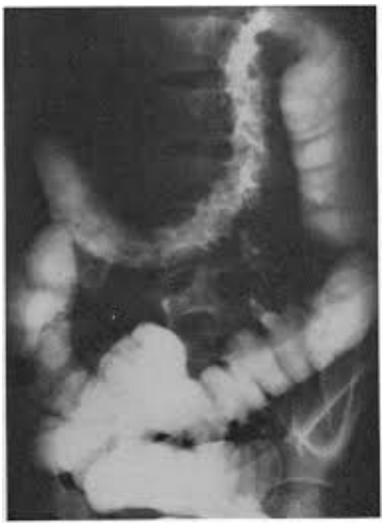


REGIONAL ENTERITIS

Abigail Hansen

CROHN'S DISEASE



https://gut.bmj.com/content/gutjnl/1/2/87.full.pdf

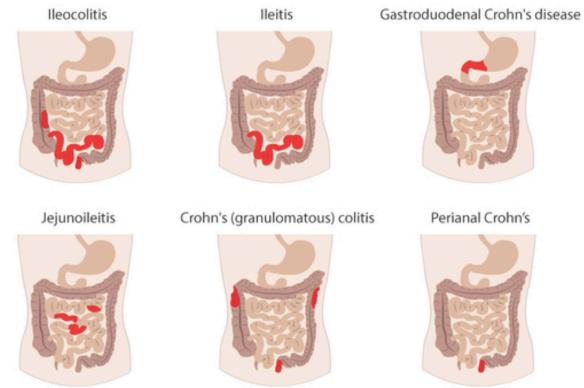
ETIOLOGY

- ❖Inflammatory bowel disease^{1,2}
- Genetic autoimmune condition¹
- ❖ Affects the small bowel and the beginning of the colon^{2,3}

DIFFERENT TYPES

- ❖lleocolitis³
- ❖lleitis³
- ❖Gastroduodenal Crohn's disease³
- ❖ Jejunoileitis³
- ❖Ulcerative colitis³
- ❖ Perianal Crohn's³

TYPES OF CROHN'S DISEASE



BDrelief

www.ibdrelief.com

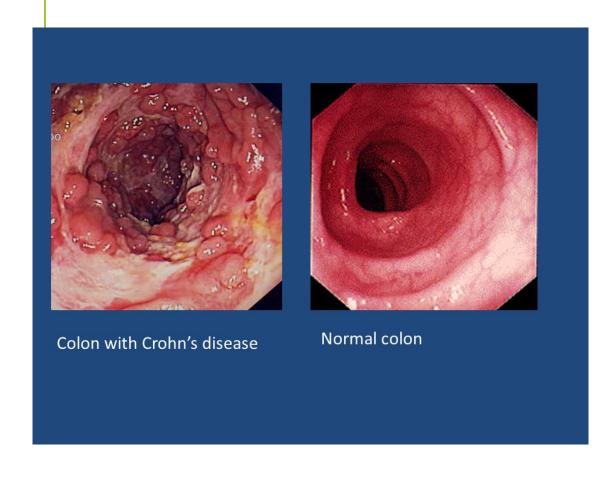
WHAT'S THE DIFFERENCE

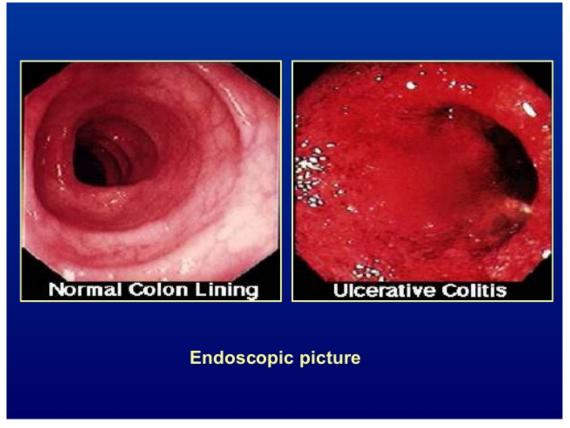
Crohn's Disease

- Can affect any part of the GI tract³
- ♦ Affects all layers of the bowel wall³
- ❖780,000 have been diagnosed³
- ♦ More prevalent between ages 15-35³
- More common among eastern European descent and African American populations³

Ulcerative Colitis

- Chronic disease of the colon³
- Only affects the lining of the colon³
- •907,000 have been diagnosed³
- ♦ More prevalent in mid-30's³
- More common among white people of European origin and people of Jewish heritage³





https://slideplayer.com/slide/5876338/

https://www.slideshare.net/E neutron/celiac-inflammatory-bowel-disease

WHO IS AFFECTED BY IT

- ♦ Affects men and women equally³
- \diamond Can occur at any age, seems to be more prevalent in ages 15-35³
- ❖The risk of being diagnosed with this disease increases between 5-20% when a relative has been diagnosed³

