Extra intestinal manifestations

مُلا عظمة مديحون الأكمم:الريحتورة قالت تعليق على العدد القليل
بالعدرج: "بتلاخطوا بالبائو مشان
البلوبال! متندموا"
وبتفيل أنت طالبًا بعرطة الندم مش هيك؟
وأنا كمان مجمعمع
مش قصدى لزكول طبخا، قول بسم الله

means it appear in flommetion of the iris, eye.

Knee then ankle joint then elbours and Migratory polyarthritis swelling and pain in joint wing.

Knee the Sacroiliitis, singlammation in sacroiliae soint elbours.

Ankylosing spondylitis,

Show the Sacroilian podesum.

Clubbing of the fingertips

Erythema nodosum

Primary sclerosing cholangitis (more with UC)

but you can see it

with crohn. diseas

Erythema nodosum



Neurology Advisor

Clubbing

The angle between the nail and the nail bed becomes convex



not specific, you will see in many other Chronic illnesses.

Wikipedia

Ulcerative Colitis Morphology

Morphology____ nearly all features are opposite ما المتعارة هون عَارِبَتُ عَامِيةً لَا عَمْ النَّعَامِ وَالنَّعَامِ وَلِيَّا عَلَيْكُ مِنْ النَّعَامِ وَالنَّعَامِ وَلْمُعَامِقُولُ وَاللَّهُ وَلَيْكَ اللَّهُ اللَّهَامُ وَلَيْكُمُ اللَّهُ وَلَيْكُمُ اللَّهُ وَلَيْكُمُ اللَّهُ وَلَيْكُمُ اللَّهُ وَلَيْكُمُ اللَّهُ وَلَيْكُمُ وَلِي الْعَلْمُ اللَّهُ وَلَيْكُمُ وَلَيْكُمُ وَلِي اللَّهُ وَلَيْكُمُ وَلَيْكُمُ وَلِي اللَّهُ وَلِيْكُمُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلَيْكُمُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلَيْكُمُ وَلَيْكُمُ وَلِي اللَّهُ وَلَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلِي اللَّهُ وَلَيْكُمُ وَلَّهُ وَلَّا مُعْلَى وَلَّهُ وَلَّا لَهُ اللّهُ وَلَّهُ وَلَّا لَهُ اللّهُ وَلَّا

لمهك ره اذكر بين حكه عنه بهاللون.

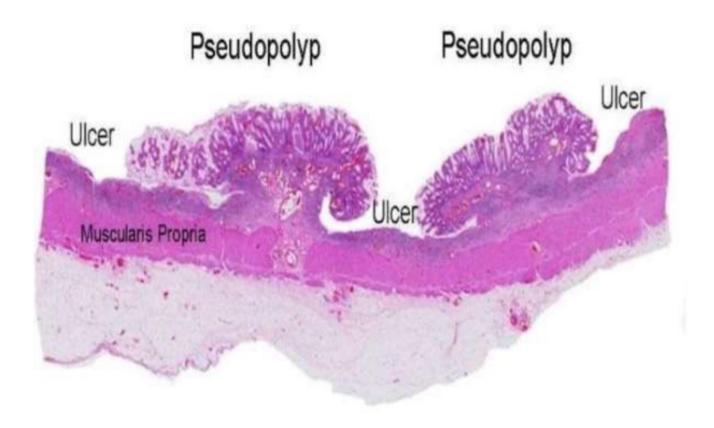
- Always involves the rectum—not nessessy in rectum
- Extends proximally in continuous pattern____Crohn in Skip Lessons
- Pan colitis.
- Occasionally focal appendiceal or cecal inflammation.
- Ulcerative proctitis or ulcerative proctosigmoiditis
- Small intestine is normal (except in backwash ileitis)

The Cast Few Cons of terminal ilium is inflammed

*That doesn't mean small bowd involvement.

