

Product Monograph

Including Patient Medication Information

PrTREMIFYA®

guselkumab injection
Solution for subcutaneous injection

PrTREMIFYA®

45 mg/0.45 mL Variable dose injector
100 mg/1 mL Pre-filled syringe
200 mg/2 mL Pre-filled syringe
100 mg/1 mL Pre-filled pen
200 mg/2 mL Pre-filled pen

PrTREMIFYA One-Press®

100 mg/1 mL Patient-controlled injector

PrTREMIFYA® I.V.

guselkumab for injection
Solution for intravenous infusion,
200 mg/20 mL vial

Interleukin-23 (IL-23) inhibitor

Janssen Inc.*
19 Green Belt Drive
Toronto, Ontario
M3C 1L9

Date of Authorization:
2026-08-14

innovativemedicine.jnj.com/canada

Control Number: 292822

All trademarks used under license

*a Johnson & Johnson company

Recent Major Label Changes

1	Indications, 1.1 Pediatrics	2026-08
1	Indications	2025-11
2	Contraindications	2026-08
4	Dosage and Administration, 4.1 Dosing Considerations	2026-08
4	Dosage and Administration, 4.2 Recommended Dose and Dosage Adjustment	2026-08
4	Dosage and Administration, 4.4 Administration	2026-08
4	Dosage and Administration	2025-11
7	Warnings and Precautions, General	2026-08
7	Warnings and Precautions, Hepatotoxicity	2026-08
7	Warnings and Precautions, Immune , Vaccinations	2026-08
7	Warnings and Precautions, Pediatrics	2026-08
7	Warnings and Precautions, General, Infections	2025-11
7	Warnings and Precautions, 7.1.4 Geriatrics7.1.4 Geriatrics	2025-11

Table of Contents

Certain sections or subsections that are not applicable at the time of the preparation of the most recent authorized product monograph are not listed.

Recent Major Label Changes	2
Table of Contents.....	2
Part 1: Health Professional Information	5
1 Indications	5
1.1 Pediatrics.....	5
1.2 Geriatrics	6
2 Contraindications	6
4 Dosage and Administration	6
4.1 Dosing Considerations.....	6
4.2 Recommended Dose and Dosage Adjustment	7
4.4 Administration.....	9
4.5 Missed Dose.....	10
5 Overdose.....	10
6 Dosage Forms, Strengths, Composition, and Packaging.....	10
7 Warnings and Precautions	12
General	12

	Hepatotoxicity.....	12
	Immune	13
	Reproductive Health	13
	Sensitivity/Resistance.....	13
	7.1 Special Populations	13
	7.1.1 Pregnancy.....	13
	7.1.2 Breastfeeding	14
	7.1.3 Pediatrics	14
	7.1.4 Geriatrics.....	15
8	Adverse Reactions	15
	8.1 Adverse Reaction Overview.....	15
	8.2 Clinical Trial Adverse Reactions	16
	8.2.1 Clinical Trial Adverse Reactions – Pediatrics	23
	8.3 Less Common Clinical Trial Adverse Reactions.....	23
	8.5 Post-Market Adverse Reactions.....	23
9	Drug Interactions.....	23
	9.4 Drug-Drug Interactions	23
	9.5 Drug-Food Interactions	24
	9.6 Drug-Herb Interactions	24
	9.7 Drug-Laboratory Test Interactions	24
10	Clinical Pharmacology	24
	10.1 Mechanism of Action.....	24
	10.2 Pharmacodynamics	25
	10.3 Pharmacokinetics.....	25
	10.4 Immunogenicity.....	27
11	Storage, Stability, and Disposal	29
12	Special Handling Instructions	29
	Part 2: Scientific Information	30
13	Pharmaceutical Information	30
14	Clinical Trials	31
	14.1 Clinical Trials by Indication.....	31
	<u>Plaque Psoriasis - Adults.....</u>	<u>31</u>
	<u>Plaque Psoriasis – Pediatrics (6 to 17 years of age).....</u>	<u>35</u>
	<u>Psoriatic Arthritis - Adults.....</u>	<u>38</u>

<u>Psoriatic Arthritis – Pediatrics (6 to 17 years of age)</u>	42
<u>Crohn's Disease</u>	43
<u>Ulcerative Colitis</u>	47
16 Non-clinical Toxicology	55
Patient Medication Information (TREMFYA)	57
Instructions For Use (TREMFYA 45 mg VarioJect Injector)	66
Instructions For Use (TREMFYA 100 mg Pre-filled Syringe).....	77
Instructions For Use (TREMFYA 200 mg Pre-filled Syringe).....	85
Instructions For Use (TREMFYA 100 mg Pen)	95
Instructions For Use (TREMFYA 200 mg Pen)	106
Instructions For Use (TREMFYA One-Press)	117
Patient Medication Information (TREMFYA I.V.)	125

Part 1: Health Professional Information

Guselkumab administered subcutaneously will be referred to throughout the Product Monograph as TREMFYA. Guselkumab administered through intravenous infusion will be referred to throughout the Product Monograph as TREMFYA I.V.

1 Indications

Plaque Psoriasis

TREMFYA (guselkumab injection) is indicated for:

- the treatment of adult patients with moderate-to-severe plaque psoriasis who are candidates for systemic therapy or phototherapy.

Psoriatic Arthritis

TREMFYA (guselkumab injection) is indicated for:

- the treatment of adult patients with active psoriatic arthritis. TREMFYA can be used alone or in combination with a conventional disease-modifying antirheumatic drug (cDMARD) (e.g., methotrexate).

Crohn's disease

TREMFYA/TREMFYA I.V. (guselkumab injection/guselkumab for injection) is indicated for:

- the treatment of adult patients with moderately to severely active Crohn's disease.

Ulcerative Colitis

TREMFYA/TREMFYA I.V. (guselkumab injection/guselkumab for injection) is indicated for:

- the treatment of adult patients with moderately to severely active ulcerative colitis.

1.1 Pediatrics

Plaque Psoriasis

- (6 years to 17 years): TREMFYA (guselkumab injection) is indicated for the treatment of pediatric patients 6 years of age and older with moderate to severe plaque psoriasis who are candidates for systemic therapy or phototherapy (see [4.1 Dosing Considerations](#)).
- (< 6 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric patients less than 6 years of age.

Psoriatic Arthritis

- (6 years to 17 years): TREMFYA (guselkumab injection) is indicated in pediatric patients 6 years of age and older with active psoriatic arthritis supported by model-based extrapolation (see [4.1 Dosing Considerations](#) and [14.1 Clinical Trials by Indication - Psoriatic Arthritis – Pediatrics \(6 to 17 years of age\)](#)).

- (< 6 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric patients less than 6 years of age.

Crohn's Disease:

- (< 18 years): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

Ulcerative Colitis:

- (< 18 years): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

The safety and efficacy of TREMFYA I.V. in pediatric patients have not been evaluated.

1.2 Geriatrics

Of the 3406 adult plaque psoriasis and psoriatic arthritis subjects exposed to TREMFYA in Phase 2 and Phase 3 clinical trials, a limited number of subjects were 65 years or older (n = 185, 5%) or 75 years and older (n=13, 0.4%). Of the 1089 Crohn's disease subjects exposed to TREMFYA/TREMFYA I.V. in clinical trials, 40 were 65 years or older, and 5 were 75 years or older. Of the 1228 ulcerative colitis subjects exposed to TREMFYA/TREMFYA I.V. in clinical trials, 69 were 65 years or older, and 14 were 75 years or older. Thus, data in these age groups are limited (see [10 Clinical Pharmacology](#)).

2 Contraindications

TREMFYA/TREMFYA I.V. is contraindicated in patients with

- known serious hypersensitivity to guselkumab or any of the components (see [7 Warnings and Precautions](#)). For a complete listing of components, see the [6 Dosage forms, Strengths, Composition and Packaging](#) section.
- clinically important active infections (see [7 Warnings and Precautions](#))

4 Dosage and Administration

TREMFYA is administered by subcutaneous injection. TREMFYA I.V. is administered by intravenous infusion.

4.1 Dosing Considerations

TREMFYA/TREMFYA I.V. is intended for use under the guidance and supervision of a physician.

TREMFYA may be administered by a healthcare professional, or a caregiver, or an adult patient may self-inject after proper training in subcutaneous injection technique.

TREMFYA is not intended for pediatric self-administration. TREMFYA One-Press and TREMFYA I.V. are not intended for use in pediatric patients.

Recommended Evaluations and Immunizations Prior to Treatment Initiation

- Evaluate patients for tuberculosis (TB) infection according to the Canadian Tuberculosis Standards prior to initiating treatment with TREMFYA (see 7 Warnings and Precautions)
- If clinically indicated, evaluate liver enzymes and bilirubin levels prior to initiating treatment with TREMFYA (see 7 Warnings and Precautions).
- Complete all age-appropriate vaccinations according to current Canadian immunization guidelines (see 7 Warnings and Precautions).

The BioAdvance® Network has been established to facilitate the administration of TREMFYA/TREMFYA I.V. BioAdvance clinics are staffed by qualified healthcare professionals specially trained in the administration of TREMFYA/TREMFYA I.V. and care of patients with Crohn's disease or ulcerative colitis. BioAdvance clinics are available across Canada. Information about the BioAdvance Network and location of the nearest BioAdvance Network clinic can be obtained by calling Janssen Inc. Medical Information at: 1-800-567-3331.

4.2 Recommended Dose and Dosage Adjustment

Plaque psoriasis

Adults

The recommended dosage of TREMFYA is 100 mg administered by subcutaneous injection at week 0 and week 4, followed by maintenance dosing every 8 weeks thereafter.

Pediatric patients (6 years of age and older)

TREMFYA is administered by subcutaneous injection at Week 0, Week 4, and every 8 weeks thereafter.

- For pediatric patients 6 years of age and older who also weigh 40 kg or more, the recommended dose is 100 mg, administered using the 1 mL pre-filled syringe or 1 mL pre-filled pen.
- For pediatric patients 6 years of age and older who also weigh less than 40 kg, the recommended dose is shown below in
- Table 1, up to a maximum of 45 mg, administered using the 45 mg/0.45 mL variable dose injector.

Table 1: Recommended Dose of TREMFYA for Subcutaneous Injection in Pediatric Patients with Body Weight Less than 40 kg

Body Weight (kg) (at time of dosing)	Dose (mg)	Turn 45 mg/0.45 mL Variable Dose Injector Plunger to Dose Number
12-15 kg	20	20
16-19 kg	25	25
20-23 kg	30	30
24-26 kg	35	35
27-30 kg	40	40
31-39 kg	45	45

Psoriatic arthritis

Adults

The recommended dosage of TREMFYA is 100 mg administered by subcutaneous injection at week 0 and week 4, followed by maintenance dosing every 8 weeks thereafter.

TREMFYA can be used alone or in combination with a conventional disease-modifying antirheumatic drug (cDMARD) (e.g., methotrexate).

Pediatric patients (6 years of age and older)

TREMFYA is administered by subcutaneous injection at Week 0, Week 4, and every 8 weeks thereafter.

- For pediatric patients 6 years of age and older who also weigh 40 kg or more, the recommended dose is 100 mg, administered using the 1 mL pre-filled syringe or 1 mL pre-filled pen.
- For pediatric patients 6 years of age and older who also weigh less than 40 kg, the recommended dose is shown above in
- Table 1, up to a maximum of 45 mg, administered using the 45 mg/0.45 mL variable dose injector.

TREMFYA may be administered alone or in combination with a cDMARD (e.g., methotrexate).

Crohn's disease and Ulcerative Colitis

Induction:

The recommended induction dosage is:

- 200 mg of TREMFYA I.V. administered by intravenous infusion over a period of at least one hour at Week 0, Week 4 and Week 8.
- or
- 400 mg of TREMFYA administered by subcutaneous injection at Week 0, Week 4 and Week 8. Each 400 mg dose is given as two injections of 200 mg

Maintenance:

The recommended maintenance dosage is 100 mg of TREMFYA administered by subcutaneous injection at Week 16 and every 8 weeks thereafter.

A dose of 200 mg administered by subcutaneous injection at Week 12 and every 4 weeks thereafter may be considered for patients who do not show adequate therapeutic benefit to guselkumab, or according to clinical judgement (see [14 Clinical Trials](#)).

Immunomodulators and/or corticosteroids may be continued during treatment with TREMFYA. In patients who have responded to treatment with TREMFYA, corticosteroids may be reduced or discontinued in accordance with standard of care.

4.4 Administration

Subcutaneous Administration (TREMFYA)

TREMFYA is administered by subcutaneous injection.

The prescribed dose of TREMFYA should be injected according to the directions provided in the "Instructions for Use" document.

Before injection, remove TREMFYA from the refrigerator and allow TREMFYA to reach room temperature (30 minutes) without removing the needle cap.

Inspect TREMFYA visually for particulate matter and discolouration prior to administration. TREMFYA is a clear and colourless to light yellow solution. Do not use if the liquid contains large particles, is discoloured or cloudy. Discard any unused product remaining after injection.

Adult use

TREMFYA is intended for use under the guidance and supervision of a physician. TREMFYA may be administered by a healthcare professional, or a caregiver, or an adult patient may self-inject after proper training in subcutaneous injection technique.

Pediatric use

TREMFYA One-Press is not intended for use in pediatric patients.

TREMFYA is not intended for pediatric self-administration.

TREMFYA is intended for use under the guidance and supervision of a physician. TREMFYA may be administered by a healthcare professional, or an adult caregiver who has received proper training and demonstrated proper subcutaneous injection technique.

It is recommended that the caregiver's first injection be supervised by a healthcare professional.

A caregiver may inject Tremfya if a healthcare professional deems that this is appropriate.

Physicians should ensure appropriate medical follow-up for pediatric patients receiving TREMFYA injections at home.

Intravenous Infusion (TREMFYA I.V.)

TREMFYA I.V. is for IV infusion only. Intravenous infusion of TREMFYA I.V. should be administered by qualified healthcare professionals. TREMFYA I.V. is not intended for use in pediatric patients.

TREMFYA I.V. solution for intravenous infusion must be diluted, prepared and infused by a healthcare professional using aseptic technique. TREMFYA I.V. does not contain preservatives.

Each vial is for single use only.

Inspect TREMFYA I.V. visually for particulate matter and discolouration prior to administration. TREMFYA I.V. is a clear and colourless to light yellow solution that may contain small translucent particles. Do not use if the liquid contains large particles, is discoloured or cloudy. Add TREMFYA I.V. to a 250 mL intravenous infusion bag of 0.9% Sodium Chloride Injection as follows:

1. Withdraw and then discard 20 mL of the 0.9% Sodium Chloride Injection from the 250 mL infusion bag which is equal to the volume of TREMFYA I.V. to be added.
2. Withdraw 20 mL of TREMFYA I.V. from the vial and add it to the 250 mL intravenous infusion bag of 0.9% Sodium Chloride Injection for a final concentration of 0.8 mg/mL. Gently mix the diluted solution. Discard the vial with any remaining solution.
3. Visually inspect the diluted solution for particulate matter and discolouration before infusion. Infuse the diluted solution over a period of at least one hour.
4. Use only an infusion set with an in-line, sterile, non-pyrogenic, low protein binding filter (pore size 0.2 micrometer).
5. Do not infuse TREMFYA I.V. concomitantly in the same intravenous line with other medicinal products.
6. Dispose any unused medicinal product in accordance with local requirements.

4.5 Missed Dose

Patients who miss a dose of TREMFYA should be advised to inject this missed dose as soon as they become aware of it, and then follow with their next regularly scheduled dose.

5 Overdose

Intravenous doses up to 1200 mg as well as subcutaneous doses up to 400 mg at a single dosing visit have been administered in clinical studies without dose-limiting toxicity. In the event of overdosage, monitor the patient for any signs or symptoms of adverse reactions and administer appropriate symptomatic treatment immediately.

For the most recent information in the management of a suspected drug overdose, contact your regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669).

6 Dosage Forms, Strengths, Composition, and Packaging

To help ensure the traceability of biologic products, including biosimilars, health professionals should recognize the importance of recording both the brand name and the non-proprietary (active ingredient) name as well as other product-specific identifiers such as the Drug Identification Number (DIN) and the batch/lot number of the product supplied.

Table 2: Dosage Forms, Strengths and Composition

Route of Administration	Dosage Form / Strength	Clinically Relevant Nonmedicinal Ingredients
-------------------------	------------------------	--

Subcutaneous Injection (SC)	Sterile solution for injection in a variable dose injector, 45 mg/ 0.45 mL (100 mg/ mL)	L-histidine, L-histidine monohydrochloride monohydrate, polysorbate 80, sucrose and water for injection
Subcutaneous Injection (SC)	Sterile solution for injection in pre-filled syringe: 200 mg / 2mL (100 mg / mL), 100 mg / 1 mL	L-histidine, L-histidine monohydrochloride monohydrate, polysorbate 80, sucrose and water for injection
Subcutaneous Injection (SC)	Sterile solution for injection in a patient-controlled injector: 100 mg / 1 mL	L-histidine, L-histidine monohydrochloride monohydrate, polysorbate 80, sucrose and water for injection
Subcutaneous Injection (SC)	Sterile solution for injection in a single-dose pen: 200 mg / 2mL (100 mg / mL) 100 mg / 1 mL	L-histidine, L-histidine monohydrochloride monohydrate, polysorbate 80, sucrose and water for injection
Intravenous Infusion (IV)	Sterile solution in single-use vial: 200 mg / 20 mL (10 mg / mL)	EDTA disodium dihydrate, L-histidine, L-histidine monohydrochloride monohydrate, L-methionine, polysorbate 80, sucrose and water for injection

TREMFYA/TREMFYA I.V. (guselkumab injection) is a fully human immunoglobulin G1 lambda (IgG1λ) monoclonal antibody (mAb) that binds selectively to the extracellular human interleukin 23 (IL-23) protein with high specificity and affinity. Guselkumab is produced in a mammalian cell line using recombinant DNA technology.

TREMFYA

TREMFYA is supplied as:

- Variable dose injector: A sterile solution in a single-dose glass syringe with a 27G, half-inch fixed needle assembled in a variable dose injector packaged in a carton, containing:
 - 45 mg guselkumab (100 mg/mL in a 0.45 mL fill volume). The variable dose injector called VarioJect® injector delivers a dose between 10 mg and 45 mg in 5 mg increments; for pediatric patients weighing less than 40 kg.
- Pre-filled syringe: A sterile solution in a single-dose glass syringe with a 27G, half inch fixed needle assembled in a passive needle guard delivery system packaged in a carton, containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume) for adults and pediatric patients weighing 40 kg or more.
 - 200 mg guselkumab (100 mg/mL in a 2 mL fill volume) for adults.
- Pen: A sterile solution in a single-dose glass syringe with a 27G, half-inch fixed needle assembled in a pre-filled pen packaged in a carton, containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume) for adults and pediatric patients weighing 40 kg or more.
 - 200 mg guselkumab (100 mg/mL in a 2 mL fill volume) for adults.
- TREMFYA One-Press: A sterile solution in a single-dose glass syringe with a 27G, half inch fixed needle assembled in a patient-controlled injector packaged in a carton, containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume) for adults.

