



Approach to the Newfound Wealth of Medications for IBD

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Disclosures

- Consultant:
 - Janssen, Abbvie, Pfizer, Bristol Meyers Squibb, Eli
 Lilly
- Speaker:
 - Abbvie, Eli Lilly, Nestle/Aimmune

Objectives

Upon completion of this presentation, participants should be able to:

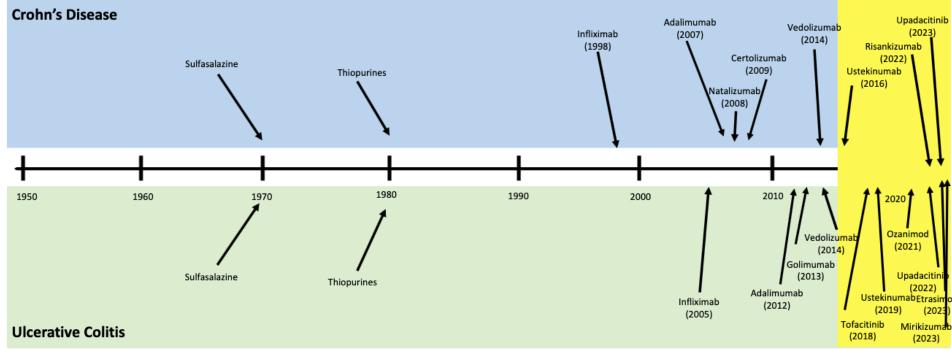
- Understand the data behind the new medications available for the treatment of IBD
- Conceptualize a framework for choosing the right medication for the right patient

FDA-Approved Targeted Therapies for IBD

Class	CD		UC	
TNF inhibitor	Adalimumab ¹ Certolizumab ² Infliximab ³		Adalimumab ¹ Golimumab ⁸ Infliximab ³	
IL-12/IL-23 inhibitor	Ustekinumab ⁴ Risankizumab ⁵		Ustekinumab ⁴ Mirikizumab	
Integrin inhibitors	Natalizumah ⁶ Vedolizumab ⁷		Vedolizumab ⁷	
JAK inhibitors	Upadicitinib		Tofacitinib ⁹ Upadicitinib ¹⁰	
S1P receptor modulators Humira (adalimumab) Prescribing Information. https://www.rxabbvie.com/pdf/humira.pdf. 2	— . Cimzia (certolizumab pegol) Prescribing Informati	on.	Ozanimod ¹¹ Etrasimod	

https://www.cimzia._/themes/custom/cimzia/docs/CIMZIA_full_prescribing_information.pdf. 3. Remicade (infliximab) Prescribing Information. http://www.janssenlabels.com/package-insert/product-monograph/prescribing-information/REMICADE-pi.pdf. 4. Stelara (ustekinumab) Prescribing Information. http://www.janssenlabels.com/package-insert/product-monograph/prescribing-information/STELARA-pi.pdf. 5. Skyrizi (risakizumab-rzaa) Prescribing Information. https://www.rxabbvie.com/pdf/skyrizi_pi.pdf. 6. Tysabri (natalizumab) Prescribing Information. https://www.rxabbrincp.com/content/dam/commercial/tysabri/prescribing_information.pdf. 7. Entyvio (vedolizumab) Prescribing Information. https://www.janssenlabels.com/package-insert/product-monograph/prescribing-information/SIMPONI-pi.pdf. 9. Xeljanz (tofacitinib) Prescribing Information. http://labeling.pfizer.com/ShowLabeling.aspx?id=959. 10.Rinvoq (upadacitinib) Prescribing Information. https://www.rxabbvie.com/pdf/rinvoq_pi.pdf. 11. Zeposia (ozanimod) Prescribing Information. https://packageinserts.bms.com/pi/pi_zeposia.pdf.

