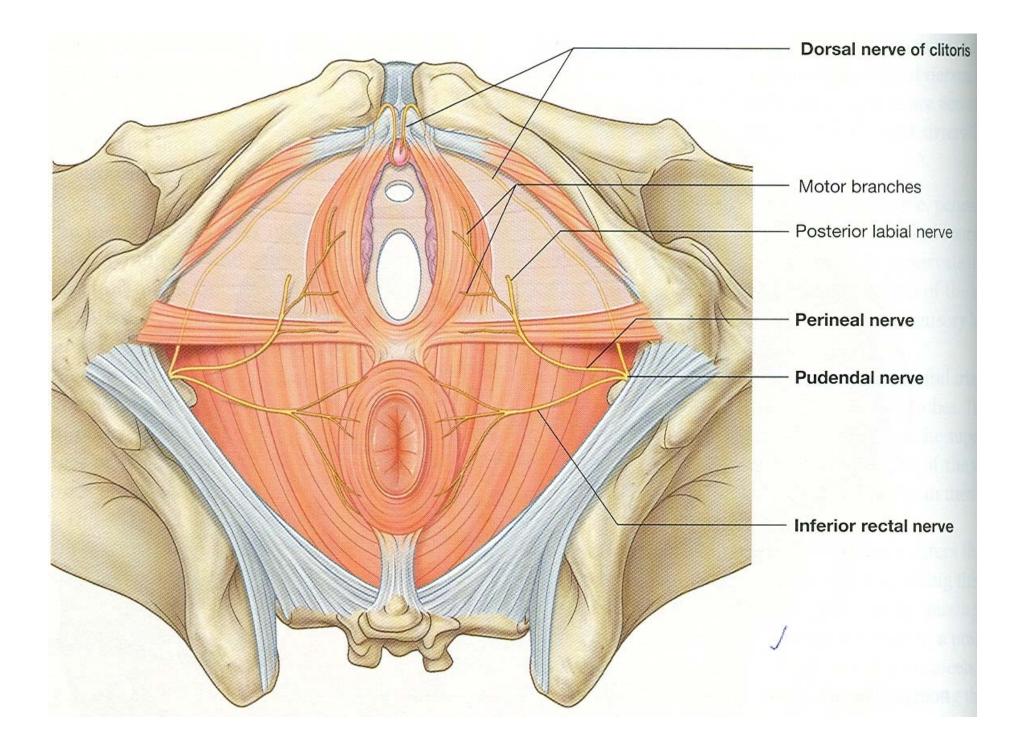
Pudendal nerve

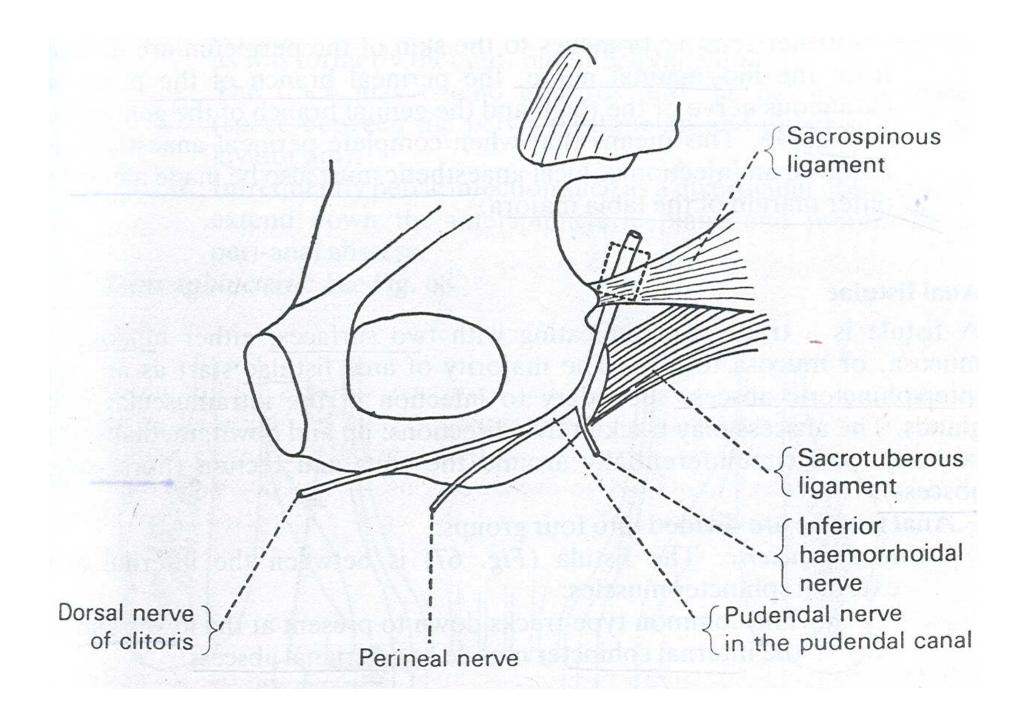
- Chief nerve of perineum & external genitalia
- Derived from sacral plexus
- Branches

 Inferior rectal nerve
 Perineal nerve
 Dorsal nerve of
 penis

 Applied pudendal
 nerve block







Internal pudendal artery

- Chief artery of perineum
- Terminal branch of anerior division of internal iliac artery
- Branches
- Inferior rectal artery
- Perineal atrery
- Artery of penis/clitoris

