

Boundaries & Relations

Boundaries of the Perineum

Anteriorly	Posteriorly	Anterolateral	Posterolateral
Inferior margin of symphysis pubis	Tip of coccyx	Fused rami of pubis and ischium and ischial tuberosity	Sacrotuberous ligaments

Boundaries of Deep Perineal pouch

Floor	Roof	On either side	Posteriorly	Anteriorly
Perineal membrane (inferior fascia of urogenital diaphragm)	Inferior fascia of pelvic diaphragm (levator ani)	Obturator fascia	The pouch is closed by union of roof and floor	The pouch is closed by union of roof and floor below symphysis pubis to form the transverse perineal ligament

Boundaries of Superficial Perineal pouch

Floor	Roof	On either side	Posteriorly	Anteriorly
Membranous layer of the superficial fascia of the perineum (Colles fascia)	Perineal membrane	both roof and floor are attached to the side of the pubic arch	The pouch is closed by union of the roof and floor	The pouch is opened and continuous with the interval between the membranous layer of anterior abdominal wall and the external oblique aponeurosis

Boundaries of Ischioirectal fossa

Apex	Base	Anteriorly	Posteriorly	Lateral wall	Medial wall
it is the origin of levator ani from the lateral pelvic wall	skin on either side of the anal orifice (supplied by inferior rectal N.)	posterior border of the perineal membrane	sacrotuberous ligament covered by lower border of gluteus maximus muscle	<ul style="list-style-type: none"> Lower part of obturator internus muscle and lower part of obturator fascia splitting to form pudendal canal. Medial surface of ischial tuberosity 	<ul style="list-style-type: none"> Levator ani muscle (lower surface). External anal sphincter.

Uterus

Fundus	Anterior (vesical) Surface	Posterior (intestinal) Surface	Lateral borders
related to coils of small intestine and sigmoid colon	related to the urinary bladder, with uterovesical pouch in between	related to sigmoid colon and coils of small intestine	<ul style="list-style-type: none"> Anteroinferior to the uterotubal junction it is attached to round ligament of uterus. Posterosuperior to the uterotubal junction, it is attached to the round ligament of the ovary .

Cervix of the Uterus

Anteriorly	On each side	Posteriorly
related to urinary bladder with a parametrium in between	related to parametrium, in which the uterine artery crosses the ureter 2 cm from the supravaginal cervix	related to the rectum with Douglas pouch in between

Relations of the Vagina

Anterior wall	Posterior wall	Lateral wall
Base of the bladder Urethra	<ul style="list-style-type: none"> • Upper 1/4: rectum with Douglas pouch in between. • Middle 2/4: rectum. • Lower 1/4: anal canal with the perineal body in between 	<ul style="list-style-type: none"> • Upper part: ureter. • Middle part: sphincter vaginae part of the levator ani. • Lower part: muscles of urogenital diaphragm (in the deep perineal pouch), bulbs of vestibule and greater vestibular glands (in the superficial perineal pouch).

Deep Relations of breast

The retromammary space	<ul style="list-style-type: none"> • It is loose areolar tissue between the gland and deep fascia (pectoral fascia) • Allows the free mobility of the breast over the deep fascia.
The deep fascia	Covering the pectoralis major muscle
The flat base of the breast	lies on the pectoralis major (medial 2/3) and serratus anterior (lateral 1/3).
The lower lateral part of the gland	rests on the external oblique muscle of the abdomen

Contents

Contents of Urogenital triangle

External genitalia
Superficial perineal pouch
Deep perineal pouch

Contents of Urogenital triangle

Anal Canal in the median plane
Ischiorectal fossa on either side of anal canal
Pudendal canal in side wall of ischiorectal fossa

Contents of Pudendal canal

Pudendal nerve
Internal pudendal vessels

Contents of Superficial Perineal pouch

Males

Urogenital Structures	<ul style="list-style-type: none"> • Root of penis. • Penile urethra.
Muscles	<ul style="list-style-type: none"> • Two ischiocavernosus muscles. • Bulbospongiosus muscle. • Two superficial transverse perineal muscles.
Vessels	<ul style="list-style-type: none"> • Dorsal A. of penis. • Deep A. of penis. • Two scrotal arteries
Nerves	<ul style="list-style-type: none"> • Dorsal N. of penis. • Two scrotal nerves

Females

Urogenital Structures	<ul style="list-style-type: none"> • Root of clitoris. • Two bulbs of vestibule. • Greater vestibular glands.
Muscles	<ul style="list-style-type: none"> • Two ischiocavernosus muscles. • Bulbospongiosus muscle. • Two superficial transverse perineal muscles.
Vessels	<ul style="list-style-type: none"> • Dorsal A. of clitoris. • Deep A. of clitoris. • Two labial arteries.
Nerves	<ul style="list-style-type: none"> • Dorsal N. of clitoris. • Two labial nerves.

Contents of Deep Perineal pouch

Males

Urogenital Structures	<ul style="list-style-type: none"> • Membranous urethra. • Bulbourethral glands.
Muscles	<ul style="list-style-type: none"> • Sphincter urethrae. • Deep transverse perineal muscles.
Vessels	<ul style="list-style-type: none"> • Internal pudendal A.. • Artery of bulb. • Perineal A. • Urethral A.
Nerves	<ul style="list-style-type: none"> • Dorsal N. of penis. • Perineal N..

Females

Urogenital Structures	<ul style="list-style-type: none"> • Part of the urethra. • Part of vagina
Muscles	<ul style="list-style-type: none"> • Sphincter urethrae. • Deep transverse perineal muscles.
Vessels	<ul style="list-style-type: none"> • Internal pudendal A.. • Artery of bulb of vestibule. • Perineal A..
Nerves	<ul style="list-style-type: none"> • Dorsal N. of clitoris. • Perineal N..

Contents of Ischiorectal fossa

Pudendal nerve
Internal pudendal vessels
Inferior rectal nerve
Inferior rectal vessels
Posterior scrotal nerves
Posterior scrotal vessels
Perforating cutaneous N. (S2, S3)
Pad of Fat : It is rich in fibroelastic fibres

Structures accompany the Round ligament of the uterus in inguinal canal

Artery of the round ligament (corresponds to the cremasteric A. in the male)
Genital branch of genitofemoral N. ; supplies the labia majora
Lymphatics from the uterotubal junction to the superficial inguinal lymph nodes

Contents of the broad ligament

Genital Structures	Uterine tube
ligaments	<ul style="list-style-type: none">• Round ligament of the uterus.• Round ligament of the ovary.
Vessels	<ul style="list-style-type: none">• Uterine vessels.• Ovarian vessels
Nerve plexuses	<ul style="list-style-type: none">• Uterovaginal plexus around the uterine A.• Ovarian plexus around the ovarian A.
Embryological remnants	<ul style="list-style-type: none">• Epoophoron and the duct of epoophoron (Gartner's duct).• Paroophron.
Other structures	<ul style="list-style-type: none">• Lymphatic vessels.• Parametrium

Good Luck

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