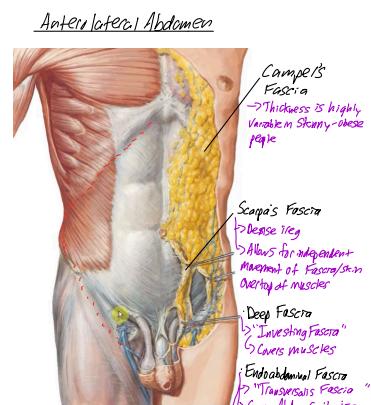
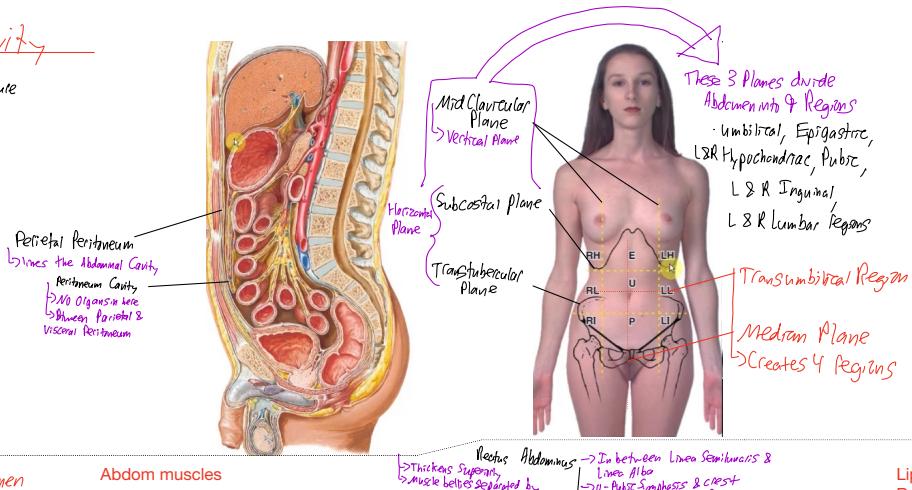


Abdominal Cavity

Projects from Sup. Pecten Apperture
to Thoracic diaphragm



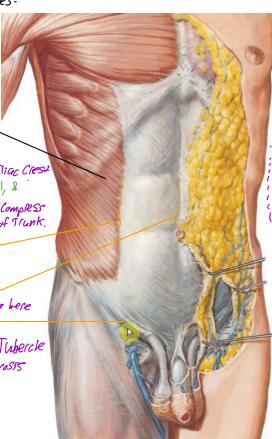
Muscles of Abdomen

Compression of Abdomen viscera does:

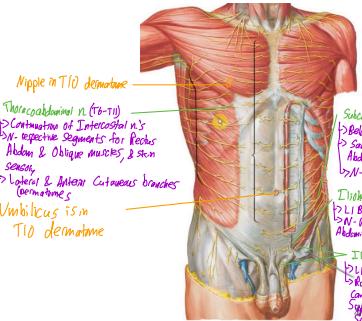
- Elevation of diaphragm
- Assist in Defecation, micturition (urination), Parturition (childbirth).

External Oblique m.

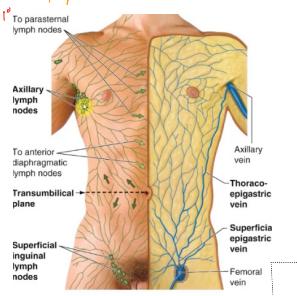
- Oriented infero-anterior
- Spans from ASIS to Pubic Tubercle & Iliac Crest
- I - Linea Alba & Pubic Tubercle & Iliac Crest
- N - Thoracolumbar n's from T6-T11, 2 Subcostal n.
- A - Compresses Abdomen viscera, Bilateral - Compress abdomen wall, Unilateral - Drawn 3 Port of Trunk.
- C - linea semilunaris
- S - Transverse muscle fibre to Aponeurosis
- L - linea Alba
- Fibres decussate & interwoven here
- I - inguinal Ligament
- D - Spans from ASIS to Pubic Tubercle
- Fold of External Oblique Aponeurosis



Nerves of Anterolateral Wall



Lymphatics of Anterolateral Wall



Inguinal Region

Males

Pathway for Vas Diferens, as well as nerves & blood vessels

Females

Round ligament of uterus

Deep Inguinal Ring

Midway down Inguinal l.