Macroscopic:

- Broad-based ulcers. not deep with no lissures or fistules.
- Pseudopolyps
- Mucosal atrophy in long standing
- Mural thickening absent
- Serosal surface normal
- No strictures
- Toxic megacolon

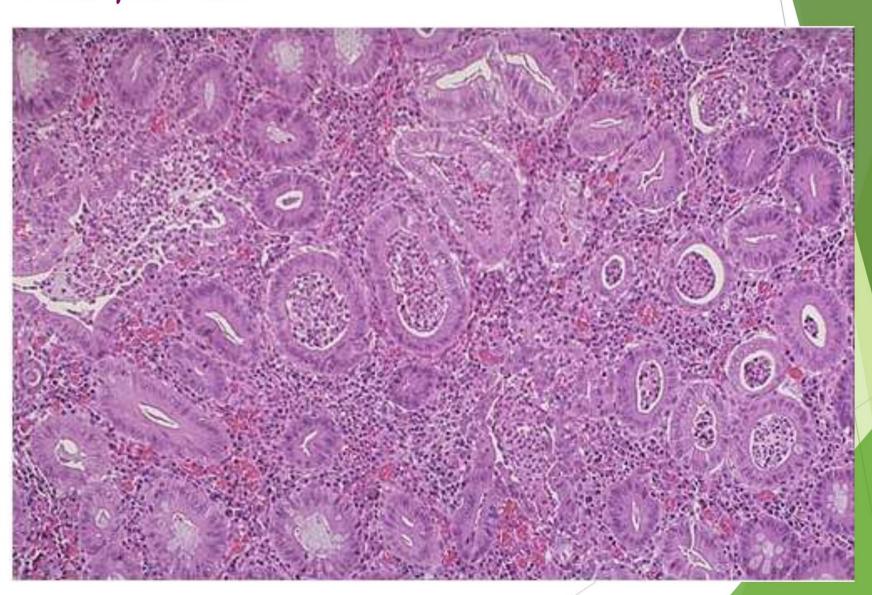


Toxic megacolon

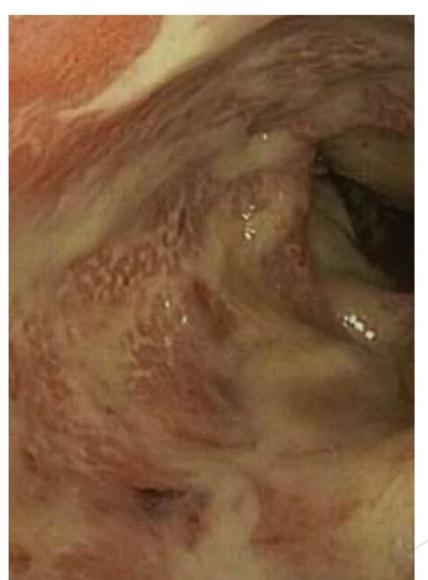


- Microscopic:
 indicates: active infection in addition
 to chanic disease (signs)
- Inflammatory infiltrates
- Crypt abscesses
- Crypt distortion
- Epithelial metaplasia
- > Submucosal fibrosis Not 60 the whole well so No stricture or narrowing
- Inflammation limited to mucosa and submucosa.
- No skip lesions
- No granulomas.

Crypt abcesses.
Consentrophils accumulation in the lumen of the crypts,



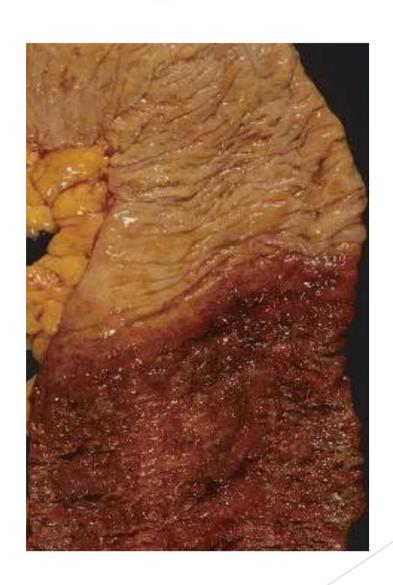
Mucopurulent material and ulcers.



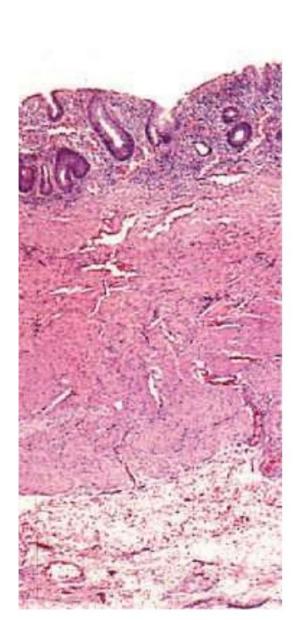
Pancolitis_starting with rectum ending with cecum—sthe whole colon is

involved-

Abrupt transition b/w normal and disease segment.



