## Hemorrhoids

Normal Anaton	ny:	
Middle rectal valve	•	mally, there are and cushions made of
	Rectal Junition Levator ani muscle  Deep external	<b>1</b>
Anal cushion —	sphincter  And columns	nous Smooth Muscle Elastic
Anal gland — Anal sinuses —	Anal papilla Anasto	
Pecten —	Dentate line Corpus Covern Superficial external sphinicter	HENR. LCH
Anocutaneous line	Internal Found of	above the dentate line, corresponding to
line Perianal veins	verge Subcutaneous external sphincter internal	homorphoidal plexuses, in the location
	Correspon	day to 3,7,11 o'clock in lithology
		left lateral right posterior & right omterior
Shed Dontak li	on is the line that so	was to be about the same Date
Deniaic III	- IS THE WALL THOUSE SE	eparates between the upper part
and lower (	port of the anal canal.	They have magor differences.
	Above Dentate line	Below Dentale line.
Histology	Simple Columnar	stratified squamous
Blood Supply	Superior rectal artery	Inferior rectal array
Venous Dranage	portal system.	IVC -> systemic drainage.
Innervation	Visceral innervation	Internal pudendal nerv
Clinical Relevance	Internal hemorikaids.	External hemorphoid
	Adeno carcinoma	Squamous Cell Carche
	Anorectal Varices.	Anal Fissure
Role of the	Anal Cushions!	
	•	e sphincters as it contributes to
	anal Pressure	
_ \	_	و من المناوية المناوية المناوية المناوية المناوية
D) 77100 307	pling. Diffrentiate between	3814 . 44-4, 965
Haus och i la		
Hemorrhoids		
dilated, enabr	and congested submuse	sal venous plexuses
	ged, congested submuce action of the muscle 3	

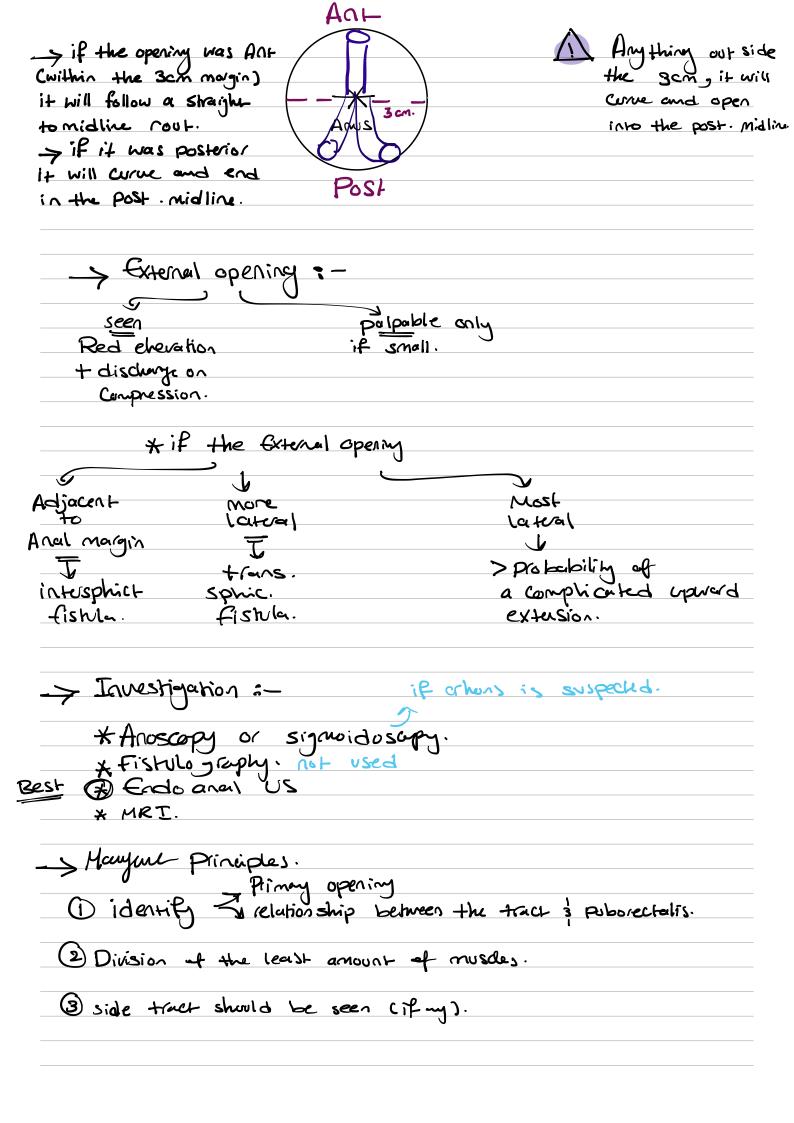
Ly Increase Abdominal pressure	
La Constipation. La Preg	nancy La Diarrhea due to
La Straining La Chro	<u> </u>
Lo Aging, Hereditary	Ŭ V
Ly Erect posture.	
•	
Hemomhoids	
Internal hemorrhoids	External hemorrhoids
-s developabove the dentate line	_ Below the dentate line
- typically PAINLESS	-s Somatic impervation that
- SYMPTOMS:	triggers <u>Pain</u>
A Painless red bleeding, typically	- Symptoms
at the end of defacation.	Bright red bleeding.
May be occult, check for anemia.	Perional mass.
* Prunitus and itching.	Printus
* Feeling of Rectal fullness	Parh - S Especially when
Mucous leakage	Thrombosed
* Prolopse	Thrombosis occur due to Stasi
·	typically resolves within 7-14
Classified into 4 grades according	b Typically leaves Skin Tags
to prologise:	appear as tender, darki
grade I : No prolopse	purphish module at anal ve
rade I : Prolepses but reduces at rest	
grade III: prolapse 3 reduce mammally	L: Ffrential
grade IV: Irreducible prolapse	Diagnoses
ostly uphrated may be strangulated and thrombosed.	benign, painless folds filskin at the anal verge that
C) is differentiated from the external	are residues of previous episodes of inflammation or thrombosed hemorrhoid
humorrhoids by checking the base of the prolapse.	La Hypertrophial and papill
Co gangrene, ulceration	Lo Rectal polyps.
	Lo Anorectal cancer.
Internal hemorrhoids one marrhy the a	
Internal hemorrhoids one mashly the occurring at the 3,7,11 o'clock siles.	ls Anal fissures.
J	ls Rectal prolapse.
	G IBD.

