

December 1, 2023 - Dr. Krebs (claudia.krebs@ubc.ca)

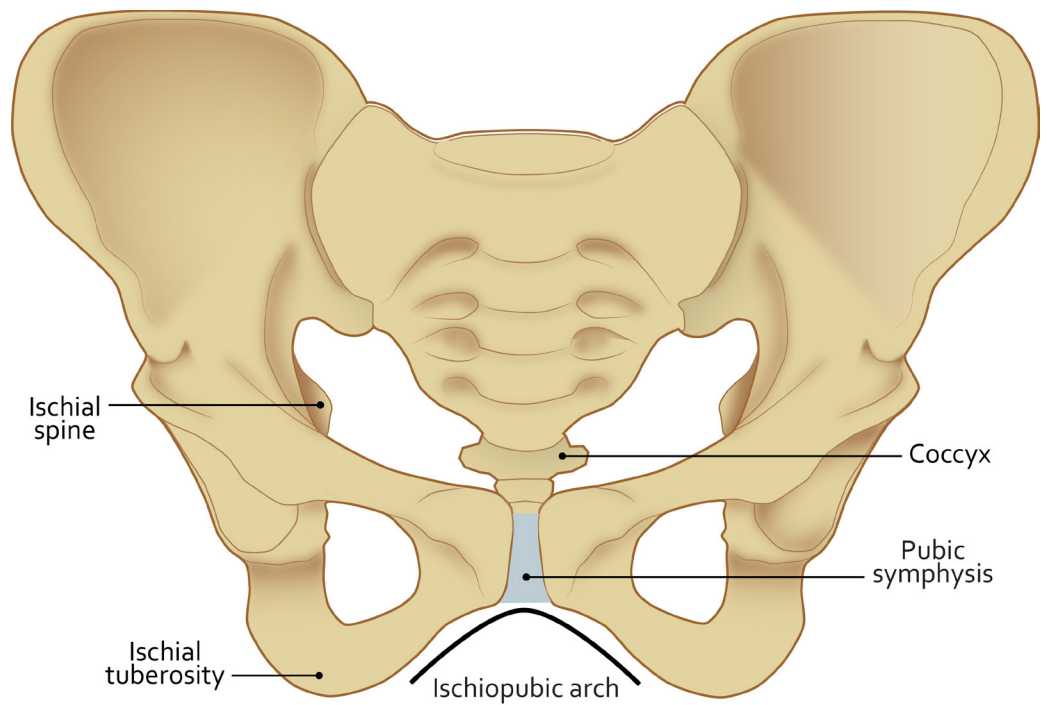
Objectives:

- Describe the anatomy of the pelvic floor
- Define the urogenital and anal triangles
- Differentiate the components of the deep perineal pouch in both males and females as it relates to urinary continence
- Define the borders and extent of the ischio-anal fossa
- Describe the erectile tissue and their coverings in the superficial perineal pouch in both males and females
- Describe the arterial and nerve supply to the perineum

Use the modules and 3D models to help identify checklist structures:

Pelvic Bones:

- Coccyx
- Ischiopubic arch
- Pubic symphysis
- Ischial spine
- Ischial tuberosity



Anterior View of Android Bony Pelvis

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Perineum:

Anal triangle

Urogenital triangle

Female Perineum - Inferior View

(B. Kathleen Alsup & Glenn M. Fox, University of Michigan Medical School, [BlueLink](#))

Anal Triangle:

Levator ani

Ischiorectal fossa

Pudendal nerve

Internal pudendal artery & vein

Obturator internus

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Inferior View of Female Perineum

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Urogenital Triangle:

Superficial perineal pouch:

Corpus cavernosum

- Crus of clitoris or penis

Ischiocavernosus muscle

Corpus spongiosum (*male*)

Bulb of the vestibule (*female*)

Bulbospongiosus muscle

Superficial transverse perineal muscle

Pudendal nerve

- Dorsal nerve of clitoris or penis

- Perineal nerve

- Inferior rectal nerve

Dorsal artery / vein of penis or clitoris

Greater vestibular (Bartholin's) glands (*female*)

Perineal membrane (*describe position of deep perineal pouch*)

Glans of the clitoris, glans penis

Vagina

Urethra (*male and female*)

Sagittal View of Pelvis

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Inferior View of Male Perineum
(B. Kathleen Alsup & Glenn M. Fox, University
of Michigan Medical School, [BlueLink](#))

Inferior View of Male Perineum

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Antero-inferior View of Female Perineum

(B. Kathleen Alsup & Glenn M. Fox, University of Michigan Medical School, [BlueLink](#))

Inferior View of Female Perineum

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Antero-inferior View of Female Perineum