TREMFYA does not contain preservatives. TREMFYA contains Polysorbate 80, an excipient with known effect.

The TREMFYA pre-filled syringe, pen, and TREMFYA One-Press needle guard and plunger stopper are not made with natural rubber latex.

TREMFYA I.V.

TREMFYA I.V. is supplied as a sterile solution for intravenous infusion in a single-use type 1 glass vial containing 200 mg guselkumab (10 mg/mL in a 20 mL volume) packaged in a carton.

TREMFYA I.V. does not contain preservatives. TREMFYA I.V. contains Polysorbate 80, an excipient with known effect.

7 Warnings and Precautions

General

Infections

TREMFYA/TREMFYA I.V. is a selective immunomodulatory agent which has the potential to increase the risk of infection. Infections have been observed in clinical trials in plaque psoriasis (23% vs 21% for placebo; $\leq 0.2\%$ serious infections in both groups) and psoriatic arthritis (21% in both TREMFYA and placebo groups; $\leq 0.8\%$ serious infections in both groups). A similar risk of infection was seen in the placebo-controlled trials in subjects with Crohn's disease and in subjects with ulcerative colitis. The most common type of infection reported was respiratory tract infection (See [8 Adverse Reactions](#), Infections).

Treatment with TREMFYA/TREMFYA I.V. should not be initiated in patients with any clinically important active infection until the infection resolves or is adequately treated (see 2 Contraindications).

Instruct patients treated with TREMFYA/TREMFYA I.V. to seek medical advice if signs or symptoms of clinically important chronic or acute infection occur. If a patient develops a clinically important or serious infection or is not responding to standard therapy, monitor the patient closely and discontinue TREMFYA/TREMFYA I.V. until the infection resolves.

Tuberculosis

Evaluate patients for TB infection according to the Canadian Tuberculosis Standards prior to initiating treatment with TREMFYA/TREMFYA I.V. Initiate treatment of latent TB prior to administering TREMFYA/TREMFYA I.V. Patients receiving TREMFYA/TREMFYA I.V. should be monitored for signs and symptoms of active TB during and after treatment. Do not administer TREMFYA/TREMFYA I.V. to patients with active TB infection. Consider anti-TB therapy prior to initiating TREMFYA/TREMFYA I.V. in patients with a past history of latent or active TB in whom an adequate course of treatment cannot be confirmed.

Hepatotoxicity

A serious adverse reaction of drug-induced liver injury was reported in a clinical trial subject with Crohn's disease following three doses of a higher than the recommended induction regimen (see [8.2 Clinical Trial Adverse Reactions](#)).

If clinically indicated, evaluate liver enzymes and bilirubin at baseline, and periodically thereafter according to routine patient management.

Consider other treatment options in patients with evidence of acute liver disease or cirrhosis. Prompt investigation of the cause of liver enzyme elevation is recommended to identify potential cases of drug-induced liver injury. Interrupt treatment if drug-induced liver injury is suspected, until this diagnosis is excluded. Instruct patients to seek immediate medical attention if they experience symptoms suggestive of hepatic dysfunction (see [8.2 Clinical Trial Adverse Reactions](#)).

Immune

Vaccinations

Prior to initiating therapy with TREMFYA/TREMFYA I.V., consider completion of all age appropriate immunizations according to current Canadian immunization guidelines. Avoid use of live vaccines in patients treated with TREMFYA/TREMFYA I.V. Medications that interact with the immune system may increase the risk of infection following administration of live vaccines (see [9 Drug Interactions](#)). No data are available on the response to live or inactive vaccines.

Reproductive Health

- **Fertility**

The effect of TREMFYA/TREMFYA I.V. on human fertility has not been evaluated. No guselkumab-related effects on fertility parameters were identified in a female fertility study conducted in guinea pigs. In a male guinea pig fertility study, total litter loss was observed in a limited subset of untreated females following administration of males with guselkumab at a subcutaneous dose of 100 mg/kg twice weekly (AUC_{last} was 43-fold greater than the human exposure following a dose of 200 mg given subcutaneously). This observation was not repeated in a second male fertility study. No effects were observed at 25 mg/kg (AUC_{last} was 10-fold greater than the human exposure) (see [16 Non-clinical Toxicology](#)).

Sensitivity/Resistance

Hypersensitivity

Serious hypersensitivity reactions, including anaphylaxis, have been reported in the postmarketing setting. Some serious hypersensitivity reactions occurred several days after treatment with TREMFYA, including cases with urticaria and dyspnea. If a serious hypersensitivity reaction occurs, appropriate therapy should be instituted and administration of TREMFYA/TREMFYA I.V. should be discontinued.

7.1 Special Populations

7.1.1 Pregnancy

The use of TREMFYA/TREMFYA I.V. in pregnant women has not been studied. The effect of TREMFYA/TREMFYA I.V. on human pregnancy is unknown. Studies in cynomolgus monkeys showed that guselkumab crosses the placental barrier. Fetal losses and neonatal deaths occurred in the offspring of pregnant monkeys administered weekly subcutaneous injections of guselkumab from the beginning of organogenesis until parturition (AUC_{last} was 7-fold greater than human levels following a dose of 200 mg given subcutaneously). A drug-related effect could not be ruled out. No adverse developmental effects were observed in surviving infants.

Animal studies are not always predictive of human response, and therefore, the clinical significance of these findings is unknown (see [16 Non-clinical Toxicology](#)).

Women of childbearing potential should use adequate contraception while using TREMFYA/TREMFYA I.V. and for at least 12 weeks after the last TREMFYA/TREMFYA I.V. dose. TREMFYA/TREMFYA I.V. should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

To monitor outcomes in women exposed to TREMFYA/TREMFYA I.V. during pregnancy, a pregnancy registry has been established. Healthcare professionals are encouraged to register patients and pregnant women are encouraged to enroll themselves by calling 1-877-311- 8972.

7.1.2 Breastfeeding

There are no data on the presence of guselkumab in human milk, the effects on the breastfed infant, or the effects on milk production. Guselkumab was not detected in the milk of lactating cynomolgus monkeys (see [16 Non-clinical toxicology](#)). The developmental and health benefits of breastfeeding should be considered, as well as any potential adverse effects on the breastfed infant.

7.1.3 Pediatrics

Plaque Psoriasis

- **Pediatrics (6 years to 17 years):** The safety and efficacy of TREMFYA have been established in pediatric patients 6 to 17 years of age with moderate-to-severe plaque psoriasis. Pediatric patients weighing 40–50 kg receiving a 100 mg guselkumab dose may experience higher exposure levels. Data are limited to characterize safety at these exposure levels in pediatric patients. Therefore, appropriate clinical monitoring is recommended (see [10.3 Pharmacokinetics](#), [14.1 Clinical Trials by Indication](#), and [4.2 Recommended Dose and Dosage Adjustment](#)).
- **Pediatrics (< 6 years of age):** No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

Psoriatic Arthritis

- **Pediatrics (6 years to 17 years):** No clinical data are available to Health Canada for pediatric patients with active psoriatic arthritis. The use of TREMFYA in pediatric patients 6 to 17 years of age with active juvenile psoriatic arthritis is supported by model-based extrapolation from studies of TREMFYA in adults and pediatric subjects with plaque psoriasis and adults with psoriatic arthritis, including efficacy, safety, and pharmacokinetic data (see [8.2.1 Clinical Trial Adverse Reactions – Pediatrics](#) and [14.1 Clinical trials by Indication - Plaque Psoriasis – Pediatrics \(6 to 17 years of age\)](#), [10.3 Pharmacokinetics](#), and [4.2 Recommended Dose and Dosage Adjustment](#)).
- **Pediatrics (< 6 years of age):** No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

Crohn's disease and Ulcerative Colitis

Pediatrics (< 18 years of age): No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

7.1.4 Geriatrics

Of the 3406 adult plaque psoriasis and psoriatic arthritis subjects exposed to TREMFYA in Phase 2 and Phase 3 clinical trials, a limited number of subjects were 65 years or older (n = 185, 5%) or 75 years and older (n=13, 0.4%). Of 1089 Crohn's disease subjects exposed to TREMFYA/TREMFYA I.V. in clinical trials, 40 were 65 years or older, and 5 were 75 years or older. Of 1228 ulcerative colitis subjects exposed to TREMFYA/TREMFYA I.V. in clinical trials, 69 were 65 years or older, and 14 were 75 years or older. Thus data in these age groups are limited (see [10 Clinical Pharmacology](#)).

8 Adverse Reactions

8.1 Adverse Reaction Overview

The most frequently reported adverse drug reaction (>10%) through the placebo-controlled period of the phase 3 plaque psoriasis and psoriatic arthritis clinical trials in TREMFYA-treated subjects was respiratory tract infections.

In the placebo-controlled period of the phase 3 studies in plaque psoriasis, the proportion of TREMFYA-treated subjects who discontinued treatment due to adverse events was 1.3% (11/823) compared to 0.9% (8/422) in placebo-treated subjects. Serious adverse events were reported in 1.9% (16/823) of TREMFYA-treated subjects and 1.4% (6/422) of placebo-treated subjects through 16 weeks.

In the placebo-controlled period of the phase 3 studies in psoriatic arthritis, the proportion of TREMFYA-treated subjects who discontinued treatment due to adverse events was 1.7% (13/748) compared to 1.9% (7/372) in placebo-treated subjects. Serious adverse events were reported in 2.0% (15/748) of TREMFYA-treated subjects and 3.2% (12/372) of placebo-treated subjects through 24 weeks.

In the pooled Phase 2/3 GALAXI studies in Crohn's disease, the proportion of TREMFYA I.V.-treated subjects who discontinued treatment due to adverse events was 1.7% (11/649) compared to 4.3% (9/211) in placebo-treated subjects through 12 weeks. Serious adverse events were reported in 2.9% (19/649) of TREMFYA I.V.-treated subjects and 6.2% (13/211) of placebo-treated subjects through 12 weeks.

In the 12-week phase 3 induction study in ulcerative colitis, the proportion of TREMFYA I.V.-treated subjects who discontinued treatment due to adverse events was 1.7% (7/421) compared to 3.9% (11/280) in placebo-treated subjects. Serious adverse events were reported in 2.9% (12/421) of TREMFYA I.V.-treated subjects and 7.1% (20/280) of placebo-treated subjects through 12 weeks.

In the placebo-controlled phase 3 ASTRO study, the proportion of TREMFYA-treated subjects who discontinued treatment due to adverse events was 1.1% (3/279) compared to 5.8% (8/139) in placebo-treated subjects through 12 weeks. Serious adverse events were reported in 2.5% (7/279) of TREMFYA-treated subjects and 7.9% (11/139) of placebo-treated subjects through

12 weeks.

Overall, the safety profile of TREMFYA/TREMFYA I.V. was generally similar across indications.

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. Therefore, the frequency of adverse reactions observed in clinical trials may not reflect frequencies observed in clinical practice and should not be compared to frequencies reported in clinical trials of another drug.

Adults

The safety profile of TREMFYA in plaque psoriasis and psoriatic arthritis is based on data from the Phase 2 (PSO2001) and Phase 3 (VOYAGE 1, VOYAGE 2, NAVIGATE, and ORION) studies in plaque psoriasis and the Phase 2 (PSA2001) and the Phase 3 (DISCOVER 1 and DISCOVER 2) studies in psoriatic arthritis. Of the 3406 TREMFYA-treated subjects, 2716 subjects were exposed for at least 1 year, and 1917, 1482, 1393 and 950 subjects were exposed for at least 2, 3, 4 and 5 years, respectively. Most subjects (n=2516) received a dosage regimen of 100 mg TREMFYA as subcutaneous injection every 8 weeks. In the phase 3 psoriatic arthritis trials 725 subjects (including placebo crossovers) received a dosage regimen of 100 mg TREMFYA as subcutaneous injection every 4 weeks.

The safety profile of TREMFYA/TREMFYA I.V. in Crohn's disease is based on data from the Phase 2 (GALAXI 1) and Phase 3 (GALAXI 2, GALAXI 3, GRAVITI) studies in 1089 subjects with Crohn's disease.

The safety profile of TREMFYA/TREMFYA I.V. in ulcerative colitis is based on data from Phase 2 (QUASAR induction dose-ranging study) and Phase 3 (ASTRO, QUASAR induction study [IS] and QUASAR maintenance study [MS]) studies in 1228 subjects with ulcerative colitis.

Adverse Drug Reactions in Plaque Psoriasis Trials

Table 3 provides a summary of adverse reactions that occurred at a rate of at least 1% and at a higher rate in the TREMFYA group than in the placebo group during the 16-week, placebo-controlled period of the pooled clinical trials, VOYAGE 1 and VOYAGE 2.

Table 3: Adverse reactions reported by ≥1% of subjects through Week 16 in VOYAGE 1 and VOYAGE 2

	Placebo N = 422 n (%)	TREMFYA ^a N = 823 n (%)	Adalimumab ^b N = 581 n (%)
Gastrointestinal disorders			
Diarrhea	4 (0.9%)	13 (1.6%)	7 (1.2%)
General disorders and administration site conditions			
Injection site reactions ^c	12 (2.8%)	37 (4.5%)	42 (7.2%)
Infections and Infestations			

Upper respiratory infections ^d	54 (12.8%)	118 (14.3%)	80 (13.8%)
Gastroenteritis ^e	4 (0.9%)	11 (1.3%)	8 (1.4%)
Herpes simplex infections ^f	2 (0.5%)	9 (1.1%)	8 (1.4%)
Tinea infections ^g	0	9 (1.1%)	3 (0.5%)
Musculoskeletal and connective tissue disorders			
Arthralgia	9 (2.1%)	22 (2.7%)	11 (1.9%)
Nervous system disorders			
Headache ^h	14 (3.3%)	38 (4.6%)	18 (3.1%)

^a Subjects received 100 mg of TREMFYA at Week 0, Week 4, and every 8 weeks thereafter;

^b Subjects received adalimumab at 80 mg Week 0, 40 mg week 1 then 40 mg q2w thereafter

^c Injection site reactions include injection site erythema, bruising, hematoma, hemorrhage, swelling, edema, pruritus, pain, discoloration, induration, inflammation, and urticaria.

^d Upper respiratory infections include nasopharyngitis, upper respiratory tract infection (URTI), pharyngitis, and viral URTI.

^e Gastroenteritis includes gastroenteritis and viral gastroenteritis

^f Herpes simplex infections include oral herpes, herpes simplex, genital herpes, genital herpes simplex, and nasal herpes simplex.

^g Tinea infections include tinea pedis, tinea cruris, tinea infection, and tinea manuum infections.

^h Headache includes headache and tension headache.

Safety profile through Week 264 in Plaque Psoriasis Trials

Through week 48 of VOYAGE 1 and VOYAGE 2, the types and the frequency of the adverse reactions in the TREMFYA-treated subjects were similar to those observed during the first 16 weeks of treatment.

Among 1221 subjects who were initially randomized to TREMFYA or who crossed over from placebo, 1119 subjects received open-label TREMFYA in the uncontrolled extension periods of VOYAGE 1 and VOYAGE 2. Through up to 5 years (N=1221; median duration of follow-up of 262.1 weeks [Range: 1-276]), the safety profile of TREMFYA was consistent with that observed in the controlled periods of VOYAGE 1 and VOYAGE 2.

Adverse Drug Reactions in Psoriatic Arthritis Trials

Table 4 provides a summary of adverse reactions that occurred at a rate of at least 1% and at a higher rate in the TREMFYA group than in the placebo group during the 24-week, placebo-controlled period of the pooled clinical trials, DISCOVER 1 and DISCOVER 2.

Table 4: Adverse reactions reported by ≥1% of subjects through Week 24 in DISCOVER 1 and DISCOVER 2

	Placebo N = 372 n (%)	TREMFYA q8w ^a N = 375 n (%)	TREMFYA q4w ^b N = 373 n (%)
Gastrointestinal disorders			
Diarrhea	3 (0.8%)	6 (1.6%)	4 (1.1%)

General disorders and administration site conditions			
Injection site reactions ^c	1 (0.3%)	5 (1.3%)	3 (0.8%)
Infections and Infestations			
Respiratory tract infections ^d	45 (12.1%)	46 (12.3%)	52 (13.9%)
Investigations			
Transaminases increased ^e	17 (4.6%)	31 (8.3%)	32 (8.6%)
Neutrophil count decreased ^f	3 (0.8%)	7 (1.9%)	7 (1.9%)
Nervous system disorders			
Headache ^g	3 (0.8%)	8 (2.1%)	7 (1.9%)

^a Subjects received 100 mg of TREMFYA at Week 0, Week 4, and every 8 weeks thereafter

^b Subjects received 100 mg of TREMFYA at Week 0, Week 4, and every 4 weeks thereafter

^c Injection site reactions include injection site erythema, bruising, hematoma, hemorrhage, swelling, edema, pruritus, pain, discolouration, induration, inflammation, and urticaria.

^d Respiratory tract infections include nasopharyngitis, upper respiratory tract infection (URTI), bronchitis, pharyngitis, and viral URTI.

^e Transaminases increased includes alanine aminotransferase increased, aspartate aminotransferase increased, hepatic enzyme increased, transaminases increased, liver function test abnormal, hypertransaminasaemia

^f Neutrophil count decreased includes neutrophil count decreased and neutropenia

^g Headache includes headache and tension headache.

Among the 1120 adult subjects with active psoriatic arthritis from DISCOVER 1 and DISCOVER 2, who were initially randomized to TREMFYA or placebo, 1074 subjects (including those who crossed over from placebo) received TREMFYA at or after week 24 in the double-blind, not placebo-controlled, active treatment periods of DISCOVER 1 and DISCOVER 2. Through 1 year in DISCOVER 1 and 2 years in DISCOVER 2, the safety profile of TREMFYA was consistent with that observed in the controlled periods.

Adverse Drug Reactions in Crohn's Disease Trials

GALAXI

The clinical trials GALAXI 1, GALAXI 2, and GALAXI 3 enrolled 1349 subjects, of whom 649 subjects were randomized to receive TREMFYA I.V. 200 mg by IV infusion at Week 0, 4 and 8 followed by a maintenance dose of either TREMFYA 200 mg SC at Week 12 and every 4 weeks thereafter or TREMFYA 100 mg SC at Week 16 and every 8 weeks thereafter.

Table 5 provides a summary of adverse reactions that occurred at a rate of at least 3% and at a higher rate in the TREMFYA/TREMFYA I.V. group than in the placebo group through Week 48 in the pooled analysis.

