

Who can administer

May be administered by registered competent doctor or nurse/midwife

Important information

- **All new gastro/rheumatology patients will be commenced on Remsima (biosimilar).**
- The **brand name** to be used **must be specified** by the prescriber, i.e. Remsima or Remicade
- Monitoring requirements - see below
- In order to improve the traceability of biological medicinal products, **the name and the batch number of the administered product should be clearly recorded in the medical notes**
- **Anaphylaxis** can be a concern with this drug - ensure adrenaline, corticosteroids, antihistamine and paracetamol are available during administration
- Before the administration of each dose, the patient should be examined for the **presence of infection**, and consideration given to delaying treatment should severe infection be present
- Confirm patient does **not have recent exposure to chicken pox or TB**

Available preparations

Remsima 100mg vial

Remicade 100mg vial

Baxter manufactured Remsima bags

Reconstitution

Water for Injections

- 10ml per 100mg vial
- Use a syringe with a 21-gauge (0.8mm) or smaller needle
- Direct the stream of Water for Injection to the glass wall of the vial, rather than directly at the powder.
- Gently rotate the vial to dissolve the lyophilised powder
- **Do not shake** - Foaming may occur
- Allow the reconstituted solution to stand for five minutes
- Check that the solution is colourless to light yellow and opalescent

Infusion fluids

Sodium chloride 0.9%

Methods of intravenous administration

Intermittent intravenous infusion (using an electronically controlled infusion device)

- Slowly add the reconstituted drug to 250ml infusion fluid and **gently mix**
 - **Note: maximum concentration of 4mg/1mL cannot be exceeded** - so no more than 1000mg can be put into each 250mL bag

- **Administer required dose over 2 hours**

- In **carefully selected adult patients** who have tolerated **at least three initial 2-hour infusions** of Infliximab (induction phase) and are receiving maintenance therapy, consideration may be given to administering subsequent infusions over **a period of not less than 1 hour**. If an infusion reaction occurs in association with a shortened infusion, a slower infusion rate may be considered for future infusions if treatment is to be continued. **Shortened infusions at doses greater than 6mg/kg have not been studied**
- **Selected Gastroenterology patients**^(unlicensed): see under Monitoring for adjusted administration and monitoring requirements
- Use an infusion set with an in-line sterile, non-pyrogenic, low protein-binding filter (pore size 1.2microns or less)(Sterifix reference number 409 9303)
 - MPUH- available from Stores
 - UCHG: available from pharmacy

Dose in adults

- Use actual body weight for **obese patients**^(ref 1)
- Given the 100mg vial presentation, dosing on a mg/kg basis and the need to promote cost-effective use dose-rounding is permitted by physicians 10% (for gastroenterology)^(ref 2)
- See Further information section for guidance on administration when interval between doses is greater than 8 weeks
- **Patients may be pre-treated with e.g., an antihistamine, hydrocortisone and/or paracetamol** and infusion rate may be slowed in order to decrease the risk of infusion-related reactions especially if infusion-related reactions have occurred previously

Moderate to severely active Crohn's disease

- **Initial dose 5mg/kg, repeated two weeks later**
- If **no response** after two doses - no additional doses should be given
- In patients who respond, there are two options:
 - a: Repeat 5mg/kg dose six weeks after initial dose, followed by further doses every eight weeks
 - b: Re-administration of 5mg/kg if signs and symptoms of the disease recur
- Higher doses than 5mg/kg- see 'Further information'

Fistulating active Crohn's disease

- **Initial dose** 5mg/kg single dose, repeated at two and six weeks after the first infusion
- If the patient does not respond after these 3 doses, no additional treatment with infliximab should be given
- In patients who respond: two options
 - a: Repeat 5mg/kg dose every eight weeks, or
 - b: Readministration of 5mg/kg if signs and symptoms of the disease recur, followed by infusions of 5mg/kg every eight weeks
- Higher doses than 5mg/kg- see 'Further information'

Ulcerative colitis

- Initial dose 5mg/kg, repeated at two and six weeks after the first dose, then every eight weeks thereafter
- If there is no response after 14 weeks (ie. three doses), continued therapy should be carefully reconsidered

