

Unit 35:

Pelvic walls and viscera. Female genital organs (internal)

GENERAL OBJECTIVES:

- general considerations of the organization of the pelvic walls (bones, muscles & fascia)
- urinary and alimentary systems in the pelvis
- internal female genital organs

SPECIFIC OBJECTIVES:

1. Pelvic walls

Bony Pelvis (Hip Bones, Sacrum & Coccyx)

Position, Parts, Bony Features & Articular Surfaces

Attachments of: *Ligaments & Muscles*

Lesser Pelvis

Pelvic Brim -> Pelvic Inlet (Superior Aperture)

Lateral & Posterior Walls: Obturator & Sciatic Foramina

Pubic Arch, Ischial Tuberosity & Tip of Coccyx -> Pelvic Outlet

Sex Differences between Male & Female Pelves

Joints

Lumbosacral: *Intervertebral Disc & Facet Joints*

Iliolumbar Ligament

Sacroiliac: *Articular Surfaces & Interosseus Ligaments*

Accessory Ligaments: Sacrotuberous & Sacrospinous

Sacrococcygeal

Pubic Symphysis

Muscles

Of Lateral Pelvic Wall: **Obturator Internus**

Of Posterior Pelvic Wall: **Piriformis**

The Pelvic Floor: (Levator Ani)

Form & Position, Parts & Attachments, Opening (and Structures it transmits)

Nerves, Vessels, Actions

Nerves

Of Posterior Pelvic Wall:

Sacral Plexus

Lumbosacral Trunk (L: 4&5)

Ventral Rami of Sacral Nerves (S:1,2,3&4)

Sciatic Nerve, Pudendal Nerve

Sup. & Inf. Gluteal Nerves, Other Branches

Coccygeal Plexus

Sympathetic Trunks

Of Lateral Pelvic Wall: *Obturator Nerve*

Vessels

Of Posterior Pelvic Wall:

Internal Iliac Artery (-> Anterior & Posterior Divisions)

Parietal Branches: Sup. & Inf. Gluteal, Internal Pudendal, Others

Median Sacral Artery

Internal Iliac Vein

Of Lateral Pelvic Wall: *Obturator Vessels (Parietal) -> Pubic branch*

Umbilical Artery (Visceral) -> Obliterated

2. Pelvic Cavity

PERITONEUM: Parietal & Visceral

Peritoneal Cavity: *Rectovesical Pouch (in Male); Rectouterine, Uterovesical Pouches (in Female)*

PELVIC VISCERA: *Arrangement*

	Urinary Tract Ureters Bladder Urethra	
Male:	Genital Organs Ductus Deferens Seminal Vesicles Ejaculatory Ducts Prostate	Female: Ovaries Uterine Tubes Uterus Vagina
	Alimentary Tract Sigmoid Colon Rectum Anal Canal	

3. Urinary Tract

Ureters	(Pelvic Part): <i>Course & Key Relations (Male & Female)</i>
Bladder	<i>Position, Parts (Apex, Base, Inferolateral Surfaces, Neck)</i> Key Relations, Attachments, Peritoneal Reflections Trigone - Ureteric Orifices, Internal Urethral Orifice Detrusor Muscle, Internal Urethral Sphincter
Urethra	<u>Male:</u> <i>Beginning & End (Navicular Fossa & Ext. Orifice)</i> <i>Parts (Prostatic, Membranous, Spongy)</i> <i>Mucosal Features & Glands, Constrictions</i> <i>Sphincters: Internal "Involuntary", External</i> <i>(Sphincter Urethrae) - "Voluntary"</i> <u>Female</u>

Nerves of Bladder & Urethra, Micturition. Vessels of Bladder & Urethra

4. Alimentary Tract

Sigmoid Colon	Sigmoid, Mesocolon, Rectosigmoid Junction
Rectum	<i>Position, Flexures, Interior</i> <i>Peritoneal Reflections & Retrovesical Septum, Key Relations</i>
Anal Canal	<i>Interior: Pectinate Line, Endo. & Ectoderm Parts of Canal</i> <i>Internal (Involuntary) & External (Voluntary) Sphincters</i> <i>Arteries, Veins & Lymphatics of Rectum and Anal Canal</i> <i>Nerves of Rectum & Anal Canal, Defaecation</i>

5. Female Genital Organs

Ovaries	<i>Position (Ovarian Fossa of Lateral Pelvic Wall)</i> <i>Attachments: Mesovarian, Lig. Of Ovary Suspensory Lig.</i>
Uterine Tubes	<i>Position, Parts (Infundibulum, Ampulla, Isthmus, Uterine)</i> <i>Attachments: Mesosalpinx (part of broad ligament)</i> <i>Vessels of Ovaries & Tubes, Nerves of Ovaries & Tubes</i>
Uterus	<i>Body: Fundus, Vesical Surface, Intestinal Surface, Cavity. Isthmus</i>

*Cervix: Supravaginal Part, Vaginal Part, Ostium, Canal
 Position & Variations*

*Attachments & Ligamentous Supports:
 Broad Ligament: Parts: Mesometrium, Mesosalpinx
 Round Ligament
 Lateral Cervical Ligaments
 Uterosacral Ligaments*

Peritoneal Reflections - Uterovesical, Rectouterine Pouches. Key Relations

Vagina

*Walls & Fornices (Anterior, Lateral, Posterior), Vestibule, Hymen
Key Relations, Attachments, Peritoneal Reflections
Arteries, Veins & Lymphatics of Uterus & Vagina. Nerves of Uterus & Vagina*