Timeline of IBD Therapies

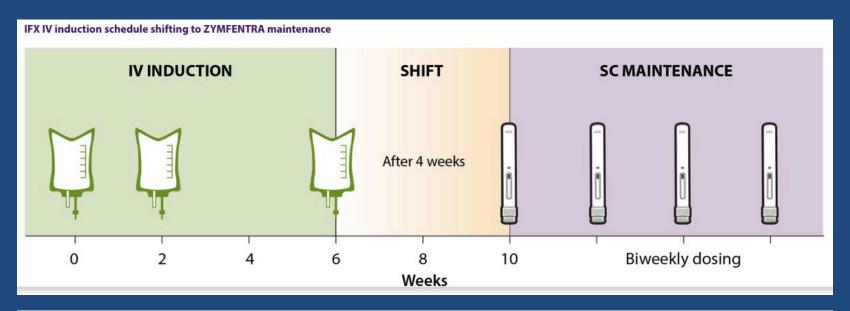


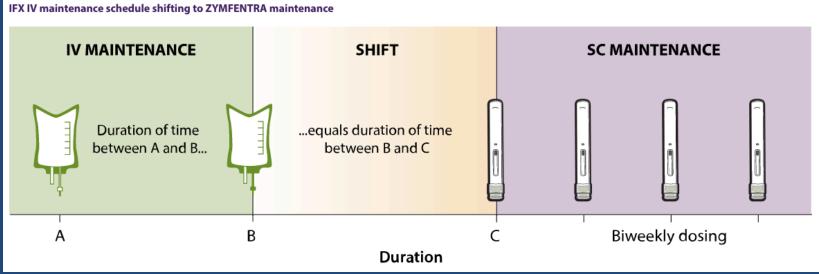
New Therapies in last year

- Infliximab subq (Zymfentra) (CD/UC) (Oct 2023)
- Mirikizumab (UC) (Oct 2023)
- Vedolizumab subq (UC only) (Sept 2023)
- Upadacitinib (Crohn's) (May 2023)
- Etrasimod (UC) (Oct 2023)