To Discounsis a dollar des des suit
For Diagnosis: Left Lateral position.
La Cassa de Dada de Casta de C
La Anoscopy or Proctoscopy.
La Colonoscopy if malignancy is suspected
*External Hemorroids 3 Irreducible Internal hemorrhoids are vivid on inspection.
* Internal prolapsed can be examined by increasing the intra-abdominal pressure during
DRE leg: valsalva maneurers, staining) -> Soft impolpable
* 1º Internal hemorroids can be complicated by 2º Idaughter hemorroids.
Treatment
For Ist + 2nd degree _s Medical Treatment
6 warm Sitz
(, Thigh fiber diet , Laxatives (Bulk forming).
C. Cortico Steroids.
G Vasoconstrictors (Ephedrine).
G Local Creams or Jels. (lidocaine).
If doesn't respond to medical treatment
C, Sclerotherapy.
G. Rubber band ligation.
G. Infra red coagulation.
Effectiveness is Cycherapy.
guestioned G Doppler guided hemorrhoidal arkey ligation.
La Anal Stretch
Grade 3+4 -> Surgery: Hemorrhoidectomy.
Milligan - Morgan. Closed Technique Primary Te
Parks-terguson Open Technique _ 2 rdany Intention.
Laser Hemorrhoidechany
External Thrombosed hemorrhoid:
appear as an abrupt and mass with pain peaking after 48 hrs. It resolves & shrinks
within weeks, leaving the skin overlying the thrombus necrotic thus causing bleeding, discharge
or intection.
Large thrombus many result in big skin tag.
If presented early - Incisional surgery
If presented late -> Conservative