Limited to mucosa



Clinical Features

الدكتورة فالت و يعنى كسي بيسبه مهمه

- Relapsing remitting disorder
- Attacks of bloody mucoid diarrhea +lower abdominal cramps
- Temporarily relieved by defecation
- Attacks last for days, weeks, or months.
- Asymptomatic intervals.
- Infectious enteritis may trigger disease onset, or cessation of smoking.
- Colectomy cures intestinal disease only

L very important table.X

Summall-

Feature	Crohn Disease	Ulcerative Colitis
Macroscopic		
Bowel region affected	lleum ± colon	Colon only
Rectal involvement	Sometimes	Always
Distribution	Skip lesions	Diffuse
Stricture	Yes	Rare
Bowel wall appearance	Thick	Thin
Inflammation	Transmural	Limited to mucosa and submucosa
Pseudopolyps	Moderate	Marked
Ulcers	Deep, knifelike	Superficial, broad-based
Lymphoid reaction	Marked	Moderate
Fibrosis	Marked	Mild to none
Serositis	Marked	No
Granulomas	Yes (~35%)	No
Fistulas/sinuses	Yes	No
uen important.	too "	

ملاعظة الماس على إلى ساسى بالسلايد يلي قبل

Feature	Crohn Disease	Ulcerative Colitis	
Clinical			
Perianal fistula	Yes (in colonic disease)	No	
Fat/vitamin malabsorption	Yes	No	
Malignant potential	With colonic involvement	Yes	
Recurrence after surgery	Common	No	
Toxic megacolon	No	Yes	
NOTE: Not all features may be present in a single case.			
	يدان الركتورة ٥٥	the elses is	

Colitis-Associated Neoplasia

- Long standing UC and CD.
- Begins as dysplasia >>>> carcinoma.
- Risk depends on
- Duration of disease: increase after 8-10 years.
- Extent of involvement: more with pancolitis.
- Inflammation: frequency & severity of active disease with neutrophils.



Manar Hajeer, MD, FRCPath

University of Jordan, School of medicine



INFLAMMATORY INTESTINAL DISEASE

- Sigmoid Diverticulitis
- Chronic Inflammatory bowel diseases (CIBD)

Crohn disease

Ulcerative colitis



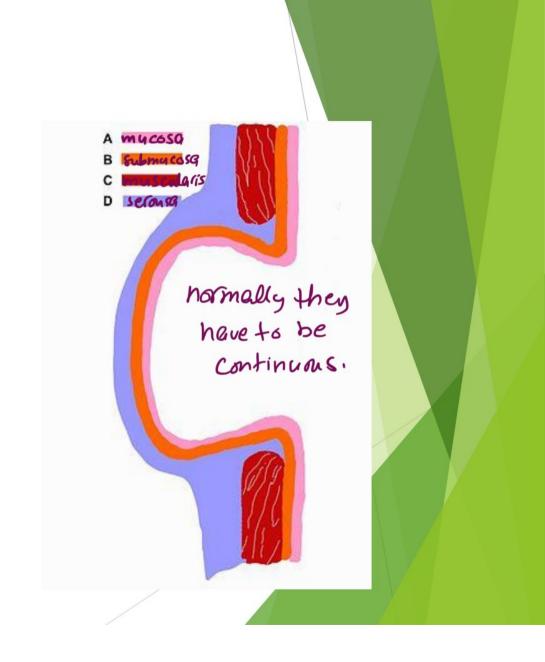
Sigmoid Diverticulities the Cining of the Cumen get autside.

2 Joseph Google said: small bulges or pockets (diverticula) develop in the lining of the intestine. Diverticulities is when these pockets become inflamed or infected.

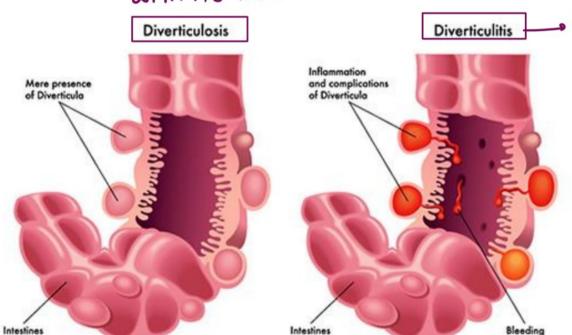
- Acquired.
- Elevated intraluminal pressure in the sigmoid colon
- Exaggerated peristaltic contractions,
- Low fiber diet and constipation.
- Pseudodiverticulae not true, as not all bowell get outside—stust mucosa and submucosa.
- Outpouchings of colonic mucosa and submucosa