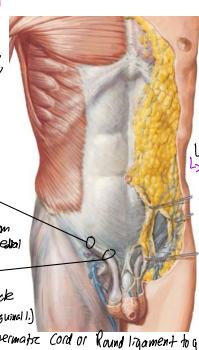
Iliac Epigastric a runs just Medial

Superficial Inguinal Ring

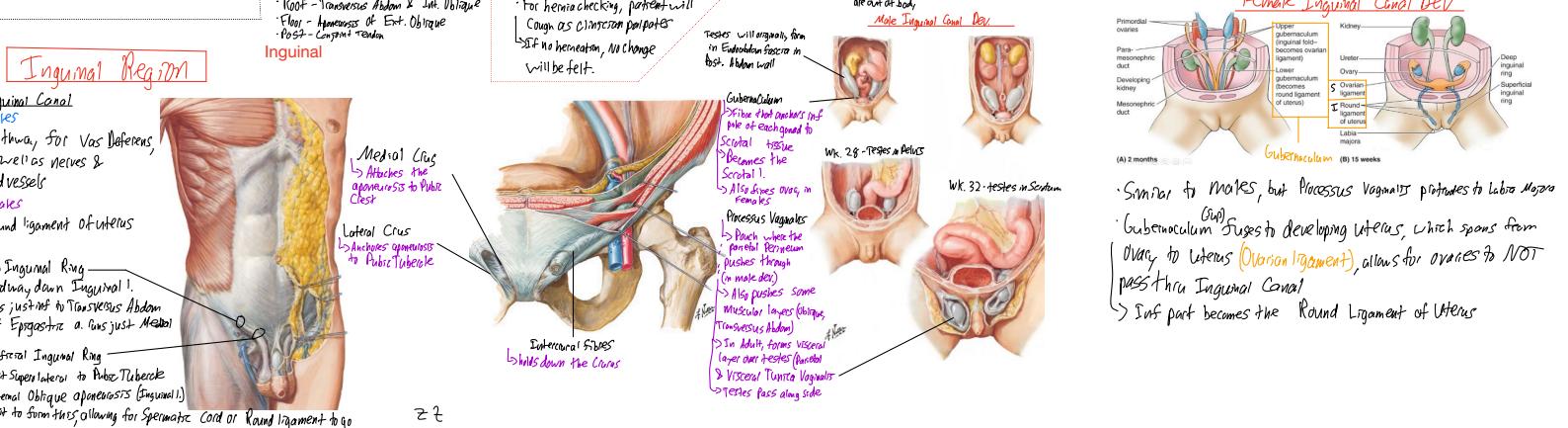
Just Superior to Pubic Tubercle

External Oblique aponeurosis (Inguinal)

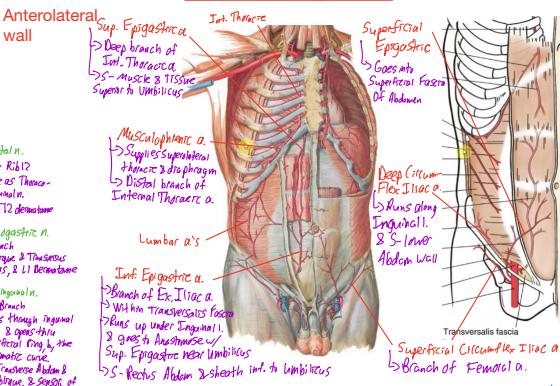
Will split to form tis, allowing for Spermatic Cord or Round ligament to go



27



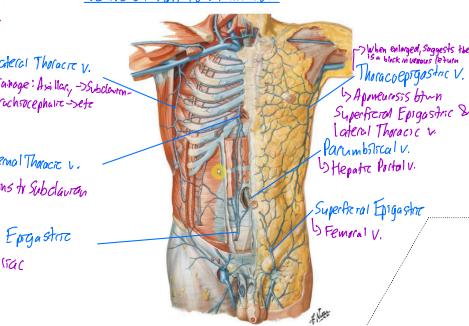
Arteries of Anterolateral Wall



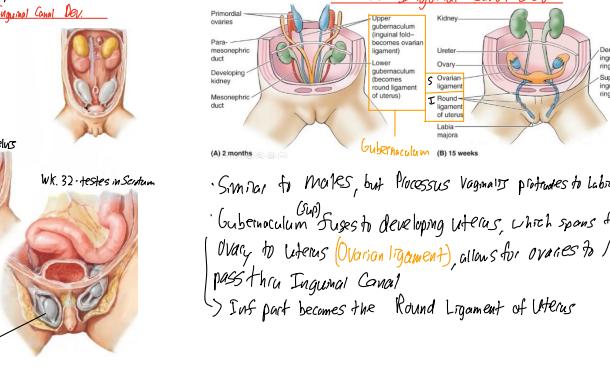
Abdominal Protuberance

- 6 F's:
 - Fluid, Food, Feces, Flatulence, Fat, Fetus
 - Everted Umbilicus
 - "Bulky" belly button may be due to chronic flaccidity
 - Striae Gravidarum
 - Stretch marks
- Hernia
 - Umbilical Hernia
 - Umbilical-fetal parts
 - Acquired -> obesity, injury, aging, etc
 - Epigastric

