

Unit 32:

Pelvic walls and viscera. Female genital organs (internal)

Chapter 3 (Pelvis): (p. 326-375 and p. 382-420)

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

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

4. Alimentary Tract

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

5. Female Genital Organs

Ovaries *Position (Ovarian Fossa of Lateral Pelvic Wall)*
Attachments: Mesovarian, Lig. Of Ovary Suspensory Lig.

Uterine Tubes *Position, Parts (Infundibulum, Ampulla, Isthmus, Uterine)*
Attachments: Mesosalpinx (part of broad ligament)
Vessels of Ovaries & Tubes, Nerves of Ovaries & Tubes

Uterus *Body: Fundus, Vesical Surface, Intestinal Surface, Cavity. Isthmus*
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