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# Medical Management of IBD So Many Choices

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### Disclosures

• Consultant: Abbvie, Pfizer, Takeda, Johnson&Johnson



## Surgery Rates Have Improved Over Time But Are Still High

Risk Associated With Surgery For Ulcerative Colitis Before And After 2000

	Before	e 2000	
	1-y risk of surgery	5-y risk of surgery	10-y risk of surgery
Ulcerative colitis	4.8% (3.7-6.1)	9.5% (7.8-11.4)	15.2% (12.6-18.2)
Crohn's disease	23.6% (18.3-29.9)	35.7% (29.2-42.9)	46.5% (36.7-56.6)



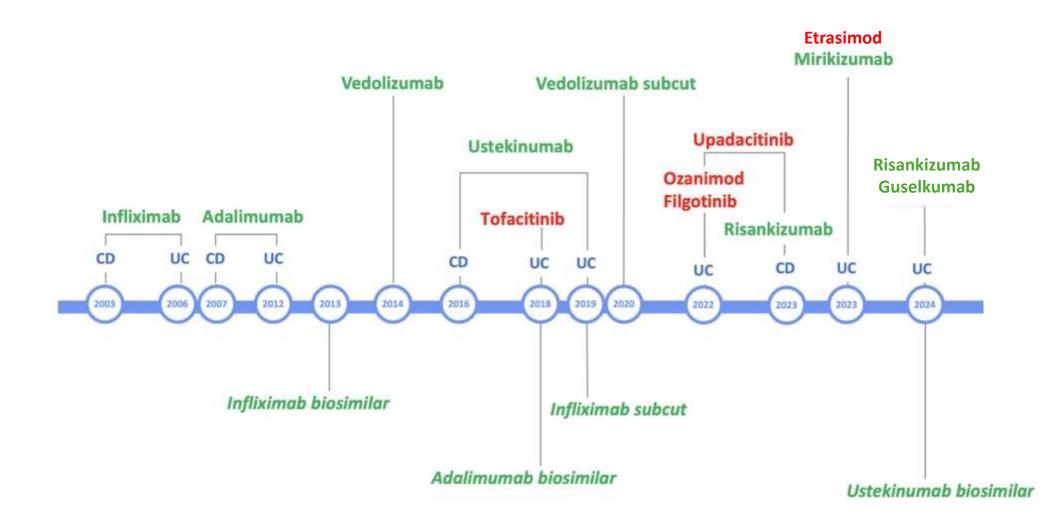




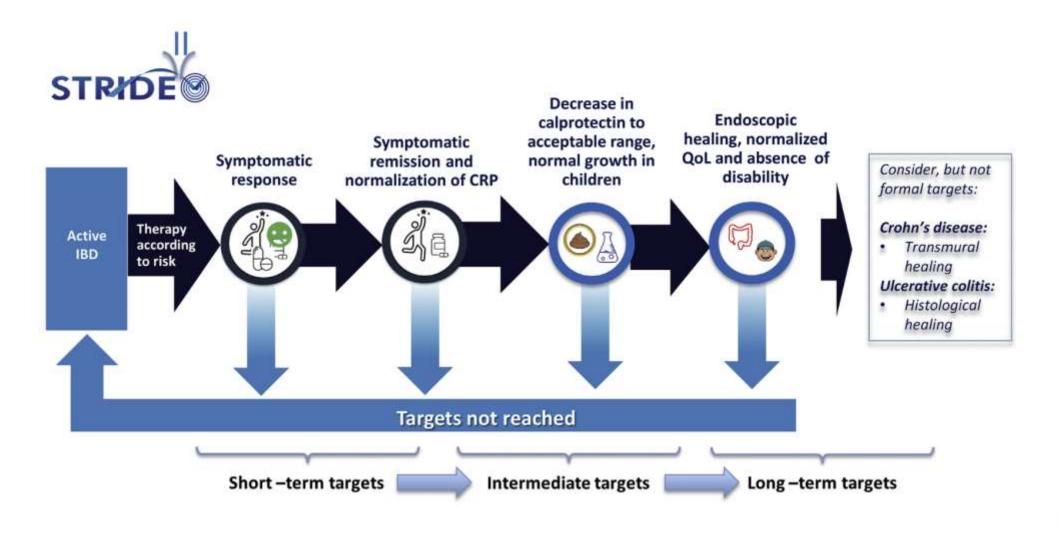
	After	2000	
	1-y risk of surgery	5-y risk of surgery	10-y risk of surgery
Ulcerative colitis	2.8% (2.0-3.9)	7.0% (5.7-8.6)	9.6% (6.3-14.2)
Crohn's disease	12.3% (10.8-14.0)	18.0% (15.4-21.0)	26.2% (23.4-29.4)