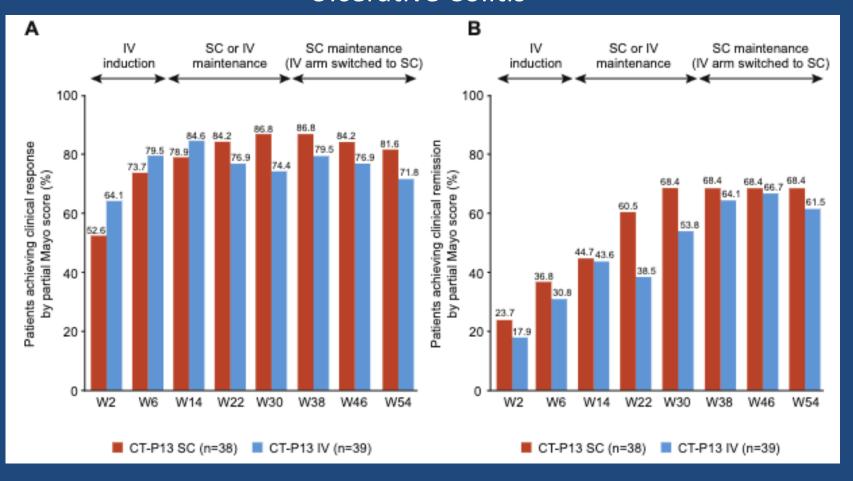


120 mg pen or syringe

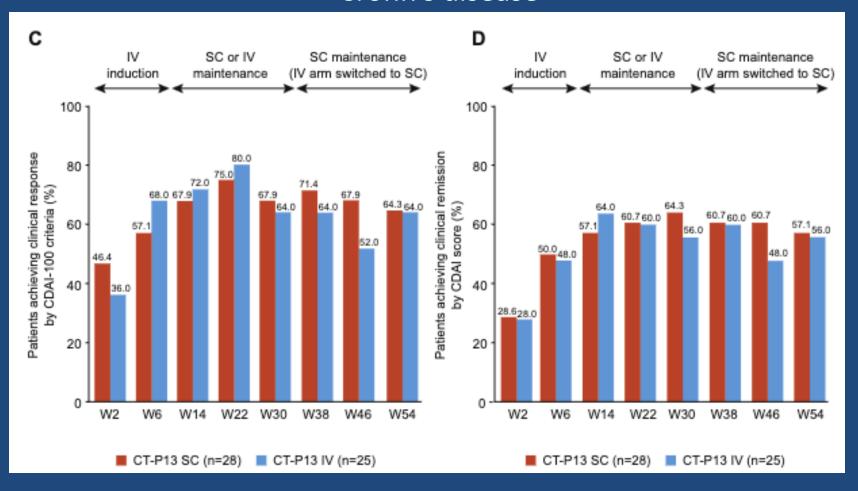


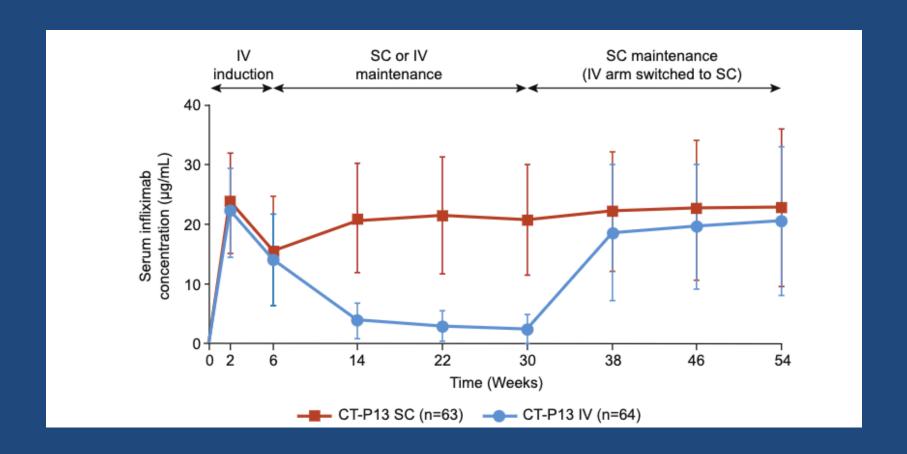


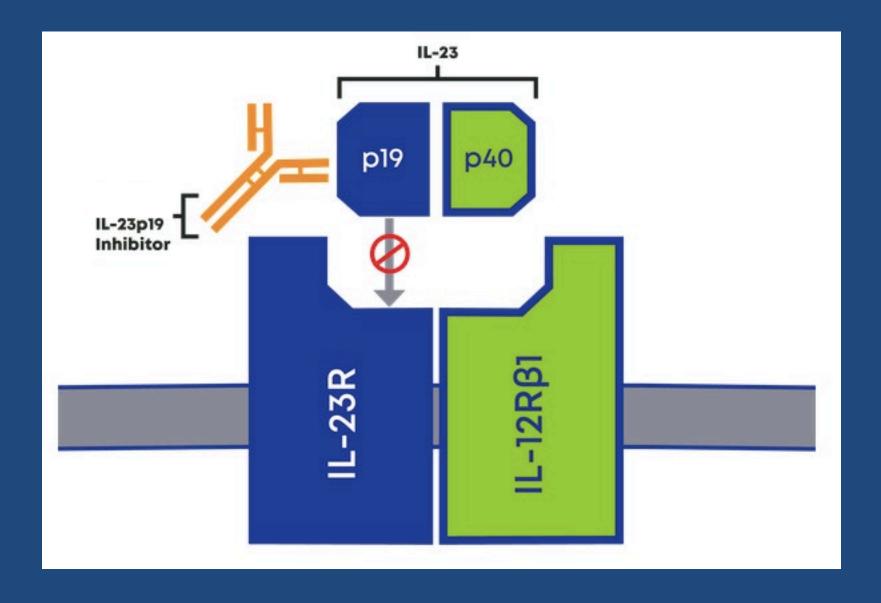
Ulcerative Colitis



Crohn's disease







INDUCTION DOSING: 12 WEEKS¹

IV infusions of 300 mg° at Weeks 0, 4, and 8



^aOver at least 30 minutes.¹
Omvoh is intended for use under the guidance and supervision of a healthcare professional. Patients may self-inject after training in proper technique.¹