GENETIC COMPONENT

- Classified as an genetic autoimmune disease^{1,2}
- ❖Isabelle Cleynen conducted a study to determine genetic role in Crohn's disease⁴
- The research was able to identify 163 susceptibility loci for Crohn's disease and ulcerative colitis⁴
- Another population was gathered and tested, this time it found 3 loci associated with the subphenotypes of inflammation⁴

PATHOLOGY

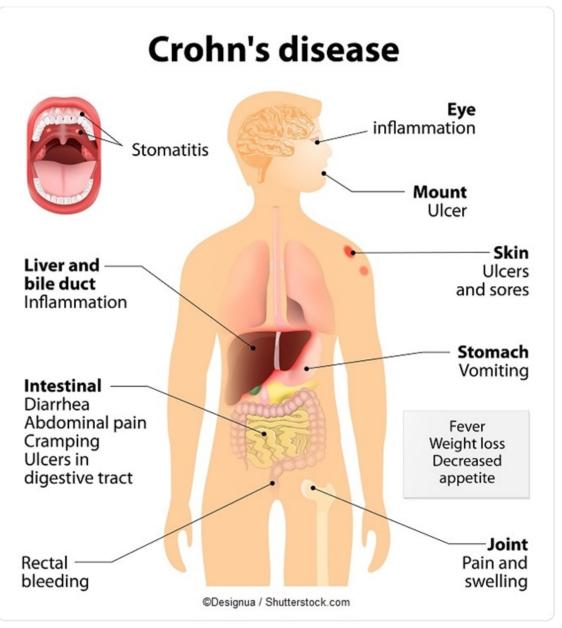
- Characterized as flare-ups and periods of remission⁵
- ❖ Disease begins with inflammation of the small bowel and colon ^{2,3}
- *May affect any part of the GI tract, from mouth to anus³
- As disease advances, bowel wall thickens and becomes fibrotic, and the intestinal lumen becomes narrower²

PATHOLOGY

Onset of the disease is usually insidious

- ❖Secondary anemia²
- Have emaciated appearance²
- Persistent diarrhea³
- Urgent bowel movements³
- ❖ Cramps³
- Rectal bleeding³
- ❖ Fever³
- ❖ Weight loss³
- ❖Fatigue³

- Sensation of incomplete evacuation³
- Loss of normal menstrual cycle³
- ❖ Stomatisis⁴
- ❖ Eye inflammation⁴
- ♦ Mouth ulcers⁴
- ♦ Skin ulcers and sores⁴
- ❖Insomnia⁶
- Depression⁶
- ❖Anxiety⁶



https://www.news-medical.net/health/History-of-Crohns-Disease.aspx

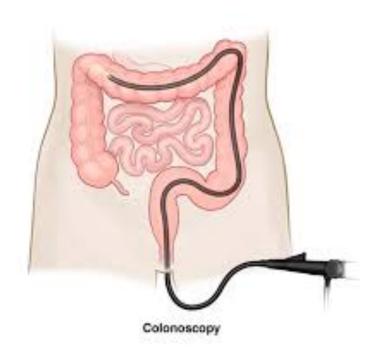
CROHN'S DISEASE AND FATIGUE: CONSTANCY AND CO-VARIATIONS OF ACTIVITY OF THE DISEASE, DEPRESSION, ANXIETY AND SUBJECTIVE QUALITY OF LIFE

- Examined quality of life from patients suffering from Crohn's disease⁷
- ♦ 29 women and 33 men⁷
- Patients had to fill out a questionnaire for fatigue, depression, disease activity, mental health, general health, anxiety, sleep disturbance, and quality of life⁷
- Performed again one year later⁷
- Patients reported symptoms being worse during flare-ups⁷
- ❖ Patients in remission, symptoms were still there but not as bad⁷

DIAGNOSIS

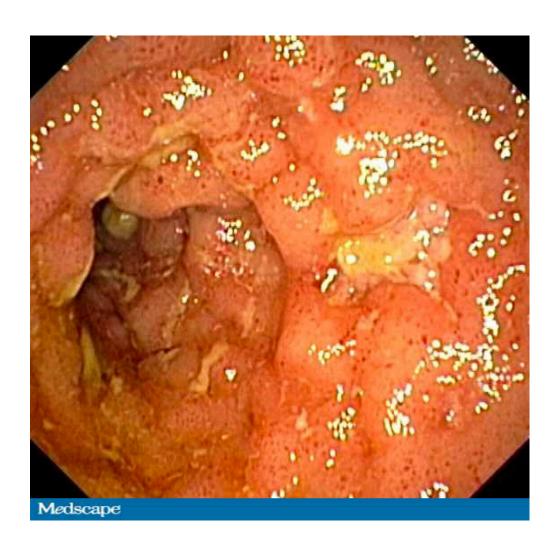
- Proctosigmoidoscopy²
- ❖Colonoscopy²
- ❖ Endoscopy²
- ❖Intestinal biopsies²
- ◆CT scan²
- ❖Barium enema²
- ❖Blood work²

