What's IL-23 Got to Do With It? Targeted Therapies in the Management of IBD

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LEARNING OBJECTIVE

Assess the role of pro-inflammatory cytokines in driving inflammation in the pathogenesis of IBD

LEARNING OBJECTIVE

Classify the role of the IL-23/Th17 inflammatory axis in IBD pathogenesis

LEARNING OBJECTIVE

Evaluate the clinical implications of anti–IL-23 agents used in the treatment of IBD to bind to CD64 receptors on IL-23–producing cells

Audience Response - Icebreaker

What is the most difficult aspect of patient care for IBD? (pick your top 3)

- A. Knowledge of drugs
- B. Prior authorizations
- C. Drug positioning
- D. Loss of response
- E. Lack of time with patients
- F. Staffing challenges



What is the most difficult aspect of caring for patients with IBD?

Faculty Discussion of ARS



Section

Marla Dubinsky, MD

Defining Goals for Treatment



FC = fecal calprotectin.

^aTransmural healing may be the ultimate therapeutic goal in CD; ^bHistologic healing may be the ultimate therapeutic goal in UC. Le Berre C, et al. *Gastroenterology*. 2022;162(5):1424-1438.



Evolution of IBD Treatment Landscape



CD = Crohn's disease; IBD = inflammatory bowel disease; IL = interleukin; JAK = Janus kinase; TNF = tumor necrosis factor; UC = ulcerative colitis. Modified from Pouillon L, et al. *Nat Rev Gastroenterol Hepatol.* 2021;18(2):143.



Advanced Treatment (AT) Uptake Is Low Within the First Few Years of IBD Diagnosis



Siegel CA, et al. Crohns Colitis 360. 2024;6(3).

Patients with UC Are Treated with 5+ Rounds of Conventional Therapy Before They Receive an Advanced Therapy



The Profile Study: Step-Up Therapy Put to Bed Once and for All



Steroid taper

Trial visit	Accelerated step-up	Top-down
Week -2 (screening)	Start steroid induction for active CD	Start steroid induction for active CD
Week 0 (randomization)	Following randomization, continue steroid taper	Following randomization, start infliximab and immunomodulator and continue steroid taper
Week 4, 16, 32, 48 (after randomization)	Remission - continue on current step of treatment Flare 1 - start steroids and immunomodulator Flare 2 - start infliximab alongside immunomodulator	Remission - continue infliximab and immunomodulator Flare 1 - additional course of steroid medication Flare 2 - consider non-response and trial withdrawal

Early Effective Advanced Therapy (Not Biomarker Risk) Predicts CD Outcomes



Median of 12 [IQR 0-191] days from time of diagnosis to enrollment and start GCC (-2 weeks to randomized) Median of 15 [IQR 13-20] days from time of randomization and 1st dose of infliximab Cytokine Connections in Immune-Mediated Inflammatory Diseases









Schett G, et al. N Engl J Med, 2021;385(7):628-639.

IL-23 Drives Development of Inflammatory Pathogenic Th17 Cells



 $\label{eq:APC} \mbox{ = antigen-presenting cell; GM-CSF = granulocyte-macrophage colony-stimulating factor; IFN = interferon; RORyt = retinoic acid receptor-related orphan receptor yt; TGF = transforming growth factor.$

Adapted from Zúñiga LA, et al. Immunol Rev. 2013;252(1):78-88. Gaffen SL, et al. Nat Rev Immunol. 2014;14(9):585-600. Schmitt H, et al. Front Immunol. 2021;12:622934.

IL-12/23–Targeted vs IL-23–Targeted Therapies: Lessons from Dermatology Practice

- Dermatology practice is moving toward increasing use of IL-23-targeted therapies
- Higher rates of response in psoriasis with IL-23targeted agents vs ustekinumab
- Patients with persistent disease while on ustekinumab show improvement after switching to an IL-23-targeted agent



Erichetti E, et al. Acta Derm Venereol. 2024;104:adv41053. Augustin M, et al. Dermatol. 2020;156(12):1344-1353.

Efficacy of IL-23s in PsO: PASI Scores from Phase III Studies



PASI = Psoriasis Area and Severity Index (PASI) score. Yang K, et al. *Am J Clin Dermatol.* 2021;22:173-192.



FINAL THOUGHTS Cytokines and Pathogenesis

Faculty Discussion





Corey Siegel, MD, MS

Audience Response

Which of the following is true regarding binding affinity of IL-23 inhibitors to CD64 receptors?