Table 5: Adverse Reactions Occurring in ≥3% of Subjects through Week 48 in GALAXI 1, GALAXI 2, and GALAXI 3

	Placebo N=211 n (%)	TREMFYA I.V. 200 mg → 100 mg q8w SC N=353 n (%)	TREMFYA I.V. 200 mg → 200 mg q4w SC N=296 n (%)
Gastrointestinal disorders			
Diarrhea	3 (1.4%)	12 (3.4%)	8 (2.7%)
General disorders and administration site conditions			
Injection site reactions ^a	0	11 (3.1%)	10 (3.4%)
Infections and Infestations			
Respiratory tract infections ^b	30 (14.2%)	97 (27.5%)	100 (33.8%)
Gastroenteritis ^c	2 (0.9%)	10 (2.8%)	9 (3.0%)
Investigations			
Transaminases increased ^d	3 (1.4%)	11 (3.1%)	11 (3.7%)
Musculoskeletal and connective tissue disorders			
Arthralgia	8 (3.8%)	29 (8.2%)	25 (8.4%)
Nervous system disorders			
Headache ^e	6 (2.8%)	17 (4.8%)	24 (8.1%)
Skin and subcutaneous tissue disorders			
Rash ^f	4 (1.9%)	8 (2.3%)	10 (3.4%)

^a Injection site reactions includes injection site erythema, injection site bruising, injection site haematoma, injection site haemorrhage, injection site swelling, injection site oedema, injection site pruritus, injection site pain, injection site discolouration, injection site induration, injection site inflammation, injection site urticaria.

^b Respiratory tract infections includes nasopharyngitis, upper respiratory tract infection (URTI), bronchitis, pharyngitis, viral URTI, COVID-19, influenza.

^c Gastroenteritis includes gastroenteritis, gastroenteritis viral

^d Transaminases increased includes alanine aminotransferase increased, aspartate aminotransferase increased, hepatic enzyme increased, transaminases increased, liver function test abnormal, hypertransaminasaemia.

^e Headache includes headache, tension headache.

^f Rash includes rash, rash erythematous, rash papular, rash pruritic.

GRAVITI

The clinical trial GRAVITI evaluated 347 subjects, of whom 230 subjects were randomized to receive TREMFYA 400 mg SC at Week 0, 4 and 8 followed by a maintenance dose of either TREMFYA 200 mg SC at Week 12 and every 4 weeks thereafter or TREMFYA 100 mg SC at Week 16 and every 8 weeks thereafter.

Table 6 provides a summary of adverse reactions that occurred at a rate of at least 3% and at a higher rate in the TREMFYA/TREMFYA I.V. group than in the placebo group through Week 48.

Table 6: Adverse Reactions Occurring in ≥3% of Subjects through Week 48 in GRAVITI

	Placebo N=117 n (%)	TREMFYA 400 mg SC Induction→ 100 mg q8w SC N=115 n (%)	TREMFYA 400 mg SC Induction→ 200 mg q4w SC N=115 n (%)
Gastrointestinal disorders			
Diarrhea	3 (2.6%)	6 (5.2%)	4 (3.5%)
Infections and Infestations			
Respiratory tract infections ^a	29 (24.8%)	38 (33.0%)	35 (30.4%)
Gastroenteritis ^b	1 (0.9%)	5 (4.3%)	3 (2.6%)
Musculoskeletal and connective tissue disorders			
Arthralgia	4 (3.4%)	6 (5.2%)	5 (4.3%)
Nervous system disorders			
Headache ^c	5 (4.3%)	7 (6.1%)	9 (7.8%)

^a Respiratory tract infections includes nasopharyngitis, upper respiratory tract infection (URTI), bronchitis, pharyngitis, viral URTI, COVID-19, influenza.

^b Gastroenteritis includes gastroenteritis, gastroenteritis viral

^c Headache includes headache, tension headache.

Adverse Drug Reactions in Ulcerative Colitis Trials

Adverse reactions that occurred at a rate of at least 2% and at a higher rate in the TREMFYA I.V. group than in the placebo group during the 12-week induction studies QUASAR induction dose-ranging study and QUASAR IS were rash (includes rash erythematous, rash papular, and rash pruritic).

Table 7 provides a summary of adverse reactions that occurred at a rate of at least 3% and at a higher rate in the TREMFYA group than in the placebo group during the 44-week maintenance study QUASAR-MS.

Table 7: Adverse reactions reported by ≥3% of subjects through Week 44 in QUASAR-MS

	Placebo N = 192 n (%)	TREMFYA 100 mg Q8w ^a N = 186 n (%)	TREMFYA 200 mg Q4w ^b N = 190 n (%)
General disorders and administration site conditions			
Injection site reactions ^c	2 (1.0%)	2 (1.1%)	9 (4.7%)
Infections and Infestations			
Respiratory tract infections ^d	18 (9.4%)	15 (8.1%)	26 (13.7%)
Gastroenteritis ^e	3 (1.6%)	2 (1.1%)	6 (3.2%)
Musculoskeletal and connective tissue disorders			
Arthralgia	13 (6.8%)	8 (4.3%)	15 (7.9%)

- ^a TREMFYA 100 mg as a subcutaneous injection every 4 weeks after the induction regimen
- ^b TREMFYA 200 mg as a subcutaneous injection every 4 weeks after the induction regimen.
- ^c Injection site reactions includes: Injection site erythema, injection site bruising, injection site hematoma, injection site hemorrhage, injection site swelling, injection site edema, injection site pruritus, injection site pain, injection site discolouration, injection site induration, injection site inflammation, injection site urticaria.
- ^d Respiratory tract infections includes: nasopharyngitis, upper respiratory tract infection, bronchitis, pharyngitis, viral upper respiratory tract infection.
- ^e Gastroenteritis includes: Gastroenteritis, Gastroenteritis viral.

The clinical trial ASTRO evaluated 418 subjects, of whom 279 were randomized to receive TREMFYA 400 mg SC at Week 0, 4, and 8 followed by a maintenance dose of either TREMFYA 200 mg SC at Week 12 and every 4 weeks thereafter or TREMFYA 100 mg SC at Week 16 and every 8 weeks thereafter.

Table 8 provides a summary of adverse reactions that occurred at a rate of at least 3% and at a higher rate in the TREMFYA group than in the placebo group through Week 12.

Table 8: Adverse reactions reported by ≥3% of subjects through Week 12 in ASTRO

	Placebo N=139 n (%)	TREMFYA 400 mg SC q4w N=279 n (%)
General disorders and administration site conditions		
Injection site reactions ^a	2 (1.4%)	13 (4.7%)
Musculoskeletal and connective tissue disorders		
Arthralgia	1 (0.7%)	11 (3.9%)
Nervous system disorders		
Headache ^b	2 (1.4%)	10 (3.6%)

^a Injection site reactions includes injection site erythema, injection site bruising, injection site haematoma, injection site haemorrhage, injection site swelling, injection site oedema, injection site pruritus, injection site pain, injection site discolouration, injection site induration, injection site inflammation, injection site urticaria.

^b Headache includes headache, tension headache.

The safety profile of TREMFYA was consistent through Week 12 and through Week 24.

Infections

Infections have been observed in clinical trials in plaque psoriasis (23% for TREMFYA vs 21% for placebo; ≤ 0.2% serious infections in both groups) and psoriatic arthritis (21% in both TREMFYA and placebo groups; ≤ 0.8% serious infections in both groups). A similar risk of infection was seen in the placebo-controlled trials in subjects with Crohn's disease and in subjects with ulcerative colitis.

In plaque psoriasis or psoriatic arthritis trials, adverse events of infection reported in ≥ 1% of subjects treated with TREMFYA through the placebo-controlled period were respiratory tract infections, gastroenteritis, tinea infections, and herpes simplex infections.

Elevated Liver Enzymes

During the placebo-controlled period of the plaque psoriasis clinical trials, adverse events of increases in liver enzymes were reported in 2.6% of TREMFYA treated subjects and 1.9% of placebo-treated subjects. None of these events led to discontinuation of TREMFYA treatment.

During the placebo-controlled period of the two phase 3 psoriatic arthritis clinical trials, adverse events of transaminases increased (includes alanine aminotransferase (ALT) increased, aspartate aminotransferase (AST) increased, hepatic enzyme increased, transaminases increased, liver function test abnormal, and hypertransaminasaemia) were reported more frequently in the TREMFYA-treated subjects (8.3% of q8w group, and 8.6% of q4w group) than in the placebo-treated subjects (4.6%).

Based on laboratory assessments, an increased incidence of liver enzyme elevations was observed in subjects treated with TREMFYA q4w compared to subjects treated with TREMFYA q8w or placebo. Most transaminase increases (ALT and AST) were ≤ 3 x upper limit of normal (ULN). Transaminase increases from > 3 to ≤ 5 x ULN and > 5 x ULN were low in frequency (Table 9). A similar pattern was observed through the end of the 2-year Phase 3 psoriatic arthritis clinical study (DISCOVER 2). In most cases, the increase in transaminases was transient and did not lead to discontinuation of treatment.

Table 9: Frequency of subjects with transaminase increases post-baseline in two Phase III psoriatic arthritis clinical studies

	Through Week 24 ^a			Through 1 Year ^b	
	Placebo N=370 ^d	TREMFYA 100 mg q8w N=373 ^d	TREMFYA 100 mg q4w ^c N=371 ^d	TREMFYA 100 mg q8w N=373 ^d	TREMFYA 100 mg q4w ^c N=371 ^d
ALT					
>1 to ≤ 3 x ULN	30.0%	28.2%	35.0%	33.5%	41.2%
>3 to ≤ 5 x ULN	1.4%	1.1%	2.7%	1.6%	4.6%
>5 x ULN	0.8%	0.8%	1.1%	1.1%	1.1%
AST					
>1 to ≤ 3 x ULN	20.0%	18.8%	21.6%	22.8%	27.8%
>3 to ≤ 5 x ULN	0.5%	1.6%	1.6%	2.9%	3.8%
>5 x ULN	1.1%	0.5%	1.6%	0.5%	1.6%

^a placebo-controlled period

^b subjects randomized to placebo at baseline and crossed over to TREMFYA are not included

^c q4w dosing is not recommended in psoriatic arthritis patients

^d number of subjects with at least one post-baseline assessment for the specific laboratory test within the time period

In pooled Phase 2/3 Crohn's disease clinical studies, through the reporting period of approximately one-year, adverse events of increased transaminases (includes ALT increased, AST increased, hepatic enzyme increased, transaminases increased, hepatic function abnormal, and liver function test increased) were reported in 3.4% of subjects in the TREMFYA 200 mg SC q4w treatment group and 4.1% of subjects in the TREMFYA 100 mg SC q8w treatment group compared to 2.4% in the placebo group. Based on laboratory assessments in pooled Phase 2/3 Crohn's disease clinical studies, the frequency of ALT or AST elevations were lower than those observed in psoriatic arthritis Phase 3 clinical studies. Through the reporting

period of approximately one-year, ALT or AST elevations $\geq 3x$ ULN were reported in 2.7% of subjects in the TREMFYA 200 mg SC q4w treatment group and 2.6% of subjects in the TREMFYA 100 mg SC q8w treatment group compared to 1.9% in the placebo group. In most cases, the increase in transaminases was transient and did not lead to discontinuation of treatment.

A serious adverse reaction of drug-induced liver injury was reported in a clinical trial subject with Crohn's disease following three doses of a higher than the recommended induction regimen. This subject had peak alanine aminotransferase (ALT) of 18x the upper limit of normal (ULN), aspartate aminotransferase (AST) of 11x ULN, and total bilirubin of 2.4x ULN. TREMFYA was subsequently discontinued, and the liver test abnormalities resolved following administration of corticosteroids.

8.2.1 Clinical Trial Adverse Reactions – Pediatrics

Pediatric Plaque Psoriasis

TREMFYA was studied in one placebo- and active-controlled clinical study of pediatric subjects with moderate-to-severe plaque psoriasis (PROTOSTAR). This clinical study was evaluated through the placebo-controlled period (Part1 Week 16) and through 1 year (Week 52 for Part 1 and Part 2) in 120 subjects 6 to 17 years of age. The long-term safety observation for young children (≥ 6 to <12 years of age) is limited (see [14 Clinical Trials](#)).

The safety profile of TREMFYA in this study was consistent with the safety profile reported in adult plaque psoriasis studies (see [7 Warnings and Precautions](#), [7.1.3 Pediatrics](#), [8.2 Clinical Trial Adverse Reactions](#))

Psoriatic Arthritis

No clinical data is available to Health Canada for pediatric patients with active psoriatic arthritis. The use of TREMFYA in pediatric patients 6 to 17 years of age with active juvenile psoriatic arthritis is supported by model-based extrapolation, which relies on adult psoriatic arthritis and pediatric plaque psoriasis efficacy, safety, and pharmacokinetic data, based on similarity in disease and drug response in children (see [7 Warnings and Precautions](#), [7.1.3 Pediatrics](#), [10.3 Pharmacokinetics](#)).

8.3 Less Common Clinical Trial Adverse Reactions

Adverse reactions that occurred at rates $<1\%$ in the TREMFYA group during the placebo controlled- period of the phase 3 clinical trials:

Infections and Infestations: candida infections, gastroenteritis, herpes simplex infections, tinea infections

Nervous system disorders: migraine

Skin and subcutaneous tissue disorders: urticaria

8.5 Post-Market Adverse Reactions

The following adverse reactions have been reported during post-marketing experience. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency reliably or establish a causal relationship to drug

exposure.

Immune System disorders: anaphylaxis, hypersensitivity

Skin and Subcutaneous Tissue Disorders: rash, urticaria

9 Drug Interactions

9.4 Drug-Drug Interactions

Live vaccines

Live vaccines should not be given while a patient is undergoing therapy with TREMFYA/TREMFYA I.V. (see [7 Warnings and Precautions](#), Immune).

Immunosuppression Therapy

The safety and efficacy of TREMFYA/TREMFYA I.V. in combination with immunosuppressant drugs, including biologics, or with phototherapy, have not been evaluated.

Interactions with CYP450 Substrates

The formation of cytochrome P450 (CYP) enzymes can be altered by increased levels of certain cytokines (e.g., interleukin [IL]-1 β , IL-6, tumor necrosis factor-alpha, and interferon) during chronic inflammation.

In a Phase 1 drug-drug interaction study in subjects (N=12) with moderate to severe plaque psoriasis, the results suggested a low potential for clinically relevant drug interactions between a single SC dose of guselkumab and substrates metabolized by CYP3A4, CYP2C9, CYP2C19, and CYP1A2. However, the results were highly variable and the interaction potential of guselkumab with drugs metabolized by CYP2D6 cannot be ruled out.

Upon initiation of TREMFYA/TREMFYA I.V. in patients who are receiving concomitant CYP450 substrates, particularly those with a narrow therapeutic index, consider monitoring for therapeutic effect or drug concentration and consider dosage adjustment as needed.

9.5 Drug-Food Interactions

Interactions with food have not been established.

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

10 Clinical Pharmacology

10.1 Mechanism of Action

Guselkumab is a human IgG1 λ monoclonal antibody (mAb) that binds selectively to the p19

subunit of interleukin 23 (IL-23) through the antigen binding site and inhibits its interaction with cell surface IL-23 receptor. IL-23 is a naturally-occurring cytokine that is involved in normal inflammatory and immune responses. Guselkumab inhibits the release of proinflammatory cytokines and chemokines (e.g. IL-17A, IL-17F and IL-22). Levels of IL-23 are elevated in the skin of patients with plaque psoriasis. In patients with Crohn's disease or ulcerative colitis, levels of IL-23 are elevated in the colon tissue.

Guselkumab binds Fc-gamma receptor 1 (CD64) through its Fc region and has demonstrated dual-binding to IL-23 and CD64 *in vitro*. Myeloid cells expressing CD64 have been shown to be a predominant source of IL-23 in inflamed tissue in psoriasis, Crohn's disease, and ulcerative colitis.

10.2 Pharmacodynamics

In clinical trials in subjects with plaque psoriasis, guselkumab reduced serum levels of IL-17A, IL-17F and IL-22 relative to pre-treatment levels based on exploratory analyses of these pharmacodynamic markers.

In Phase 3 studies in psoriatic arthritis, evaluated subjects had elevated serum levels of the acute phase proteins C-reactive protein, serum amyloid A and IL-6, and the Th17 effector cytokines IL-17A, IL-17F and IL-22 at baseline. Exploratory analyses found serum levels of these proteins measured at Week 4 and Week 24 were decreased compared to baseline following guselkumab treatment.

In subjects with Crohn's disease and ulcerative colitis, guselkumab treatment led to a decrease in inflammatory markers including CRP and fecal calprotectin through induction Week 12, which were sustained through one year of maintenance treatment. Serum protein levels of IL-17A, IL-22 and IFN γ were reduced as early as Week 4, and continued to decrease through induction Week 12. Guselkumab also reduced colon mucosal biopsy RNA levels of IL-17A, IL-22 and IFN γ at Week 12.

The relationship between these pharmacodynamic markers and the mechanism(s) by which guselkumab exerts its clinical effects is unknown.

10.3 Pharmacokinetics

Guselkumab exhibited linear pharmacokinetics in healthy subjects or subjects with psoriasis over a dose range from 10 mg to 300 mg following subcutaneous injections.

The pharmacokinetics of guselkumab in subjects with psoriatic arthritis was similar to that in subjects with plaque psoriasis.

Table 10: Summary of guselkumab pharmacokinetic parameters following a single-dose IV or SC administration in healthy subjects

Dose	Mean C _{max} (mcg/mL)	Median T _{max} (days)	Mean t _{1/2} (days)	Mean AUC _{0-∞} (mcg*day/mL)	Mean CL/F (for SC) or CL (for IV) (L/day)	Mean Vd/F (for SC) or Vd (for IV) (L)
100 mg SC	8.09	5.5	17	188	0.681	16.6

200 mg SC	15.9	5.0	19	491	0.455	12.1
200 mg IV	58.8	Not Applicable	24	855	0.249	8.26

Abbreviations: C_{max} = Maximum observed serum concentration. T_{max} = Time to reach maximum observed serum concentration. t_{1/2} terminal half-life. AUC_{0-∞} = Area under the serum concentration versus time curve from time zero to infinity. CL = clearance. CL/F apparent total systemic clearance after extravascular administration. V_d = Volume of distribution. V_d/F = apparent volume of distribution after extravascular administration.

Absorption:

Following a single 100 mg subcutaneous injection in healthy subjects, guselkumab reached a mean (± SD) maximum serum concentration (C_{max}) of 8.09 ± 3.68 mcg/mL by approximately 5.5 days post dose.

The absolute bioavailability of guselkumab following a single 100 mg subcutaneous injection was estimated to be approximately 49% in healthy subjects.

In subjects with psoriasis, steady-state serum guselkumab concentrations were achieved by Week 20 following subcutaneous administrations of 100 mg guselkumab at Weeks 0 and 4, and every 8 weeks thereafter. The mean (± SD) steady-state trough serum guselkumab concentrations in two Phase 3 studies were 1.15 ± 0.73 mcg/mL and 1.23 ± 0.84 mcg/mL.

In subjects with psoriatic arthritis, following subcutaneous administration of 100 mg of TREMFYA at Weeks 0, 4, and every 8 weeks thereafter, mean (± SD) steady-state trough serum guselkumab concentration was approximately 1.18 ± 0.87 mcg/mL.