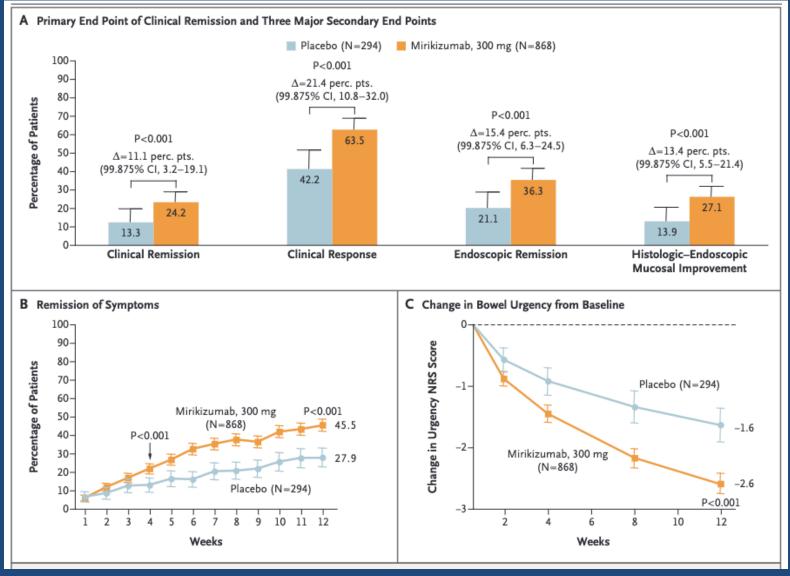


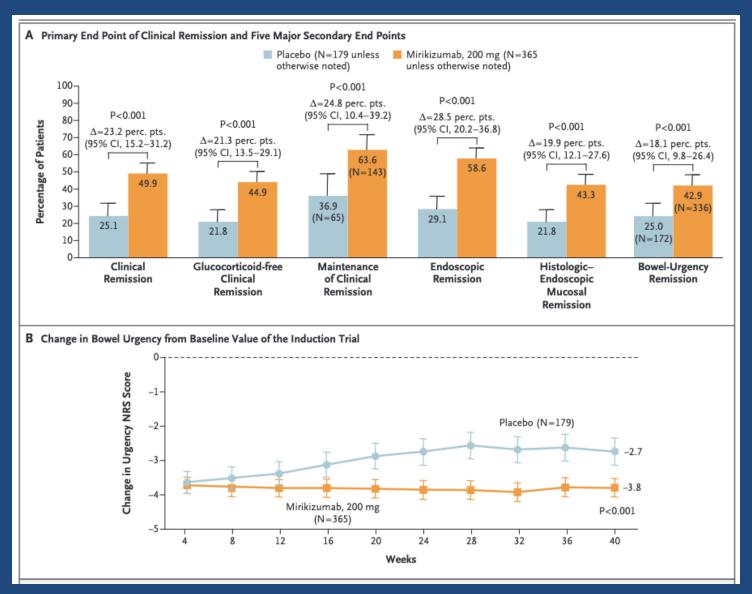
MAINTENANCE DOSING¹

Two consecutive 100 mg subcutaneous (SC) injections (200 mg total) every 4 weeks starting at Week 12



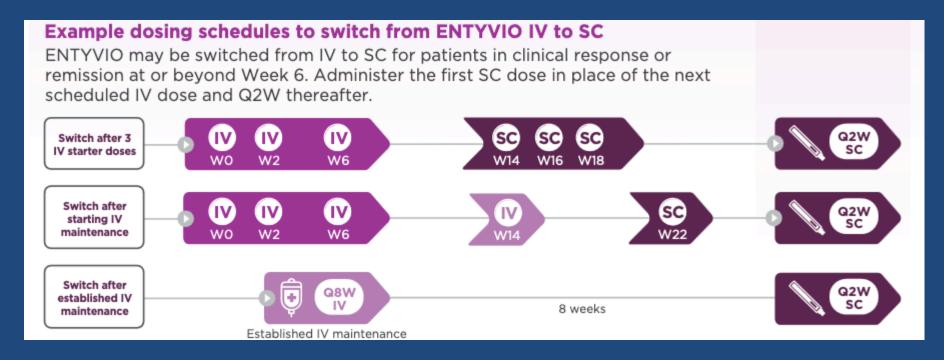
SC injections for maintenance are available in a prefilled pen





