HANDWRITTEN NOTES

DAMS

SURGERY VOL-2

CRISP, CONCISE, CONCEPTUAL

Integrated Edition





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HOW TO MAKE BEST USE OF NOTES?

A Message by Mentor Duo Specially for you,



- Read the notes thoroughly, they are absolutely concise.
 crisp & conceptual and hence it is best advised not to add a lot of extra information to them as that will dilute the quality.
- Images have been provided alongside to aid in better understanding and also help you solve image-based questions, these images have been specially picked by the faculty so have a high probability of being asked in exams.
- Notes are handwritten in a way to help make them easier to retain, a lot of tables, graphs and algorithms have been used to simplify the learning.
- While reading notes try and use the CFAQ technique
 - A. Use the C to denote concept part in the notes and ensure you are clear with this part in the first go if not then it's advisable to listen to this part of the video from your course.
 - B. Use the F To denotes facts in your notes, it is okay if you can't remember them in first go but will need repeat reading. But these facts are important for exams as they could be integrated to clinical questions.
 - C. Use A to denote applied parts, this is how concepts and facts are asked indirectly in exams.

 This will also help you develop MCQ solving skill.
 - D. Use Q to denote areas where faculty has said it's a direct question or a PYQ or a potential question.
- This technique will help you summarize your notes In way that your second reading will become
 easy and faster.
- Active space has been provided with these notes to make your own annotations alongside and this
 will help you maintain one single notebook for one subject.
- Try and solve MCQs with every topic from DQB. Your goal should be to start with at least 30 MCQs every day and then increase to at least 50 MCQs every day. Also, when you do a topic wrong write it alongside the notes that this topic needs to be read again but mark only the specific area that you have done wrong not the whole topic.
- After the topic is covered then in the active space try and summarize the topic in the form of mind map. This will help in active recall and make your revision easier.

Best Wishes & Happy Learning!!!!!

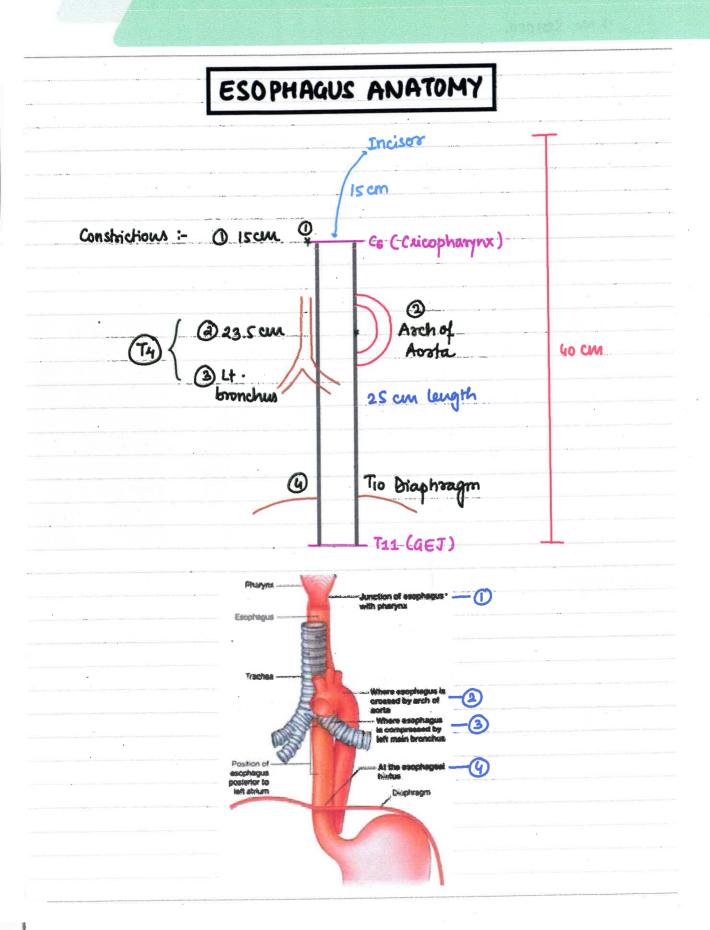


ESOPHAGUS

1 2 3 4 5 6 7 8	Esophagus Anatomy Zenker Diverticulum Esophageal Webs Esophageal Ring Tracheo-Esophageal Fistula Esophageal Perforation Achalasia Cardia Hiatus Hernia	1 5 8 9 12 16 21 25	5 3 9 2 5
9	GERD	26	
10 11	Esophageal Cancer Dysphagia Lusoria	32	
	STOMACH		
1 2 3 4 5 6	Congenital Hypertrophic Pyloric Stenosis Menetrier's Disease Gastric Volvulus Bezoar Acid Peptic Disease Gastric Cancer	41 44 45 46 49	4 5 6 9
	INTESTINE		
1 2 3 4 5 6 7 8 9	Duodenum Meckels Diverticulum Intussusception Carcinoid Intestinal Obstruction Celiac Disease Short Bowel Syndrome Mesenteric Cyst Malrotation of Intestine Appendicitis	83 88 93 95 106 107 108 113	8 1 5 9 6 7 9

