

February 27, 2024 - Dr. Constantin (alina.constantin@unbc.ca)

Introduction:

This lab builds on previous anatomy labs from Year 1 (411 labs 10 & 11 - Pelvis Walls & Viscera and Perineum) and Year 2 (421 lab 7 - Urogenital System). The checklist for this lab will focus on the anatomy of the **lower urinary tract (in biological, phenotypic males)**. Please try to find all the structures indicated by

Objectives:

- Identify features of bladder and urethra in a male pelvis
- Describe the male genital organs
- Describe the structures along the sperm path from the testes to the navicular fossa

These are the relevant videos covering the lab objectives:

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

(requires CWL login)

Volume 5 - Internal Organs

Reproductive System

- 5.3.1 Scrotum, testes
- 5.3.2 Seminal pathway
- 5.3.3 Penis, distal part
- 5.3.4 Penis, support & attachments
- 5.3.5 Muscles of the perineum
- 5.3.6 Penis, proximal part

Abdominal Organs

- 5.2.30 Bladder, male

Pelvic Bones:

- Ischiopubic arch
- Pubic symphysis
- Ischial spine
- Ischial tuberosity
- Obturator foramen
- ASIS
- Iliac crest

Anterior view of android bony pelvis

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Ligaments:

- Sacrospinous
- Sacrotuberous

Regions:

- Anal triangle with ischiorectal fossa
- Urogenital triangle with perineal membrane
- Greater sciatic foramen
- Lesser sciatic foramen
- Obturator canal

Lateral view of pelvis

Female Perineum - Inferior View

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

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Viscera:

- Urinary bladder
 - Apex
 - Base
 - Trigone
 - Interureteric crest

Blood Supply:

- Testicular vessels (left & right)
 - Internal pudendal artery
 - Dorsal artery of penis
 - Testicular artery & veins (pathway through inguinal canal)

Innervation:

- Pudendal nerve (S2-4)
 - Dorsal nerve of penis
 - Perineal nerve
 - Inferior rectal nerve

Sagittal section of male pelvis

Penis:

Corpus cavernosum (crus penis)

Corpus spongiosum

Ischiocavernosus muscle

Bulbospongiosus muscle

Glans penis

Transverse section of penis

Inferior view of male perineum

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Urethra:

Preprostatic

Prostatic

Membranous

Penile (spongy) – navicular fossa

Median View of Male Hemipelvis

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

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Spermatic Cord:

Vas deferens
Pampiniform plexus
Testicular artery

Testicles:

Testis
Epididymis

Testis and Spermatic Cord (Contents)

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

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Viscera:

Prostate

Vas (ductus) deferens

Seminal vesicle

Ejaculatory duct

Posterior View of Male Genital Tract

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Viscera:

- Urinary bladder
 - Apex
 - Base
 - Trigone
 - Interureteric crest

Anterosuperior View of Male Pelvic Cavity

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RESOURCES

Websites:

Clinical Anatomy | Entrada

Recommended Textbooks:

Gray's Anatomy for Students

By: Drake, Vogl, Mitchell

Elsevier Inc. Churchill Livingstone

ISBN 978-0-7020-5131-9

** OR **

Essential Clinical Anatomy

By: Moore and Agur

Lippincott Williams & Wilkins

ISBN 0-7817-6274-X

One of the Following Atlases:

Gray's Atlas of Anatomy

By: Drake, Vogl, Tibbits, Richardson, Mitchell

Elsevier

ISBN 978-1-4557-4802-0

Atlas of Anatomy

By: Gilroy, MacPherson, Ross

Thieme

ISBN 978-1-60406-062-1

Atlas of Human Anatomy

By: Frank Netter

Icon Learning Systems

ISBN 1-929007-11-6

Before We Are Born

By: Moore and Persaud

Saunders

ISBN 978-1-4160-3705-7

ACKNOWLEDGEMENTS

Artwork & Design:

The HIVE, UBC Faculty of Medicine

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