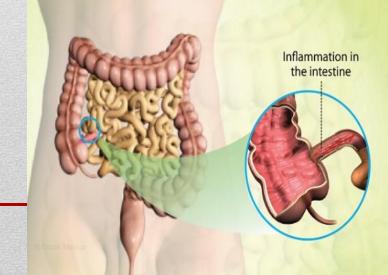


# Crohn's disease

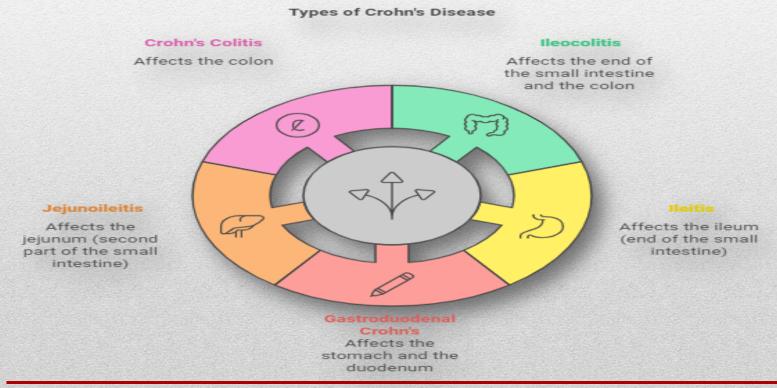
Lab 7



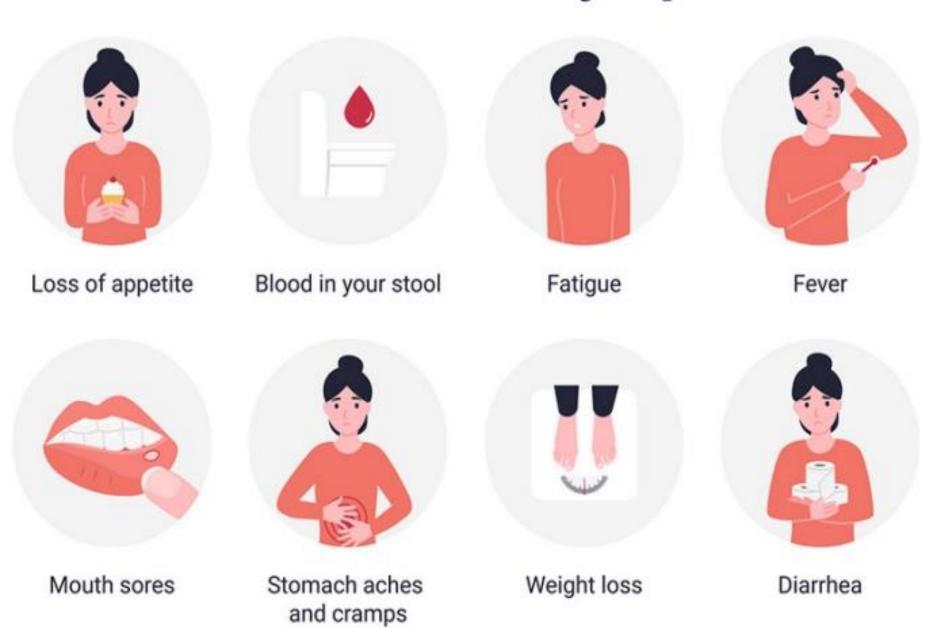
Ms.C. Fadhela Nafi ALrawi

## Crohn's disease

- **❖** Are chronic inflammatory bowel diseases with protracted relapsing & remitting coarse
- **❖** It can affect any part of the gastrointestinal tract, from the mouth to the anus.