- A. Binding of CD64 occurs with only risankizumab
- B. Binding of CD64 occurs with only guselkumab
- C. Binding of CD64 occurs with only mirikizumab
- D. Binding of CD64 occurs with risankizumab, guselkumab, and mirikizumab
- E. I don't know



Anti-p40 (IL-12/23) and Anti-p19 (IL-



Adapted from Gately MK, et al. Annu Rev Immunol. 1998;16:495-521. Wilson NJ, et al. Nat Immunol. 2007;8(9):950-957. Nickoloff BJ, et al. J Clin Invest. 2004;113(12):1664-1675. Nestle FO, et al. J Invest Dermatol. 2004;123(6):xiv-xv. Created with Biorender.



Clinically Relevant Differences Between Anti–IL-23 Therapeutic Antibodies May Be Related to Their Unique Molecular Attributes

- Guselkumab (GUS) and risankizumab (RZB) are mAbs that selectively target the p19 subunit of IL-23
- GUS and RZB have shown efficacy in the treatment of inflammatory bowel diseases*
- Potential differences in the therapeutic profiles may be related to their unique molecular attributes
- GUS and RZB have differences in the Fc region that affect binding to Fc-gamma receptors



Objective: Examine the binding and functional characteristics of the antigen-binding and Fc regions of GUS and RZB

Fc = fragment crystallizable; IgG = immunoglobulin G; LALA = leucine to alanine substitutions at positions 234 and 235; mAbs = monoclonal antibodies.

*GUS is indicated for the treatment of adults with moderately to severely active ulcerative colitis; RZB is indicated for the treatment of adults with moderately to severely active Ucerative colitis.

D'Haens G, et al. Lancet. 2022;399(10340):2015-2030. Ferrante M, et al. Lancet. 2022;399(10340):2031-2046. Sandborn WJ, et al. Gastroenterology. 2022;162(6):1650-1664. Dignass A, et al. J Crohns Colitis. 2022;16(Suppl 1):i025-i026. Louis E, et al. Aliment Pharmacol Ther. 2004;19(5):511-519. Vos AC, et al. Gastroenterology. 2011;140(1):221-230. Wojtal KA, et al. PLoS One. 2012;7(8):e43361.











In Vitro Evaluations of CD64 and IL-23 Binding: GUS and RZB

Quantitation of (A) mAb MFI and (B) IL-23 MFI in intracellular compartments of CD64+ inflammatory macrophages following treatment with IL-23p19 mAbs and IL-23



Atreya R, et al. *J Crohns Colitis*. 2024;18(Suppl 1):i470.

In Vitro Evaluations of CD64 and IL-23 Binding: Mirikizumab

Assessment of Fc Receptor Activation and Complement Binding



Positive Control

- Mirikuzumab
- Negative Control

Data are mean + standard deviation (SD) of duplicate wells. Steere B, et al. *J Pharmacol Exp Ther.* 2023;387(2):180-187.



Audience Response

Which of the following is true regarding binding affinity of IL-23 inhibitors to CD64 receptors?

- A. Binding of CD64 occurs with only risankizumab
- B. Binding of CD64 occurs with only guselkumab
- C. Binding of CD64 occurs with only mirikizumab
- D. Binding of CD64 occurs with risankizumab, guselkumab, and mirikizumab





David P. Hudesman, MD, FACG, AGAF

Study Designs in IBD



Induction followed by randomized withdrawal maintenance

 All subjects who achieve response (i.e., clinical or endoscopic response) to active drug are **re-randomized** to active treatment or placebo

Treat-through design

 Randomize subjects once at the start of the trial to one of the treatment arms (i.e., dosing regimen or placebo) and subjects are treated continuously without rerandomization through 52 weeks

U.S. Department of Health and Human Services Food and Drug Administration. Crohn's Disease: Developing Drugs for Treatment Guidance for Industry. 2022. OUTFITTERS

Mirikizumab in UC: LUCENT-1 and LUCENT-2



Non-Resp = non-responders; Resp = responders; SC = subcutaneous.

Clinical response: \geq 2-point and \geq 30% decrease in the modified Mayo score (MMS) from baseline with RB = 0 or 1, or \geq 1-point decrease from baseline. Maintenance randomization was stratified by induction remission status, biologic failure status, baseline corticosteroid use, and world region. Mirikizumab is indicated for the treatment of moderately to severely active ulcerative colitis in adult patients. D'Haens G, et al. *N Engl J Med*, 2023;388:2444-2455.



