

Prescribing Protocol		
Title	Ustekinumab for Crohn's Disease	
Areas where Protocol/Guideline applicable e.g. District, Hospital, ITU, Ward	Ambulatory care, peri-operative units, gastroenterology wards.	
Areas where Protocol/Guideline not applicable	Non-gastroenterology wards	
Authorised Prescribers	Gastroenterologists	
Indication for use	Treatment of adult patients with moderately to severely active Crohn's disease in accordance with PBS criteria.	
Clinical condition	Patients with moderately to severely active Crohn's disease who have had an inadequate response, lost response, or were intolerant to either conventional therapy (oral steroids or oral immunosuppressive therapy) or a biological medicine (e.g. TNFα antagonist) or have medical contraindications to such therapies. For detailed requirements see: http://www.pbs.gov.au/medicine/item/11164N-11182M	
Place in Therapy	Prescribed after oral steroids and oral immunomodulators. in line with PBS requirements	
	Infection	
	Caution should be exercised when considering the use of ustekinumab in patients with a chronic infection or a history of recurrent infection. Stop treatment if serious infection occurs. The medication should not be administered until serious infection resolves	
	Prior to initiating treatment, patients should be evaluated for tuberculosis (TB) infection. May reactivate inactive hepatitis B and latent TB (begin TB treatment before starting ustekinumab). Should not be given to patients with active TB.	
Precautions	Malignancy	
	Do not use in active malignancy, use with caution in patients with a history of malignancy.	
	Serious skin conditions	
	In patients with psoriasis, exfoliative dermatitis has been reported following ustekinumab treatment.	
	Pregnancy/breastfeeding	
	Avoid use in pregnancy. Ensure effective contraception until at least 15 weeks after the last dose. Manufacturer does not recommend breastfeeding during, and for up to 15 weeks after, treatment.	

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	Induction dose via a SINGLE intravenous infusion.			
Dosage (Include dosage adjustment for specific patient groups)	The recommended treatment regimen is to initiate ustekinumab with a single intravenous (IV) dose based on body weight (see table 1 below). The infusion solution is to be composed of the number of vials of ustekinumab 130 mg as specified in table 1 below.			
	Body weight of patient at the time of dose	Dose	Number of 130 mg ustekinumab vials	
	≤ 55 kg	260mg	2	
	> 55 kg to ≤ 85 kg	390mg	3	
	> 85 kg	520mg	4	
	The first subcutaneous dose should be administered 8 weeks after the initial intravenous dose, then every 8 weeks thereafter. If response is adequate, consider giving every 12 weeks, according to clinical judgement.			
Important Drug Interactions	Every 8-12 weeks indefinitely according to response Live vaccines: should not be given concurrently (see precautions) CYP450 substrates: (e.g. warfarin, ciclosporin) - monitoring			
	for therapeutic effect or drug concentration should be considered and the individual dose of the drug adjusted as needed.			
	Immunosuppression: Caution should be exercised when considering concomitant use of immunosuppressive agents and ustekinumab or when transitioning from other biologic agents.			
	Immunotherapy:			
	Allergy immunothera immunotherapy. Cau receiving or who hav particularly for anaph	ition should be exer re received allergy in	cised in patients	

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For single IV dose administration (induction dose):

Ustekinumab solution must be diluted and prepared for IV infusion using asceptic technique.

- 1. Calculate the dose and the number of ustekinumab 130mg vials needed based on the patient's weight (refer to table 1 above).
- 2. Withdraw, and then discard, an equivalent volume of the 0.9% w/v sodium chloride solution from the 250 mL infusion bag, to the volume of ustekinumab to be added (26mL per 130mg vial)

e.g. 2 vials = 52 mL

3 vials = 78 mL

4 vials = 104 ml

- 3. Withdraw 26mL of ustekinumab from each vial needed and add it to the 250 mL infusion bag. The final volume of the bag should be 250mL. Gently invert or swirl the bag to mix the solution. Do not shake.
- 4. Visually inspect the diluted infusion solution before administration. Do not use if visibly opaque particles, discolouration, or foreign particles are observed.
- 5. Once diluted, the infusion solution may be stored for up to 8 hours (at room temperature, up to 25°C) prior to infusion.
- 6. Infuse the diluted infusion solution over a period of at least 1 hour.
- 7. Use only an infusion set with an in-line, sterile, non-pyrogenic, low protein-binding filter (pore size 0.2 micrometer)
- 8. Do not infuse ustekinumab concomitantly in the same IV line with other agents.
- 9. Ustekinumab solution for injection does not contain preservatives. Each vial is for single use only. Discard any remaining solution. Dispose of any unused medicinal product in accordance with local requirements

After the initial IV dose, ustekinumab should then be administered subcutaneously.

The first subcutaneous dose of 90 mg (2 x 45mg vials) should be administered 8 weeks after the initial intravenous dose, then every 8 weeks thereafter.

Administration instructions

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Monitoring requirements	Monitor for hypersensitivity reactions during and immediately post-administration, e.g. rash, urticaria (rarely angioedema, anaphylaxis)
Safety	Monitor for adverse drug reactions, including: infections, dizziness, headache, fatigue, diarrhoea, itch, arthralgia, myalgia, pain, injection site reactions, malignancies, pustular psoriasis, exfoliative dermatitis
Effectiveness	Monitor Crohn's Disease Activity Index (CDAI) score and biomarkers to ensure adequate response to treatment. Consider stopping ustekinumab if there is no clinical response by week 16.
Management of complications	If an anaphylactic or other serious hypersensitivity reaction occurs, appropriate supportive therapy should be instituted and administration of should be discontinued immediately. Other adverse reactions should be managed supportively with consideration for discontinuing treatment based on risk/benefit assessment.
Basis of Protocol/Guideline:	Stelara® Product Information
(including sources of evidence,	Stelara® Infusion Protocol
references)	Australian Medicines Handbook
Groups consulted in development of this guideline	SESLHDQUM Committee

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