In subjects with Crohn's disease, mean peak serum guselkumab concentration at Week 8 was 70.5 mcg/mL following the recommended intravenous induction dose regimen of TREMFYA I.V. 200 mg at Weeks 0, 4, and 8. Following the recommended subcutaneous induction dose regimen of TREMFYA 400 mg at Weeks 0, 4, and 8, mean peak serum concentration was estimated to be 27.7 mcg/mL in subjects with Crohn's disease. The total systemic exposure (AUC) after the recommended induction dose regimens was similar following subcutaneous and intravenous induction. Following subcutaneous maintenance dosing of 100 mg TREMFYA every 8 weeks or 200 mg TREMFYA every 4 weeks in subjects with Crohn's disease, mean steady-state trough serum guselkumab concentrations were approximately 1.2 mcg/mL and 10.1 mcg/mL, respectively.

In subjects with ulcerative colitis, mean peak serum guselkumab concentration at Week 8 was 68.3 mcg/mL following the recommended intravenous induction dose regimen of TREMFYA I.V. 200 mg at Weeks 0, 4, and 8. Following the recommended subcutaneous induction dose regimen of TREMFYA 400 mg at Weeks 0, 4, and 8, mean peak serum guselkumab concentration was estimated to be 28.8 mcg/mL in subjects with ulcerative colitis. The total AUC after the recommended induction dose regimens was similar following subcutaneous and intravenous induction. Following subcutaneous maintenance dosing of 100 mg TREMFYA every 8 weeks or 200 mg TREMFYA every 4 weeks, mean steady-state trough serum guselkumab concentrations at Week 44 were approximately 1.4 mcg/mL and 10.7 mcg/mL, respectively.

Distribution:

Based on population pharmacokinetic analyses, the apparent volume of distribution of guselkumab following subcutaneous administration was 13.5 L in subjects with plaque psoriasis, 11.4 L in subjects with Crohn's disease, and 10.1 L in subjects with ulcerative colitis.

Metabolism:

The exact pathway through which guselkumab is metabolized has not been characterized. As a human IgG monoclonal antibody, guselkumab is expected to be degraded into small peptides and amino acids via catabolic pathways in the same manner as endogenous IgG.

Elimination:

Based on population pharmacokinetic analyses, the apparent clearance of guselkumab following subcutaneous administration was 0.516 L/day in subjects with plaque psoriasis, 0.568 L/day in subjects with Crohn's disease and 0.531 L/day in subjects with ulcerative colitis. Mean half-life ($T_{1/2}$) of guselkumab was approximately 17 days in healthy subjects, approximately 15 to 18 days in subjects with plaque psoriasis across studies, and approximately 17 days in subjects with Crohn's disease and in subjects with ulcerative colitis.

Clearance and volume of distribution of guselkumab increase as body weight increases, based on population pharmacokinetic analyses. However, observed clinical trial data indicate that dose adjustment for body weight is not warranted.

Population pharmacokinetic analyses indicated that concomitant use of acetaminophen, NSAIDs, oral corticosteroids and conventional DMARDs such as methotrexate, azathioprine, and 6-mercaptopurine did not affect the clearance of guselkumab.

Special Populations and Conditions

- **Pediatrics:** In a clinical study of 120 pediatric subjects 6 to 17 years of age with moderate-to-severe plaque psoriasis, steady-state serum concentrations of guselkumab were achieved by Week 20. Overall, the observed guselkumab trough concentrations in pediatric subjects with plaque psoriasis were within range of those observed for adult subjects with plaque psoriasis and adult subjects with psoriatic arthritis after administration of TREMFYA. The recommended dosing regimen for TREMFYA results in generally comparable predicted serum guselkumab exposure in pediatric subjects relative to adults. Predicted exposure varies across pediatric weight groups, with higher exposure in subjects weighing 40-50 kg.
- **Geriatrics:** Population pharmacokinetic analyses indicated there were no apparent changes in clearance estimate in subjects ≥ 65 years of age compared to subjects < 65 years of age, suggesting no dose adjustment is needed for elderly patients. Of the 1384 plaque psoriasis subjects exposed to TREMFYA in phase 3 clinical studies and included in the population pharmacokinetic analysis (pop PK), 70 subjects were 65 years of age or older, including 4 subjects who were 75 years of age or older. Of the 746 psoriatic arthritis subjects exposed to TREMFYA in phase III clinical studies and included in the pop PK analysis, a total of 38 subjects were 65 years of age or older, and no subjects were 75 years of age or older. Of the 1009 Crohn's disease subjects exposed to TREMFYA/TREMFYA I.V. in clinical studies and included in the pop PK analysis, a total of 39 subjects were 65 years of age or older, including 5 subjects were 75 years of age or older. Of the 859 ulcerative colitis subjects exposed to TREMFYA/TREMFYA I.V. in clinical studies and included in the pop PK analysis, a total

of 52 subjects were 65 years of age or older, including 9 subjects were 75 years of age or older.

- **Gender, Race, Age:** The clearance of guselkumab was not impacted by sex, age, or race.
- **Hepatic Insufficiency:** No specific study has been conducted to determine the effect of hepatic impairment on the pharmacokinetics of guselkumab.
- **Renal Insufficiency:** No specific study has been conducted to determine the effect of renal impairment on the pharmacokinetics of guselkumab.

10.4 Immunogenicity

As with all therapeutic proteins, there is the potential for immunogenicity with TREMFYA/TREMFYA I.V. The immunogenicity of TREMFYA/TREMFYA I.V. was evaluated using a sensitive and drug-tolerant immunoassay. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of incidence of antibodies to TREMFYA/TREMFYA I.V. with the incidences of antibodies to other products may be misleading.

Plaque Psoriasis

Adult subjects

In adult subjects with psoriasis in clinical trials (PSO2001, VOYAGE 1, VOYAGE 2, and NAVIGATE), approximately 6% of subjects treated with TREMFYA developed antidrug antibodies in up to 52 weeks of treatment. Of the subjects who developed antidrug antibodies, approximately 7% had antibodies that were classified as neutralizing which equates to 0.4% of all subjects treated with TREMFYA. Among the 46 subjects who developed antibodies to guselkumab and had evaluable data, 21 subjects exhibited lower trough levels of guselkumab, including one subject who experienced loss of efficacy after developing high antibody titers. However, antibodies to guselkumab were generally not associated with changes in clinical response or development of injection-site reactions.

Pediatric Subjects

In pediatric subjects with psoriasis in clinical trials (PROTOSTAR), 18% (n=21) of subjects treated with TREMFYA developed antidrug antibodies in up to 44 weeks of treatment. Of the subjects who developed antidrug antibodies, none had antibodies that were classified as neutralizing. Antibodies to guselkumab were not associated with changes in pharmacokinetics, clinical efficacy or development of injection-site reactions. However, the small number of subjects who were positive for antibodies to guselkumab limits definitive conclusions.

Psoriatic Arthritis

In adult subjects with psoriatic arthritis in clinical trials, 2% (n=15) of subjects treated with TREMFYA developed antidrug antibodies in up to 24 weeks of treatment. Of these subjects, 1 (7%) had antibodies that were classified as neutralizing which equates to 0.1% of all psoriatic arthritis subjects treated with TREMFYA. None developed injection site reactions through Week 24. Overall, the small number of subjects who were positive for antibodies to guselkumab limits

definitive conclusion of the effect of immunogenicity on the pharmacokinetics, safety, and efficacy of guselkumab.

Crohn's Disease

In adult subjects with Crohn's disease in pooled Phase 2/3 (GALAXI) analyses up to Week 48, 5% (30/634) of subjects treated with guselkumab developed antidrug antibodies. Of these subjects who developed antidrug antibodies, 7% (2/30) had antibodies that were classified as neutralizing antibodies, which equates to 0.3% (2/634) of guselkumab-treated subjects. In a Phase 3 (GRAVITI) analysis up to Week 48, 9% (24/273) of subjects treated with guselkumab developed antidrug antibodies. Of these subjects who developed antidrug antibodies, 13% (3/24) had antibodies that were classified as neutralizing antibodies, which equates to 1% (3/273) of guselkumab-treated subjects. Most of the subjects who were positive for antibodies to guselkumab had low titers. There were no identified clinically meaningful effects of antidrug antibodies on pharmacokinetics or effectiveness of guselkumab over the treatment duration of 48 weeks. A definitive conclusion regarding the impact of antidrug antibodies on the development of injection site reactions is precluded by the small number of participants who had an injection site reaction.

Ulcerative Colitis

In pooled analyses of adult subjects with ulcerative colitis in Phase 2/3 studies (QUASAR) up to Week 56 (n=501), 12% (n=58) of subjects treated with guselkumab developed antidrug antibodies. Of these subjects who developed antidrug antibodies, 16% (n=9) had antibodies that were classified as neutralizing which equates to 2% of all subjects treated with guselkumab. Most of the subjects who were positive for antibodies to guselkumab had low titers. Overall, the small number of ulcerative colitis subjects who were positive for antibodies to guselkumab limits definitive conclusion of the effect of immunogenicity on the pharmacokinetics, safety, and efficacy of guselkumab.

In an analysis of adult subjects with ulcerative colitis in a Phase 3 study (ASTRO) up to Week 24, 9% (24/279) of subjects treated with TREMFYA developed antidrug antibodies. Of these subjects who developed antidrug antibodies, 12% (3/24) had antibodies that were classified as neutralizing antibodies, which equates to 1% (3/279) of TREMFYA-treated subjects. Most of the subjects who were positive for antibodies to guselkumab had low titers. Overall, the small number of ulcerative colitis subjects who were positive for antibodies to guselkumab limits definitive conclusion of the effect of immunogenicity on the pharmacokinetics, safety, and efficacy of guselkumab.

11 Storage, Stability, and Disposal

TREMFYA/TREMFYA I.V. is sterile and preservative-free. Discard any unused portion. Store in a refrigerator at 2°C to 8°C (36°F to 46°F). Do not freeze. Store in original carton until time of use. Protect from light. Do not shake. Keep out of sight and reach of children.

Storage of diluted TREMFYA I.V. infusion solution:

- The diluted infusion solution may be kept at room temperature up to 25°C (77°F) for up to 10 hours. Storage time at room temperature begins once the diluted solution has been prepared. The infusion should be completed within 10 hours after the dilution in the infusion

bag.

- Do not freeze.
- Discard any unused portion of the infusion solution.

12 Special Handling Instructions

Following administration of TREMFYA/TREMFYA I.V., discard any unused portion. The product should be disposed of in a puncture resistant container. Patients or caregivers should be instructed on how to properly dispose of the product, and told not to reuse these items.

Part 2: Scientific Information

13 Pharmaceutical Information

Drug Substance

Proper name: guselkumab

Chemical name: guselkumab

Molecular formula and molecular mass: Guselkumab is a fully human immunoglobulin IgG1 λ mAb with an average molecular weight of 146,613 Daltons

Physicochemical properties: TREMFYA/TREMFYA I.V. (guselkumab injection/guselkumab for injection) is a clear and colourless to light yellow solution and essentially free of visible particulate material with a pH of approximately 5.8

Product Characteristics:

TREMFYA

TREMFYA is supplied as:

- Variable dose injector: sterile solution in a single-dose glass syringe with a fixed 27G, half-inch needle assembled in a variable dose injector containing:
 - 45 mg guselkumab (100 mg/mL in a 0.45 mL fill volume)
- Pre-filled syringe: sterile solution in a single-dose glass syringe with a fixed 27G, half inch needle assembled in a passive needle guard delivery system containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume)
 - 200 mg guselkumab (100 mg/mL in a 2 mL fill volume)
- Pen: sterile solution in a single-dose glass syringe with a 27G, half inch fixed needle assembled in a pre-filled pen containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume)
 - 200 mg guselkumab (100 mg/mL in a 2 mL fill volume)
- TREMFYA One-Press: sterile solution in a single-dose glass syringe with a fixed 27G, half inch needle assembled in a patient-controlled injector containing:
 - 100 mg guselkumab (100 mg/mL in a 1 mL fill volume)

TREMFYA does not contain preservatives.

TREMFYA I.V.

TREMFYA I.V. is supplied as a sterile solution for intravenous infusion in a single-use type 1 glass vial containing 200 mg guselkumab (10 mg/mL in a 20 mL volume).

TREMFYA I.V. does not contain preservatives.

14 Clinical Trials

14.1 Clinical Trials by Indication

Plaque Psoriasis - Adults

Table 11: Summary of trial designs and subject demographics

Study #	Trial design	Dosage, route of administration and duration	Total number of subjects	Mean age (Range)	Gender
VOYAGE 1	A phase 3, multicenter, randomized, double-blind, placebo and active comparator controlled study	Guselkumab (n=329) 100 mg SC Weeks 0, 4 then q8w Placebo (n=174) SC Weeks 0, 4, 12 → guselkumab 100 mg SC Week 16, 20 then q8w ^a Adalimumab (n=334) SC 80 mg Week 0, 40 mg week 1 then 40 mg q2w. ^b	837	43.7 (18-87)	M=608 F=229
VOYAGE 2	A phase 3, multicenter, randomized, double-blind, placebo and active comparator controlled study	Guselkumab (n=496) 100 mg SC Weeks 0, 4, 12 and 20 ^c Placebo (n=248) SC Weeks 0, 4, 12 → guselkumab 100 mg SC Week 16, 20 ^a Adalimumab (n=248) 80 mg Week 0, 40 mg week 1 then 40 mg q2w. ^d	992	43.0 (18-74)	M=692 F=300

^a The placebo group crossed over to receive guselkumab at Weeks 16 and 20 then q8w

^b All subjects, including those randomized to adalimumab at Week 0, received TREMFYA 100 mg at Week 52 and every 8 weeks thereafter.

^c Subjects randomized to TREMFYA at Week 0 who were PASI 90 responders at Week 28 were re-randomized to either continue treatment with TREMFYA maintenance therapy or withdrawal of therapy.

^d PASI 90 non-responders at week 28 started to receive TREMFYA at week 28 and then week 32 and every 8 weeks thereafter.

The efficacy and safety of TREMFYA was assessed in two Phase 3, multicenter, randomized, double-blind studies (VOYAGE 1 and VOYAGE 2) in subjects 18 years or older with moderate to severe plaque psoriasis (with or without psoriatic arthritis) defined by Investigator's Global Assessment (IGA) ≥ 3 , a Body Surface Area (BSA) involvement $\geq 10\%$, and Psoriasis Area and Severity Index (PASI) score ≥ 12 , and were candidates for systemic therapy or phototherapy for psoriasis. Subjects with guttate, erythrodermic, or pustular psoriasis were excluded from the studies. No concomitant antipsoriatic therapies were allowed during the studies.

The two pivotal studies (VOYAGE 1 and 2) evaluated the efficacy and safety of guselkumab for the treatment of subjects with moderate to severe plaque-type psoriasis and enrolled a total of 1829 subjects who were randomized to placebo, TREMFYA, or adalimumab.

The co-primary endpoints in VOYAGE 1 and VOYAGE 2 were the proportions of subjects who achieved an IGA score of cleared (0) or minimal (1) and the proportions of subjects who achieved a PASI 90 response at Week 16, comparing the TREMFYA group and the placebo group.

The IGA is a 5-category scale: 0 = cleared, 1 = minimal, 2 = mild, 3 = moderate, 4 = severe, that indicates the physician's overall assessment of psoriasis focusing on plaque thickness/induration, erythema and scaling.

Other endpoints included the proportions of subjects who achieved an IGA score of cleared (0), a PASI 100, PASI 75 response and regional disease as measured by scalp-specific IGA (ss-IGA). Patient-reported outcomes were assessed based on the Psoriasis Symptoms and Signs Diary (PSSD) and Dermatology Life Quality Index (DLQI).

Baseline disease characteristics were generally consistent across all treatment groups for the study populations in VOYAGE 1 and 2 with a median BSA of 22% and 24%, a median baseline PASI score of 19 for both studies, a baseline IGA score of severe for 25% and 23% of subjects, and a history of psoriatic arthritis for 19% and 18% subjects, respectively.

Of all subjects who were included in the VOYAGE 1 and VOYAGE 2 studies, 32% and 29% were naïve to conventional systemic and biologic systemic therapy; 54% and 57% had received prior phototherapy, and 62% and 64% had received prior conventional systemic therapy, respectively. In both studies, 21% had received prior biologic systemic therapy, including 11% who had received at least one anti-tumour necrosis factor alpha (TNFα) agent, and approximately 10% who had received an anti-IL-12/IL-23 agent.

The results of VOYAGE 1 and VOYAGE 2 studies are presented in Table 12 and Table 13 below.

Table 12: Summary of Clinical Responses at Week 16 (NRI^a) in Psoriasis Studies (Co-Primary Endpoints)

	VOYAGE 1			VOYAGE 2		
	TREMFYA (N=329) n (%)	Placebo (N=174) n (%)	Treatment difference ^b (95% CI)	TREMFYA (N=496) n (%)	Placebo (N=248) n (%)	Treatment difference ^b (95% CI)
IGA response of 0/1	280 (85%) ^c	12 (7%)	78% (73%,83%)	417 (84%) ^c	21 (8%)	76% (71%,80%)
PASI 90 response	241 (73%) ^c	5 (3%)	70% (65%,76%)	347 (70%) ^c	6 (2%)	68% (64%,72%)

^a Non-responder imputation.

^b Treatment difference versus placebo adjusted by investigator site with Mantel-Haenszel weights.

^c p-value < 0.001; p-value is based on the Cochran-Mantel-Haenszel chi-square test stratified by investigator site.

Table 13: Summary of Clinical Responses (NRI^a) in Psoriasis Studies (Secondary Endpoints)

	VOYAGE 1			VOYAGE 2		
	TREMFYA (N=329) n (%)	Adalimumab (N=334) n (%)	Treatment difference ^b (95% CI)	TREMFYA (N=496) n (%)	Adalimumab (N=248) n (%)	Treatment difference ^b (95% CI)
IGA response of 0/1						
Week 16	280 (85%) ^c	220 (66%)	19% (13%,25%)	417 (84%) ^c	168 (68%)	16% (11%,22%)
Week 24	277 (84%) ^c	206 (62%)	23% (17%,29%)	414 (83%) ^c	161 (65%)	18% (12%,25%)
IGA response of 0						
Week 24	173 (53%) ^c	98 (29%)	25% (18%,31%)	257 (52%) ^c	78 (31%)	20% (13%,27%)
PASI 75 response						
Week 16	300 (91%) ^c	244 (73%)	18% (13%,23%)	428 (86%) ^c	170 (69%)	18% (12%,24%)
PASI 90 response						
Week 16	241 (73%) ^c	166 (50%)	24% (17%,31%)	347 (70%) ^c	116 (47%)	23% (17%,30%)
Week 24	264 (80%) ^c	177 (53%)	28% (22%,34%)	373 (75%) ^c	136 (55%)	20% (14%,27%)

^a Non-Responder Imputation.

^b Treatment difference versus adalimumab adjusted by investigator site with Mantel-Haenszel weights.

^c p-value < 0.001; p-value is based on the Cochran-Mantel-Haenszel chi-square test stratified by investigator site. Type 1 error rate is controlled based on a pre-defined hierarchical testing procedure.

TREMFYA demonstrated superiority to placebo for the co-primary endpoints of IGA cleared (0) or minimal (1), and PASI 90 at week 16 (Table 12).