Vessels of Anterolateral Wall



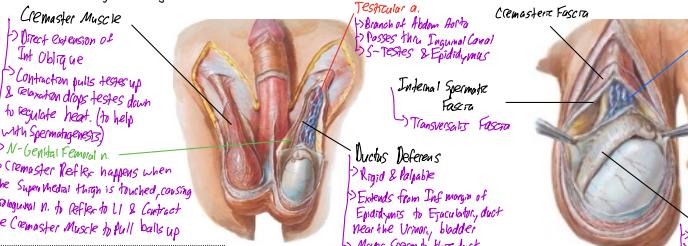
Female Inguinal Canal Dev



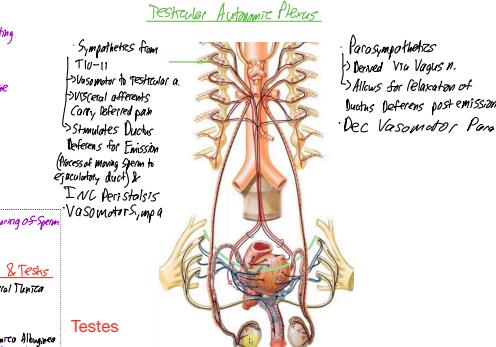
- Similar to males, but Processus vaginalis protrudes to labia majora
- (S) • Gubernaculum fuses to developing uterus, which spans from ovary to uterus (Ovarian ligament), allows for ovaries to NOT pass thru Inguinal Canal
- > Inf part becomes the Round Ligament of Uterus

Spermatic Cord

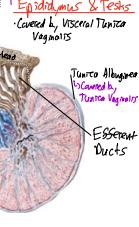
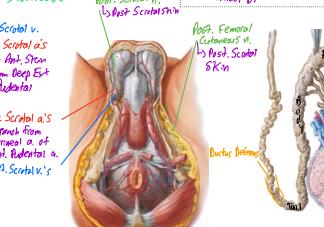
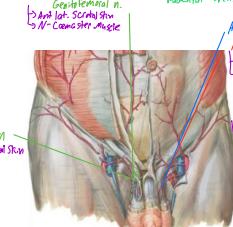
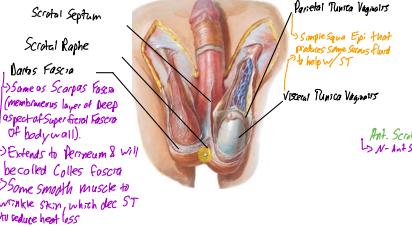
Consists of:
Fascia, muscle,
Nerve(s) that passes thru
Superficial Inguinal Ring
External Spermatic Fascia
part of External Oblique Fascia that was pushed through



Pampiniform Plexus
Heat Exchange for Supporting Spermatogenesis
Plexus converges to form a single Testicular vein in the Abdominal cavity
R. Testicular v. drains directly to IVC
L. v. drains to L. Renal v.



Scrotum



Peritoneum

Peritoneum
- Peritoneal Peritoneum
- Nerve - Dermatome series
- Visceral Root Cutaneous Branches for pain & Sensations
- Visceral Peritoneum
- NO Sensations, N.
- N. Afferent Autonomics
- Sensors
- Peritoneal Cavity
- > No Organs
- > Some WBC's & Peritoneal Fluid to help
- ST
- In females: the Peritoneal Cavity is open to the outside world due to the adnexa
- Thus females more Susceptible to Peritoneal Infection
- Peritoneal Cavity is located in Abdominal Cavity

Intergenital Organs
- Organs are NOT in Peritoneum
- Genit., just nearby
- Organs are attached to body well by an extension of the Peritoneum (allowing vasculature to reach organs)
- IVC, Bladder & Adrenals have layer of serosa