## Medical Treatment Options for IBD



## Treat to Target Algorithm in IBD





#### 5 Factors of Treatment Choice for Patients with IBD

Patient Factors

- Phenotype
- Comorbidities
  - EIMS
  - Pregnancy

2

#### **Efficacy**

- Available evidence
- Clinical trial vs. real-world
- -Differences in biologic exposed

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#### **Safety**

- Severity of disease!
  - Drug-related AEs
- Disease-related AEs

#### **Convenience**

- Mode of delivery
- Frequency of dose

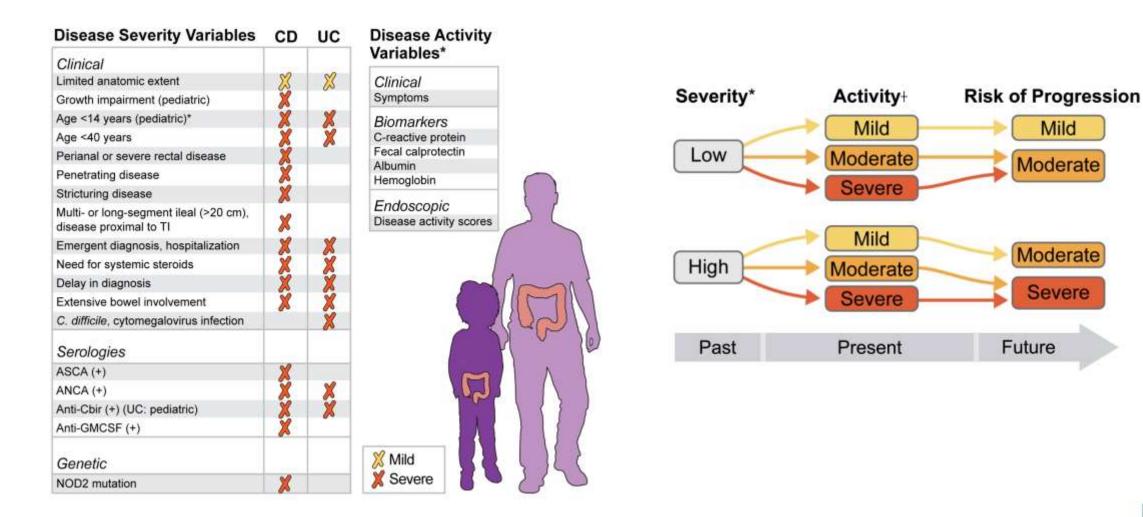
Access

- Insurance coverage
- Cost and time to patient

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## Disease Severity and Activity Inform Risk Assessment





Mild

Moderate

Moderate

Severe

## Right Drug, Right Patient

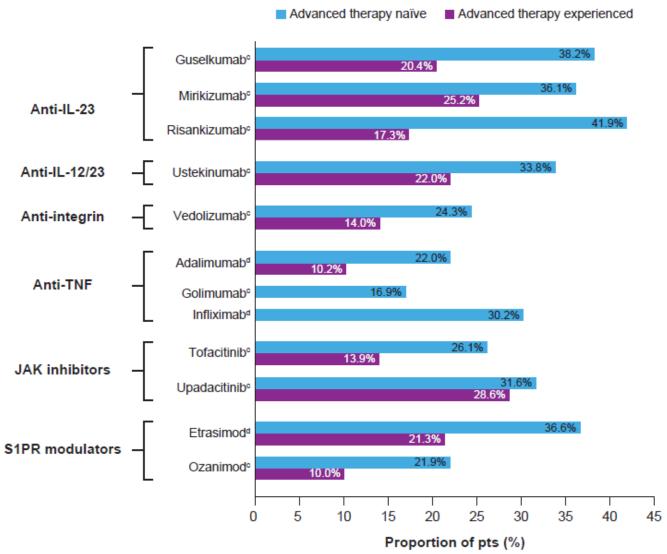
#### **Therapies to Reach For**

Concomitant Immune Conditio	ns/Extraintestinal Manifestations
Plaque Psoriasis	Anti-TNF IL-12/23, IL-23
Psoriatic Arthritis	Anti-TNF IL-12/23, IL-23 Jak
Rheumatoid Arthritis	Anti-TNF Jak
Spondyloarthritis	Anti-TNF Jak
Multiple Sclerosis	Ozanimod
Uveitis	Anti-TNF