Vedolizumab SubQ

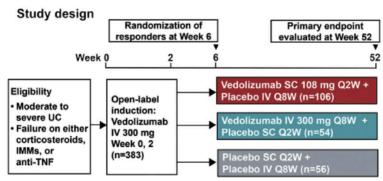
Vedolizumab SC 108mg pen for UC only





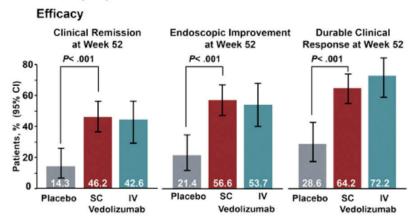
Vedolizumab SubQ

VISIBLE 1 Trial of Vedolizumab Subcutaneous (SC) in Ulcerative Colitis



Safety / tolerability

n (%)	Placebo (N=56)	Vedolizumab SC (N=106)	Vedolizumab IV (N=54)
Adverse events	43 (76.8)	69 (65.1)	41 (75.9)
Serious adverse events	3 (5.4)	6 (5.7)	1 (1.9)
Abdominal and GI infections	5 (4.7)	2 (3.7)	1 (1.8)
Injection site adverse events	0	11 (10.4)	1 (1.9)



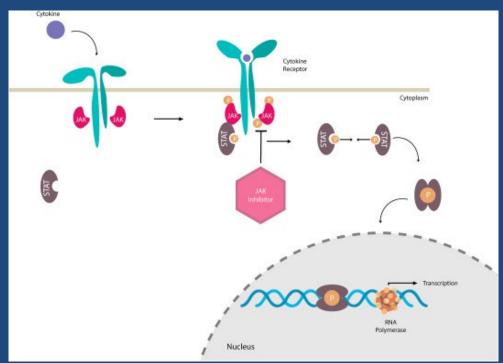
Vedolizumab SC effective as maintenance therapy in patients with moderate to severe UC after clinical response to IV induction

Vedolizumab SC safety / tolerability profile consistent with the well-established profile of vedolizumab IV

Gastroenterology

Upadacitinib

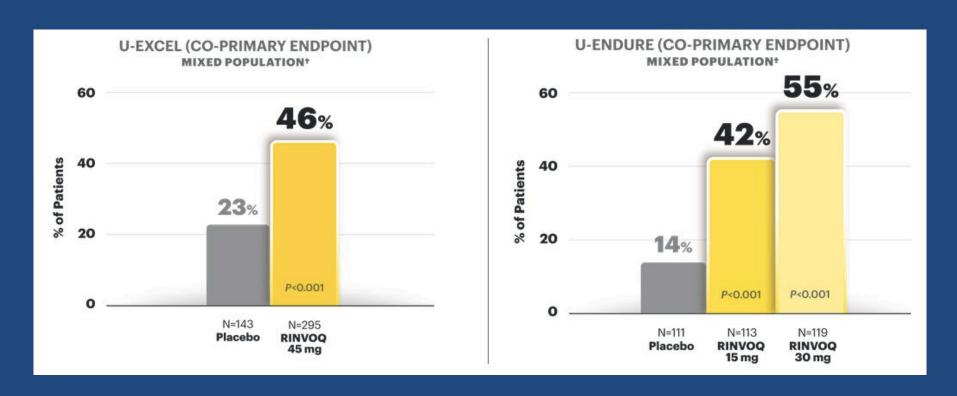
- Oral, JAK inhibitor
- Already approved for UC
- Crohn's dosing: 45mg dose x 12 weeks then 30mg or 15mg daily



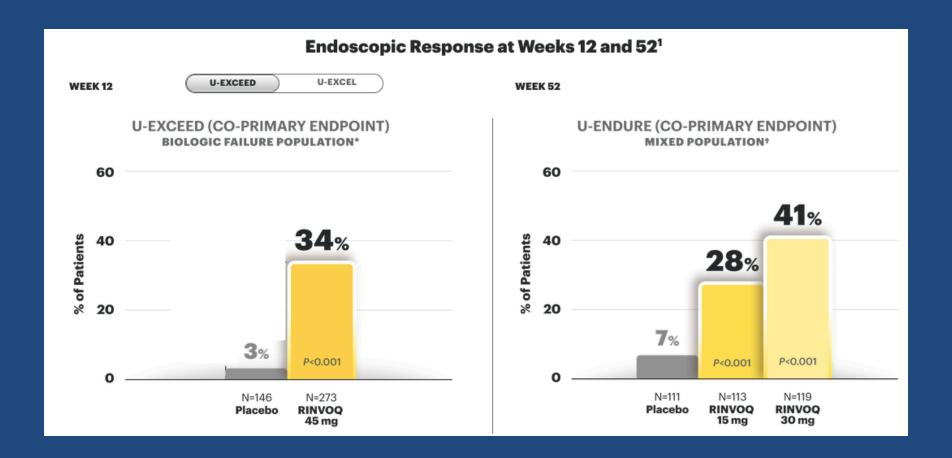


Spiewak, et al. Curr Res Pharm. 2022.

