

The Pelvis and Perineum

The Pelvis

- Comprised of three fused bones: The **ilium**, **ischium**, and **pubis**
- **Ilium**: Superior region; important structures are: iliac crest, anterior/posterior superior iliac spines, anterior/posterior inferior iliac spines.
- **Ischium**: Posteroinferior region; ischial spine, ischial tuberosity; lesser sciatic notch.
- **Pubis**: Superior/inferior rami, pubic symphysis, pubic arch; forms obturator foramen (isch./pubis)

The Pelvis

- ***False pelvis***- Portion of pelvis superior to pelvic brim.
- ***True pelvis***-Portion of pelvis inferior to pelvic brim; forms deep bowl containing the pelvic organs.

Muscles of the Pelvic Floor

- *Levator ani: pubococcygeus, iliococcygeus*
- *Sphincter urethrae*
- *Ischiocavernosus*
- *Bulbospongiosus*

Arteries of the Pelvis

- ***Right/Left Common Iliacs***
- ***Internal Iliac***-urinary bladder, int.,ext. walls of pelvis, genitalia
- ***External iliac***

Sacral Plexus

L4-S4

Nerves:

- Pudendal
- Levator ani/coccygeus
- Pelvic splanchnic

Urinary Bladder

- Urachus
- Lateral umbilical ligaments
- Rugae
- Ureteric openings, internal urethral opening (trigone)
- Histology-mucosal, submucosa, muscularis(inner/outer longitudinal)(middle circular)

Urethra

- Thin walled muscular tube
- Mostly stratified columnar
- Female-3 to 5cm long; external urethral meatus
- Male-18 to 20cm long; prostatic, membranous, penile
- UG diaphragm

Male Reproductive System

- The scrotum
- The testes
- Seminiferous tubules, epididymis, ductus deferens
- Leydig cells
- Angiology-testicular arteries, pampiniform plexus

Male Reproductive System

The penis & accessory glands

- Glans, prepuce
- Corpus spongiosum, cavernosum
- Seminal vesicles-60% semen volume(alkaline fluid, fructose)
- Prostate-1/3 of semen vol.(citrate, acid phosphatase, hyaluronidase).

Male Reproductive System

Reproductive Tract

- Epididymis-head, body, tail
- Functions in gauging composition of tubular fluid, recycling & functional maturation of spermatozoa
- Urethra

Spermatogenesis

- Spermatogonia>Primary spermatocyte>Secondary spermatocyte> Spermatids>Spermatozoa
- Spermiogenesis
- Spermatozoa-head(acrosome),middle piece, flagellum

Female Reproductive System

- Ovaries
- Uterine tubes
- Uterus
- Vagina

Female Reproductive System

Ovaries

- Angiology-ovarian arteries, veins
- Ovarian follicles (primary,secondary,Graafian)
- Oogenesis-oogonium, primary oocyte,secondary oocyte, ovum

Female Reproductive System

The Uterus & Vagina

- Body,cervix
- Uterine tube
- Uterine cavity,endometrium(10%),
myometrium(90%)
- Vaginal canal

Female Reproductive System

External Genitalia

- Labia majora, minora
- Clitoris
- Bartholin's glands