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	UROLOGY				
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4	Prostate Cancer, BPH and Otherprostate	245			
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ESOPHAGUS





- Special features :-

1) No SCHOSA

on Esophagus veins are located Submucosally.

- mucosa

— musculatis mucosa

- Submucosa

- muscle - Circular

- longitudinal

Toughest layer

- Seyosa

L'in esophagus: no subserosal veuous plexus

- In Gau bladder :- Submucosa, muscularis mucosa is absent

2) Helicoidal pattern of muscles Lorkscrew appearance - DES

L. Distensibility +nt.

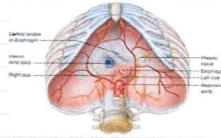




→ Diaphragm :-

- central Tendon

. (18) → vena cava, Rt. phrevic nerve



- * Tio → Esophagus, BIL vagus
 - L. Esophageal branch of Lt. Gastric Antery
- · Tiz Aosta, Thoracic duct, Azygous vein.



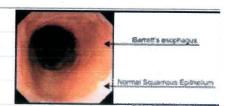
Blood Supply of Ecophagus :ceruical Inf. Hyroid vein Inf. thyroid Artery (branch of Hyprocowical trunk) , Azygous vein Thoracic Aorta, bronchial Artery abdominal Lt. Gashic vein Lt. Gastric A, -4 drain to portal Short Gastric A, Inf. phrenic A. vein Liver · Mucosa !-Striated non-keratinising Stratified Aquamous Squamous cell ca Mid 1/3 5 Smooth z-line ora serrata. muscles Chance of columnas (simple) - Adenocarcinoma Squamous Ca. L in GERD, Columnar length 1. GERD : while & undergoes intestinal metaplasia? M/c Sile to develop carrier (4ª BARRET'S ESOPHAGUS) Lueny high malignant >3cm BARRET's > LONG SEGMENT potential (40 times higher)

metaplasia - dysplasia - Anaplasia



- Dye : chromoendoscopy :-

Screening

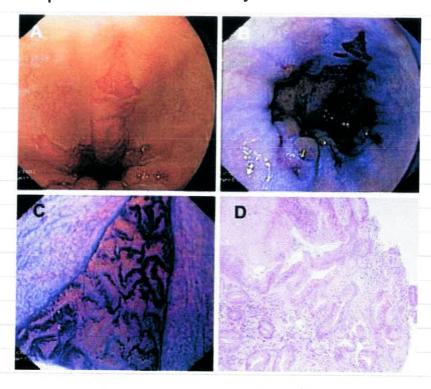


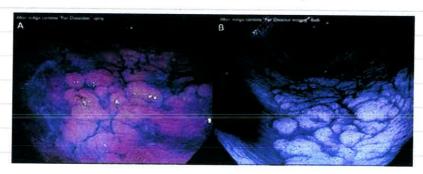
@ dye for Columnas epi → Methylene blue (Barrets)

Squamous epi - lugol's Iodine

In oral Cavity Examination: - Toluidine blue.

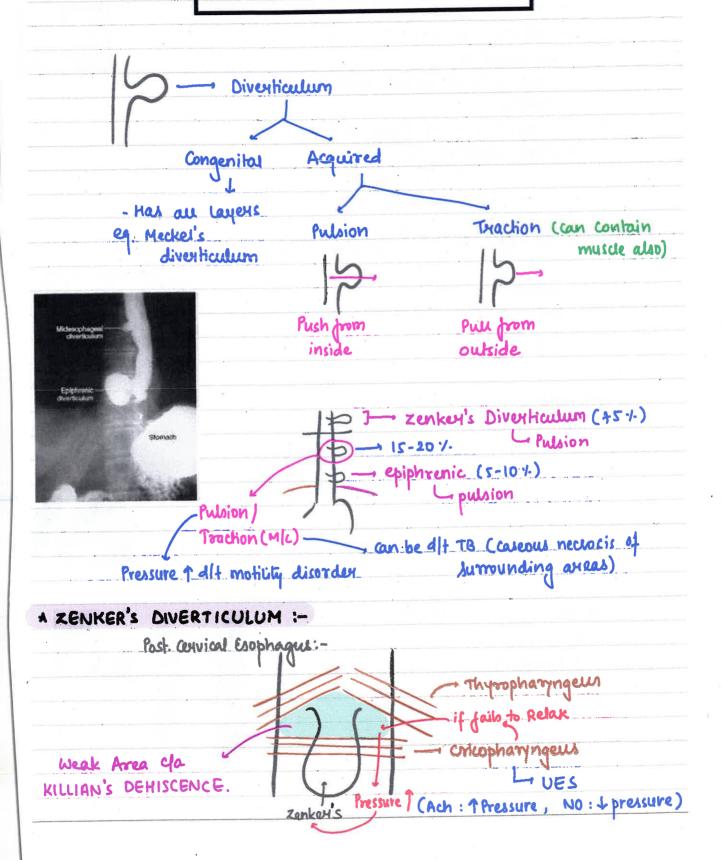
In histology which due is best for barret's? Alcian blue.