Upadacitinib

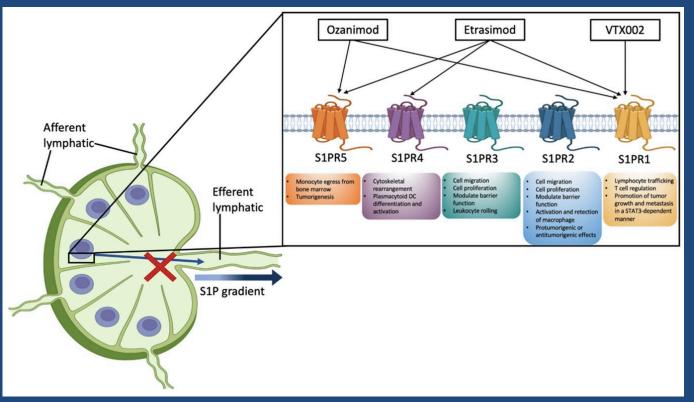


Upadacitinib



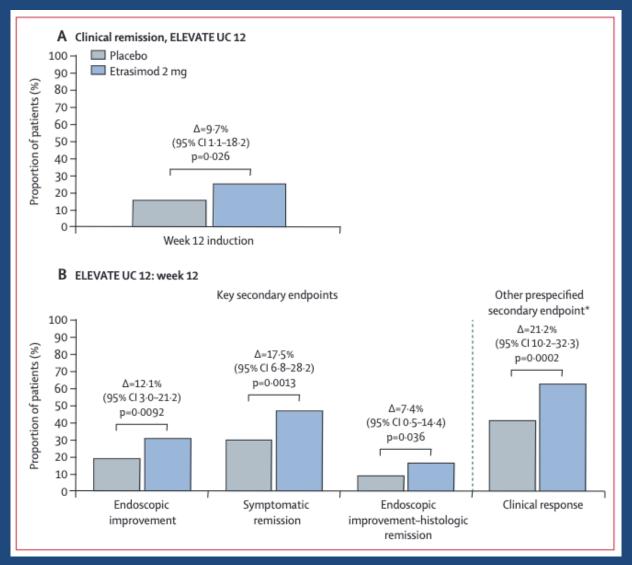
Etrasimod

- Oral, S1P modulator
- UC dosing: 2mg daily





Etrasimod



Etrasimod

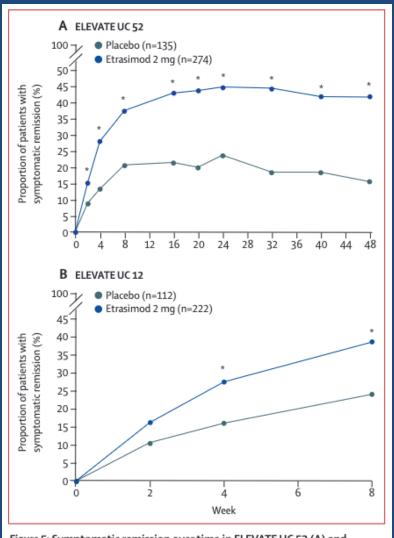


Figure 5: Symptomatic remission over time in ELEVATE UC 52 (A) and ELEVATE UC 12 (B) (non-responder imputation)

So how do we pick?



What do we KNOW about efficacy?

- All approved medications are better than placebo
- One drug sponsored head-to-head trial in ulcerative colitis (VARSITY)
 - Standard dose adalimumab vs standard dose vedolizumab in bio-naïve patients
 - Vedolizumab was better
- One drug sponsored head-to-head trial in Crohn's disease (SEAVUE)
 - Standard dose adalimumab vs standard dose ustekinumab in bio-naïve patients
 - No difference in efficacy
- One drug sponsored head-to-head trial in Crohn's disease (SEQUENCE)
 - Standard dose risankizumab vs standard dose ustekinumab (open label)
 - Risankizumab non-inferior in clinical endpoint and superior in endoscopic endpoints
- Other observational data, network meta-analyses
- No direct comparisons of other drugs

Some factors used in making a decision

- Prior IBD history
- Assessment of IBD severity
- Efficacy
- Safety
- Mode of administration
- Concomitant medical problems
- Extraintestinal manifestations
- Insurance access