Mirikizumab in UC Induction: LUCENT-1





Mirikizumab is indicated for the treatment of moderately to severely active ulcerative colitis in adult patients. D'Haens G, et al. *N Engl J Med.* 2023;388:2444-2455.



Mirikizumab in UC Maintenance: LUCENT-2 Week 40 Endpoints



Placebo (N = 179 unless otherwise noted)

Mirikizumab 200 mg (N = 365 unless otherwise noted)

Clinical remission: stool frequency (SF) = 0, or SF = 1 with a \geq 1-point decrease from baseline; rectal bleeding (RB) = 0; endoscopic subscore (ES) = 0 or 1 (excluding friability); endoscopic remission: ES = 0 or 1 (excluding friability), clinical remission at week 40, remission of symptoms at week 28, and no glucocorticoid use for \geq 12 weeks before week 40.

Mirikizumab is indicated for the treatment of moderately to severely active ulcerative colitis in adult patients.

D'Haens G, et al. N Engl J Med. 2023;388:2444-2455.



MIRI in Treatment-Naïve and Treatment-Experienced Patients with UC: LUCENT-2



PBO N = 114 (naïve); N = 64 (failed)
 Mirikizumab 200 mg SC N = 229 (naïve); N = 128 (failed)

PBO = placebo.

Mirikizumab is indicated for the treatment of moderately to severely active ulcerative colitis in adult patients. D'Haens G, et al. *N Engl J Med.* 2023;388:2444-2455.



Risankizumab in UC: INSPIRE/COMMAND



Key Inclusion Criteria:

- Age 18 to 80
- Moderately to severely active UC: Adapted Mayo score of 5-9 and endoscopic subscore of 2-3 (central review) with biopsy-confirmed diagnosis at least 3 months prior to baseline
- Intolerance or inadequate response to conventional (non-advanced) and/or advanced therapies (biologics, JAK inhibitors, and S1P receptor modulators)
- · No prior exposure to ustekinumab or IL-23 inhibitors was permitted



Risankizumab Induction in UC: INSPIRE





*P value < .00001 vs PBO.

Risankizumab is indicated for adults with moderately to severely active UC.

Clinical remission per Adapted Mayo Score is defined as stool frequency subscore (SFS) ≤1 and not greater than baseline, rectal bleeding subscore (RBS) of 0 and endoscopic subscore ≤1 without friability. Clinical response is defined as a decrease from baseline in the Adapted Mayo score ≥2 points and ≥30% from baseline, plus a decrease in RBS ≥1 or an absolute RBS ≤1.

Louis E, et al. Am J Gastroenterol. 2023;118(10S):S624-S625.



RZB in Treatment-Naïve and Treatment-Experienced Patients with UC: INSPIRE



IR = inadequate responders; RZB = risankizumab.

*Clinical remission per adapted Mayo score: stool frequency subscore <1 and not greater than baseline, rectal bleeding subscore of 0, and endoscopic subscore <1 without friability.

Risankizumab is indicated for patients with moderately to severely active UC.

Louis E, et al. JAMA. 2024;332:881-897.



Risankizumab Maintenance in UC: COMMAND



P*≤.05; *P*≤.01; ****P*≤.001 versus PBO (WD) SC.

Risankizumab is indicated for the treatment of moderately to severely active ulcerative colitis and Crohn's disease in adult patients. Louis E, et al. *J Crohns Colitis*. 2024;18(Suppl 1)i10-i12.



Guselkumab in UC: QUASAR





Q4W = every 4 weeks; Q8W = every 8 weeks.

*Study treatment administered; †Study treatment administered to Week 12 clinical non-responders.

GUS is indicated for adult patients with moderately to severely active ulcerative colitis.

1. Peyrin-Biroulet L, et al. Gastroenterology. 2023;165:1443-1457. 2. Allegretti JR, et al. Gastroenterology. 2023;164:S-1572.



Guselkumab in UC Induction: QUASAR Phase III Week 12 Endpoints



GUS is indicated for adult patients with moderately to severely active ulcerative colitis.

Clinical remission defined as a Mayo stool frequency subscore of 0 or 1 with no increase from baseline, a rectal bleeding subscore of 0, and a Mayo endoscopy subscore of 0 or 1 with no friability.