In addition, TREMFYA demonstrated statistical superiority to adalimumab for IGA cleared or minimal (0 or 1), PASI 90 and PASI 75 at week 16 and IGA cleared (0), IGA cleared or minimal (0 or 1) and PASI 90 at week 24 (see Table 13). In VOYAGE 1, with continued treatment over 48 weeks, IGA cleared (0), IGA cleared or minimal (0 or 1) and PASI 90 responses in guselkumab treated subjects were maintained and remained significantly greater than those achieved with adalimumab (IGA cleared (0), 50% vs 26%, IGA cleared or minimal (0 or 1), 81% vs 55%, PASI 90, 76% vs. 48%).

In the VOYAGE 1 study, at week 16, 37% of subjects receiving TREMFYA achieved PASI 100 compared to 17% of adalimumab treated subjects, and 1% of placebo treated subjects. In VOYAGE 2, at Week 16, 34% of subjects receiving TREMFYA achieved PASI 100 compared to 21% of adalimumab treated subjects, and 1% of placebo-treated subjects.

In VOYAGE 1, among 494 subjects randomized to TREMFYA or who crossed over from placebo, 460 subjects received open-label TREMFYA in the uncontrolled extension period after week 48. At week 252, 76.9% (380/494) of subjects remained on TREMFYA and 66.6% (329/494) achieved PASI 90.

In TREMFYA treated-subjects, improvement was seen in psoriasis involving the scalp (as

measured by the Scalp-specific Investigator Global Assessment [ss-IGA]). Specifically, in the subset of subjects with a baseline ss-IGA score ≥ 2 , 83.4% and 80.6% in the TREMFYA group in VOYAGE 1 and VOYAGE 2, respectively, achieved an ss-IGA score of 0 or 1 and at least a 2-grade improvement from baseline compared to 14.5% and 10.9% in the placebo group, respectively at week 16.

Maintenance and Durability of Response

To evaluate the maintenance and durability of response, subjects originally randomized to TREMFYA and who were PASI 90 responders at Week 28 in the VOYAGE 2 study were re-randomized to continue maintenance treatment with TREMFYA or be withdrawn from therapy (i.e., placebo). At week 48, 88.6% of subjects in the continuous maintenance treatment group were PASI 90 responders compared with 36.8% in the withdrawal group. By week 72, 86.0% of subjects in the continuous maintenance treatment group were PASI 90 responders compared with 11.5% in the withdrawal group.

Patient-reported Outcomes

Significantly greater improvements in psoriasis symptoms (itch, pain, stinging, burning and skin tightness) at Week 16 were seen in TREMFYA compared to placebo in both studies based on the Psoriasis Symptoms and Signs Diary (PSSD). Significantly greater proportions of subjects on TREMFYA compared to adalimumab achieved a PSSD symptom score of 0 (symptom-free) at Week 24 in both studies.

Improvements in the Dermatology Life Quality Index (DLQI) from baseline were observed in subjects treated with TREMFYA compared to placebo at Week 16.

Active-Controlled Study in Ustekinumab Inadequate Responders – NAVIGATE

The NAVIGATE study evaluated the efficacy of 24 weeks of treatment with TREMFYA in subjects (N=268) who had an inadequate response (defined as IGA ≥ 2) at Week 16 after initial treatment with ustekinumab (dosed at Week 0 and Week 4). These subjects were randomized to either continue ustekinumab treatment every 12 weeks or to switch to TREMFYA 100 mg given at Weeks 16, 20, and every 8 weeks thereafter. Baseline characteristics for randomized subjects were similar to those observed in VOYAGE 1 and VOYAGE 2.

In subjects with an inadequate response to ustekinumab, a greater proportion of subjects who switched to TREMFYA treatment achieved an IGA score of 0 or 1 and had a ≥ 2 -grade improvement at Week 28 compared to subjects who continued ustekinumab treatment (31% vs 14%, respectively).

TREMFYA One-Press - ORION

ORION evaluated the efficacy, safety, and PK of guselkumab administered with the patient-controlled One-Press injector. In this study, 78 subjects were randomized to receive either TREMFYA One-Press (100 mg at Weeks 0 and 4 and every 8 weeks thereafter, N= 62), or placebo (N= 16). Baseline characteristics for randomized subjects were comparable to those observed in VOYAGE 1 and VOYAGE 2. The co-primary endpoints were the same as those for VOYAGE 1 and VOYAGE 2. The secondary endpoints included the proportion of subjects who achieved an IGA score 0 at Week 16 and the proportion of subjects who achieved a PASI 100 response at Week 16.

A greater proportion of subjects in the guselkumab group achieved an IGA score of 0 or 1 or a PASI 90 response at Week 16 (81% and 76%, respectively) than in the placebo group (0% for both endpoints). The proportion of subjects who achieved an IGA score of 0 at Week 16 was higher in the guselkumab group compared to the placebo group (56.5% vs. 0%). The proportion of subjects who achieved a PASI 100 response at Week 16 was higher in the guselkumab group compared to the placebo group (50.0% vs. 0%).

Plaque Psoriasis – Pediatrics (6 to 17 years of age)

The safety and efficacy of TREMFYA were assessed in a multicenter, randomized, placebo- and active biological comparator-controlled study (PROTOSTAR) in 120 pediatric subjects aged 6 to 17 years with moderate to severe plaque psoriasis who were candidates for phototherapy or systemic therapy and inadequately controlled by phototherapy and/or topical therapies. This clinical study was evaluated through the placebo-controlled period (Part 1 to Week 16) and through 1 year (Week 52 for Parts 1 and 2 combined). Due to a change in study conduct, only adolescent subjects were included in the open label Part 2 phase.

Enrolled subjects had an IGA score of ≥ 3 ("moderate") on a 5-point scale of overall disease severity, a PASI ≥ 12 , and a minimum affected BSA of $\geq 10\%$, and at least one of the following: 1) very thick lesions, 2) clinically relevant facial, genital, or hand/foot involvement, 3) PASI ≥ 20 , 4) BSA $>20\%$ or 5) IGA=4. Subjects with unstable suicidal ideation or suicidal behaviour, guttate, erythrodermic, or pustular psoriasis were excluded from the clinical study.

Table 14: Summary of subject demographics for clinical trials in pediatric plaque psoriasis

Study #	Trial design	Part	Dosage, route of administration and duration	Study participants (n)	Mean age (Range)	Gender % (n)
PROTOSTAR	A phase 3, multicenter, randomized, placebo and active biological comparator-controlled study	1a	Weight-based GUS dose ^a up to 100 mg and matching weight-based PBO ^b , administered SC at Weeks 0, 4, and 12. Treatment through Week 52 was based on PASI 90 response status at Week 16 for GUS and PBO subjects	GUS: 31	14.7 (12 – 17)	male 65% (20) female 35% (11)
				PBO: 15	15.0 (12 – 17)	male 53% (8) female 47% (7)
				COMP: 16	14.7 (12 – 17)	male 38% (6) female 63% (10)
		1b	Weight-based open-label active biological comparator SC weekly dose up to 50 mg through Week 15 and weight-based GUS SC dose up to 100 mg at Week 20, 24 then q8w through Week 48	GUS: 10	9.3 (6 – 11)	male 40% (4) female 60% (6)
				PBO: 10	8.5 (7 – 11)	male 40% (4) female 60% (6)

			Weight based GUS dose^a up to 100 mg and matching weight-based PBO^b, administered SC at Weeks 0, 4, and 12. Treatment through Week 52 was based on PASI 90 response status at Week 16 for GUS and PBO subjects Weight-based open-label active biological comparator SC weekly dose up to 50 mg through Week 15 and weight-based GUS SC dose up to 100 mg at Week 20, 24 then q8w through Week 48	COMP: 10	9.1 (6 – 11)	male 90% (9) female 10% (1)
	Single-arm Open-label	2	Weight-based dose of open-label GUS SC Week 0, 4, then q8w through week 52	GUS: 28	15.1 (12 – 17)	male 60.7% (17) female 39.3% (11)

Abbreviations: SC=subcutaneous; GUS=guselkumab; PBO=placebo; COMP=active biological comparator

^a GUS and PBO treated PASI 90 nonresponders at Week 16 received GUS through Week 52. GUS and PBO treated PASI 90 responders at Week 16 were withdrawn from study intervention and then received retreatment upon loss of ≥50% of their Week 16 PASI improvement.

^b Subjects randomized to the open-label active biological comparator received a SC dose based on body weight: 1) weight <63 kg: 0.8 mg/kg or 2) weight ≥63 kg: 50 mg.

In PROTOSTAR, in the TREMFYA group, subjects with a body weight less than 70 kg received 1.3 mg/kg administered with the 45 mg/0.45 mL variable dose injector, and subjects with a body weight of 70 kg or more received 100 mg administered with the prefilled syringe. Of the 92 subjects in the controlled part of the study, baseline demographic characteristics were generally comparable across treatment groups. Overall, over 55% were male, 85% were white, the mean body weight was approximately 57.3 kg, and the mean age was 12.9 years with 33% of the subjects less than 12 years.

The baseline disease characteristics were generally comparable across treatment groups with median baseline BSA of 20%, median baseline PASI score approximately 17, and baseline IGA score of severe (IGA score = 4) for 21.7% of subjects, and a history of psoriatic arthritis for <5% of subjects. Approximately 41% had a CDLQI score ≥10 (median 7.0). Prior phototherapy or

prior conventional systemic therapy was received by 32% of subjects and prior biologic systemic therapy was received by 10% of subjects.

The co-primary endpoints were the proportion of subjects who achieved a PASI 90 response and the proportion of subjects who achieved an IGA score of 0 (“cleared”) or 1 (“minimal”) at Week 16. The secondary endpoints were the proportion of subjects who achieved a PASI 75 response, an IGA score of cleared (0) or a PASI 100 response at Week 16.

The results of PROTOSTAR are presented in Table 15 and Table 16 below.

Table 15: Summary of Clinical Responses at Week 16 (NRI^a) in the Pediatric Psoriasis Study (Co-Primary Endpoints)

Endpoint	PROTOSTAR		
	TREMFYA (N=41) n (%)	Placebo (N=25) n (%)	Treatment difference (95% CI) ^d
IGA response of 0/1^{b,c}	27 (65.9%) ^e	4 (16.0%)	49.9% (25.9, 69.4) ^e
PASI 90 response^b	23 (56.1%) ^e	4 (16.0%)	40.1 (15.6, 61.3) ^e

^a NRI: nonresponder imputation.

^b Co-primary endpoint.

^c IGA response of 0 (cleared) or 1 (minimal).

^d CIs are based on exact method.

^e p-value < 0.05, represent the comparisons with placebo and are based on Fisher’s exact test stratified by age group and region (pooled).

Table 16: Summary of Clinical Responses at Week 16 in the Pediatric Psoriasis Study (Secondary Endpoints)

Endpoint	PROTOSTAR		
	TREMFYA (N=41) n (%)	Placebo (N=25) n (%)	Treatment difference (95% CI)
IGA response of 0 (cleared)^{a,b}	16 (39.0%) ^b	1 (4.0%)	35.0 (10.5, 56.8) ^b
PASI 75 response^{a,b}	31 (75.6%) ^b	5 (20.0%)	55.6 (32.1, 74.0) ^b
PASI 100 response^{a,b}	14 (34.1%) ^b	0 (0.0%)	34.1 (9.7, 56.1) ^b

^a NRI: nonresponder imputation for missing binary endpoints.

^b p-value < 0.05, represent the comparisons with placebo and are based on the Fisher’s exact test stratified by age group and region (pooled).

At Week 16 a greater improvement in the CDLQI score in the TREMFYA group was reported compared with the placebo group (least squares mean -7.3 vs -1.9, respectively).

Psoriatic Arthritis - Adults

Table 17: Summary of trial designs and subject demographics

Study #	Trial design	Dosage, route of administration and duration	Total number of subjects	Mean age (Range)	Gender
DISCOVER 1	A phase 3, multicenter, randomized, double-blind, placebo-controlled study	Guselkumab (n=127) 100 mg SC Weeks 0, 4 then q8w Guselkumab (n=128) 100 mg SC Weeks 0, then q4w Placebo (n=126) SC Weeks 0, then q4w to Week 20 → guselkumab 100 mg SC Week 24, then q4w	381	48.4 (19-74)	M=195 F=186
DISCOVER 2	A phase 3, multicenter, randomized, double-blind, placebo-controlled study	Guselkumab (n=248) 100 mg SC Weeks 0, 4 then q8w Guselkumab (n=245) 100 mg SC Weeks 0, then q4w Placebo (n=246) SC Weeks 0, then q4w to Week 20 → guselkumab 100 mg SC Week 24, then q4w	739	45.7 (19-75)	M=388 F=351

The safety and efficacy of TREMFYA were assessed in 1120 subjects in 2 randomized, double-blind, placebo-controlled studies (DISCOVER 1 and DISCOVER 2) in adult subjects with active psoriatic arthritis (≥ 3 swollen joints, ≥ 3 tender joints, and a C-reactive protein (CRP) level of ≥ 0.3 mg/dL in DISCOVER 1 and ≥ 5 swollen joints, ≥ 5 tender joints, and a CRP level of ≥ 0.6 mg/dL in DISCOVER 2) who had inadequate response to standard therapies (e.g. conventional DMARDs [cDMARDs]), apremilast, or nonsteroidal anti-inflammatory drugs [NSAIDs]). Subjects in these studies had a diagnosis of psoriatic arthritis for at least 6 months based on the Classification criteria for Psoriatic Arthritis (CASPAR) and a median duration of psoriatic arthritis of 4 years at baseline.

In DISCOVER 1 approximately 30% of subjects had been previously treated with up to 2 anti-tumor necrosis factor alpha (anti-TNF α) agents whereas in DISCOVER 2 all subjects were biologic naïve. Approximately 58% of subjects from both studies had concomitant methotrexate (MTX) use. Subjects with different subtypes of psoriatic arthritis were enrolled in both studies, including polyarticular arthritis with the absence of rheumatoid nodules (40%), spondylitis with peripheral arthritis (30%), asymmetric peripheral arthritis (23%), distal interphalangeal involvement (7%) and arthritis mutilans (1%). At baseline, over 65% and 42% of the subjects had enthesitis and dactylitis, respectively and over 75% had $\geq 3\%$ body surface area (BSA) psoriasis skin involvement. The primary endpoint in both studies was the percentage of subjects achieving an ACR20 response at Week 24.

Signs and Symptoms

The ACR responses at Week 24 are presented in Table 18 below. Comparable response rates were observed regardless of prior anti-TNF α exposure in DISCOVER 1, and in both trials comparable response rates were observed regardless of concomitant cDMARD use or previous treatment with cDMARDs.

Figure 1 shows the proportion of subjects with ACR 20 response, by visit, up to Week 24 in DISCOVER 2.

Table 18: Percent of Subjects with ACR Responses^{a,b} at Week 24 in DISCOVER 1 and DISCOVER 2

	DISCOVER 1			DISCOVER 2		
	Placebo (N=126)	TREMFYA 100 mg q8w (N=127)	Difference from Placebo (95% CI) p-value	Placebo (N=246)	TREMFYA 100 mg q8w (N=248)	Difference from Placebo (95% CI) p-value
ACR 20 response	22.2%	52.0%	29.8% (18.6, 41.1) <0.001 ^c	32.9%	64.1%	31.2% (22.9, 39.5) <0.001 ^d
ACR 50 response	8.7%	29.9%		14.2%	31.5%	
ACR 70 response	5.6%	11.8%		4.1%	18.5%	

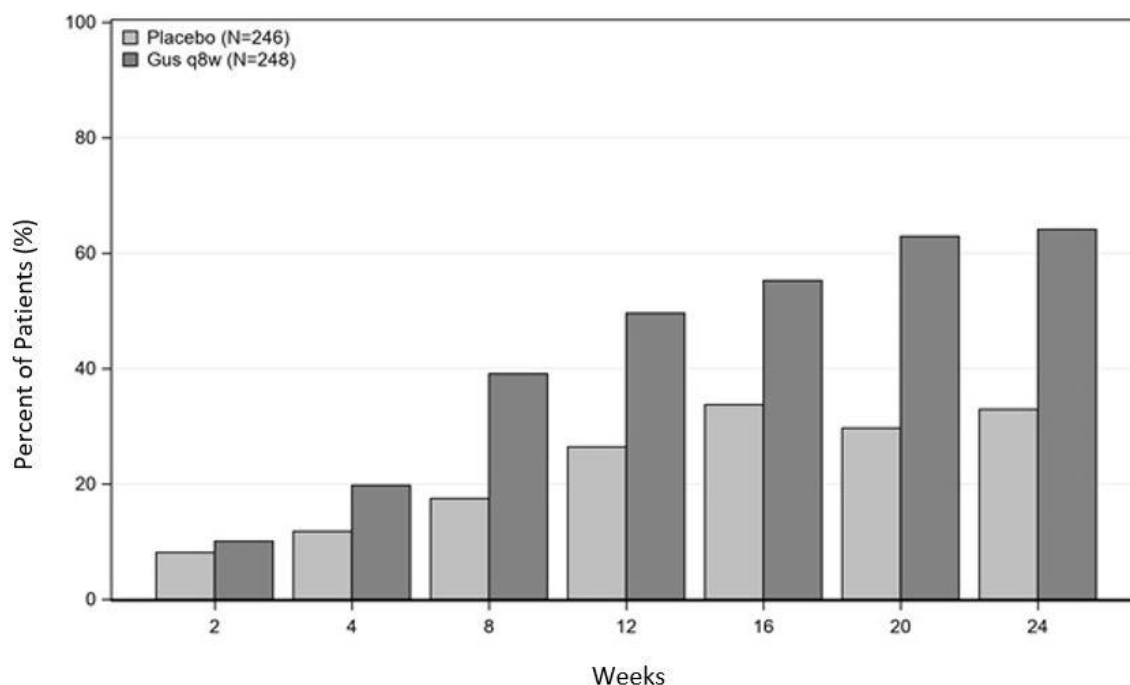
^a Subjects with <5% improvement from baseline in both tender and swollen joint counts at Week 16 were qualified for early escape and were permitted to initiate or increase the dose of concomitant medications including NSAIDs, oral corticosteroid and cDMARD, and remained on the randomized study treatment. At Week 16, 19.0% and 3.1% (DISCOVER 1) and 15.4% and 5.2%, (DISCOVER 2) of the subjects in the placebo and TREMFYA 100mg q8w groups respectively met early escape criteria.

^b Subjects with missing data at Week 24 were imputed as non-responders. Subjects who initiated or increased the dose of cDMARD or oral corticosteroids over baseline, discontinued study or study medication, or initiated protocol prohibited medications/therapies for psoriatic arthritis prior to Week 24 were considered as treatment failures and non-responders. At Week 24, 16.7% and 5.5% (DISCOVER 1), and 6.9% and 4.8% (DISCOVER 2) of the subjects in the placebo group and the TREMFYA 100 mg q8w group met treatment failure criteria.

^c Treatment differences, 95% CIs and p-values were based on the Cochran-Mantel-Haenszel test stratified by baseline non-biologic cDMARD and prior anti-TNF α agents.

^d Treatment differences, 95% CIs and p-values were based on the Cochran-Mantel-Haenszel test stratified by baseline non-biologic cDMARD and prior CRP (<2.0, $\geq$ 2.0 mg/dL).