Higher doses for Gastrointestinal disease (unlicensed)

- Local, specialist recommendation ^(ref 2):
 - Dosing may change dependent on trough drug levels and clinical requirements
 - With Consultant authorisation, a 10mg/kg dose may be used for sicker patients, and the interval between doses may be shortened

Ankylosing spondylitis

- **Initial dose:** 5mg/kg single dose, repeated at two and six weeks after the first infusion
- If a patient **does not respond** by six weeks (ie after 2 doses), no additional doses should be given
- If a patient **does respond**, the dose may be administered every six to eight weeks thereafter

Rheumatoid arthritis

- **Licensed dose: Initial dose** 3mg/kg, repeating at two and six weeks, then every eight weeks thereafter (licensed only in conjunction with methotrexate, check with consultant if patient is not on methotrexate)
- If a patient loses response or has an inadequate response after twelve weeks, the dose may be increased in increments of 1.5mg/kg up to a maximum of 7.5mg/kg every eight weeks. Alternatively, 3mg/kg may be given every four weeks
- Continued therapy should be carefully reconsidered in patients who show no evidence of therapeutic benefit within the first 12 weeks of treatment or after dose adjustment

For other indications (including psoriatic arthritis, psoriasis), please see SPC or contact pharmacy department.

Renal and/or hepatic impairment

- Infliximab has not been studied in these patient populations. No dose recommendations can be made

Monitoring

- Monitor the patient for infusion-related reactions **every 30 minutes** during the infusion
- The manufacturers advise that patients continue to be monitored for at least one to two hours post infusion for infusion-related reactions

Local policy (GI indications) suggests that in carefully selected adult patients, monitoring is as follows ^(ref 2)			
Â	Infusion duration	Post-dose monitoring	Notes
1st, 2nd and 3rd infusion	120 minutes	60 minutes	Note: Infusion related reactions are more common in the following situations and infusion time and monitoring period may need to be extended if: <ul style="list-style-type: none"> • Retreatment after a break • Development of antibodies to infliximab • Immunosuppressants have been discontinued • Switching between biosimilars In all instances clinical checks must occur prior to discharge and patient is to be informed about what to do in event of delayed reaction occurring If an infusion reaction occurs in association with a shortened infusion, a slower infusion rate and/or increased post infusion monitoring may be considered for future infusions if treatment is to be continued.
Fourth infusion	60 minutes	30 minutes	
Fifth infusion onwards	60 minutes	No post dose monitoring	

- If adverse reactions occur, slow or stop the infusion. Refer to Medication protocol: Management of Infusion Related Patient Reactions in nurse-led infusion settings at Galway University Hospital QPulse

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- Patients may be pre-treated with antihistamines, hydrocortisone, and/or paracetamol to decrease the risk of infusion related reactions
- Trough levels may be measured in-house

Further information

Pre-screening

- Chest x ray
- Mantoux test
- Hepatitis screen (HepBcAb, or if prior vaccination to HepB check HepBsAb)
- VZV IgG
- HIV Ab
- All patients should be brought up to date with all vaccines in agreement with current vaccine guidelines with the exception of live vaccines (see Chapter 3- [Immunisation of immunocompromised persons](#))

Readministration after a break in therapy (Crohn's disease and rheumatoid arthritis)

- If signs and symptoms of disease recur, infliximab may be re-administered within 16 weeks of the last infusion. In clinical trials, DELAYED HYPERSENSITIVITY REACTIONS have occurred after **infliximab-free intervals of less than 1 year**

Storage

- Store between 2 and 8°C
- **For Baxter manufactured bags** - See bag label for expiry date

References

Remsima SPC Accessed online via EMA- April 2025

Remicade SPC October 2023

1: Email communication with Celltrion healthcare 06/03/2025

2: Email communications with Gastroenterologists, June 2025. These recommendations are supported by:

- Clinical evidence supporting accelerated infusions with reduced or no post infusion monitoring (available upon request).
- Dose escalation occurs when clinically appropriate, this reduces risk of antibody formation which is known to increase infusion reaction rate.
- Antibody formation is routinely measured, which enables identification of where infusion reaction is at higher risk.

Therapeutic classification

Tumour necrosis factor alpha inhibitor