INFLAMMATORY BOWEL DISEASE (IBD)



Crohn's Disease (CD)

the GI tract ("qum to bum")

In children, CD is more common than UC. Inflammation in CD is usually inter transmural and can affect any part of is

Ulcerative Colitis (UC)

Inflammation in UC only affects the intestinal mucosa of the colon. Etiology is a combination of genes, environment, and gut microbiota dysbiosis

Diarrhea, hematochezia, abdominal pain

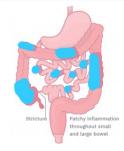
Can also have tenesmus, urgency.

May have acute weight loss

Presentation

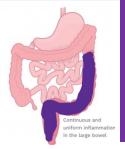
Abdominal pain, bloody diarrhea, weight loss

Can also have RLQ pain (terminal ileitis), perianal disease, growth retardation, delayed puberty, short stature, nausea or vomiting, and fatigue



Extra-intestinal manifestations

Seen in both CD and UC! Erythema nodosum (tender erythematous nodules usually on the shins), pyoderma grangrenosum (small, red nodules that erode into painful ulcerations), oral ulcers, arthralgias, arthritis. Primary sclerosing cholangitis (PSC) can happen in CD or UC, as well as autoimmune hepatitis.



UC

Lab Tests

ESR, CRP \rightarrow may be elevated

Fecal Calprotectin \rightarrow elevated

AST, ALP, GGT \rightarrow can be abnormal

Stool Cultures (to exclude infection)

 $\mathsf{CBC} \rightarrow \mathsf{anemia}$

Hypoalbuminemia

Investigations

- Both gastroscopy and colonoscopy performed (since CD can be anywhere gum to bum).
- MR enterography helps assess severity and distribution.

Differential diagnosis

- Gastroenteritis
- Malabsorption syndromes
- Celiac disease
 Irritable bowel syndrome (IBS)

MANAGEMENT

CD:

Goal is to achieve remission and promote mucosal healing.

Induction: EEN (exclusive enteral nutrition) or corticosteroids.

Acute flares: 5-Aminosalicylates and corticosteroids. Maintenance: immunosuppressive

Maintenance: immunosuppression via methotrexate, azathioprine, or biologics. Surgery is not a curative treatment modality. Maintenance: immunosuppressive (sulfasalazine, azathioprine, biologics). May be surgically resectable.

Toxic megacolon can be a complication!! Dx made with AXR/CT. Fluids, anti-inflammatories, and antibiotics for treatment. May need surgery if no improvement on meds.

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