#### **Therapies to Avoid**

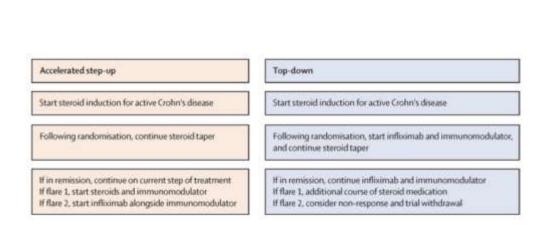
iderations
S1P
S1P
Anti-TNF
Anti-TNF
CurQD
S1P
Jak

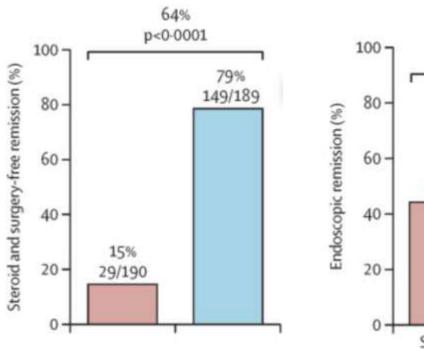
## Right Drug, Right Time

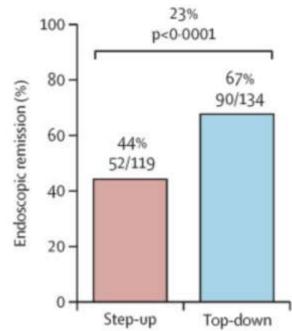




## PROFILE Step-up Therapy vs Top-down Therapy in CD





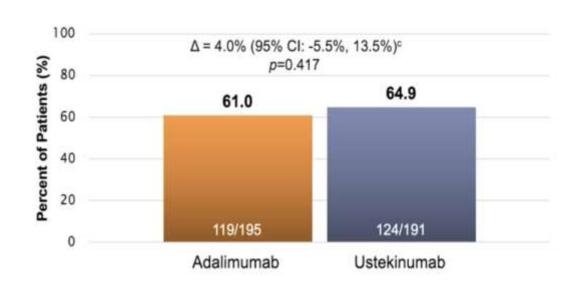


Top-down treatment with combination infliximab and immunomodulator is superior to step-up therapy

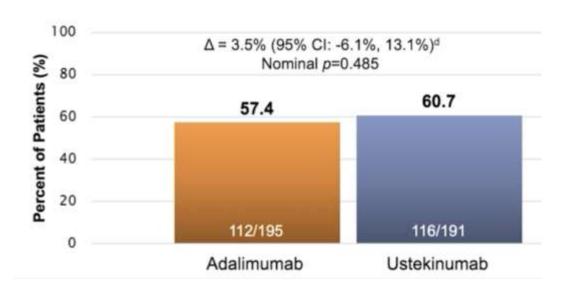


## SEAVUE Adalimumab vs Ustekinumab in CD

#### Clinical remission



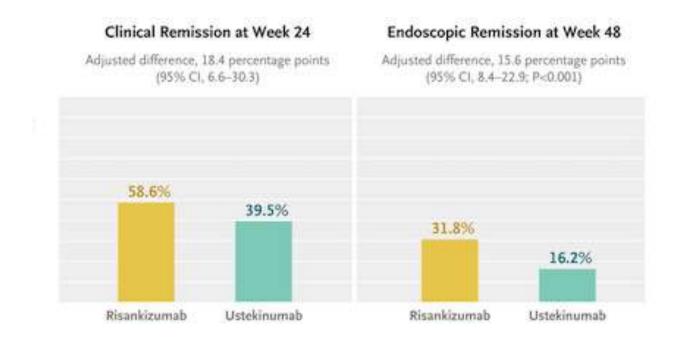
#### **Corticosteroid free clinical remission**



No difference between ustekinumab and adalimumab in moderate-severe CD



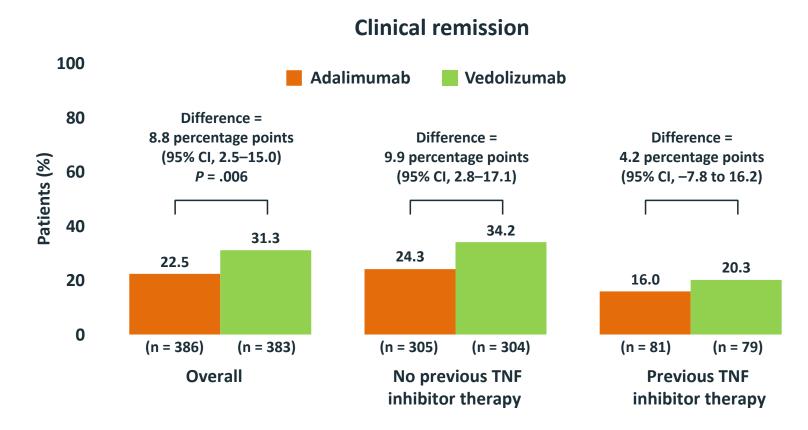
## SEQUENCE Risankizumab vs Ustekinumab As Second Line in CD