ZENKER DIVERTICULUM





Q: Adlian's friengle is utuated between?

 A: Thyropharyngeus and Cricopharyngeus
 Thyropharyngeus and Stylopharyngeus

 Inferior and the middle constrictor
 Cricopharyngess and stylopharyngess

- CIF >

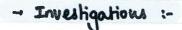
- 515g

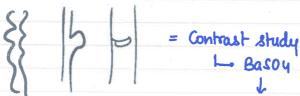
- → old age (>55 yrs)
- Dysphagia

 Regurgitation of old undigested food
 Halitosis.
- Aspiration lung abscess
- → Neck Swelling (Lt.> Rt.)

- Risk of Cancer T by 0.5%.

- Morten classification: 6/0 Size
 - Small = <2 cm
 - Intermediate = 2-4 cm
 - Big = >4 cm





Anatomical Distortions

Basium Swallow



- IDC = Barium Swallow
- Endoscopy
- Manometry
- CT Scan not required.



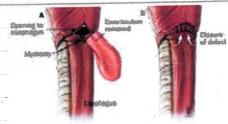


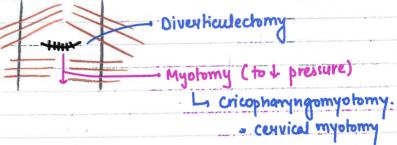
AP

Lat.

- Rx :-

- RxOc (>ucm) : Surgery





- Rxoc (<20m): Myotomy / Inj. botulinum toxin
- RXOC (2-4cm): Myotomy / Inj. botulinum toxin + Diverticulopexy

- Dohlman's operation

L' endoscopic operation.

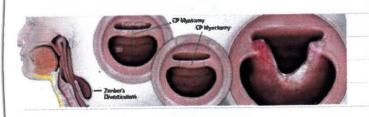
L' linear stoplers wed

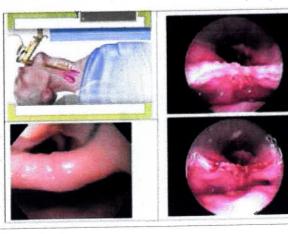
4 done too diverticulum (2-6 cm)





- coz laser can also be used.







ESOPHAGEAL WEBS

- Plummer winson Syndrome Peleuson brown kelly syndrome

L. found post cricoid (curvical Esophagus)

Ly Asymmetrical mucosal web



L 9>5°

L >40yrs

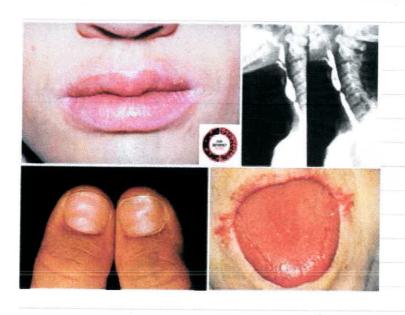
L. Associated with Iron deficiency America.
L. 4f: Dysphagia (Sideropenic dysphagia)
L. 1 Risk of Cancer

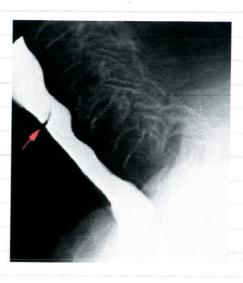
L. 10c: Barium Swallow

L. ex: Give Fe - & correct Anemia

La if web is symptomatic

La Go Balloon Dilation.











Before

After batton dilation.

ESOPHAGEAL RING

4a Schatzki Ring /B-Ring

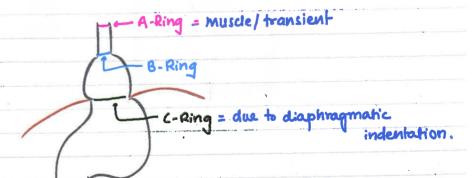
- Symmetrical
- Mucosal

(No muscle anvolved)

- found @ GET above diaphragm.