COLONOSCOPY



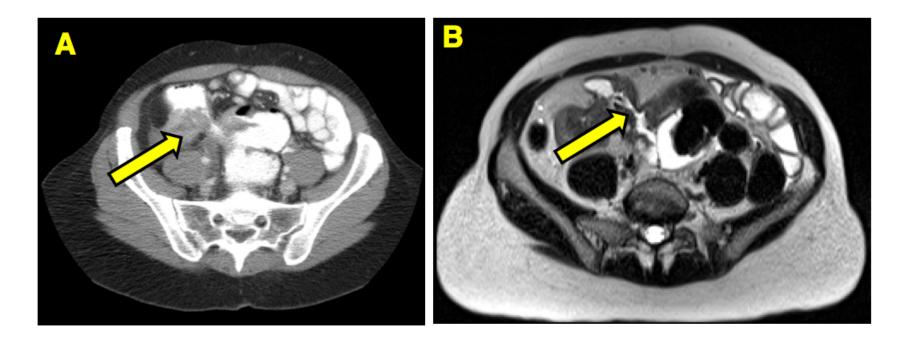
http://www.chirayunationalhospital.com/services/colonoscopy/

ENDOSCOPY



https://www.medscape.com/viewarticle/871581

CT SCAN



Imaging from a Crohn's patient who had a small bowel resection for obstruction.

(A) CT scan shows non-specific inflammation whereas (B) MRE of the same area shows a fibrostenotic stricture

 $\frac{https://www.sages.org/meetings/annual-meeting/abstracts-archive/magnetic-resonance-enterography-versus-computerized-tomography-in-patients-with-crohns-disease-undergoing-resection-does-mre-provide-the-tipping-point/$

BARIUM ENEMA



https://step1.medbullets.com/gastrointestinal/109086/crohns-disease

DIAGNOSIS

- *Back in 1990's, Crohn's was commonly mistaken for irritable bowel syndrome, depression, or mesenteric panniculitis⁶
- One patient's Crohn's was diagnosed through a blood test⁶
- ❖It found that the patient had an infection rate 7 times higher than the normal rate⁶

CROHN'S DISEASE MISTAKEN FOR LONG-STANDING IDIOPATHIC MESENTERIC PANNICULITIS

- Mesenteric panniculitis (MP) is a commonly associated sign of systemic inflammatory primary disease⁸
- Patient had 10-year history of abdominal symptoms along with flare-ups and remission⁸
- Normal lab work and upper and lower endoscopies. Only CT-scan was compatible with MP8
- Explorative laparoscopy was performed due to concern of malignancy of MP nodes growing up to 10 mm⁸
- Finally diagnosed as Crohn's disease due to histopathological bowel resection and multiple granulomas without necrosis⁸

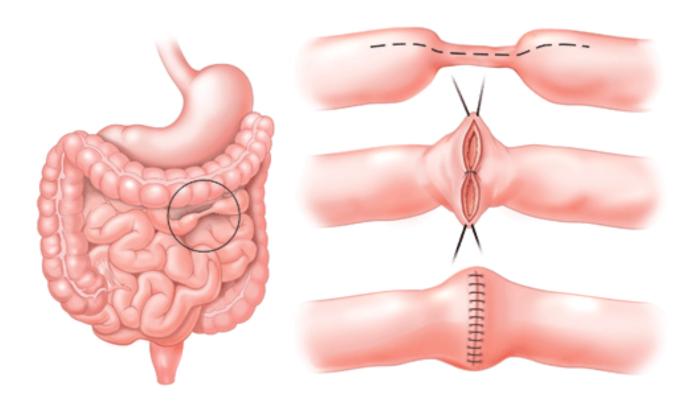
MANAGEMENT

- ❖No cure for Crohn's disease⁹
- Managing the disease depends on what part of the gastrointestinal tract is affected⁹
- Several medications are commonly used when treating Crohn's: Sulfasalazine, corticosteroid budesonide, sargramostim, lactoferrin bovine^{9,10}
- Corticosteroids have shown to induce remission in some patients^{9,10}
- ❖Proper diet⁹

MANAGEMENT

- ❖Ultimately, surgery becomes the main option for managing the disease³
- A portion of the diseased bowel will be removed³
- ❖The two ends of the healthy bowel will be joined together³

SURGERY



http://columbia surgery.org/conditions-and-treatments/crohns-disease

PROGNOSIS

- It is not a terminal disease but there is not a cure?
- It can take several years for the patient to be correctly diagnosed
- It can take months to figure out what medications and diet will work for the patient
- ❖ Patients have been able to come up with a few tricks: portable toilet in the car and timing bowel movements right after eating⁶

CONCLUSION

- Crohn's disease can be very complicated
- Etiology and pathology can be very similar to other diseases and conditions
- Diagnosing has come a long way over the past decade, but it can still take awhile to get a proper diagnosis
- It is a disease that the patient will have to live with for the rest of their lives

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