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LAB 11 DISSECTOR

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Notes:

- Look around the room at other cadavers and their pelvic anatomy
- Use the prosections gently to guide your own dissection

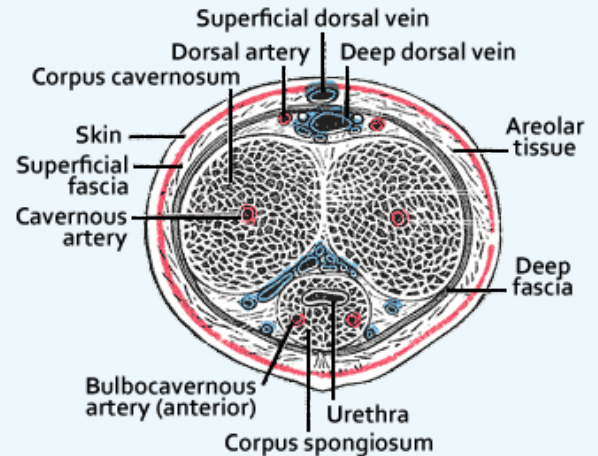
Male

1. Follow the **spermatic cord** from the inguinal canal into the scrotum.
2. Carefully open the scrotum to reveal the **testis** and the **testicular artery**. Open the spermatic cord and separate its components carefully.
3. Carefully make a longitudinal incision to remove the skin off the body of the penis.
4. Find the **dorsal nerve** and **dorsal artery of the penis** and follow them to the pubic bone.
5. Ask faculty or TAs whether to open the penis to show the location of the **urethra** and the **erectile tissue**.

Note: You can cut the penis either longitudinally or transversely. When cutting transversely, do not cut through the entire body of the penis so that all parts stay attached.

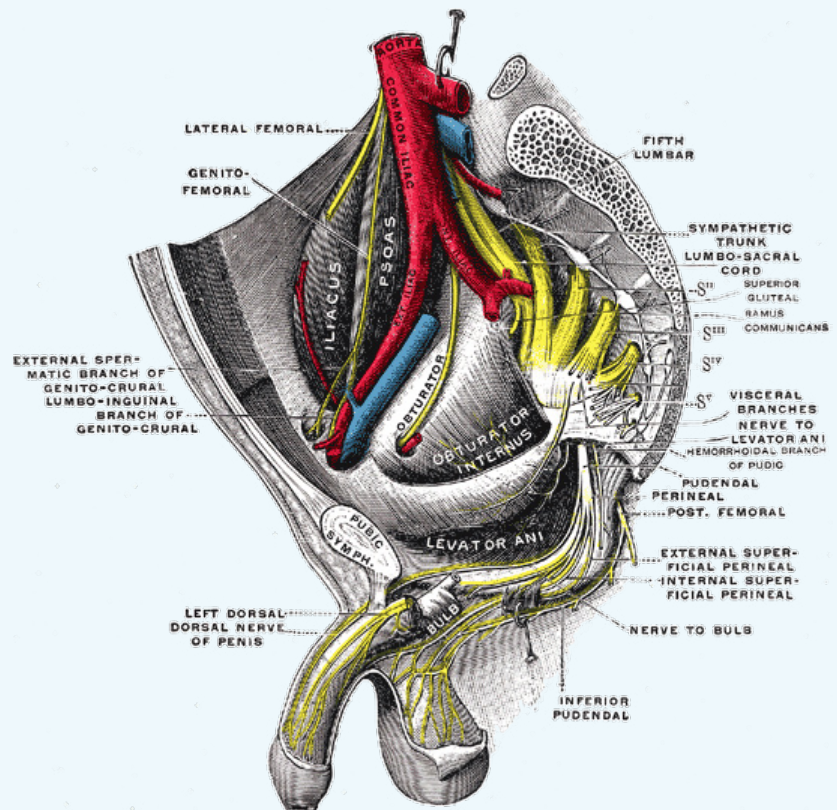
Female

1. Remove the skin from the **urogenital triangle**.
2. Dissect out the **clitoris** and find the **crus of the clitoris**. This will be easiest if you find the ischiopubic ramus first and then dissect directly medially from there:
 - The crus of the clitoris is covered by the ischiocavernosus muscle
3. The **dorsal nerve** and **artery of the clitoris** will exit underneath the pubic bone - identify these structures.
4. The **bulb of the vestibule** can be dissected on either side of the vaginal opening:
 - It is covered by the **bulbospongiosus muscle**



Transverse section of penis

(Henry Gray, Anatomy of the Human Body, 1918)



Sagittal view of male pelvis

(Henry Gray, Anatomy of the Human Body, 1918)