MORPHOLOGY

- Flasklike outpouchings
- Mostly in sigmoid colon.
- Thin wall (atrophic mucosa, compressed submucosa)
- Attenuated or absent muscularis.
- Obstruction leads to diverticulitis.
- Risk of perforation.
- Recurrent diverticulitis leads to strictures.



with no inflammation



it becomes inflammed to it's litis



Clinical Features

- Mostly asymptomatic.
- Intermittent lower abdominal pain
- Constipation or diarrhea.

Loif inflammation occur,

- Tx
- High fiber diet to treat the causers constipation

 Antibiotics in diverticulities
- Surgery_sip there is perforation

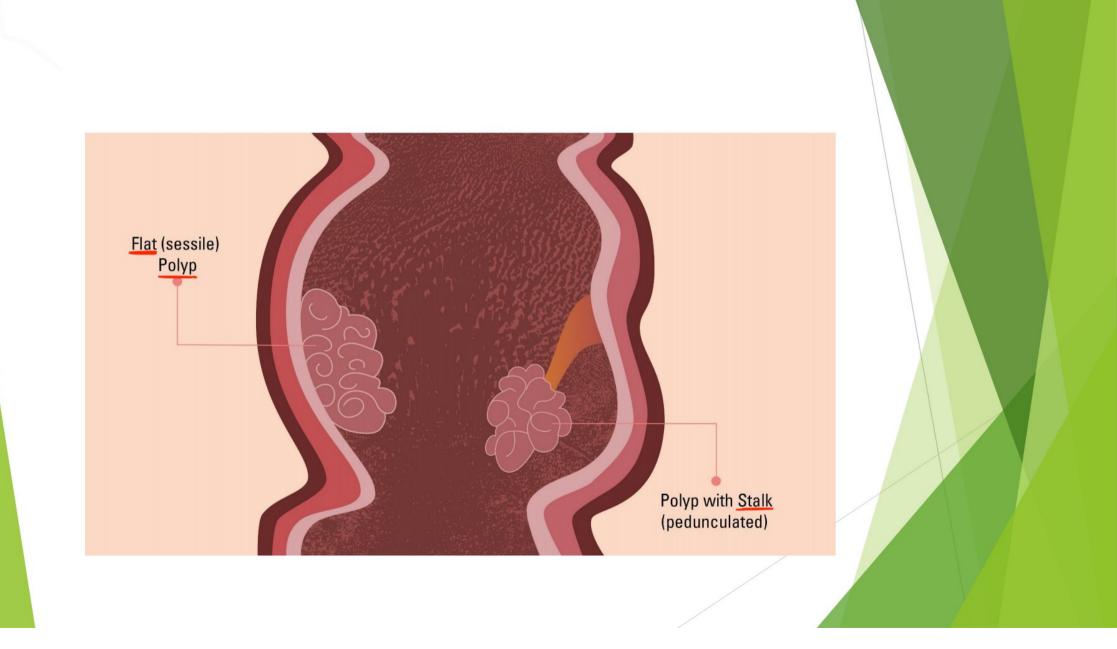
Diseases of the intestines

- Intestinal obstruction
- Vascular disorders
- Malabsorptive diseases and infections
- Inflammatory bowel disease.
- ► Polyps and neoplastic diseases



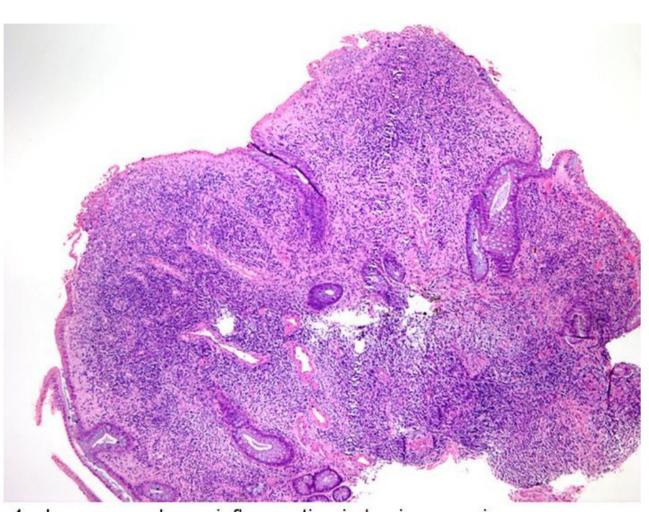
COLONIC POLYPS AND **NEOPLASTIC DISEASE**