A	nal Fissure	> stratified squamous non-keratinized	
a longitudinal tear in the muco	sa of the ano	derm yet devoid of hair fallicles & glands.	
	Classified based or		
Cause :- E	Complications:	Duration:	
1° primary: - Hyperactive/Hypertonic Duc to increased internal sphincler tone	Fishla	Acute:-	
Due to increased internal sphincler tone.	Abscess.	present of acute abrupt pain	
Most commonly in the posterior commis	sure	w/ bright reated bleeding prur	
6 o'clock " position, less perfusion,	msre	Chronic:- >1 month.	
prone to ischemia.	awłock	Fibrosis	
2° secondary:	12 o'clock	Hypertrophied and papillae	
Due to:	3 o'clock	Sentinel piles.	
Infections : Syphilis, HIV		Submucosal Fishla	
	12 oʻclock	~~~	
Concer (Leukemia).	'clock 3 o'clock	(Symptoms)	
Trauma (postpartum, anal abnormality).		* Pain in the anus 3 during defacation	
Constipation.		* bleeding after defacation (streaks)	
occur either anterior, posterior or	_	* Voluntarly avoiding defacation leading	
lateral.		to constipation.	
		* Discharge	
		* Sentinel piles / tags	
by Elic in the	nal anal sphincterotomy was introduced for treating anal fissures weehammerels in the 1950s. It was originally performed potentorly millime, but this often he do the two-called keyhole deformity, herefore, factarial eductions sphincterotomy as popularized by		
Treatment )	correction. Line is associationally application of the provision in association of a positive internal pathernoons, scaring and epithelization proprietic internal pathernoons, scaring and epithelization proprietic internal pathernoons contained and spicienter muscles with it in certain the contraction of the provision of the contraction of the contracti	Surgery when refractive to medical.	
Medical Kind	enter ealers in prensenter where the policy and from to 10 cm 2.05 m in the ponential me sphinterectoring you and from to 10 cm 2.05 m in the US group.  10 cm 2.05 m in the US group of the US group and from to 10 cm 2.05 m in the US group.  11 cm 2.05 m in the US group of the US group	Sphincterotomy	
our esignif	permones, rol investment, the aim to the present study is to state of specific of kepfold deformity, to emphasize the surgical ficance of this entity, and to discuss the possible strategies in the meet of the deformity.	So Partial lateral internal	
Bulk forming Laxadive		Sphincterotomy	
Stool softners.		1 Risk of inconfinence	
Phamacologic agent ?	to relax		
the sphinch:	-		
Botulinum toxin,	budro costis an	V-Y Anoplasty	
CCB (Nifedia	Ų	(Anal Advancement flap Technique)	
		Surgical procedure in which damaged anal tissue	
Nitroglycerne.  The posterior commissure is believ	ed to have a very	•	
poor blood supply, which predispo	ses it to ischemia	Tiet ask	
(exacerbated by poor perfusion du	ring increased	tissurectomy	

## Anorectal Abscess Acuse phase. C> Glandular obstruction > bacterial overgrowth + pus > Abscess formation According to the location they are classified into: - Cpotential Spaces for Abscess). [ sudden + throldbing] pain (1 with sitting or defecution -> fear -> Constipotion). ference, chill, Malaise. Pus. discharge. > very tender so Examination should be under G.A ( very tender). Dange Surgiculy :- (1) incision & drainage Local US Systematic 79 > post op IN antibiotics Cellulitis Recullance Deep 3 local Sepsis OHO leukocytosis Spread. Immunoco~ burst spont abscess Honorectal Histolia 2 epitheliums. > Fistula is a connection between Chronisi (Here: - anal Conal >> perianal skin). ( cryptogenic 1+2+3) > most commonly occurs after Abscess. ording tout Tracks Classification cypt Glands. Extrasphicteric 1- cross internel 2- intersphinatric plane. (no relation to sphineters) Supra sphickolic. Usvally are to pewic 1\_ thro the internal sphictor Note that 1+2+3 2-intersphictoric plane all originate from the level Intersphictoric fistula. of pectine line. cross both internal / External sphin. trans sphict.

Good Salls Rule



-> Hayene	. :-			
		1 Cunique	it open to r	
(1) fishol	IOTOMY +	marsupia	lization.	
	Fistulotomy with marsupializ		·	
	Remove			
	Probe advanced Lay open fistula tract	Marsupialized fistulotomy edges		
	through fistula tract to identify Cut-	Keep it open		
	the track	KEEP IT OPDI		
(2) Fish IFO	TOMU - MAL	e and in the	he term of healing.	
	→ 101	900 (11 4	we tell of he and .	
3 Setons				
<u> </u>	<b>.</b>		<b>_</b>	
5	C 1/5 ·		Mediated.	
Dasa	<u> </u>		V	
Dany			to induce fibrasis	
(4) Rectal	Ilan.		40 IVANGE HIDIOZIZ	y•
· narai	- roop			
Other proce	edures			
Fistulectomy an	d Primary Closure			
<ul><li>Uideo assisted</li><li>□ Cutting Seton</li></ul>	anal fistula treatment			
————				
□ Anal Plug □ Lift Technique				
ablation: laser	and cautery			