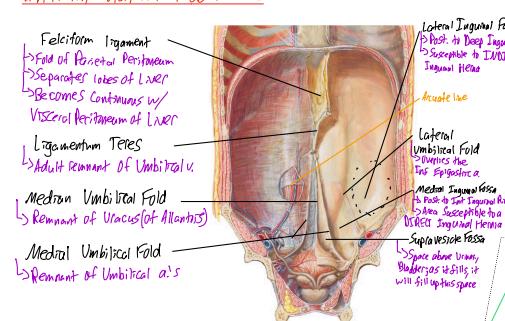
Extraperitoneal Organs
- Organs outside or behind the Peritoneum (Organs covered by Peritoneum)
- IVC, Bladder & Adrenals have layer of serosa
- 1st Retroperitoneal Organs
- Organ initially starts as intra-peritoneal organ, then post development becomes retroperitoneal
- 2nd Intestines, Kidneys

Cryptorchidism

Cryptorchidism
- Undescended testes
- More so in Preterm births, Meaning the testes are most likely in Abdomen cavity.
Hydrocele
- Excess fluid in Testes or along Spermatic Cord
- Result from Testicular or Compromised blood flow
- More common on L. Side since fluid can pool indirectly (no L. Renal v.)
Vasovasectomy
- Cut Vas Deferens
- Hematocele
- Blood accumulation in testes
- In response to injury
- Hematoma

Varicocele
- When veins or pampiniform plexus becomes dilated
- Result from Testicular or Compromised blood flow
- More common on L. Side since fluid can pool indirectly (no L. Renal v.)
Hernia
- All other aspects of semen are fine & Spermatogenesis is unaffected

Int. Anterolateral Abdom Wall

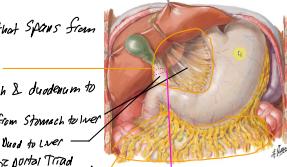


Inguinal Hernia
- Treatment: Sometimes can manually push it back in but not need surgery
- Indirect Inguinal Hernia
- Pushes thru Deep Inguinal Ring
- In males, will be within the Spermatic Cord (IVC, R. Ring)
- Direct Inguinal Hernia
- Above Inguinal l. & within Median Inguinal Fossa
- Directly thru Inguinal Ring
- Not M. Spermatic Cord
- Contents are just Peritoneum & Transversalis fascia (inner than Indirect)
- Femoral Hernia
- Inf to Inguinal Canal & into Femoral Δ in thigh

Peritoneal Cavity

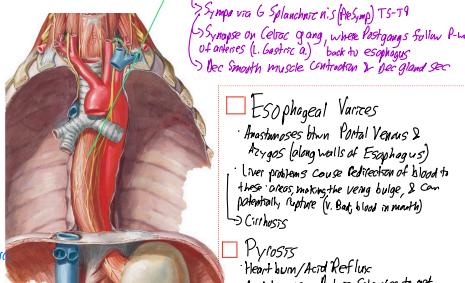
Mesentery

Omentum



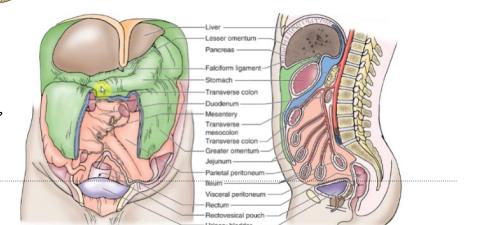
Esophagus

In Mediastinum, is covered by adventitia
In Abdom, covered by serosa membrane
4 Constrictions:
1) Upper esophageal sphincter - by Cricopharyngeus
2-3) Middle - Trachea bifurcations
4) Lower - Diaphragm?
Causes heartburn because acids can damage
Esophageal Hiatus is at Right Cusp of Diaphragm (RCD)
SL & R. crus attach Diaphragm to vertebral body
Upper Esophagus drains to Azygous Systemic circ
Lower Esophagus drains to hepatic portal v.

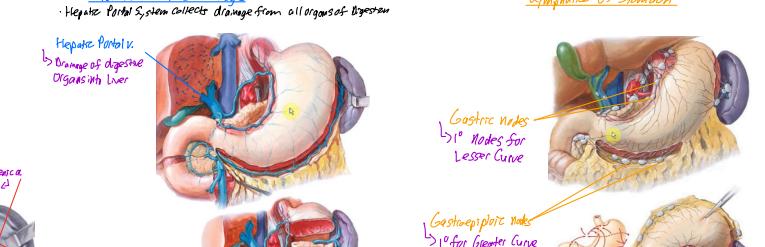


Greater Sac

Supracolic 1: Stomach, Liver & Spleen
Without Colon
In Gastrocolic Compartment: SI