Allegretti J. Abstract 913b presented at DDW 2023. Gastroenterol Hepatol. 2023;19:9-10.

Guselkumab in UC Maintenance: QUASAR Phase III Week 44 Endpoints



Primary analysis population: randomized patients with a modified Mayo score of 5-9 at induction with received at least one maintenance study treatment dose.

GUS is indicated for adult patients with moderately to severely active ulcerative colitis.

Rubin DT. Digestive Disease Week (DDW) 2024. Abstract 759. https://ddw.digitellinc.com/p/s/the-efficacy-and-safety-of-guselkumab-as-maintenance-therapy-in-patients-withmoderately-to-severely-active-ulcerative-colitis-results-from-the-phase-3-quasar-maintenance-study-5792.



GUS in Treatment-Naïve and Treatment-Experienced Patients with UC at Week 44: QUASAR

Endoscopic Remission in Patients with Inadequate Endoscopic Remission in Biologic/JAKi-Naïve Patients Response or Intolerance to Biologics/JAKis 50 35 Percentage of Patients 31.2 41.7 38.1 Percentage of Patients 30 40 23.925 30 20.4 20 20 15 10 10 8 0 5 GUS 100 mg GUS 200 mg Placebo 0 Placebo GUS 100 mg GUS 200 mg

JAKi = JAK inhibitor.

Allegretti JR, et al. United European Gastroenterology Week (UEGW) 2024. Abstract OP082. https://www.nxtbook.com/ueg/UEG/ueg-journal-abstracts-2024/index.php#/p/74.



Mirikizumab Safety in UC



AE = adverse event. Sands BE, et al. *Inflamm Bowel Dis.* 2024 Mar 9:izae024. [Epub ahead of print.]



Rizankizumab Safety in UC



Treatment-Emergent AEs Among Safety Population Through Week 52 ^a						
Events/100 Patient Years	PBO (WD) SC n = 196; PY = 174.9	RZB 180 mg SC n = 193; PY = 185.4	RZB 360 mg SC n = 195; PY = 173.5			
Any AE	399 (228.1)	399 (215.2)	406 (234.0)			
AE related to COVID-19	28 (16.0) 21 (11.3)		29 (16.7)			
AE with reasonable possibility of being drug-related ^b	75 (42.9)	85 (45.9)	61 (35.2)			
Severe AE	14 (8.0) 3 (1.6)		7 (4.0)			
Serious AE	20 (11.4)	11 (5.9)	11 (6.3)			
AE leading to discontinuation of study drug	4 (2.3)	5 (2.7)	5 (2.9)			
All deaths	0	0	1 (0.6) ^c			
Serious infections ^d	4 (2.3)	2 (1.1)	1 (0.6)			
Infusion/Injection site reactions ^e	3 (1.7)	14 (7.6)	10 (5.8)			

COVID-19 = coronavirus disease 2019; PBO = placebo; PY = patientyears; WD = withdrawal.

^aThe safety population included all patients who clinically responded to IV RZB at 12 or 24 weeks, were randomized to COMMANDat maintenance week 0 and received at least one dose of study drug during 52-week maintenance period; ^bAs assessed by the investigator; ^cOne death was reported in the RZB 360 mg arm in a patient diagnosed with colon adenocarcinoma, which was retrospectively found in the screening biopsy tissue; ^dSerious infections in RZB-treated patients included COVID-19, COVID-19 pneumonia, abscess limb, and pneumonia; ^eAll infusion/injection site reaction events were nonserious and did not lead to study discontinuation. Louis E, et al. *J Crohns Colitis*. 2024;18(S1):i10-i12.



Guselkumab Safety in UC



Outcome	Placebo (n = 105)	Guselkumab 200 mg IV (n = 101)	Guselkumab 400 mg IV (n = 107)	Combined (n = 208)
Any AE	59 (56.2)	45 (44.6)	53 (49.5)	98 (47.1)
AE within 1 hour of infusion	2 (1.9)	2 (2.0)	0	2 (1.0)
Serious AE	6 (5.7)	1 (1.0)	3 (2.8)	4 (1.9)
Death	0	0	0	0
Discontinuation for AE	3 (2.9)	1 (1.0)	0	1 (0.5)
Malignancy	0	0	0	0
Infection	13 (12.4)	14 (13.9)	10 (9.3)	24 (11.5)
Serious Infection	2 (1.9)	0	0	0



Peyrin-Biroulet L, et al. Gastroenterology 2023;165(6):1443-1457.

