Inflammatory Bowel Disease: What You Need to Know

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Objectives

- To learn how to distinguish Inflammatory Bowel Disease (IBD) from Irritable Bowel Syndrome (IBS)
- To become familiar with the workup of IBD
- To become familiar with the various treatments for IBD
- To become aware of the controversies surrounding IBD

Crohn's Disease may be distinguished from Ulcerative Colitis by:

- 1. Extra intestinal manifestations
- 2. Rectal bleeding
- 3. The fact that Crohn's may involve the entire GI track while Ulcerative Colitis is confined to the colon
- 4. There is always more abdominal pain with Ulcerative Colitis

The advantage of non systemic steroids (Budesonide) in Inflammatory Bowel Disease is:

- 1. They are more effective
- 2. They have fewer side effects
- 3. They are much easier to taper
- 4. They can safely be used long term

When considering the use of anti TNFs like Adalimumab or Infliximab in the treatment of Inflammatory Bowel Disease, which of the following is true?

- 1. All anti TNFs have the potential to cause infections and lymphomas
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	Ulcerative Colitis	Crohn's Disease
Area of Involvement	Rectum +/- colon	Mouth to anus
Type of lesion	Continuous	Skip
Blood in stool	Yes	Occasional
Abd Pain	Yes	Occasional
Abd mass	Rarely	Yes
Systemic Symptoms	Occasional	Frequently



Can Inflammatory Bowel Disease and Irritable Bowel Syndrome Co Exist?











Ddf

- Irritable bowel syndrome
- Ischemic bowel disease
- Ca
- NSAID use
- Celiac Disease
- Infectious colitis
- Ulcerative Colitis
- Etc



Evaluation for Crohn's

- CBC
- CRP
- Endoscopy/colonoscopy
- CT
- MRI
- Enteroscopy
- Capsule









Capsule Questions:

- What is the accuracy of a capsule study in making a Crohn's dx?
- When should we not do a capsule study?





- What does the literature say about 5 ASA use in Crohn's?
- What is the common practice?
- Does QD dosing really matter?
- What are important side effects of 5 ASAs?













- Failure to achieve mucosal healing
- The above allows for stricture formation
- High relapse after withdrawal
- Steroid use and CV complications

- Taking glucocorticoids by prescription is associated with subsequent cardiovascular disease
- Annals of Internal Medicine 2004;141; 764-70



[•] Wei, L et al













Anti TNFs: What We Know

- Indications
- Benefits
- Risks
- Lymphoma
- Non melanoma skin cancer
- Infections
- TB (let's talk about Quantiferon/CXR)
- Fungal Infections
- Hepatitis B and C

Anti TNF Limitations in Crohn's

- With current anti TNF medications: 70% respond 30% do not respond
- 50% of patients lose response in 1 year

Gisbert J and Panes J Loss of response and requirement of infliximab dose intensification in Crohn's Disease: a review Am J Gastroenterol 2009:104;760

Siegel CA What options do we have for the induction therapy for Crohn's Disease? Dig Dis 2010:28;543

Anti TNF questions

- Would you recommend an anti TNF to a tb pt treated for a month?
- Would you use an anti TNF in a patient with a remote hx of breast Ca?
- Your elderly pt on an anti TNF is bringing in their grandchild for an MMR. Is there any concern?
- Is there a benefit to using a combination of antimetabolites and anti TNFs?*

*Columbel JF et al Infliximab, Azathioprine or combination therapy for Crohn's Disease NEJM 2010:362;1383

More anti TNF Questions

- Why do anti TNFs lose effectiveness?
- How do we prevent this?
- What is Hepato Splenic T cell lymphoma?
- Can/should we ever stop anti TNFs?*

*Torres J et al

Systematic review of effects of withdrawal of immunomodulators or biological agents from patients with Inflammatory Bowel Disease Gastroenterology 2015:149;1716

Even More Questions

- Are there peri operative risks in using anti TNFs?
- Should we use anti TNFs in the post op Crohn's pt?*

*Yamamoto T et al

Impact of infliximab therapy after early endoscopic recurrence following ileo colonic resection of Crohn's Disease: a prospective study Inflamm Bowel Dis 2009:15;1460






Case 1

- John R is a 56 year old lawyer with a 40 year hx of Crohn's disease. 10 years ago he had an ileo rt colectomy. Despite recent therapy, he has recently had an additional segment of ileum removed and now feels well. Pathology shows a clean margin
- What should we do?
- 1. Wait and see
- 2. Colonoscopy
- 3. Meds
- 4. Send him far away









Ulcerative Colitis Therapies

- 5 ASA
- Mesalamine suppositories
- Steroid enemas
- Budesonide MMX
- Oral steroids
- Antimetabolites
- Anti TNFs
- Vedolizumab (Entyvio)
- Tofacitinib (Xeljanz)





Extra Intestinal Manifestations May Precede Intestinal Disease in Inflammatory Bowel Disease

- Arthritis
- Hypercoagulable state
- Osteoporosis
- Anxiety/depression
- Gallstones (in Crohn's)
- Kidney stones



Extra intestinal manifestations



Extra intestinal manifestations













Why might Jeff still be ill?

- 1. Use of NSAID meds
- 2. Poor compliance
- 3. Cl difficile infection
- 4. All the above









Vedolizumab limitations in Crohn's

- Previous anti TNF exposure
- Smoking
- Perineal disease
- Severe disease

• All predictors of poor response

Dulai PS et al

The real world effectiveness and safety of vedolizumab for moderate-severe Crohn's Disease: results from the US Victory Consortium Am j Gastroenterol 2016:111;1147

Ustekinumab (Stelara)

- Indicated for Crohn's and U.C.
- NO LYMPHOMAS reported to date
- Fewer infections than anti TNFs

Feagan B et al Ustekinumab as induction and maintenance therapy for Crohn's disease NEJM 2016:375;1946

Ustekinumab

2/3 of Crohn's Disease patients refractory to at least one anti TNF responded to Ustekinumab

Khorrami S et al Ustekinumab for the treatment of refractory Crohn's Disease; the Spanish experience in a large multicenter open-label cohort Inflamm Bowel dis 2016:22;1662





Tofacitinib Warning

- Black box warning
- 10mg bid dose
- Increased risk of pulmonary emboli and death





Tectonic Changes With Biosimilars

- Costs of biologics have been burdensome
- Will there be more immunogenicity when switching from the reference biologic to a biosimilar?

Cohen HP et al Switching reference medicines to biosimilars: a systematic literature review of clinical outcomes Drugs 2018:78;463



Surgery Questions

- If a patient has severe ulcerative colitis of the L colon, can that area be removed and a transverse colon-rectal anastomosis be created?
- In Ulcerative Colitis, when is it time to give up on meds and do a colectomy?

Our Future

PERSONALIZED MEDICINE

To choose the

correct drug

correct dose

correct patient

correct route

correct time

In order to optimize efficacy and minimize side effects in a cost effective manner

References

Ko CW et al

AGA clinical practice guidelines on the management of mild-to-moderate ulcerative colitis Gastroenterology 2019:156;748

Rubin DT et al ACG clinical guideline: Ulcerative Colitis in adults Am J Gastroenterol 2019:114;384

Lichtenstein GR et al ACG clinical guideline: management of Crohn's Disease in adults Am J Gastroenterol 2018:113;481



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