- Colon is most common site for polyps
- Sessile polyp: no stalk
- Pedunculated polyp: stalk.
- Tumas Neoplastic polyps: adenoma.
- Non neoplastic polyps: inflammatory, hamartomatous, or hyperplastic



Inflammatory Polyps

- Solitary rectal ulcer syndrome ____ happens Just in rectum.
- Recurrent abrasion and ulceration of the overlying rectal mucosa.
- Chronic cycles of injury and healing give a polypoid mass of inflamed and reactive mucosal tissue.



4x: low power, dense inflammation in lamina propria

Hamartomatous Polyps

- Sporadic or syndromatic.
- Disorganized, tumor-like growth composed of mature cell types normally present at that site.

- Juvenile Polyps
- Peutz-Jeghers Syndrome

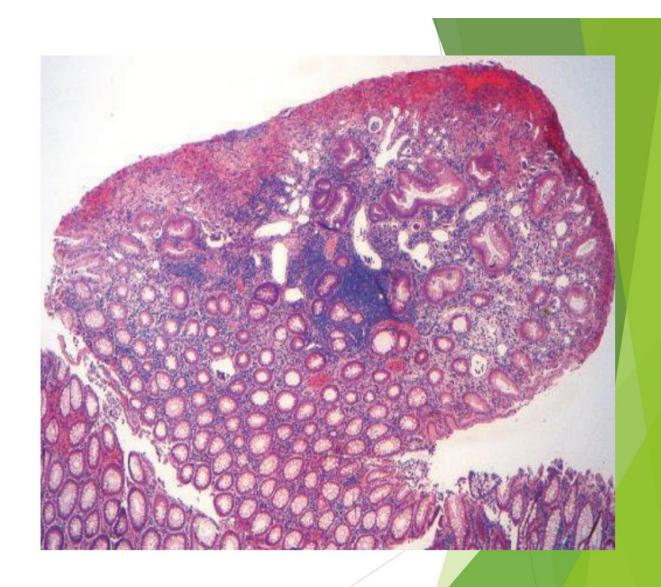
Juvenile Polyps Ledways means young age.

- Most common hamartomatous polyp
- Sporadic are solitary.
- Children younger than 5 years of age
- Rectum.
- Syndromic are multiple.
- > 3 to as many as 100. Mean age 5 years
- Autosomal dominant syndrome of juvenile polyposis
- Transforming growth factor-β (TGF-β) mutation.
- Increased risk for colonic adenocarcinoma.



Juvenile Polyps

- Pedunculated
- Reddish lesions
- Cystic spaces on cut sections
- Dilated glands filled with mucin and inflammatory debris.
- Granulation tissue on surface.



Peutz-Jeghers Syndrome Always they are syndromatic.

- Autosomal dominant, rare
- Mean age: 10-15 years.
- Multiple gastrointestinal hamartomatous polyps_normally as they are syndromatic.
- Most common in the small intestine.
- Mucocutaneous hyperpigmentation
- Increased risk for several malignancies: colon, pancreas, breast, lung, ovaries, uterus, and testes,
- LKB1/STK11 gene mutation.

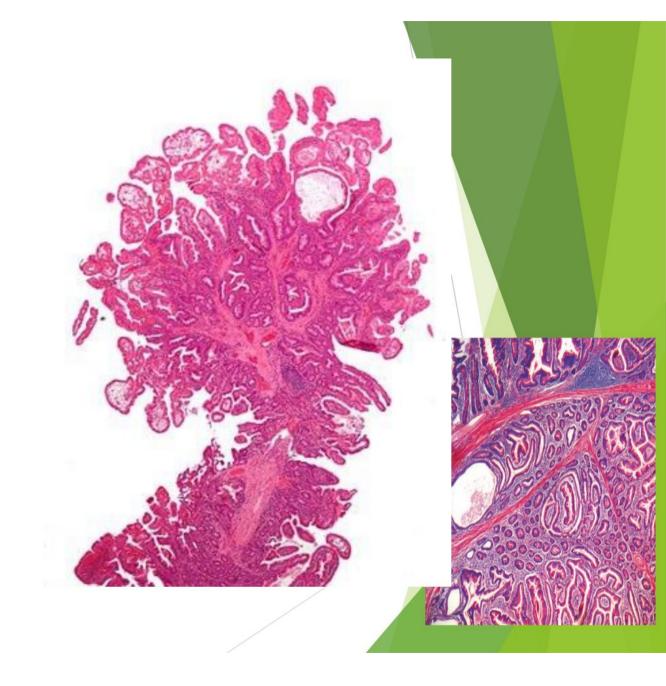
Peutz-Jeghers polyp

Large.