Figure 1: Percent of Subjects Achieving ACR 20 Response by Visit Through Week 24 in DISCOVER 2



In DISCOVER 1, among 127 subjects randomized to TREMFYA 100 mg q8w, 123 subjects received TREMFYA at or after 24 weeks in the double-blind, not placebo controlled, active treatment period. 91.3% (116/127) of subjects remained on TREMFYA at Week 48.

In DISCOVER 2, among 248 subjects randomized to TREMFYA 100 mg q8w, 240 subjects received TREMFYA at or after 24 weeks in the double-blind, not placebo controlled, active treatment period. 89.9% (223/248) of subjects remained on TREMFYA at Week 100.

In an exploratory analysis among TREMFYA 100 mg q8w subjects who achieved ACR 20 at Week 24, 80.6% (54/67) in DISCOVER 1 and 89.9% (143/159) in DISCOVER 2 were ACR 20 responders at Week 52; and 83% (132/159) were ACR 20 responders at Week 100 in DISCOVER 2.

Table 19: Mean change from Baseline in ACR Component Scores at Week 24 Based on Observed Data

	DISCOVER 1		DISCOVER 2	
	Placebo (N=126)	TREMFYA 100 mg q8w (N=127)	Placebo (N=246)	TREMFYA 100 mg q8w (N=248)
No. of Swollen Joints				
Baseline	10.1	10.9	12.3	11.7
Mean change at Week 24	-5.1	-7.3	-6.4	-8.1
No. of Tender Joints				
Baseline	19.8	20.2	21.6	19.8
Mean change at Week 24	-6.8	-10.5	-7.3	-10.4
Patient's Assessment of Pain				
Baseline	5.8	6.0	6.3	6.3
Mean change at Week 24	-0.7	-2.2	-1.1	-2.5
Patient Global Assessment				
Baseline	6.1	6.5	6.5	6.5
Mean change at Week 24	-0.9	-2.5	-1.2	-2.5
Physician Global Assessment				
Baseline	6.3	6.2	6.7	6.6
Mean change at Week 24	-2.2	-3.5	-2.5	-3.8
Disability Index (HAQ-DI)				
Baseline	1.2	1.2	1.3	1.3
Mean change at Week 24	-0.1	-0.3	-0.2	-0.4
CRP (mg/dL)				
Baseline	1.4	1.6	2.1	2.0
Mean change at Week 24	-0.0	-0.7	-0.5	-1.1

In DISCOVER 1, the proportion of subjects who achieved Minimal Disease Activity (MDA) at Week 24 was 22.8% (29/127) in the TREMFYA 100mg q8w group and 11.1% (14/126) in the placebo group. In DISCOVER 2, the proportion of subjects who achieved MDA at Week 24 was 25% (62/248) in the TREMFYA 100mg q8w group and 6.1% (15/246) in the placebo group.

Psoriasis Skin Response

In subjects with $\geq 3\%$ BSA psoriasis skin involvement and an IGA score of ≥ 2 at baseline, the proportion of subjects who achieved a psoriasis response at Week 24, defined as an IGA of 0 (cleared) or 1 (minimal) and a ≥ 2 -grade reduction from baseline, was assessed. In DISCOVER 1, the proportions of subjects achieving a psoriasis IGA response were 57.3% and 15.4% for the TREMFYA 100mg q8w and placebo dose groups respectively. In DISCOVER 2, the proportions of these subjects achieving a psoriasis IGA response were 70.5% and 19.1% for the TREMFYA 100mg q8w and placebo dose groups respectively.

Enthesitis and Dactylitis

Treatment with TREMFYA resulted in improvement in dactylitis and enthesitis in subjects with pre-existing dactylitis or enthesitis at baseline.

Radiographic Response

In DISCOVER 2, inhibition of structural damage progression was measured radiographically and expressed as the mean change from baseline in the total modified van der Heijde-Sharp (vdH-S) score at Week 24. The mean change (95% CI) in progression from baseline in the vdH-S was 0.52 (0.18, 0.96) for TREMFYA 100 mg q8w and 0.95 (0.61, 1.29) for placebo at Week 24.

Physical Function and Other Patient Reported Outcomes

At Week 24, a greater mean improvement from baseline in physical function, as measured by the Health Assessment Questionnaire-Disability Index (HAQ-DI) was shown in both studies in the TREMFYA 100 mg q8w group compared to placebo. The mean change from baseline at Week 24 was -0.32 and -0.073 (DISCOVER 1) and -0.37 and -0.13 (DISCOVER 2) for the TREMFYA 100mg q8w and placebo dose groups respectively ($p < 0.001$ in both trials).

At Week 24, subjects in the TREMFYA group in both DISCOVER 1 and DISCOVER 2 showed greater improvement from baseline in the SF-36 PCS compared with placebo. At Week 24 there was numeric improvement in the physical functioning, role-physical, bodily-pain, general health, social-functioning and vitality domains but not in the role-emotional and mental health domains. Subjects in the TREMFYA group in both DISCOVER 1 and DISCOVER 2 showed improvement from baseline in fatigue measured with FACIT-fatigue at Week 24.

Psoriatic Arthritis – Pediatrics (6 to 17 years of age)

No clinical data is available to Health Canada for pediatric patients with active psoriatic arthritis. The use of TREMFYA in pediatric patients 6 to 17 years of age with active juvenile psoriatic arthritis is supported by model-based extrapolation, which relies on adult psoriatic arthritis and pediatric plaque psoriasis efficacy, safety, and PK data, based on similarity in disease and drug response in children (see [10.3 Pharmacokinetics](#)).

The study results are not applicable.

Crohn's Disease

Table 20: Summary of trial designs and subject demographics

Study #	Trial design	Dosage, route of administration and duration	Total number of subjects	Mean age (Range)	Sex
GALAXI 2	A phase 3, multicentre, randomized, double-blind, placebo-controlled 48-week treat-through study	Guselkumab (n=146) 200 mg IV Weeks 0, 4, 8 → 200 mg SC q4w Guselkumab (n=143) 200 mg IV Weeks 0, 4, 8 → 100 mg SC q8w Placebo (n=76)	508	36.4 (18-74)	M=281 F=227
GALAXI 3	A phase 3, multicentre, randomized, double-blind, placebo-controlled 48-week treat-through study	Guselkumab (n=150) 200 mg IV Weeks 0, 4, 8 → 200 mg SC q4w Guselkumab (n=143) 200 mg IV Weeks 0, 4, 8 → 100 mg SC q8w Placebo (n=72)	513	36.6 (18-76)	M=307 F=206
GRAVITI	A phase 3, multicentre, randomized, double-blind, placebo-controlled 24-week treat-through study	Guselkumab (n=115) 400 mg SC Weeks 0, 4, 8 → 200 mg SC q4w Guselkumab (n=115) 400 mg SC Weeks 0, 4, 8 → 100 mg SC q8w Placebo (n=117)	347	37.5 (18-83)	M=203 F=144

The efficacy and safety of TREMFYA/TREMFYA I.V. were evaluated in three Phase 3 trials in adult subjects with moderately to severely active Crohn's disease who had prior treatment failure (inadequate response, loss of response or intolerance) with either oral corticosteroids, conventional immunomodulators (AZA, 6-MP, MTX), and/or biologic therapy (TNF blocker or vedolizumab): two identically designed 48-week multicentre, randomized, double-blind, placebo- and biologic active-controlled, parallel group trials (intravenous induction and subcutaneous (SC) maintenance: GALAXI 2 and GALAXI 3) and one 48-week multicentre, randomized, double-blind, placebo-controlled, parallel group trial (SC induction and SC maintenance: GRAVITI). Moderately to severely active Crohn's disease was defined as a Crohn's Disease Activity Index (CDAI) score of ≥ 220 and ≤ 450 and a Simple Endoscopic Score for CD (SES-CD) of ≥ 6 (or ≥ 4 for subjects with isolated ileal disease). In addition, efficacy and safety of TREMFYA/TREMFYA I.V. were evaluated in a Phase 2 dose-ranging study (GALAXI 1). All four trials had a treat-through study design: subjects randomized to TREMFYA/TREMFYA I.V. maintained that treatment assignment for the duration of the trial.

IV Induction / SC Maintenance Studies: GALAXI 2 and GALAXI 3

Subjects were randomized in a 2:2:2:1 ratio to receive TREMFYA I.V. 200 mg induction at Weeks 0, 4 and 8 followed by TREMFYA 200 mg SC maintenance every 4 weeks (q4w) (n = 146 in GALAXI 2 and n = 150 in GALAXI 3); or TREMFYA I.V. 200 mg induction at Weeks 0, 4 and 8, followed by TREMFYA 100 mg SC maintenance every 8 weeks (q8w) (n =

143 in both GALAXI 2 and GALAXI 3); or ustekinumab 6 mg/kg IV induction at Week 0 followed by ustekinumab 90 mg SC q8w maintenance (n = 143 in GALAXI 2 and n = 148 in GALAXI 3); or placebo (n = 76 in GALAXI 2 and n = 72 in GALAXI 3). Placebo non-responders received ustekinumab starting at Week 12. Randomization (see Table 20) was stratified by baseline CDAI score (≤ 300 or > 300), baseline SES-CD score (≤ 12 or > 12), prior BIO-Failure status (Yes/No) and baseline corticosteroid use (Yes/No).

A total of 1021 subjects were evaluated in GALAXI 2 (N=508) and GALAXI 3 (N=513). The median age was 34 years; 42.4% were female; and 74.3% identified as White, 21.3% as Asian, and 1.5% as Black or African American.

In GALAXI 2, 52.8% of subjects had previously failed at least one biologic therapy, 41.9% were biologic-naïve, and 5.3% had previously received but had not failed a biologic. At baseline, 37.4% of subjects were receiving oral corticosteroids and 29.9% of subjects were receiving conventional immunomodulators. The median CDAI score was 284.5 and the median SES-CD score was 11.0.

In GALAXI 3, 51.9% of subjects had previously failed at least one biologic therapy, 41.5% were biologic-naïve, and 6.6% had previously received but had not failed a biologic. At baseline, 36.1% of subjects were receiving oral corticosteroids and 30.2% of subjects were receiving conventional immunomodulators. The median CDAI score was 286 and the median SES-CD score was 11.0.

In GALAXI 2 and GALAXI 3, the composite co-primary endpoints were (1) clinical response at Week 12 and clinical remission at Week 48 and (2) clinical response at Week 12 and endoscopic response at Week 48 compared to placebo (Table 21). Key secondary composite endpoints included clinical response at Week 12 and corticosteroid-free clinical remission at Week 48, and clinical response at Week 12 and endoscopic remission at Week 48.

Clinical response is defined as ≥ 100 -point reduction from baseline in CDAI score or CDAI score < 150 . Clinical remission is defined as a CDAI score < 150 . Endoscopic response is defined as $\geq 50\%$ improvement (reduction) from baseline in SES-CD Score or SES-CD Score ≤ 2 . Endoscopic remission is defined as a SES-CD Score ≤ 4 and at least a 2-point reduction from baseline with no subscore greater than 1 in any individual component. For composite endpoints, the same subject had to achieve each component of the endpoint.

The findings for primary and key secondary endpoints are shown in Table 21.

Table 21: Primary and Key Secondary Composite Endpoints in GALAXI 2 and GALAXI 3

GALAXI 2					
Endpoint	Placebo N=76	TREMFYA I.V. Induction → 100 mg SC q8w ^a N=143	TREMFYA I.V. Induction → 200 mg SC q4w ^b N=146	Treatment Difference (95% CI) ^c	
				TREMFYA 100 mg	TREMFYA 200 mg
Co-primary endpoints					
Clinical response at Week 12 and clinical remission at Week 48	9 (12%)	70 (49%)	80 (55%)	38% (27%, 49%) ^d	43% (32%, 54%) ^d
Clinical response at Week 12 and endoscopic response at Week 48	4 (5%)	56 (39%)	56 (38%)	34% (24%, 43%) ^d	33% (24%, 42%) ^d
Key secondary endpoints					
Clinical response at Week 12 and corticosteroid-free clinical remission at Week 48	7 (9%)	67 (47%)	74 (51%)	39% (28%, 49%) ^d	41% (31%, 52%) ^d
Clinical response at Week 12 and endoscopic remission at Week 48	2 (3%)	38 (27%)	48 (33%)	24% (16%, 32%) ^d	30% (21%, 39%) ^d
GALAXI 3					
Endpoint	Placebo (N=72)	TREMFYA I.V. Induction → 100 mg SC q8w ^a (N=143)	TREMFYA I.V. Induction → 200 mg SC q4w ^b (N=150)	Treatment Difference (95% CI) ^c	
				TREMFYA 100 mg	TREMFYA 200 mg
Co-primary endpoints					
Clinical response at Week 12 and clinical remission at Week 48	9 (13%)	67 (47%)	72 (48%)	34% (23%, 45%) ^d	35% (24%, 46%) ^d
Clinical response at Week 12 and endoscopic response at Week 48	4 (6%)	48 (34%)	54 (36%)	28% (19%, 37%) ^d	31% (21%, 40%) ^d
Key secondary endpoints					
Clinical response at Week 12 and corticosteroid-free clinical remission at Week 48	9 (13%)	65 (45%)	67 (45%)	33% (22%, 44%) ^d	31% (20%, 43%) ^d
Clinical response at Week 12 and endoscopic remission at Week 48	4 (6%)	34 (24%)	34 (23%)	18% (10%, 27%) ^d	17% (8%, 25%) ^d

^a TREMFYA I.V. 200 mg at Weeks 0, 4, and 8 followed by TREMFYA 100 mg SC q8w.

^b TREMFYA I.V. 200 mg at Weeks 0, 4, and 8 followed by TREMFYA 200 mg SC q4w.

^c The adjusted treatment difference and the CIs were based on the common risk difference test using Mantel-Haenszel stratum weights and the Sato variance estimator.

^d Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level

In GALAXI 2, in subjects who had prior biologic failure receiving TREMFYA I.V. followed by TREMFYA 100 mg SC q8w / TREMFYA 200 mg SC q4w (N=77/N=73), 39%/52% demonstrated clinical response at Week 12 and clinical remission at Week 48, and 36%/26% demonstrated clinical response at Week 12 and endoscopic response at Week 48, compared with 13% and 5%, respectively, in subjects receiving placebo (N=39). In subjects who were biologic-naïve

receiving TREMFYA I.V. followed by TREMFYA 100 mg SC q8w / TREMFYA 200 mg SC q4w (N=58/N=63), 60%/59% demonstrated clinical response at Week 12 and clinical remission at Week 48, and 45%/49% demonstrated clinical response at Week 12 and endoscopic response at Week 48, compared with 9% and 6%, respectively, in subjects receiving placebo (N=34).

In GALAXI 3, in subjects who had prior biologic failure receiving TREMFYA I.V. followed by TREMFYA 100 mg SC q8w / TREMFYA 200 mg SC q4w (N=76/N=74), 53%/47% demonstrated clinical response at Week 12 and clinical remission at Week 48, and 36%/36% demonstrated clinical response at Week 12 and endoscopic response at Week 48, compared with 13% and 5%, respectively, in subjects receiving placebo (N=39). In subjects who were biologic-naïve receiving TREMFYA I.V. followed by TREMFYA 100 mg SC q8w / TREMFYA 200 mg SC q4w (N=58/N=65), 43%/51% demonstrated clinical response at Week 12 and clinical remission at Week 48, and 36%/38% demonstrated clinical response at Week 12 and endoscopic response at Week 48, compared with 15% and 7%, respectively, in subjects receiving placebo (N=27).

In GALAXI 2, following the induction period, 47% (n=136) of subjects receiving TREMFYA I.V. demonstrated clinical remission at Week 12 and 38% (n=109) demonstrated endoscopic response at Week 12, compared with 22% (n=17) and 11% (n=8), respectively, of subjects receiving placebo. In GALAXI 3, following the induction period, 47% (n=138) of subjects receiving TREMFYA I.V. demonstrated clinical remission at Week 12 and 36% (n=106) demonstrated endoscopic response at Week 12, compared with 15% (n=11) and 14% (n=10), respectively, of subjects receiving placebo.

SC Induction / SC Maintenance Study: GRAVITI

In GRAVITI, subjects were randomized in a 1:1:1 ratio to receive TREMFYA 400 mg SC induction at Weeks 0, 4 and 8 followed by TREMFYA 200 mg SC q4w maintenance (n = 115); or TREMFYA 400 mg SC induction at Weeks 0, 4 and 8, followed by TREMFYA 100 mg SC q8w maintenance (n = 115); or placebo (n = 117). All subjects in the placebo group who met rescue criteria received treatment with TREMFYA 400 mg SC induction followed by TREMFYA 100 mg SC maintenance every 8 weeks. The randomization (see Table 20) was stratified by baseline CDAI score (≤ 300 or >300), baseline SES-CD score (≤ 12 or >12), and prior BIO-Failure status (Yes/No).

A total of 347 subjects were evaluated. The median age of subjects was 36 years; 41.5% were female; and 66% identified as White, 21.9% as Asian, and 2.6% as Black or African American.

In GRAVITI, 46.4% of subjects had previously failed at least one biologic therapy, 46.4% were biologic-naïve, and 7.2% had previously received but had not failed a biologic. At baseline, 29.7% of subjects were receiving oral corticosteroids and 28.5% of the subjects were receiving conventional immunomodulators. The median CDAI score was 289 and the median SES-CD score was 10.0.

The co-primary endpoints were clinical remission at Week 12 and endoscopic response at Week 12 compared to placebo (Table 22).

The results at week 12 following the induction period are shown in Table 22.

Table 22: Efficacy Endpoints at Week 12 in GRAVITI

Endpoint	Placebo (N=117)	TREMFYA 400 mg SC ^a (N=230)	Treatment Difference vs Placebo (95% CI) ^b
Clinical Remission at Week 12	25 (21%)	129 (56%)	35% (25%, 45%) ^c
Endoscopic Response at Week 12	25 (21%)	95 (41%)	20% (10%, 30%) ^c

^a TREMFYA 400 mg SC induction at Weeks 0, 4 and 8

^b The adjusted treatment difference and the CIs were based on the common risk difference test using Mantel-Haenszel stratum weights and the Sato variance estimator.

^c Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level

In GRAVITI, in subjects who had prior biologic failure receiving TREMFYA 400 mg SC (N=108), 60% demonstrated clinical remission at Week 12 and 33% demonstrated endoscopic response at Week 12, compared with 17% and 17%, respectively, in subjects receiving placebo (N=53). In subjects receiving TREMFYA 400 mg SC who were biologic-naïve (N=105), 50% demonstrated clinical remission at Week 12 and 49% demonstrated endoscopic response at Week 12, compared with 25% and 27%, respectively, in subjects receiving placebo (N=56).

In GRAVITI, following the maintenance period, the endpoints of clinical remission, endoscopic response, and endoscopic remission at week 48 were consistent with the maintenance results observed in the GALAXI 2/GALAXI 3 studies.