Risankizumab was noninferior to ustekinumab for clinical remission and superior for endoscopic remission



## VARSITY Adalimumab vs Vedolizumab in UC



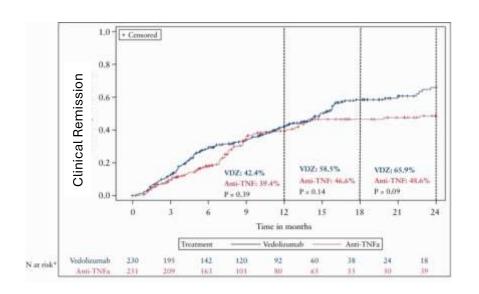
Vedolizumab is superior to adalimumab in moderate-severe UC

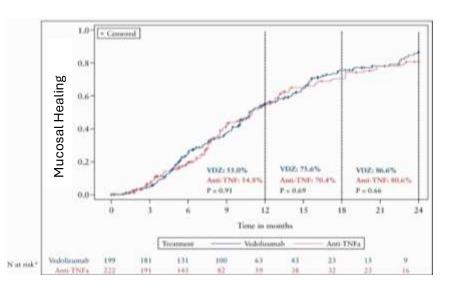


### **EVOLVE**

## Vedolizumab is Equivalent to Infliximab in UC

- EVOLVE: multicenter retrospective study comparing anti-TNF as 1<sup>st</sup> or 2<sup>nd</sup> line after vedolizumab, N=604 biologic naïve patients with UC
- Vedolizumab and anti-TNFa treatments were equally effective at controlling disease symptoms as first line therapies, but vedolizumab has a more favorable safety profile







## Risankizumab and Guselkumab Rank High in Achieving Clinical and Endoscopic Remission in UC

36 studies Included, with 14,270 patients with UC



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Upadacitinib was superior to most biologics in inducing and maintaining endoscopic improvement and remission.



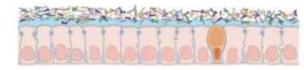


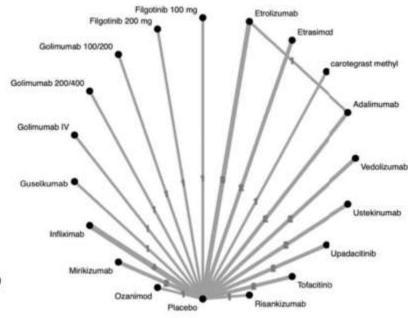
Upadacitinib was superior to most biologics and small molecules drugs in inducing and maintaining clinical remission.

Novel biologics such as risankizumab and guselkumab also ranked high in achieving clinical remission.



Risankizumab ranked highest in the induction of histological remission, whereas upadacitinib was superior in maintenance of histological remission.