-Arborizing network of connective tissue, smooth muscle, lamina propria

Glands lined by normal-appearing intestinal epithelium

Christmas tree pattern.



so we Call them?

Mucocutaneous pigmentation





Hyperplastic Polyps

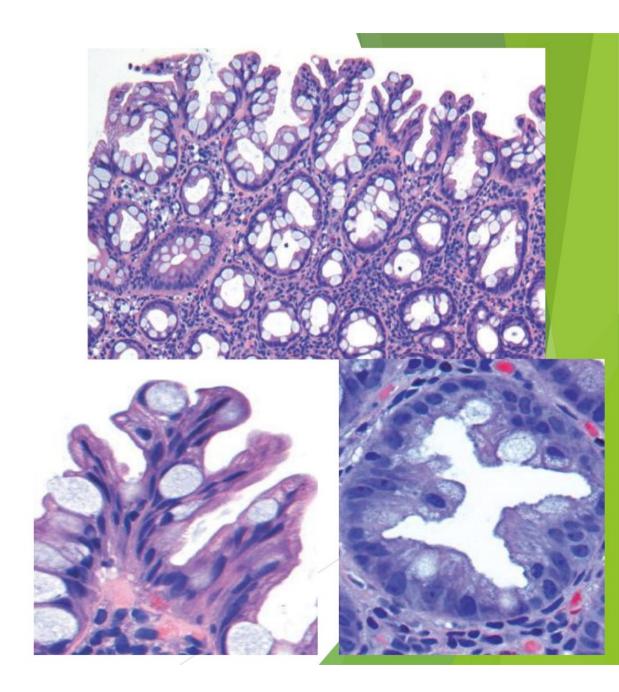
- Common
- 5th-6th decade. increase with age.
- Decreased epithelial turnover and delayed shedding of surface epithelium >>> pileup of goblet cells & epithelial overcrowding

 Lowe see elot of goblet cells.

 No malignant potential

Hyperplastic polyp

- Left colon
- Rectosigmoid.
- ▶ Small < 5 mm
- Multiple
- Crowding of goblet & absorptive cells.



الری تورق بعد کا دارا بدیم رت سوا کل رام حکته و ترکروا شی بتر کرواهای Adenomas

- Most common and clinically important, as it can be cancer.
- Increase with age.
- Definition: presence of epithelial dysplasia (low or high).
- Precursor for majority of colorectal adenocarcinomas
- Most adenomas DO NOT progress to carcinoma.
- USA: screening colonoscopy starts at 50 yrs.
- Earlier screening with family history.
- Western diets and lifestyles increase risk.