Ulcerative Colitis

Table 23: Summary of trial designs and subject demographics

Study #	Trial design	Dosage, route of administration and duration	Total number of subjects	Mean age (Range)	Gender
QUASAR induction dose-ranging study	A phase 2b, multicenter, randomized, double-blind, placebo-controlled study	Guselkumab (n=107) 400 mg IV Weeks 0, 4, 8 Guselkumab (n=101) 200 mg IV Weeks 0, 4, 8 Placebo (n=105) IV	313	39 (18-84)	M=185 F=128
QUASAR-IS	A phase 3, multicenter, randomized, double-blind, placebo-controlled study	Guselkumab (n=421) 200 mg IV Weeks 0, 4, 8 Placebo (n=280) IV	701	39 (18-79)	M=399 F=302
QUASAR-M	A phase 3, multicenter, randomized, double-blind, placebo-controlled study	Guselkumab (n=190) 200 mg SC every 4 weeks Guselkumab (n=188) 100 mg SC every 8 weeks Placebo (n=190) SC	568	39 (18-79)	M=311 F=257

ASTRO	A phase 3, multicenter, randomized, double-blind, placebo-controlled 24-week treat-through study	Guselkumab (n=140) 400 mg SC Weeks 0, 4, 8 → 200 mg SC q4w Guselkumab (n=139) 400 mg SC Weeks 0, 4, 8 → 100 mg SC q8w Placebo (n=139)	418	42 (18-80)	M=256 F=162
-------	--	---	-----	------------	----------------

The efficacy and safety of TREMFYA/TREMFYA I.V. were evaluated in three Phase 3 multicenter, randomized, double-blind, placebo-controlled studies (QUASAR intravenous induction study, QUASAR maintenance study and ASTRO subcutaneous induction study) in adult subjects with moderately to severely active ulcerative colitis who had an inadequate response, loss of response, or intolerance to corticosteroids, conventional immunomodulators, and/or an advanced therapy (biologic therapy [TNF blockers, vedolizumab], or a Janus kinase [JAK] inhibitor and/or sphingosine-1-phosphate receptor modulators [S1PRM] [applicable only for ASTRO]). In addition, efficacy and safety of TREMFYA I.V. were evaluated in a randomized, double-blind, placebo controlled, Phase 2b induction dose-finding study (QUASAR induction dose-ranging study).

Disease activity was assessed by the modified Mayo score (mMS), a 3-component Mayo score (0-9) which consists of the sum of the following subscores (0 to 3 for each subscore): stool frequency (SFS), rectal bleeding (RBS), and findings on centrally reviewed endoscopy (ES). Moderately to severely active ulcerative colitis was defined as a mMS between 5 and 9, an RBS ≥ 1 , and an ES of 2 (defined by marked erythema, absent vascular pattern, friability, and/or erosions) or an ES of 3 (defined by spontaneous bleeding and ulceration).

QUASAR Induction Study: QUASAR IS

In the induction study QUASAR IS, a total of 701 subjects were randomized in a 3:2 ratio to receive either TREMFYA I.V. 200 mg (n = 421) or placebo by intravenous infusion at Week 0, Week 4, and Week 8 (n = 280). Randomization was stratified by ADT-failure status (ie, inadequate response or failure to tolerate TNF α antagonists, vedolizumab, or tofacitinib) (Yes/No), region (Eastern Europe, Asia, or Rest of World), and concomitant use of corticosteroids at baseline (Yes/No) (see Table 23).

At baseline the median mMS was 7, with 35.5% of subjects having a baseline mMS of 5 to 6 and 64.5% having a mMS of 7 to 9, and 67.9% of subjects with a baseline ES of 3. Extensive disease was present in 47.8% of subjects. The median age was 39 years (ranging from 18 to 79 years); 43.1% were female; and 72.5% identified as White, 21.4% as Asian, 1% as Black, 0.1% as American Indian or Alaskan Native, and 0.1% as multiple racial groups.

Enrolled subjects were permitted to use stable doses of oral aminosalicylates, methotrexate, 6-MP, AZA and/or oral corticosteroids. At baseline, 72.5% of subjects were receiving aminosalicylates, 20.8% of subjects were receiving immunomodulators (MTX, 6-MP, or AZA),

and 43.1% of subjects were receiving corticosteroids. Concomitant biologic therapies or JAK inhibitors were not permitted.

A total of 49.1% of subjects had previously failed at least one advanced therapy. Of these subjects, 87.5%, 54.1% and 18.0% had previously failed a TNF blocker, vedolizumab or a JAK inhibitor, respectively, and 47.4% had failed treatment with 2 or more of these therapies. A total of 48.4% of subjects were advanced therapy naïve, and 2.6% had previously received but had not failed an advanced therapy.

The primary endpoint was clinical remission as defined by the mMS at Week 12. Secondary endpoints at Week 12 included but were not limited to endoscopic improvement, clinical response, and histologic endoscopic mucosal improvement (see Table 24). Clinical remission is defined as a stool frequency subscore of 0 or 1 and not increased from induction baseline, a rectal bleeding subscore of 0, and an endoscopy subscore of 0 or 1 with no friability present on the endoscopy. Endoscopic improvement is defined as an endoscopy subscore of 0 or 1 with no friability present on the endoscopy. Clinical response is defined as a decrease from induction baseline in the modified Mayo score by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 -point decrease from induction baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0 or 1. Histologic endoscopic mucosal improvement is defined as a combination of histologic improvement (neutrophil infiltration in $<5\%$ of crypts, no crypt destruction, and no erosions, ulcerations or granulation tissue according to the Geboes grading system) and endoscopic improvement as defined above.

The findings for the primary and key secondary endpoints assessed at Week 12 of QUASAR IS are shown in Table 24.

Table 24: Proportion of Subjects Meeting Efficacy Endpoints at Week 12 in QUASAR IS

Endpoint	Placebo (N=280)	TREMFYA I.V. 200 mg ^a (N=421)	Treatment Difference (95% CI)
Clinical remission	22 (8%)	95 (23%)	15% (10%, 20%) ^b
Advanced therapy naïve ^c	16/137 (12%)	64/202 (32%)	
Prior advanced therapy failure	5/136 (4%)	26/208 (13%)	
Endoscopic improvement	31 (11%)	113 (27%)	16% (10%, 21%) ^b
Advanced therapy naïve ^c	23/137 (17%)	77/202 (38%)	
Prior advanced therapy failure	7/136 (5%)	31/208 (15%)	
Clinical response	78 (28%)	259 (62%)	34% (27%, 41%) ^b
Advanced therapy naïve ^c	48/137 (35%)	144/202 (71%)	
Prior advanced therapy failure	27/136 (20%)	107/208 (51%)	
Histologic endoscopic mucosal improvement	21 (8%)	99 (24%)	16% (11%, 21%) ^b
Advanced therapy naïve ^c	15/137 (11%)	66/202 (33%)	
Prior advanced therapy failure	6/136 (4%)	28/208 (13%)	

-
- a TREMFYA I.V. 200 mg as an intravenous infusion at Week 0, Week 4, and Week 8.
 - b Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level, adjusted treatment difference (95% CI) based on Cochran-Mantel-Haenszel method (adjusted for stratification factors: advanced therapy failure status and concomitant use of corticosteroids at baseline).
 - c Does not include an additional 7 participants in the placebo group and 11 participants in the TREMFYA group who were previously exposed to but did not fail an advanced therapy.

Symptomatic Assessment

Symptomatic remission is defined as a stool frequency subscore of 0 or 1 and not increased from induction baseline, and a rectal bleeding subscore of 0. At Week 12, symptomatic remission was achieved in 50% of subjects treated with TREMFYA I.V. and 21% of subjects treated with placebo. At Week 4, symptomatic remission was achieved in 23% of subjects treated with TREMFYA I.V. and 13% of subjects treated with placebo.

Endoscopic Assessment

Endoscopic remission (endoscopy subscore of 0) at Week 12 was achieved in 15% of subjects treated with TREMFYA I.V. and 5% of subjects treated with placebo.

Health Related Quality of Life

Fatigue response is defined as a ≥ 7 point improvement from baseline, which is considered clinically meaningful, as assessed using the PROMIS-Fatigue Short form 7a. At Week 12, fatigue response was achieved in 41% of subjects treated with TREMFYA I.V. and 21% of subjects treated with placebo.

IBDQ remission (Total Inflammatory Bowel Disease Questionnaire score ≥ 170) at Week 12 was achieved in 51% of subjects treated with TREMFYA I.V. and 30% of subjects treated with placebo.

Maintenance Study: QUASAR MS

The maintenance study (QUASAR MS) evaluated 568 subjects who achieved clinical response at Week 12 following the intravenous administration of TREMFYA I.V. in either QUASAR IS or from the QUASAR induction dose-ranging study. These subjects were randomized in a 1:1:1 ratio to receive a subcutaneous maintenance regimen of either TREMFYA 100 mg every 8 weeks, TREMFYA 200 mg every 4 weeks or placebo for 44 weeks. Randomization was stratified by clinical remission status at maintenance baseline (Yes/No), concomitant use of corticosteroids at maintenance baseline (Yes/No), and induction treatment (TREMFYA I.V. 400 mg, TREMFYA I.V. 200 mg, and placebo IV $\rightarrow$ TREMFYA I.V. 200 mg) (see Table 23).

The primary endpoint was clinical remission as defined by mMS at Week 44. Secondary endpoints at Week 44 included but were not limited to symptomatic remission, endoscopic improvement, corticosteroid-free clinical remission, histologic endoscopic mucosal improvement, and fatigue response (see Table 25). Clinical remission is defined as a stool frequency subscore of 0 or 1 and not increased from induction baseline, a rectal bleeding subscore of 0, and an endoscopy subscore of 0 or 1 with no friability present on the endoscopy. Endoscopic improvement is defined as an endoscopy subscore of 0 or 1 with no friability present on the endoscopy. Clinical response is defined as a decrease from induction baseline in

the modified Mayo score by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 -point decrease from induction baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0 or 1. Histologic endoscopic mucosal improvement is defined as a combination of histologic improvement (neutrophil infiltration in $<5\%$ of crypts, no crypt destruction, and no erosions, ulcerations or granulation tissue according to the Geboes grading system) and endoscopic improvement as defined above.

The findings for the primary and key secondary endpoints assessed at Week 44 of QUASAR MS are shown in Table 25.

Table 25: Proportion of Subjects Meeting Efficacy Endpoints at Week 44 in QUASAR MS

Endpoint	Placebo N=190	TREMFYA 100 mg q8w ^a N=188	TREMFYA 200 mg q4w ^b N=190	Treatment Difference vs Placebo (95% CI)	
				TREMFYA 100 mg	TREMFYA 200 mg
Clinical remission	36 (19%)	85 (45%)	95 (50%)	25% (16%, 34%) ^c	30% (21%, 38%) ^c
Advanced therapy naïve ^d	28/108 (26%)	53/105 (50%)	56/96 (58%)		
Prior advanced therapy failure	6/75 (8%)	31/77 (40%)	35/88 (40%)		
Corticosteroid-free clinical remission^e	35 (18%)	85 (45%)	93 (49%)	26% (17%, 34%) ^c	29% (20%, 38%) ^c
Advanced therapy naïve ^d	28/108 (26%)	53/105 (50%)	54/96 (56%)		
Prior advanced therapy failure	5/75 (7%)	31/77 (40%)	35/88 (40%)		
Endoscopic improvement	36 (19%)	93 (49%)	98 (52%)	30% (21%, 38%) ^c	31% (22%, 40%) ^c
Advanced therapy naïve ^d	28/108 (26%)	56/105 (53%)	57/96 (59%)		
Prior advanced therapy failure	6/75 (8%)	35/77 (45%)	37/88 (42%)		
Histologic endoscopic mucosal improvement	32 (17%)	82 (44%)	91 (48%)	26% (17%, 34%) ^c	30% (21%, 38%) ^c
Advanced therapy naïve ^d	25/108 (23%)	52/105 (50%)	54/96 (56%)		
Prior advanced therapy failure	6/75 (8%)	29/77 (38%)	34/88 (39%)		
Clinical response	82 (43%)	146 (78%)	142 (75%)	34% (25%, 43%) ^c	31% (21%, 40%) ^c
Advanced therapy naïve ^d	58/108 (54%)	87/105 (83%)	78/96 (81%)		
Prior advanced therapy failure	21/75 (28%)	54/77 (70%)	59/88 (67%)		

^a TREMFYA 100 mg as a subcutaneous injection every 8 weeks after the induction regimen.

^b TREMFYA 200 mg as a subcutaneous injection every 4 weeks after the induction regimen.

^c Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level, adjusted treatment difference (95% CI) based on Cochran-Mantel-Haenszel method adjusted for randomization stratification factors.

^d Does not include an additional 7 participants in the placebo group, 6 participants in the TREMFYA 100mg group, and 6 participants in the TREMFYA 200mg group who were previously exposed to but did not fail an advanced therapy.

^e Not requiring any treatment with corticosteroids for at least 8 weeks prior to Week 44 and also meeting the criteria for clinical remission at Week 44.

Symptomatic Assessment

Symptomatic remission is defined as a stool frequency subscore of 0 or 1 and not increased from induction baseline, and a rectal bleeding subscore of 0. At Week 44, symptomatic

remission was achieved in 70% of subjects treated with TREMFYA 100 mg q8w, 69% of subjects treated with TREMFYA 200 mg q4w, and 37% of subjects treated with placebo.

Maintenance of Clinical Remission

Maintenance of clinical remission at Week 44 in subjects who achieved clinical remission 12 weeks after induction was achieved in 61% of subjects treated with TREMFYA 100 mg q8w, 72% of subjects treated with TREMFYA 200 mg q4w, and 34% of subjects treated with placebo.

Endoscopic and Histologic Assessment

Endoscopic remission (endoscopy subscore of 0) at Week 44 was achieved in 35% of subjects treated with TREMFYA 100 mg q8w, 34% of subjects treated with TREMFYA 200 mg q4w, and 15% of subjects treated with placebo.

Histologic remission (Geboes histologic score ≤ 2 B.0 indicating the absence of neutrophils from the mucosa [both lamina propria and epithelium], no crypt destruction, and no erosions, ulcerations or granulation tissue) at Week 44 was achieved by 59% subjects treated with TREMFYA 100 mg SC q8w, 61% of subjects treated with TREMFYA 200 mg SC q4w, and 27% of subjects treated with placebo.

Combined endoscopic remission and histologic remission at Week 44 was achieved by 31% of subjects treated with TREMFYA 100 mg SC q8w, 33% of subjects treated with TREMFYA 200 mg SC q4w, and 14% of subjects treated with placebo.

Health Related Quality of Life

Fatigue response is defined as a ≥ 7 -point improvement from baseline, which is considered clinically meaningful, as assessed using the PROMIS-Fatigue Short form 7a. At Week 44, fatigue response was achieved in 51% of subjects treated with TREMFYA 100 mg q8w, 43% of subjects treated with TREMFYA 200 mg q4w, and 29% of subjects treated with placebo.

IBDQ remission (Total Inflammatory Bowel Disease Questionnaire score ≥ 170) at Week 44 was achieved in 64% of subjects treated with TREMFYA 100 mg q8w, 64% of subjects treated with TREMFYA 200 mg q4w, and 37% of subjects treated with placebo.

ASTRO Study

In ASTRO, a total of 418 subjects were randomized in a 1:1:1 ratio to receive TREMFYA 400 mg subcutaneous induction at Weeks 0, 4 and 8 followed by TREMFYA 200 mg subcutaneous maintenance every 4 weeks; or TREMFYA 400 mg subcutaneous induction at Weeks 0, 4 and 8, followed by TREMFYA 100 mg subcutaneous maintenance every 8 weeks; or placebo. Randomization was stratified by ADT-failure status (inadequate response, loss of response, or intolerance to ADT) (Yes/No), and Mayo endoscopy subscore at baseline (moderate [2]/severe [3]).

At baseline the median mMS was 7, with 35.3% of subjects having a baseline mMS of 5 to 6 and 62.1% having a mMS of 7 to 9, and 56.0% of subjects with a baseline ES of 3. Extensive disease was present in 53.6% of subjects. The median age of subjects was 40 years (ranging from 18 to 80 years); 38.8% were female; and 64.6% identified as White, 28.9% as Asian, and 3.1% as Black or African American.

Enrolled subjects were permitted to use stable doses of oral aminosalicylates, immunomodulators (azathioprine, 6-mercaptopurine, methotrexate), and/or oral corticosteroids (up to 20 mg/day prednisone or equivalent). At baseline, 77.3% of subjects were receiving aminosalicylates, 20.1% of subjects were receiving immunomodulators, and 32.8% of subjects were receiving corticosteroids. Concomitant biologic therapies, JAK inhibitors, or sphingosine-1-phosphate receptor modulators (S1PRM) were not permitted.

A total of 40.2% of subjects had previously failed treatment with at least one advanced therapy. Of these subjects, 69.6% had failed one class of advanced therapy, and 30.4% had failed two or more classes. A total of 58.1% were advanced therapy naïve, and 1.7% had previously received but had not failed an advanced therapy.

The primary endpoint was clinical remission at Week 12. Secondary endpoints at Week 12 included symptomatic remission, endoscopic improvement, clinical response and histologic-endoscopic mucosal improvement (see Table 26). Secondary endpoints at Week 24 included clinical remission, symptomatic remission, and endoscopic improvement (see Table 27).

Clinical remission is defined as a stool frequency subscore of 0 or 1 and not increased from baseline, a rectal bleeding subscore of 0, and an endoscopy subscore of 0 or 1 with no friability. Symptomatic remission is defined as a stool frequency subscore of 0 or 1 and not increased from induction baseline, and a rectal bleeding subscore of 0. Endoscopic improvement (healing) is defined as an endoscopy subscore of 0, or 1 with no friability. Clinical response is defined as a decrease from baseline in the modified Mayo score by $\geq 30\%$ and ≥ 2 points, with either a ≥ 1 point decrease from baseline in the rectal bleeding subscore or a rectal bleeding subscore of 0 or 1. Histologic-endoscopic mucosal improvement is defined as an endoscopy subscore of 0 or 1 with no friability and Geboes score ≤ 3.1 (indicating neutrophil infiltration in $<5\%$ of crypts, no crypt destruction, and no erosions, ulcerations, or granulation tissue).

The findings for the primary and key secondary endpoints of ASTRO study are shown in Table 26 when assessed at Week 12 and in Table 27 when assessed at Week 24.

Table 26: Proportion of Subjects Meeting Efficacy Endpoints at Week 12 in ASTRO

Endpoint	Placebo (N=139)	TREMFYA 400 mg SC ^a (N=279)	Treatment Difference vs Placebo (95% CI) ^b
Clinical remission	9 (6%)	77 (28%)	21% (15%, 28%) ^b
Advanced therapy naïve ^c	7/79 (9%)	59/164 (36%)	
Prior advanced therapy failure	2/56 (4%)	18/112 (16%)	
Endoscopic improvement	18 (13%)	104 (37%)	24% (17%, 32%) ^b
Advanced therapy naïve ^c	14/79 (18%)	75/164 (46%)	
Prior advanced therapy failure	4/56 (7%)	27/112 (24%)	
Clinical response	48 (35%)	183 (66%)	31% (22%, 40%) ^b
Advanced therapy naïve ^c	33/79 (42%)	117/164 (71%)	
Prior advanced therapy failure	14/56 (25%)	64/112 (57%)	
Histologic endoscopic mucosal improvement	15 (11%)	85 (30%)	20% (12%, 27%) ^b
Advanced therapy naïve ^c	11/79 (14%)	63/164 (38%)	
Prior advanced therapy failure	4/56 (7%)	21/112 (19%)	

^a TREMFYA 400 mg SC induction at Week 0, Week 4, and Week 8

^b Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level; adjusted treatment difference (95% CI) based on the Mantel-Haenszel estimate of the common risk difference adjusted for randomization stratification factors.