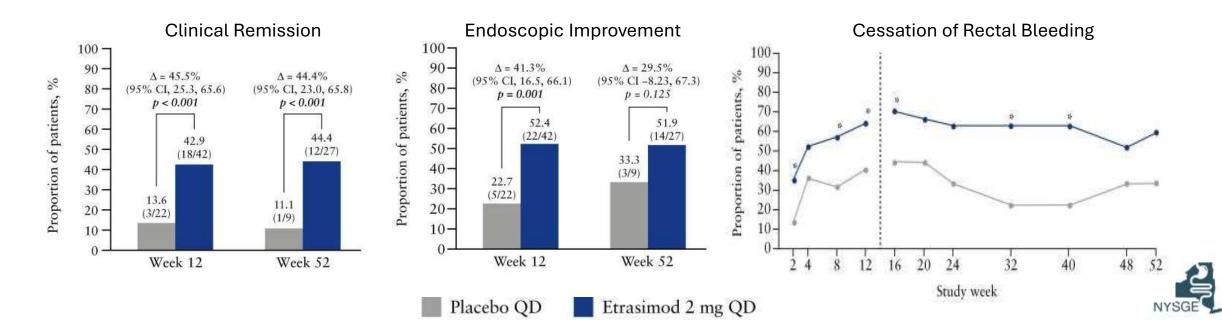




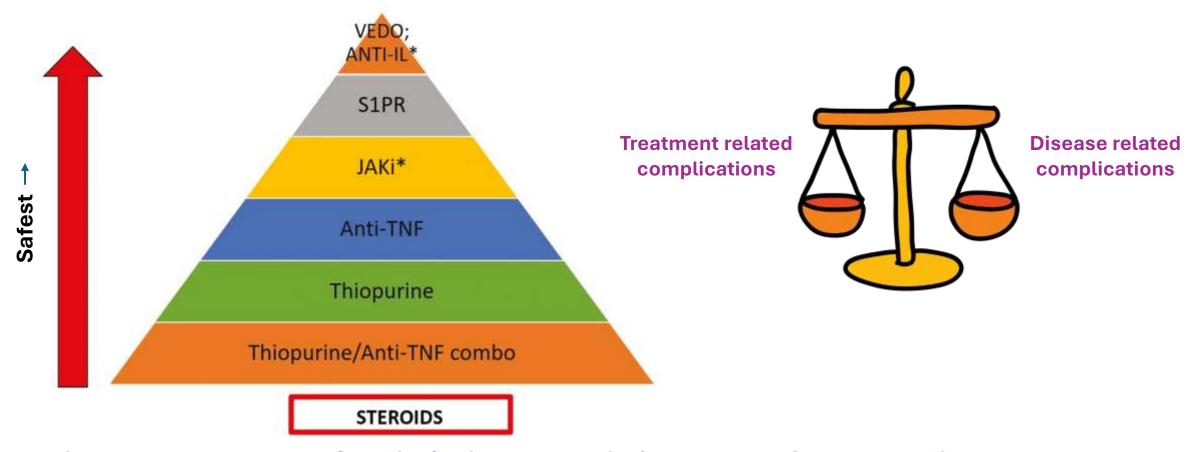


### Etrasimod Is Effective in Isolated Proctitis

- Post-hoc analyses of week 12 and 52 ELEVATE data of patients with isolated proctitis defined as <10cm of active rectal involvement</li>
- Significant improvements in clinical remission rates at weeks 12 and 52, endoscopic improvement at week 12, cessation of rectal bleeding at week 2



## Safety of Medical Therapies for IBD



Inadequate treatment of Crohn's disease and ulcerative colitis is an adverse event

## Therapeutic Options and Route of Administration

Biologic Agents		Route of Admin	CD	UC
TNF inhibitors	Adalimumab	SC	✓	✓
	Certolizumab	SC	<b>√</b>	
	Golimumab	SC		1
	Infliximab	IV, IV to SC	<b>√</b>	✓
Integrin inhibitors	Natalizumab	IV.	✓	
	Vedolizumab	IV, IV to SC	✓	1
IL-12/23 inhibitor	Ustekinumab	IV to SC	✓	1
IL-23 inhibitors	Risankizumab	IV to SC	<b>√</b>	✓
	Mirikizumab	IV to SC		1
	Guselkumab	IV to SC		✓
Small Molecule Agents				
S1P modulators	Ozanimod	PO		1
	Etrasimod	PO		✓
JAK inhibitors	Tofacitinib	PO		1
	Upadacitinib	PO	<b>√</b>	✓

## Considerations for Positioning Therapies

#### **Ulcerative Colitis**

- Therapy Naive:
  - Infliximab
  - Vedolizumab
  - Ozanimod
  - Etrasimod
  - Risankizumab
  - Guselkumab
- Therapy Exposed:
  - Tofacitinib
  - Upadacitinib
  - Ustekinumab

#### **Crohn's Disease**

- Therapy Naive:
  - Infliximab
  - Vedolizumab
  - Ustekinumab
  - Risankizumab
- Therapy Exposed:
  - Upadacitinib
  - Risankizumab

#### **Special Considerations:**

- Acute severe UC: Infliximab or upadacitinib/tofacitinib
- CD with multiple segments involved +/- fistula: Infliximab + IMM
- Pregnancy: Any monoclonal antibody



### Conclusions

- Choice of therapy should be based on:
  - Disease activity and severity with a balance of efficacy and safety
  - Concomitant immune conditions and extraintestinal manifestations
- Comparative effectiveness data suggests:
  - Vedolizumab > adalimumab in UC
  - Adalimumab = Ustekinumab in CD
  - Risankizumab > Ustekinumab as second line in CD
- Employ treat to target strategies to achieve objective endpoints for control