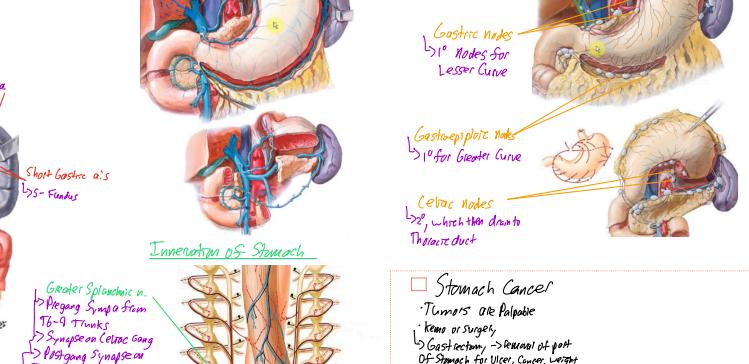
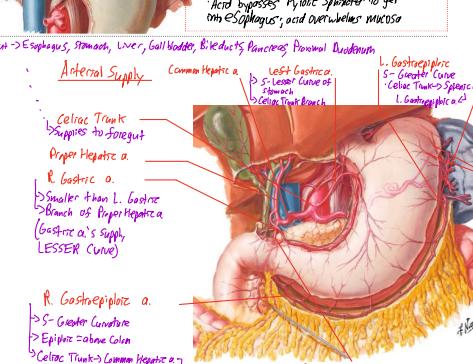
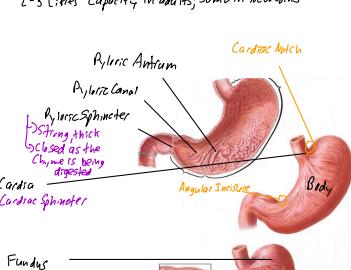


Lymphatics of Stomach



Stomach

2-3 Liters Capacity in adults, 30ml in Newborns



Hernial Hernia

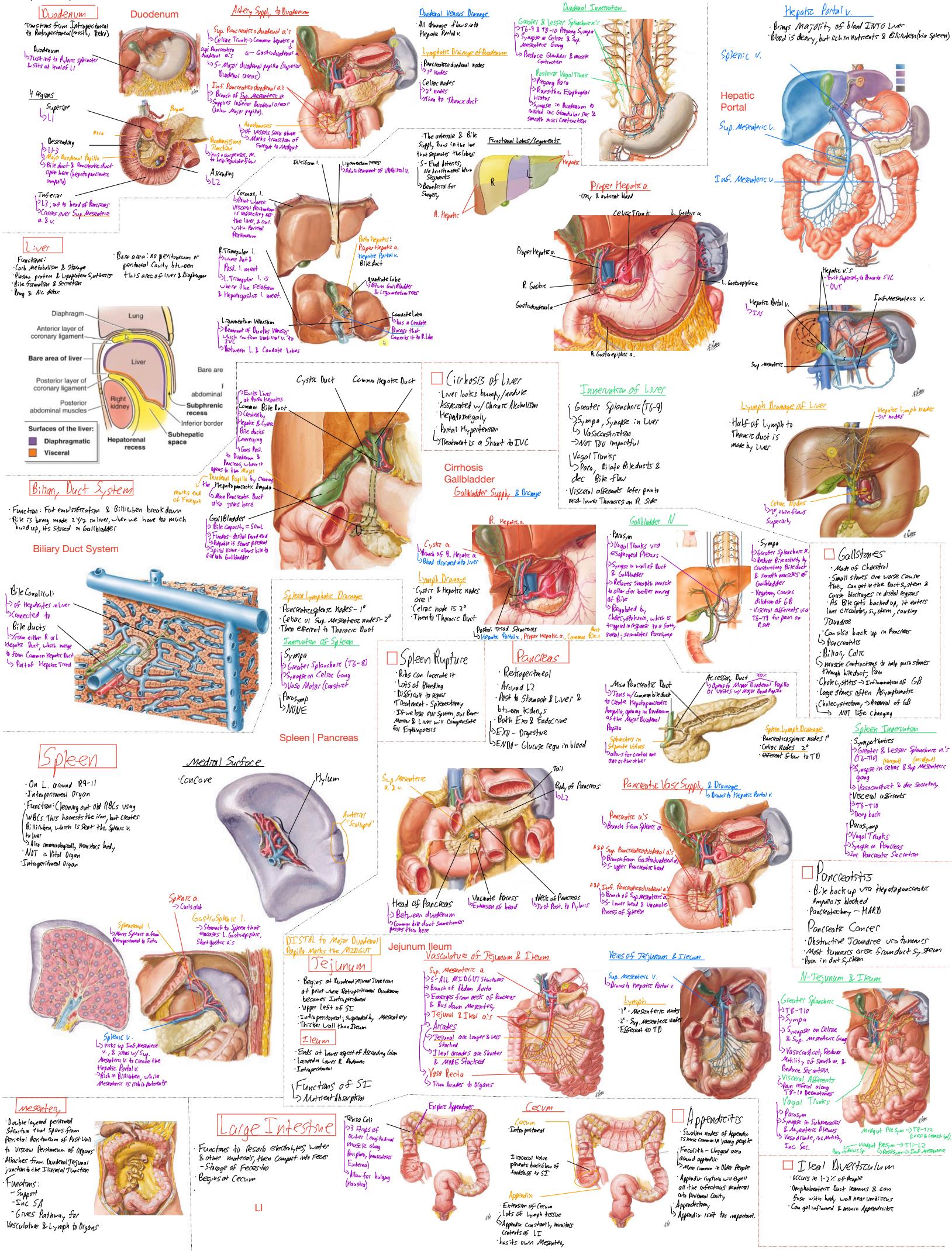
Upper part of Stomach bulges through diaphragm
Age related
Pain
Sliding Hernial Hernia -> Esophagus & Cardiac sphincter are drawn up above Diaphragm, more common
Bending over or lying down will give Acid Reflux
Paraesophageal Hernia - part of Stomach herniates through, but not Esophagus, NO fundal reflux