Overview of Data in CD Corey Siegel, MD, MS

ADVANCE and MOTIVATE: Risankizumab Induction in CD



CDAI = Crohn's disease activity index; SF/AP = stool frequency/abdominal pain.

Clinical responders defined as \geq 30% decrease in average daily stool frequency or APS and not worse than baseline; endoscopic response defined as >50% decline in SES-CD vs baseline by central reviewer (or in patients with SES-CD of 4 at baseline, \geq 2-point decrease vs baseline); CDAI clinical remission a CDAI <150. D'Haens G, et al. *Lancet.* 2022;399(10340):2015-2030. Ferrante M, et al. *Lancet.* 2022;399(10340):2031-2046.



FORTIFY: Risankizumab Maintenance in CD



Endoscopic response defined as >50% decline in SES-CD vs baseline by central reviewer (or in patients with SES-CD of 4 at baseline, ≥2-point decrease vs baseline); CDAI clinical remission a CDAI <150. Ferrante M, et al. *Lancet.* 2022;399(10340):2031-2046.



RZB vs UST in Patients with CD: Phase IIIb SEQUENCE Trial

RZB IV RZB SC 600 ma 360 mg Q8W Randomization 1:1 36 SC 44 SC 0 IV 4 IV 8 IV 12 SC 20 SC Visit 28 SC RZB only Week 28 12 16 20 24 32 36 44 48 8 40 4 UST 8 SC 16 SC 40 SC 0 IV 24 SC 32 SC UST **UST SC** IV 90 mg Q8W dose

Mandatory steroid taper beginning at week 2

Key Eligibility Criteria:

Moderate to severe CD: CDAI 220-450

- Average daily SF ≥4 and/or average daily APS ≥2
- SES-CD, excluding the narrowing component, ≥6 (≥4 for isolated ileal disease), as scored by the site Investigator and confirmed by a central reader



Prior failure of \geq 1 anti-TNF therapies

• Prior biologic therapy that could potentially influence the therapeutic impact on CD was exclusionary, including vedolizumab



Peyrin-Biroulet L, et al. N Engl J Med. 2024;391:213-223.



Stratification Factors:

- Number of prior anti-TNF failure (1, > 1)
- Corticosteroid use at baseline (ves or no)]

RZB vs UST in Patients with CD: Phase IIIb SEQUENCE Trial

Endoscopic Remission Mucosal Healing 100 100-80-80· $\Delta = 15.6$ Patients (%) $\Delta = 12.1$ $\Delta = 18.2$ Patients (%) (8.4, 22.9)60-(4.9, 19.4)(11.3, 25.1)RZB 60· P < .0001 $\Delta = 10.9$ P = .001P < .0001UST (4.2, 17.7)P < .0131.8 40-29.4 40 30.2 25.1 17.4 16.2 14.4 20-12.1 20 43/ 75/ 46/ 81/ 38/ .32/ 64/ 77/ 255 265 255 265 255 264 255 264 0 n **Week 24** Week 48 Week 24 **Week 48**

RZB = risankizumab; UST = ustekinumab. Peyrin-Biroulet L, et al. *N Engl J Med*. 2024;391:213-223.



VIVID-1: MIRI* vs UST in Moderate-to-Severe CD



MIRI = mirikizumab; NRI = non-responder imputation. *Mirikizumab is not currently FDA approved for the treatment of CD. Jairath V, et al. *J Crohns Colitis.* 2024;18:i62-i64.



GUS* vs UST in CD at 12 Weeks: GALAXI-1



Primary Endpoint: Change from Baseline in CDAI Score at Week 12

CDAI = Crohn's Disease Activity Index; DBPC = double-blind placebo controlled; LS = least squares. *UST 6 mg/kg IV \rightarrow 90 mg SC; [†]*P* value < .05 for GUS vs placebo; [‡]Nominal *P* value < .05 from post hoc analysis of UST vs placebo. Guselkumab is not currently FDA approved for CD. Sandborn W, et al. *Gastroenterology*. 2002;162:1650-1664.e8.



GUS* vs UST in CD at 48 Weeks: GALAXI 2 and 3

GALAXI 2 and 3 are identical 48-week, randomized, double-blind, double-dummy, placebo, and active-comparator (UST) treat-through trials assessing the efficacy and safety of guselkumab in patients with moderately to severely active CD



GUS = guselkumab; UST = ustekinumab. *Guselkumab is not currently FDA approved for CD.

