# crohn's 🔶 colitis

Name of Clinical Care Pathway Induction of Advanced Therapy Objective Ensure a safe start to advanced therapy Patient Population Adult patients (>18 years) with a known diagnosis of IBD

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PACE Inflammatory Bowel Disease Clinical Care Pathways

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Highlight Box

Pretherapy workup should be considered for all patients.

These clinical decision support tools were developed by Canadian experts in IBD based on their interpretation of current evidence and considerations specific to Canadian healthcare. International guidelines from Europe and the United States are available. However, these may reflect regional factors not directly applicable in Canada.

#### Introduction

IBD provider:

- 1. Prior to starting therapy, the patient should have the following completed:
  - a. Take history for hypertension/hyperlipidemia/heart failure, multiple sclerosis, diabetes, venous thromboembolism, current or past history of cancer and consider the age of the patient. If there is a known history of congestive heart failure, a baseline echocardiogram is recommended (at the physician's discretion).

Note: Anti-TNF therapy is contraindicated for patients with congestive heart failure NYHA Class III and IV and multiple sclerosis.

- b. HAV IgG, HBsAg, HBsAb, HCV (HIV may also be considered if a patient is at high risk or high local prevalence) (<u>PACE QPIs 6, 30</u>).
- c. Routine IBD follow-up labs as indicated/appropriate:

Complete blood count, electrolytes and creatinine, annual ferritin, vitamin D and vitamin B12, liver biochemistry, and lipid profile at baseline for initiating JAK inhibitor therapy.

- d. Chest x-ray
- e. TB skin test, if immunosuppressed QuantiFERON -TB gold test recommended
- f. If considering an S1P receptor modulator, a baseline EKG is mandatory, and an eye exam by an optometrist or ophthalmologist should be performed if the patient has a history of eye disease, diabetes, or uveitis.
- g. Vaccinations up to date:

Recommended: Covid\*, influenza\*, pneumococcal\*, MMR\*, varicella zoster\*, Shingrix\*, hepatitis A\* and B\*) \*optional

- h. Arrange a fecal calprotectin kit prior to initiation of advanced therapy.
- 2. Review insurance options and provide the patient with appropriate start-up and Information sheets.
- 3. Depending on the choice of therapy, send a message to support staff to arrange a reassessment visit at 2-4 months to assess for primary response. As part of the assessment, report <u>Harvey Bradshaw Index (HBI)</u> or <u>Partial Mayo (pMayo)</u>.







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Support staff:

4. Arrange a clinic appointment for the patient every 2-4 months during induction and 4-6 months during the maintenance phase in the first year of therapy. Once safety and effectiveness are established beyond 12 months of therapy, follow up every 6-12 months.

Provide an IBD follow-up blood requisition form and a fecal calprotectin kit or requisition for them to complete prior to their appointment (you may need to consider the turnaround time for testing results).

5. See <u>Health Maintenance</u> protocol for monitoring of adverse effects and prevention of other diseases.

Notes:

Dosing and monitoring of Advanced Therapies

Agent generic name	Indication	Target	Dose and frequency			
Class: Anti-TNF	Class: Anti-TNF					
Adalimumab + biosimilars	Moderate to severe CD and UC	Tumor necrosis factor (TNF)	Induction: 160mg SC at week 0, 80mg at week 2 Maintenance: 40mg SC every other week starting at week 4			
Infliximab + biosimilars	Moderate to severe CD and UC	Tumor necrosis factor (TNF)	Induction: 5mg/kg IV at weeks 0, 2, and 6 Maintenance: 5mg/kg IV every 8 weeks starting at week 14 (escalate to 10mg/kg IV if inadequate response), or 120mg SC injection every 2 weeks			
Golimumab Class: Anti-integr	Moderate to severe UC	Tumor necrosis factor (TNF)	Induction: 200mg SC at week 0, 2 Maintenance: 50mg-100mg SC every 4 weeks			
Vedolizumab	Moderate to severe CD and UC	α-4-β-7 integrin	Induction: 300 mg IV at 0, 2 and 6 weeks Maintenance: 300mg IV every 8 months OR 108mg SC every 2 weeks			







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Golimumab	Moderate to severe UC	Tumor necrosis factor (TNF)	Induction: 200mg SC at week 0, 2 Maintenance: 50mg-100mg SC every 4 weeks
Class: Anti-integr	in		
Vedolizumab	Moderate to severe CD and UC	α-4-β-7 integrin	Induction: 300 mg IV at 0, 2 and 6 weeks Maintenance: 300mg IV every 8 months OR 108mg SC every 2 weeks
Class: Cytokines			
Risankizumab	Moderate to severe CD and UC	IL-23 receptors	Induction: 600mg IV infusion at week 0, 4, 8 Maintenance: 360mg SC (on-body) injection every 8 weeks
Ustekinumab	Moderate to severe CD and UC	IL-12 and IL-23 receptors	Induction: IV, dosing based on   weight:   ≤55 kg: 260 mg as a single dose   >55 kg to 85 kg: 390 mg as a single dose   >85 kg: 520 mg as a single dose   Maintenance: SC, begin maintenance dose (90 mg) 2 months after IV induction, then continue 90 mg every 2 months







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Risankizumab	Moderate to severe CD and UC	IL-23 receptors	Induction: 600mg IV infusion at week 0, 4, 8
			Maintenance: 360mg SC (on-body) injection every 8 weeks
Ustekinumab	Moderate to severe CD and UC	IL-12 and IL-23 receptors	Induction: IV, dosing based on weight:
			≤55 kg: 260 mg as a single dose
			>55 kg to 85 kg: 390 mg as a single dose
			>85 kg: 520 mg as a single dose
			Maintenance: SC, begin maintenance dose (90 mg) 2 months after IV induction, then continue 90 mg every 2 months
Mirikizumab	Moderate to severe UC	IL-23 receptor p19 antagonist	Induction: 300 mg IV at Weeks 0, 4, and 8
			Maintenance: 200 mg SC at Week 12 and q4 weeks thereafter
Class: Small mole	cules		
Ozanimod	Moderate to severe UC	Sphingosine 1- phosphate (S1P) receptors	Induction: 1mg/day of oral Ozanimod for 10 weeks
			Maintenance: 1mg/day of oral Ozanimod
Etrasimod	Moderate to severe UC	Sphingosine 1- phosphate (S1P) receptors	Induction: 2mg/day of oral Etrasimod for 12 weeks
			Maintenance: 2mg/day of oral Etrasimod
Tofacitinib	Moderate to severe UC	Janus kinase (JAK)	Induction: 10 mg twice daily for 2 months
			Maintenance: 5mg twice daily







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Agent generic name	Indication	Target	Dose and frequency
Upadacintinib	Moderate to severe CD and UC	Janus kinase (JAK)	Induction: 45mg once daily for 8 weeks (patients with UC) or 12 weeks (patients with CD) Maintenance: 15mg once daily or 30mg once daily

SC: Subcutaneous IV: Intravenous

Please see the <u>Loss of Response</u> protocol in case of loss of response or partial response to advanced therapy.

References

Mitrev et al. Review article: consensus statements on therapeutic drug monitoring of anti-tumour necrosis factor therapy in inflammatory bowel diseases. Aliment Pharmacol Ther 2017; 46(11-12):1037-1053. <u>https://doi.org/10.1111/apt.14368</u>

Papamichael et al. Appropriate Therapeutic Drug Monitoring of Biologic Agents for patients with inflammatory bowel diseases. Clin Gastroenterol Hepatol. 2019; 17(9):1655-1668. https://doi.org/10.1016/j.cgh.2019.03.037







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