Foregut - Celiac Trunk
- Midvt - Sup. Mesenteric
- Hindgut - Inf. Mesenteric

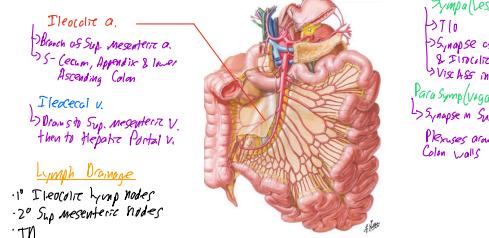
Stomach Cancer

Turners are Palpable
Laparoscopy or surgery
Gastric resection -> Removal of part of Stomach for Ulcer, Cancer, weight loss.

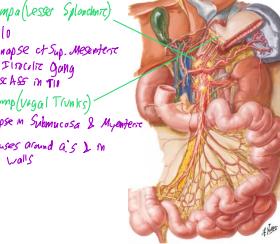
Stomach Ulcer
Usually by H. pylori
Breaks down mucus
Treatment: Vagotomy (cut Vagus n. to help reduce parietal cell HCl)



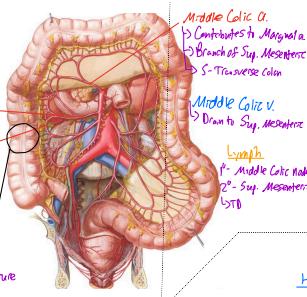
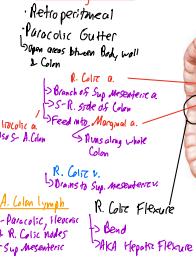
Supply & Drainage for Cecum & Appendix



N - Cecum, Appendix & A. Colon



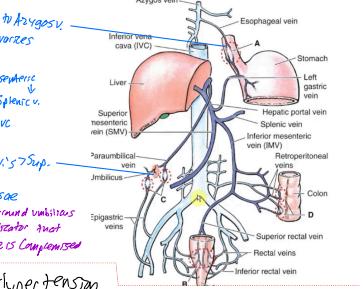
Ascending Colon



Transverse Colon

N - Sympa: Lesser Splanchnic n. (T11)
Largest 8 most Mobile
Indirect
From R. Colic Flexure (Ileocecal Flexure) to L. Colic Flexure (Spiral Flexure)
Attached sites for Greater Omentum onto its Sup.
On its Inf., there is the transverse mesocolon
Transition to Ileum at about 3G across

Hepatic Portal v. Anastomoses



Blood Flow: Mid Gut - Superior Mesenteric, Hind Gut - Inferior Mesenteric

Descending Colon

- hindgut
- spans from splenic flexure to rectal fossa of cecum
- retroperitoneal
- like ascending colon has paracolic gutters between body wall & colon, & is continuous from inferior & superior colic sacs (greater sac)

Inferior Mesenteric v.