Efficacy

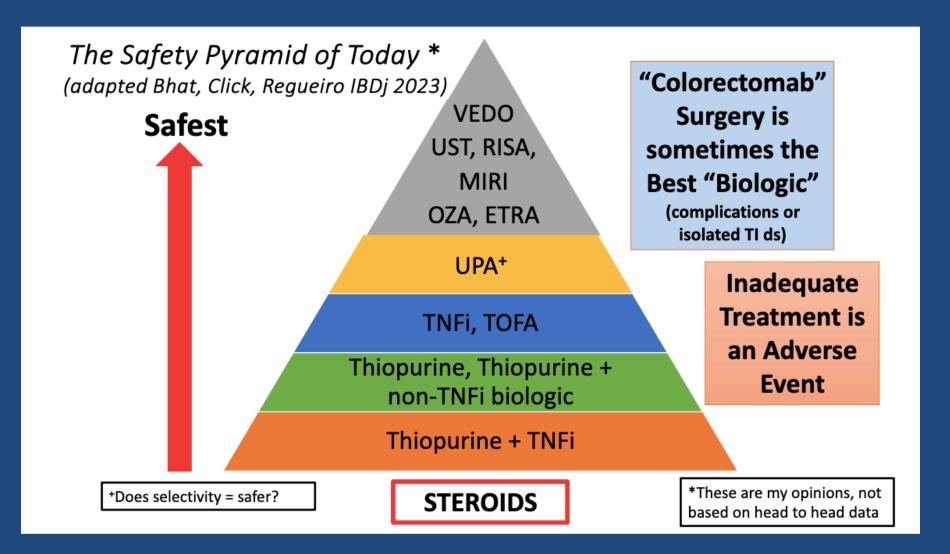
- Limited direct head to head data
- Increasing observational data that may or may not apply to your personal situation
- Some general guidance
 - No medication works for everyone
 - No medication works immediately (though some work faster than others)
 - First biologic/advanced therapy may be most effective
 - In the real world, many patients do not fit into the strict criteria of a clinical trial

Safety

- In general, we think the benefits of these medications outweigh the risks
- Infusion reactions, injection site reactions
- Allergic reactions
- Most advanced therapies work by suppressing the body's natural immune response
 - Increased risks of infection
 - Increased risks of cancer
- Cardiac risks
- Risks of medications need to be balanced with risks of not being on medication
- Special populations to be considered
 - Pregnancy/lactation
 - Elderly
 - Immunocompromised



Safety



Mode of administration

- Patients have different opinions which works best for them
- Intravenous
 - Every 8 weeks
 - Loading doses
 - Hospital infusion center, outpatient infusion center, home infusion
- Self injection
 - Every 2 weeks
 - Every 4 weeks
 - Every 8 weeks
 - Loading doses
- Oral
 - Daily or multiple times per day





Concomitant medical problems

- Medical conditions that exclude certain medications
 - Examples: heart failure, blood clots, (pregnancy)
- Medical conditions that may favor a certain medication
 - Examples: rheumatoid arthritis, psoriasis
- Immunosuppressed state
- Medical conditions that limit mode of administration
 - Examples: needle phobia, IV drug use, vision loss

Extraintestinal manifestations

- Perianal Crohn's disease
- Ankylosing spondylitis (and other rheumatologic problems)
- Pyoderma gangrenosum
- Uveitis

Insurance access

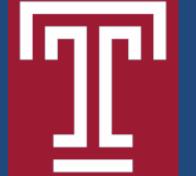
- An unfortunate reality of our healthcare system
- Often is the largest reason for choosing a medication
- Most insurers have preferred medications and formulary medications
- Often a need for appeals and extra reviews (also for off-label dosing)
- Creates additional hassles, paperwork, treatment delays
- Even with "approval", there may be significant costs.
- Pharma companies often have patient assistance programs (particularly for new therapies) but are limited to commercial insurance

Summary

- Multiple new therapies in just last year
 - Some modifications to old therapies
 - Some new mechanisms
- There is no "one size fits all" strategy for IBD medications
- Many factors to consider besides just efficacy
- Shared decision making will result in better buy-in from patients
- Caution about always prescribing the "easy" drug

Thank you!

Questions?



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