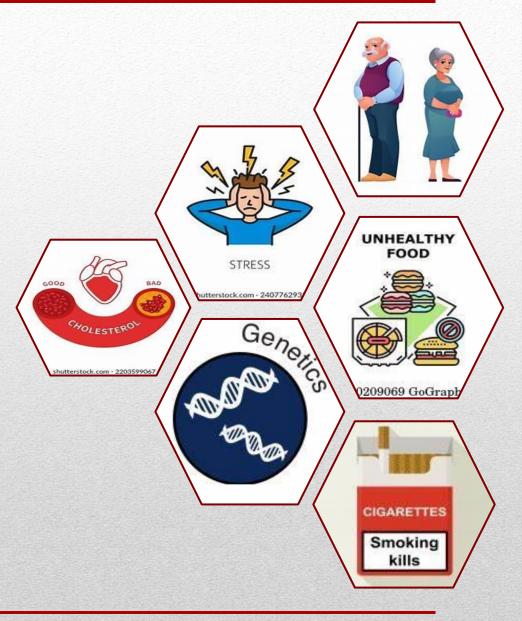


## **Crohn's Disease Symptoms**



## Causes

- 1. Genetic factors
- 2. Immune factors
- 3. Environmental factors
- 4. Smoking
- 5. Infection
- 6. Psychological stress
- 7. Geographic factors
- 8. Age and gender



## Complication

### Consequences of Untreated Intestinal Conditions

Cancer

Malignant growths in the intestine

> Bowel Perforation

Holes in the intestinal wall leading to leakage



**Fissures** 

Small tears in the intestinal lining

Fistulas

Abnormal connections between intestinal segments

## Diagnosis





upper or capsule endoscopy



abdominal CT scan



blood tests

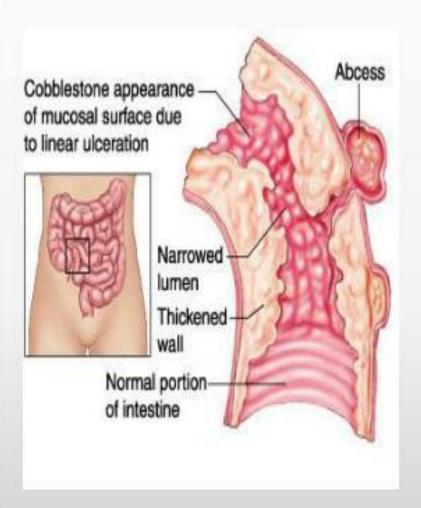


stool tests





### **DIAGNOSIS**



### Colonoscopy:

Provides view of the entire colon
Tissue for biopsy and laboratory analysis
The presence of granulomas
(clusters of inflammatory cells)
confirm the diagnosis because they
only occur with Crohn's disease

#### CT Scan:

Provides image of the whole bowel Allows the doctor to see the location and extent of the disease Also checks for complications like partial blockages, abscesses or fistulas

#### MRI:

Creates detailed images of organs and tissues

Very useful in the diagnosis and management of the disease

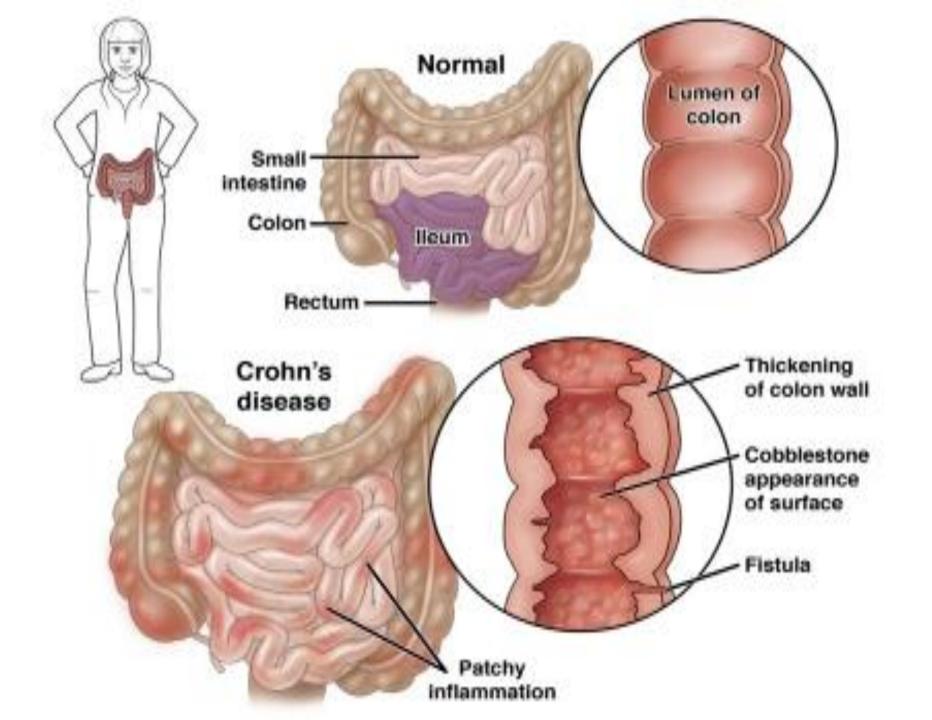
### Capsule Endoscopy:

Swallow a capsule that has a camera in it Takes pictures as it moves through the digestive tract

The images are downloaded which can be checked for signs of Crohn's disease

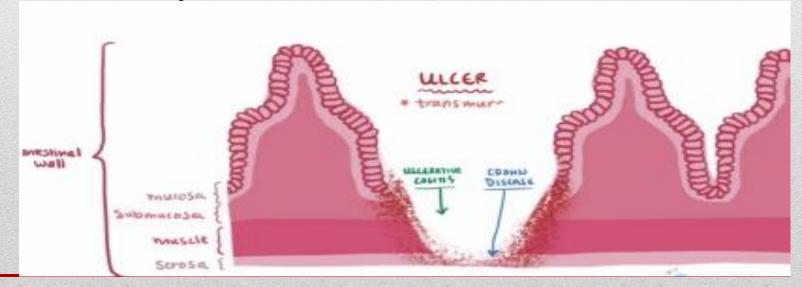
## **Essential features**

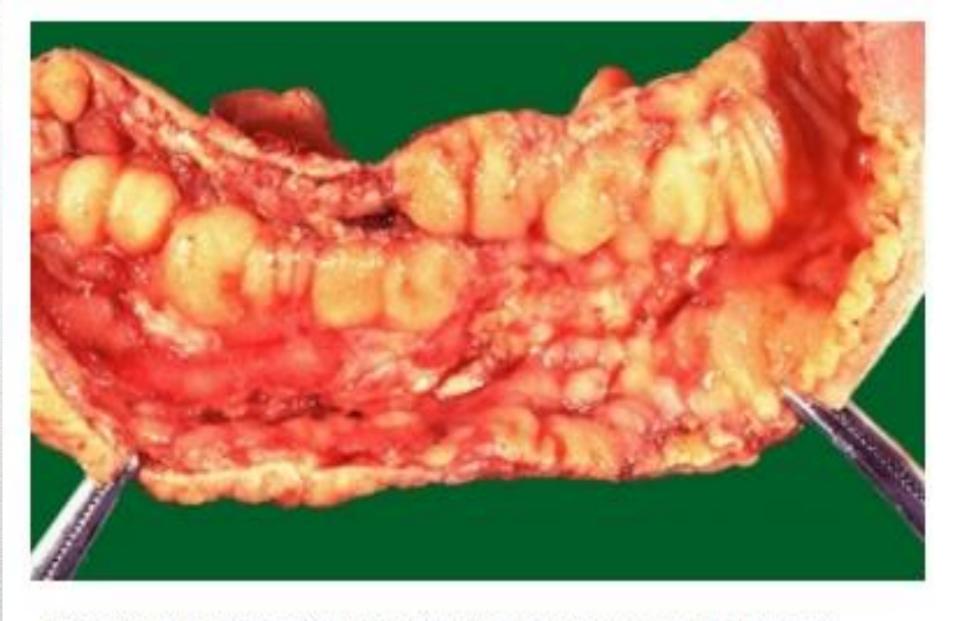
- Diagnostic criterion: segmental disease, transmural inflammation, noncaseating granulomas, deep fissuring ulcers, ileal involvement
- Distal ileum is the most commonly involved part of the small intestine
- Risk of colorectal carcinoma increases with duration and extent of disease