- Drains to splenic v which drains to hepatic portal v.

Left Colon a.
Branch of Inf. Mesenteric
Connects to Marginal a. & thus creates Marginal a. v. important because it connects L & R Colic.

Lymph Drainage

- 1st Ileocecal lymph nodes

- 2nd Superior mesenteric nodes

- TD

Kidneys

- located under thoracic diaphragm
- R. kidney, lower due to liver
- adjacent to psoas major
- nerves of post abdominal (subcostal, iliohypogastric & ilioinguinal) pass posterior to kidneys
- function: filter blood, manage H₂O & salts, regulate BP & excretion

Perirenal Fat

- surrounds kidney & adipses of kidney
- contains suprarenal glands (adrenal glands)
- NE & E outruns contralateral para-aortic fat → just posterior to perirenal fat for protection & allows for kidneys to move via respiration

Suprarenal Glands

- right gland just to R. of IVC
- left gland just L. of left crus of diaphragm
- corTEX
functions to produce corticosteroids & androgens
- NO H in cortex (hormone)
- Adrenal / Suprarenal

Thoracic Diaphragm

- pericardio-phrenic ligaments cause heart & pericardium to move infernally with diaphragm upon inspiration
- diaphragm moves up when inspire can cause hyperactive cough organs make it more difficult to float diaphragm

- N: phrenic n.
b/w between afferent & efferent pericardio-phrenic

bifurcates at neck

> peripheral ganglion: rib segment

attaches to ribs 6-8

centrally: 8-10 periosteally

attaches posteriorly to rib 12

musculophrenic a.

passes deep to inguinal l.

iliacus m.

iliac crest, lateral sacral a. (post & lat to psoas major)

iliacus m. passes over iliacus muscle, medial to latissimus dorsi, posterior to psoas major, & deep to latissimus dorsi

iliac crest, latissimus dorsi, psoas major, & iliacus muscle

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Thoracolumbar Fossa

- Lateral Attachment: L5 to Transversus Abdom & Int. Oblique
- Posterior Spine: IS in mid-layer
- Motor Attachment: Ribs to Iliac Crest
- Ribs from Lower L5 between Ant. Lumborum & Post. Lumborum

Psoas Sign

- Psoas is near many organs, so if the organs are swollen, movement of the muscle can cause irritation.
- Psoas lies on two flattened sides against Iliac crest.
- > Psoas; Smales disorder

Fascial Abscesses

- Psoas abscess
 - Can only spread with intact fascial sheath
 - Can spread cephalad up to higher vertebrae

Lumbar Plexus OS & N's

- Subcostal nerve
- > Ventral Ram. T12
- > Passes under Lateral Aorta.
- > Then runs over Transversus Abdom & Int. Oblique
- > N. 11/12 later. Oblique m's - Serratus to Anterolateral T12 derivative
- Sup - 1-2 branches:
 - 10th intercostal
 - Hypogastr.
- Inf - 10th intercostal n. - Serratus Anterior
- > Line between Transversus Abdom & Int. Oblique
- Transversus Abdom. N's over Scalen & Anterior Pubic Bone
- Obturator n.
- > 12-14
 - > Runs thru Obturator Canal
 - > Closes over Iliotibial Tr.
 - > N-Lateral thigh artery
 - > N-Muscles of Med. Thigh
 - > N-Adductors
- Lateral Femoral Cutaneous n.
 - Contributions from L2 & L3
 - Crosses over Iliotibial Tr.
 - N-Lateral thigh artery
- Femoral Branch
 - Stems over Femoral
- Celiac Plexus
 - > Postgang Symp fibres
 - > Pregangl. Para (from Vagal Trunk)
 - > Mainly Greater & Lesser Splanchnic n's for Symp
 - > N-Foregut
- Superior Mesenteric Plexus
 - > Symp via Lesser & Least Splanchnic
 - > Parasymp via Post. Vagal Trunk
 - > Mostly Midgut structures
- Inf Mesenteric Plexus
 - > Symp via Lumbar Splanchnic
 - > Parasymp via Pelvic Splanchnic
 - > Mainly Hindgut

Lumbar Plexus

- Autonomic Plexuses
 - > Contains both Symp & Parasymp
 - > Presynaptic

Abdominal ANS

- Symp Gang - Prevertebral
- Parasymp Gang - Within Target Organs

Lumbar Symp Trunk

- Contains v/ Thoracic & Sacral Trunks

Pregang Sympathetics

- From T1-L2
- > Post into chain via WRC

Splanchnic n's

- Pregang Symp, TS-L2
- > Symp in Prevertebral TISSUE / Gang
- > Lumbar pre Symp & Neural de Vasoconstrictor to heat GI activity
- > Run medially