La associated with sliding Hiatus Hennia

- Caused by GERD.

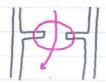


- clt :-

- 5 > 2

- >40 yrs





- 10-20 1. pts remain Asymptomatic

- Symptomatic pts. — no liquid dysphagia

li only solid dysphagia

li mild-moderate

Episodic

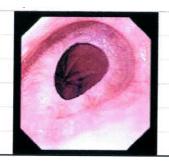
Sudden Aphagia: meat base Gets obstructed.

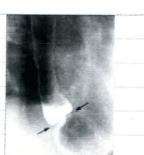
Light of a STEAK HOUSE SYNDROME (0)

→ MCC : Schatzki Ring > DES

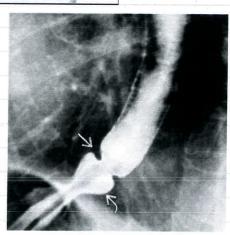
- loc: Barrium Swallow

- ex: · Treat Reflux (PPI)
- Balloon Dilation

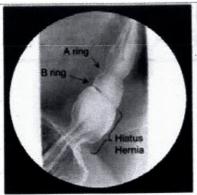


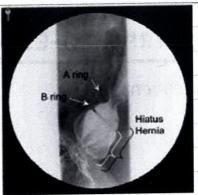


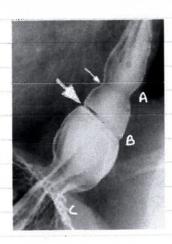






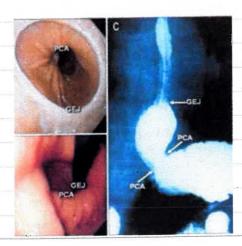








- Q. True statements regarding Schatzki ring is/are:
- A. Dysphagia predominately to solids 1
 - B. Increased risk with reflux *
 - C. Concentric narrowing of lower esophagus symmetrically T
 - D. Contains esophageal muscle x
 - E. Consists of esophageal mucosa above and gastric mucosa below au





TRACHED-ESOPHAGEAL FISTULA

- GROSS CLASSIFICATION >

B	J. A.			
Type A	Type B	Type C	Type D	Type E
(Atresia)		MIC	(Rarest)	= Type H
6 %		>85%		3-4-7.

- 6°>\$
- 1:5000 (Incidence)
- T Risk with Down's Syndrome Charge Syndrome
- SO 1. Children having TEF

- mother's have polyhydroamnios

- 50% children have multiple congenital Anomalies = VACTERLS Syndrome
 - vertebral

20% A Anorectal

MIC 25% C Cardiac - VSD, PDA, TOF

TE Tracheoesophageal

- R Renal
- L Limb Radial Hypoplasia
- S Single umbilical Artery.
- Presentation :-
 - Drooting of Saliva (Absent in Type E)



- unable to Swallow (Absent in Type E)
- Aspiration 4 checking while feeding
- Respiratory distress 4 pneumonitis.
- Abdominal distension (Absent in Type AIB)

- Investigations:

(infant feeding tube) X-Ray



Tube gets coiled





2 Contrast Study

- safest = Iohexol > Gastrograffin > Ba Swallow

- Rx :- Resuscitation
 - ~ 02
 - ilv fluids
 - calories (5:1 dextrose)
 - Antibiotics

Decide fitness of baby for Surgery b/o Pneumonia, birth weight

Sick child

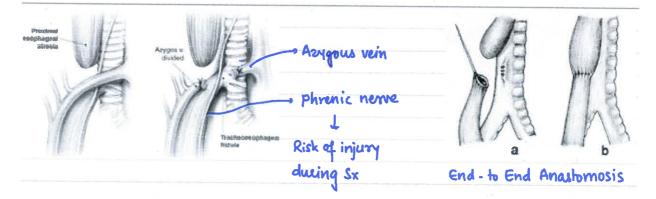
Fit child

Feeding Gastrostomy

Thoracotomy (Posterro-lateral)]
(from Rt. Side)

esophageal anastomosis





Anastomosis:

End to End End to side Side to Side

- Sulures :-
 - viczyl (Polyglactin) (Preferred for GIT)
 - absorbable
 - synthetic
 - Braided
 - chromic Catgut
 - absorbable
 - Natural
- Complications :-
 - late :- Stricture
 - GERD
- Type A TEF :-



- Feeding Gastrostomy
- Foker operation
- Gastric pull-up
- Jejunal interposition