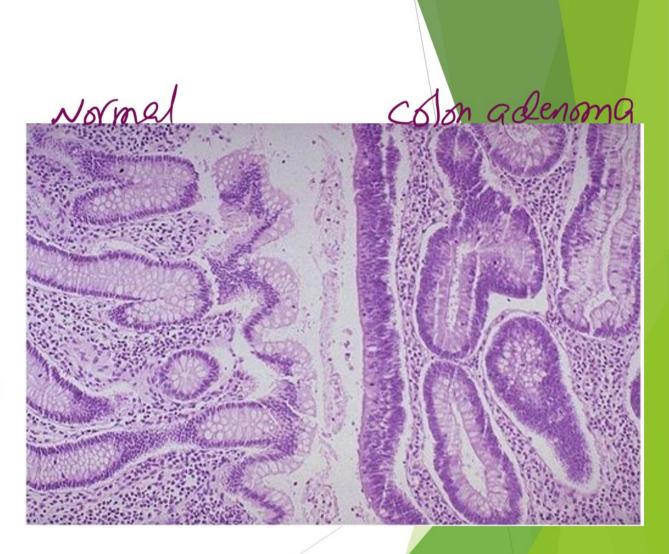
Pedunculated or sessile



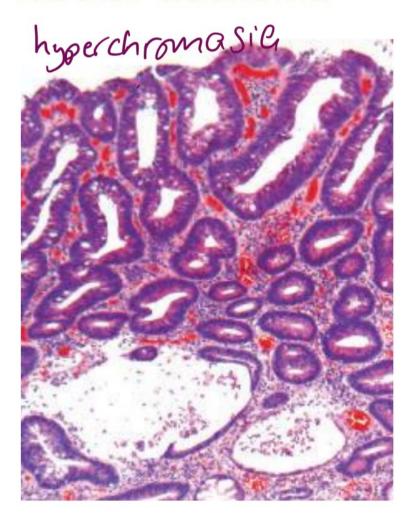


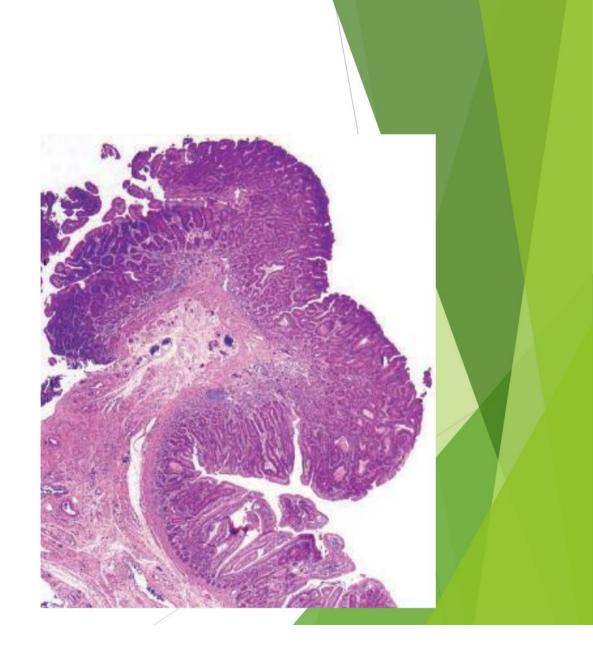
Colon adenoma

- Hallmark: epithelial dysplasia
- Dysplasia: nuclear hyperchromasia, elongation, stratification, high N/C ratio.
- Size: most important correlate
 with risk for malignancy
 If we have two polyps, A -> 5 cm in size
 B -> 1 cm in size
 A -> has high risk of malignancy
- High-grade dysplasia is the second factor



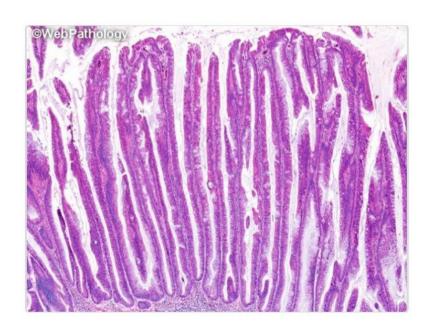
Tubular adenoma





Polyp glands have to be dysplastic.

Villous adenoma. Logsit is like the Villi of the small bowel

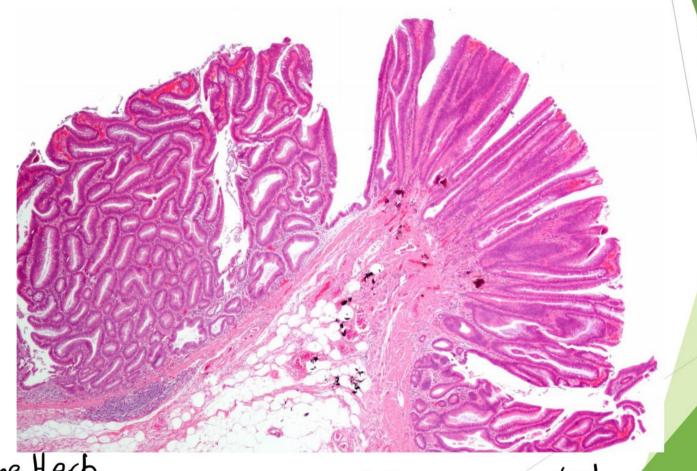


- Long slender villi.
- More frequent invasive foci

- Architecture:
- Tubular.
- Tubulovillous.
- Villous.



Tubulovillous adenoma



Modified by: Rama Harb

you are welcome if there is any question!