Abdominal Blood Vessels & Lymph

- 3 Unpaired VISCERAL Branches
 - > Celiac Trunk, Sup & Inf. Mesenteric a's
- Paired lateral VISCERAL Branches
 - > Renal a's, Middle Suprarenal a., & Testicular/Divertic a's
- Paired Parietal Branches
 - > Subcostal, Int. Thorac, Lumbar a.'s (all supply body wall)

Abdom Aortic Aneurysm

- Loss of elasticity causing reduced collagen, which creates a large bulge
- Pulse can be palpable
- Can leak & blood accumulates, bleed out
- Treatment
- > Can reinforce a graft

IVC Abdom Aorta

- Median Sacral a.
- Deep Circumflex a.
 - > Branch of Ext. Iliaca
 - > Ant. Peiris
- Ext. Iliac a.
- Int. Epigastric a
 - > Radixent
- Internal Iliaca a.
 - > S-Pelvis, gluteal Region, & Perineum
- Femoral a.
 - > Continuation of Ext. Iliac a.

IVC Tributaries

- IVC does not have valves
- Drains everything INFRAS DIAPHRAGM EXCEPT GI Structures (hepatopancreas)
- But Hepatic Arter. blood does eventually get to IVC
- Angios & Hemispheres
- R. Infraphrenic
- R. Supracardinal
- Hepatov. v.
- R. Gonadal v.
- Renal v's
- Lumbar v's
- Common Iliac v's
- Ext Iliac v.
- Infr. Epigastric
- Sup. Epigastric
- S. Int. Thorac
- S. Brachiocephalic
- S. SVC
- Common Iliac v's
- Femoral v
- S. Cerv. Suph
- S. Superf. Epigastric
- S. Lateral Thoracic
- S. Axillar
- S. Subclav. v.
- S. Brachiocephalic
- S. SVC

To Left Renal v., but not R. L. Gonadal, L. Supracardinal & L. Inf. Phrenic

Lumbar Splanchnic Trunk (os n.)

- LUMBOSACRAL TRUNK (os n.)
 - > S5/S7 on Ala
 - > Connects L1/L5 Sides to connect Lumber & Sacral Plexuses
 - > L1/L2 Reg.
 - > Lumber Plexus within Posterior margin
 - > L1-L5 all contribute to Lumbar Plexus
 - > Post. Symp neurons enter the Lumbar Symp Trunk via White Ramus then Ascend/Bend the Lumbar Trunk out Gray Ramus, descend Ventral Ram to Nerve Supply muscles, excretory & glands
- Femoral n.
 - > L2-L4
 - > Under Ingual l., into Femoral Δ
 - > On Hypofasc. & Quadr. Anterior
 - > Leg muscles
 - > Anteromedial leg scarring via Hypofasc.
- Central Femoral n.
 - > L1-L2
 - > On Anterior Surface of Psoas Major
 - > Cervical Branch
 - > Ax. Cervicosp. m. & Anterior Scaleni Svc. Labia Major.
- Femoral Branch
 - > Skin over Femoral

Sup. Hypogastric Plexus

- > Surrounds Distal Aorta
- > Symp via Lumbar Splanchnic
- > Parasymp via Pelvic Splanchnic
- > Vertebral Glands

Hypogastric n's

- > Provides Communication b/w Sup & Inf. Hypogastric Plexus

Inf. Hypogastric Plexus

- > Symp via Lumbar Splanchnic n's
- > Parasymp via Pelvic Splanchnic (S2-4)
- > Pelvic Viscera

Posterior Abdom Wall Lymphatics

- Lower limb & Abdomen drainage goes into the Cisterna Chyli. Coverage of lymph tissue becomes STD
- Nodes All along Aorta
- Inginal Nodes:
 - > for Lower limb, Perineum, Rect. & Lower Ant. Body Wall
 - > Drains to External & Common Iliac nodes
- Internal Iliac Nodes:
 - > for Pelvic Uro., Pelvic rectum & Pelvic genital organs
 - > Drains to Common Iliac & Lumbar nodes
- Lumbar Nodes:
 - > for Suprarenal, Kidney, Ovary/TESTES, & Post. Body Wall
 - > Drains to common Iliac, Celiac, Inf. & Sup. Mesenteric nodes