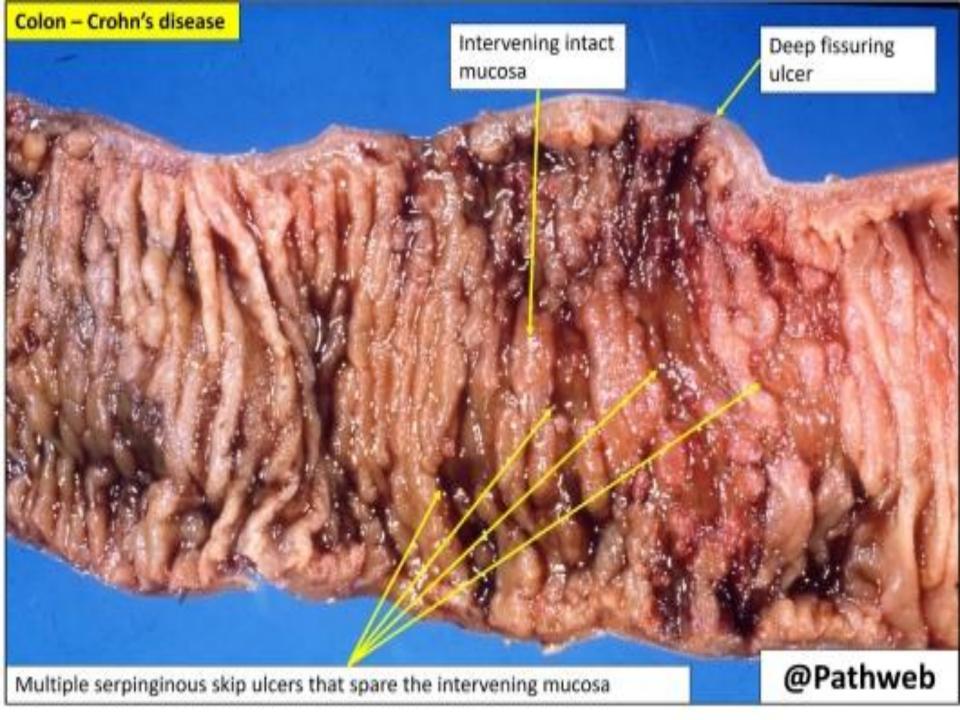
### Hallmark of crohns disease under microscope