Panaccione R, et al. Digestive Disease Week (DDW) 2024. Abstract 1057b. https://acrabstracts.org/abstract/efficacy-and-safety-of-guselkumab-therapy-in-patients-with-moderately-to-severely-active-crohns-disease-results-of-the-galaxi-2-3-phase-3-studies/.



Final Points About IL-23s

IL-23is and Improvements in Fatigue, Bowel Urgency, and Abdominal Pain

Disease Subtype	Study	Symptom	Conclusions
UC	QUASAR ¹	Fatigue (PROMIS-Fatigue-SF7a) Bowel Urgency and Abd Pain (IBD Questionnaire)	GUS induction group showed greater improvement in patient-reported symptoms of fatigue at week 12 vs PBO GUS induction group showed improvements in abdominal pain and bowel urgency and symptoms of urgency at week 12
UC	LUCENT-1 and LUCENT-2 ^{2,3}	Fatigue (NRS) and Bowel Urgency (UNRS)	 MIRI induction group showed improvement in fatigue that was sustained in maintenance therapy (week 40) MIRI patients achieved sustained bowel urgency improvement vs PBO at week 12 and week 52
CD	MOTIVATE, ADVANCE and FORTIFY ^{4,5}	Fatigue (FACIT-F), stool frequency and abdominal pain scores	 RZB induction group showed improvements in fatigue that were sustained in maintenance therapy (week 52) Stool frequency and abdominal pain score clinical remission was reached in 73 (52%) of patients on RZB vs 65 (40%) of patients on PBO

GUS = guselkumab; IL-23is = IL-23 inhibitors; MIRI = mirikizumab; RZB = risankizumab.

1. Dignass A, et al. J Crohns Colitis. 2024;18(Suppl 1):i166-i167. 2. Rubin D, et al. J Crohns Colitis. 2024;18(Suppl 1):i1825-i1826. 3. Tinoco da Silva Torres J, et al. J Crohns Colitis. 2024;18(Suppl 1):i214-i215. 4. Peyrin-Biroulet L, et al. Aliment Pharmacol Ther. 2023;57:496-508. 5. Ferrante M, et al. Lancet. 2022;399:2031-2046.



Patient Cases

Patient Case: Gavin M.

- 28-year-old man
- Diagnosed 8 months ago with left-sided UC
- Patient is reluctant to discuss symptoms
- Weight: 65 kg, height: 180 cm (71 in)
- Current symptoms:
 - 6-month history of abdominal cramping and "multiple" loose stools/day; rectal bleeding reported
- Diagnosis:
 - Moderately active (Mayo 2) UC, confirmed on colonoscopy
- Medications:
 - Prednisone taper and 5-ASA; had improvement but unable to wean without his symptoms returning
- No history of treatment with biologic agents





Audience Response

What would you do next?

- A. Increase dose of prednisone and re-evaluate in 8 weeks
- B. Start vedolizumab
- c. Start S1P receptor modulator
- D. Start anti-TNF
- E. Start IL-23 inhibitor
- F. I'm not sure



Patient Case: Sheila H.

- 32-year-old woman with 4-month history of UC
- Currently being treated with adalimumab every 2 weeks
- Having symptom recurrence after 9 months of therapy
- Current symptoms:
 - 6-8 stools per day, urgency and rectal bleeding
- Colonoscopy:
 - Active disease up to 60 cm, Mayo 3
- Labs:
 - Calprotectin 1,250 µg/mg
- CRP 3.7
- C-diff and infectious workup negative





Audience Response

What would you do next?

- A. Change adalimumab dosing to weekly
- B. Switch to infliximab
- c. Switch to vedolizumab
- D. Switch to ustekinumab
- E. Switch to IL-23 inhibitor
- F. Switch to S1P modulator
- G. Switch to JAK inhibitor
- H. I'm not sure



SMART Goals

Specific, Measurable, Attainable, Relevant, Timely

- Consider the underlying mechanisms behind the inflammatory pathways implicated in IBD, such as those impacting IL-23 and Th17 pathways, when considering treatment options
- Differentiate between IL-23-targeted therapies and their unique characteristics to individualize and optimize patient treatment
- Integrate the latest evidence into your positioning of IL-23 therapies in IBD management



Additional Resources

To learn more, click on the *Materials* and *Resources* tabs to access additional resources, including an interactive 3D digital animation.

QUESTIONS ANSWERS

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