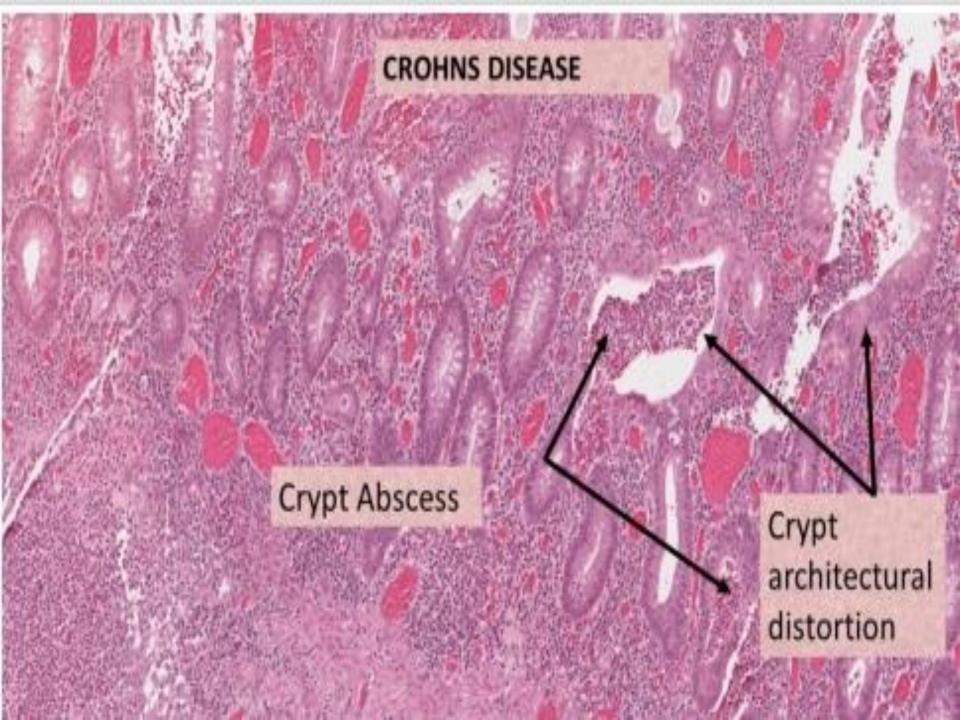
- Crypt abscesses are the accumulation of inflammatory cells within crypts, which are tube-like glands found in the lining of the gastrointestinal system (i.e., digestive tract).
- Crypt architectural distortion
- All layers inflammation with lymphoid aggregates in the subserosal adipose tissue

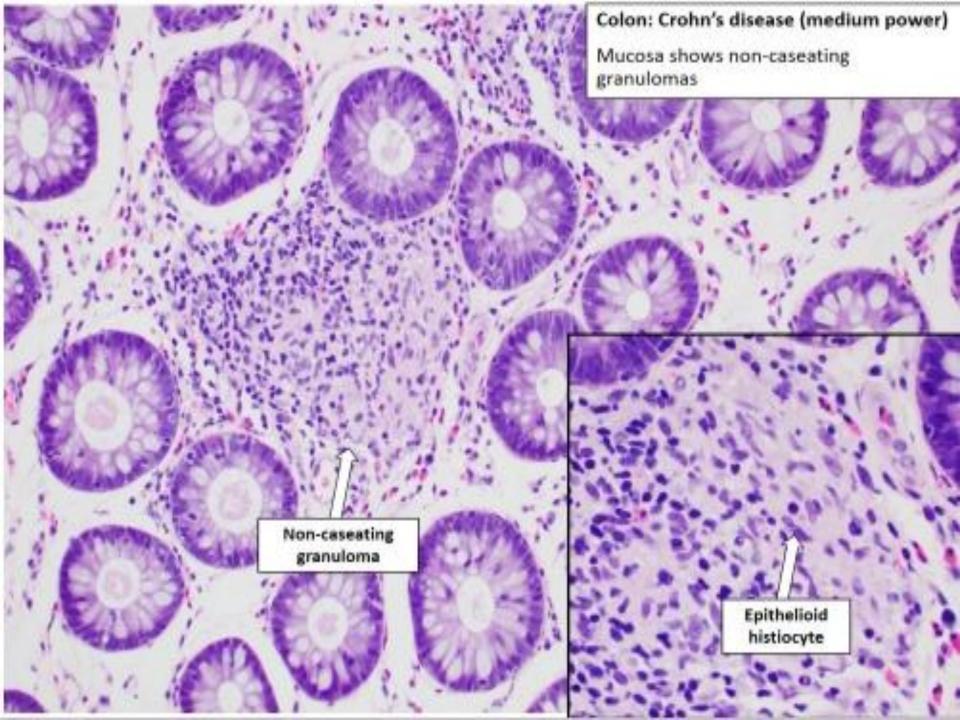




- Discontinuous pattern of inflammation (segmental disease, skip lesions)
- ·Cobblestone appearance (areas of nonulcerated mucosa separated by deep ulcers)









Diagnosis is crhons disease There is granulomatous inflammation in the lamina propria