^c Does not include an additional 4 subjects in the placebo group and 3 subjects in the TREMFYA group that were previously exposed to but did not fail an advanced therapy.

Table 27: Proportion of Subjects Meeting Efficacy Endpoints at Week 24 in ASTRO

Endpoint	Placebo (N=139)	TREMFYA 400 mg SC induction→ 100 mg SC q8w ^a (N=139)	TREMFYA 400 mg SC induction→ 200 mg SC q4w ^b (N=140)	Treatment Difference vs Placebo (95% CI) ^c	
				TREMFYA 100 mg	TREMFYA 200 mg
Clinical remission	13 (9%)	49 (35%)	51 (36%)	26% (17%, 35%) ^c	27% (18%, 36%) ^c
Advanced therapy naïve ^d	10/79 (13%)	40/81 (49%)	36/83 (43%)		
Prior advanced therapy failure	3/56 (5%)	9/57 (16%)	15/55 (27%)		
Endoscopic improvement	17 (12%)	56 (40%)	63 (45%)	28% (18%, 38%) ^c	33% (23%, 42%) ^c
Advanced therapy naïve ^d	14/79 (18%)	44/81 (54%)	43/83 (52%)		
Prior advanced therapy failure	3/56 (5%)	11/57 (19%)	20/55 (36%)		
Clinical Response	43 (31%)	88 (63%)	86 (61%)	32% (21%, 43%) ^c	30% (20%, 41%) ^c

Endpoint	Placebo (N=139)	TREMFYA 400 mg SC induction→ 100 mg SC q8w ^a (N=139)	TREMFYA 400 mg SC induction→ 200 mg SC q4w ^b (N=140)	Treatment Difference vs Placebo (95% CI) ^c	
				TREMFYA 100 mg	TREMFYA 200 mg
Advanced therapy naïve ^d	29/79 (37%)	60/81 (74%)	60/83 (72%)		
Prior advanced therapy failure	12/56 (21%)	27/57 (47%)	26/55 (47%)		

^a TREMFYA 400 mg SC induction at Weeks 0, 4 and 8, followed by TREMFYA 100 mg SC q8w

^b TREMFYA 400 mg SC induction at Weeks 0, 4 and 8, followed by TREMFYA 200 mg SC q4w

^c Statistically significant versus placebo based on the pre-defined testing hierarchy at the 2-sided 0.05 significance level; adjusted treatment difference (95% CI) based on the Mantel-Haenszel estimate of the common risk difference adjusted for randomization stratification factors.

^d Does not include an additional 4 subjects in the placebo group, 1 subject in the TREMFYA 100 mg group, and 2 subjects in the TREMFYA 200 mg group were previously exposed to but did not fail an advanced therapy.

Rectal Bleeding and Stool Frequency Subscores

Decreases in rectal bleeding and stool frequency subscores were observed as early as Week 2 in subjects treated with TREMFYA compared to placebo.

Symptomatic Assessment

At Week 12, symptomatic remission was achieved in 51% of subjects treated with TREMFYA and 21% of subjects treated with placebo. At Week 24, symptomatic remission was achieved in 55% of subjects in the TREMFYA 100 mg SC q8w arm, 50% of subjects in the TREMFYA 200 mg SC q4w arm, and 25% of subjects in the placebo arm.

Endoscopic Assessment

Endoscopic remission (normalization) was defined as ES of 0. At Week 12, endoscopic remission was achieved in 17% of subjects treated with TREMFYA 400 mg SC induction compared to 4% of subjects on placebo. At Week 24, endoscopic remission was achieved in 21% of subjects in the TREMFYA 100 mg SC q8w arm, 26% of subjects in the TREMFYA 200 mg SC q4w arm, and 4% of subjects in the placebo arm.

16 Non-clinical Toxicology

General Toxicology: In repeat-dose toxicity studies in cynomolgus monkeys, guselkumab was well-tolerated at weekly doses up to 50 mg/kg intravenously for 5 weeks or 50 mg/kg subcutaneously for up to 24 weeks. Additionally, there were no effects on cardiovascular, respiratory, and nervous system function, clinical pathology, or anatomical pathology parameters. At the NOAEL dose (50 mg/kg once weekly), AUC_{last} was approximately 23 times the clinical exposure following a dose of 200 mg given intravenously and approximately 22 times the clinical exposure following a dose of 400 mg given subcutaneously to adults.

Genotoxicity: Studies have not been conducted to evaluate the genotoxic potential of guselkumab.

Carcinogenicity: Studies have not been conducted to evaluate the carcinogenic potential of guselkumab.

Reproductive and Developmental Toxicology: In a combined embryo-fetal developmental and pre- and post-natal development toxicity study, pregnant cynomolgus monkeys (19, 20, and 20 in the 0, 10 and 50 mg/kg groups, respectively) were administered weekly subcutaneous doses of guselkumab from the beginning of organogenesis to parturition. Neonatal deaths occurred in the offspring of 1 of 16 control monkeys and of 3 of 14 monkeys in each of the guselkumab-administered groups (AUC_{last} at the 10 mg/kg dose was 7-fold greater than human levels following a dose of 200 mg given subcutaneously). These neonatal deaths were attributed to maternal neglect, trauma, and early or late delivery, although a drug-related effect could not be ruled out. Fetal losses (spontaneous abortions, including stillbirths) were also observed at all dose levels, all of which were within the historical control range for the testing facility, but for which a drug-related effect could also not be ruled out. The clinical significance of these findings is unknown. No guselkumab-related effects on functional or immunological development were observed in the infants from birth through 6 months of age.

No effects on fertility or early embryonic development were observed following administration of female guinea pigs with guselkumab at subcutaneous doses up to 100 mg/kg twice-weekly before mating, through mating, and during early gestation to implantation (AUC_{last} was 21-fold greater than human levels following a dose of 200 mg given subcutaneously).

In a male fertility and early embryonic development toxicity study conducted in guinea pigs, the incidence of total litter loss increased in untreated females (5 of 22 untreated females) mated with males administered with guselkumab at a subcutaneous dose of 100 mg/kg twice weekly prior to mating and through mating for a total of 21 doses. In a second male fertility and early embryonic developmental toxicity study, there were no total litter losses in untreated females mated with treated males (100 mg/kg twice weekly). No effects on male fertility or early embryonic development were observed at a dose of 25 mg/kg (AUC_{last} was 10-fold greater than human levels following a dose of 200 mg given subcutaneously).

Juvenile Toxicity: No juvenile toxicity studies have been conducted with guselkumab.

Patient Medication Information (TREMFYA)

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

TREMFYA®

(guselkumab injection)

Solution for injection

45 mg/0.45 mL VarioJect (variable dose injector)

100 mg/1 mL pre-filled syringe

100 mg/1 mL TREMFYA One-Press (patient-controlled injector)

200 mg/2 mL pre-filled syringe

100 mg/1 mL pen

200 mg/2 mL pen

This Patient Medication Information is written for the person who will be taking **TREMFYA**. This may be you or a person you are caring for. Read this information carefully. Keep it as you may need to read it again.

This Patient Medication Information is a summary. It will not tell you everything about this medication. If you have more questions about this medication or want more information about **TREMFYA**, talk to a healthcare professional.

What is TREMFYA used for:

- **Adults with Plaque Psoriasis**

TREMFYA is a prescription medicine used to treat adults with moderate to severe “plaque psoriasis”, an inflammatory condition affecting the skin and nails. Plaque psoriasis can cause raised, thick, red and scaly patches (“psoriatic lesions”) that can appear anywhere on your body. TREMFYA reduces the inflammation and other symptoms of the disease.

- **Children 6 to 17 years of age with Plaque Psoriasis**

TREMFYA is used to treat children 6 years of age and older with moderate to severe plaque psoriasis.

- **Adults with Psoriatic Arthritis**

TREMFYA is used to treat adults with active psoriatic arthritis. Psoriatic arthritis is an inflammatory disease of the joints, usually accompanied by psoriasis. Psoriatic arthritis can cause pain, swelling and stiffness in the joints, in addition to a disruption in daily activities and fatigue. If you have active psoriatic arthritis, you will be given TREMFYA alone or in combination with a conventional Disease Modifying Anti-Rheumatic Drug (cDMARD) such as methotrexate. TREMFYA reduces signs and symptoms of your arthritis and may improve symptoms in patients that have psoriasis.

- **Children 6 to 17 years of age with Psoriatic Arthritis**

TREMFYA is used to treat children 6 years of age and older with active psoriatic arthritis.

- **Crohn's Disease**

TREMFYA is used to treat adults with moderately to severely active Crohn's disease, an inflammatory disease of the bowel. Using TREMFYA in Crohn's disease can benefit you by reducing the signs and symptoms of the disease such as diarrhea, abdominal pain, and the inflammation of your intestinal lining. This may enable your normal daily activities and reduce fatigue.

- **Ulcerative Colitis**

TREMFYA is used to treat adults with moderately to severely active ulcerative colitis, an inflammatory disease of the bowel. Using TREMFYA in ulcerative colitis will benefit you by reducing the signs and symptoms of the disease including bloody stools, the need to rush to and the number of times you go to the toilet, abdominal pain and the inflammation of your intestinal lining. This may enable your normal daily activities and reduce fatigue.

How does TREMFYA work:

TREMFYA contains the active substance guselkumab. Guselkumab is a monoclonal antibody. Monoclonal antibodies are proteins that recognize and bind specifically to certain proteins in the body. This medicine works by neutralizing the activity of a protein called IL-23, which is present at increased levels in diseases such as plaque psoriasis, psoriatic arthritis, Crohn's disease and ulcerative colitis.

Plaque Psoriasis

Using TREMFYA can help to improve your skin clearance and to reduce your symptoms of psoriasis such as itching, pain, stinging, burning and skin tightness.

Psoriatic Arthritis

Using TREMFYA can help reduce the signs and symptoms of psoriatic arthritis such as pain, stiffness, and swelling in and around your joints, and psoriatic skin rash.

Crohn's disease

Using TREMFYA can help to improve your Crohn's disease and to reduce your symptoms such as diarrhea, abdominal pain, and the inflammation of your intestinal lining.

Ulcerative colitis

Using TREMFYA can help to improve your ulcerative colitis and to reduce your symptoms such as bloody stools, the need to rush to and the number of times you go to the toilet, abdominal pain and the inflammation of your intestinal lining.

The ingredients in TREMFYA are:

Medicinal ingredients: guselkumab

Non-medicinal ingredients: L-histidine, L-histidine monohydrochloride monohydrate, polysorbate 80, sucrose and water for injection.

TREMFYA comes in the following dosage forms:

Variable dose injector:

- 45 mg in 0.45 mL of solution for injection in a single-use variable dose injector called VarioJect. For pediatric patients weighing less than 40 kg (< 88 pounds).

Pre-filled syringe:

- 100 mg in 1 mL of solution for injection in a single-dose pre-filled syringe. For adults and pediatric patients weighing 40 kg or more ($\geq$ 88 pounds).
- 200 mg in 2 mL of solution for injection in a single-dose pre-filled syringe. For adults only.

Pen:

- 100 mg in 1 mL of solution for injection in a single-dose pre-filled pen. For adults and pediatric patients weighing 40 kg or more ($\geq$ 88 pounds).
- 200 mg in 2 mL of solution for injection in a single-dose pre-filled pen. For adults only.

TREMFYA One-Press:

- 100 mg in 1 mL of solution for injection in a single-dose patient-controlled injector. For adults only.

Do not use TREMFYA if:

- You are allergic to guselkumab or any of the ingredients in TREMFYA. See **The ingredients in TREMFYA are**
- You have an active infection, that your healthcare professional thinks is important.

If you think you are allergic or have an active infection, ask your healthcare professional for advice before using TREMFYA.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take TREMFYA. Talk about any health conditions or problems you may have, including if you:

- are being treated for an infection or if you have an infection that does not go away or keeps coming back. TREMFYA may lower your ability to fight infections and may increase your risk of infections.
- have tuberculosis (TB) or have been in close contact with someone with TB.
- think you have an infection or have symptoms of an infection such as
 - fever or flu-like symptoms
 - muscle aches
 - cough
 - shortness of breath
 - burning when you urinate or urinating more often than normal
 - blood in your phlegm (mucus)
 - weight loss
 - warm, red or painful skin or sores on your body different from your psoriasis
 - diarrhea or stomach pain
- have recently had a vaccination or if you are due to have a vaccination during treatment with TREMFYA. You should not be given certain types of vaccines (live vaccines) while using TREMFYA. Before starting TREMFYA, it is important to be up to date with all vaccinations recommended for your age group.
- are pregnant, think that you may be pregnant or are planning to have baby. If you are a woman of childbearing potential, use adequate contraception while using TREMFYA and

for at least 12 weeks after the last TREMFYA dose. Talk to your healthcare professional about your contraception options.

- are breast-feeding or plan to breast-feed. You and your healthcare professional should decide if you will breast-feed while using TREMFYA.
- as directed by your healthcare professional, you may need blood tests to check if you have high levels of liver enzymes before you start taking TREMFYA and while using it. Seek medical help immediately if you have symptoms or signs of liver injury which include unexplained rash, nausea, vomiting, stomach pain, tiredness, loss of appetite, yellowing of eyes or skin, dark urine.

Look out for infections and allergic reactions

- Do not use TREMFYA if you have any symptoms of infection unless you are instructed by your healthcare professional.
- **After starting TREMFYA, call your healthcare professional right away if you have any of the symptoms of an infection listed above.**
- **Serious allergic reactions, which can include symptoms of a swollen face, lips, mouth, tongue or throat, difficulty swallowing or breathing, hives and shortness of breath, have occurred with TREMFYA. Tell your healthcare professional or seek medical help immediately if you experience these symptoms.**

Children and adolescents (below the age of 18 years)

TREMFYA is not recommended for children and adolescents (under 18 years of age) with Crohn's disease or ulcerative colitis because it has not been studied in this age group.

TREMFYA is not recommended for children under 6 years of age with plaque psoriasis or active psoriatic arthritis because it has not been studied in this age group.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

How to take TREMFYA:

TREMFYA is intended for use under the guidance and supervision of your healthcare professional. Always use this medicine exactly as your healthcare professional has told you. Check with your healthcare professional if you are not sure.

TREMFYA is given by injection under your skin (subcutaneous injection).

Adults

You and your healthcare professional should decide if you should inject TREMFYA yourself. It is important not to try to inject yourself until you have been trained by your healthcare professional. A caregiver may also give you your TREMFYA injection after proper training.

Children and adolescents (6 to 17 years of age)

In children 6 to 17 years of age with psoriasis or active psoriatic arthritis, it is recommended that TREMFYA be administered by a healthcare professional. You or an adult caregiver may give your child TREMFYA injections if your healthcare professional says it is appropriate. If your

child's healthcare professional decides that you or another adult caregiver may give your child TREMFYA injections at home, you or the adult caregiver should be properly trained on the right way to give the injections by your healthcare professional. The first injection by you or another adult caregiver should be supervised by a healthcare professional. It is important not to try to inject your child until you have been trained by your healthcare professional. Ensure you follow-up regularly with your child's healthcare professional if you are giving TREMFYA injections at home.

Before use, take the carton out of the refrigerator and allow it to reach room temperature by waiting 30 minutes. Keep the TREMFYA pre-filled syringe, pen, or TREMFYA One-Press patient-controlled injector in the carton to protect from light.

Read the “Instructions for Use” document carefully before using TREMFYA.

Usual dose:

Your healthcare professional will decide how much TREMFYA you or your child needs and for how long.

Plaque Psoriasis - Adults

- The dose is 100 mg by subcutaneous injection.
- The first dose may be given by your healthcare professional.
- After the first dose, you will have the next dose 4 weeks later, followed by a dose every 8 weeks.

Plaque Psoriasis – Children

- If your child is 6 years of age and older and also weighs 40 kg (88 pounds) or more:
 - The first dose is 100 mg (given with the 1 mL pre-filled syringe or 1 mL pre-filled pen) by subcutaneous injection.
 - The first dose may be given by your healthcare professional.
 - After the first dose, your child will have the next dose 4 weeks later, followed by a dose every 8 weeks. The following doses are the same as the first dose.
- If your child is 6 years of age and older and also weighs less than 40 kg (88 pounds):
 - Your healthcare professional will decide the first dose for your child based on his or her weight. The dose will be given with the 45 mg/0.45 mL VarioJect by subcutaneous injection. This may be given by your healthcare professional.
 - After the first dose, your child will have the next dose 4 weeks later, followed by a dose every 8 weeks.
 - The dose your child receives may vary as your child's weight changes.

Psoriatic Arthritis - Adults

- The dose is 100 mg by subcutaneous injection.
- The first dose may be given by your healthcare professional.
- After the first dose, you will have the next dose 4 weeks later, followed by a dose every 8 weeks.

Psoriatic Arthritis – Children

- If your child is 6 years of age and older and also weighs 40 kg ($\geq$ 88 pounds) or more:
 - The first dose is 100 mg (given with the 1 mL pre-filled syringe or 1 mL pre-filled pen) by subcutaneous injection.
 - The first dose may be given by your healthcare professional.
 - After the first dose, your child will have the next dose 4 weeks later, followed by a dose every 8 weeks. The following doses are the same as the first dose.
- If your child is 6 years of age and older and also weighs less than 40 kg ($<$ 88 pounds):
 - Your healthcare professional will decide the first dose for your child based on his or her weight. The dose will be given with the 45 mg/0.45 mL VarioJect by subcutaneous injection. This may be given by your healthcare professional.
 - After the first dose, your child will have the next dose 4 weeks later, followed by a dose every 8 weeks.
 - The dose your child receives may vary as your child's weight changes.

Crohn's Disease and Ulcerative Colitis

Treatment start

Treatment start can be given by either intravenous infusion (drip in a vein in your arm) or administered subcutaneously (injections under the skin).

Intravenous Infusion (TREMFYA I.V.):

- The first dose is 200 mg and will be given by your healthcare professional by intravenous infusion over at least 1 hour (refer to the Patient Medication Information for TREMFYA I.V.).
- After the first dose, you will have the second dose by intravenous infusion 4 weeks later, and then a third dose by intravenous infusion after an additional 4 weeks.

Subcutaneous administration (TREMFYA):

- The first dose is 400 mg and will be given by injections under the skin at different locations of the body.
After the first dose, you will have a second 400 mg dose 4 weeks later and then a third 400 mg dose after an additional 4 weeks.

Maintenance therapy (TREMFYA)

A maintenance dose will be given by injection under the skin (subcutaneous injection) either with 100 mg or 200 mg. Your healthcare professional will decide which maintenance dose you will receive:

- A dose of 100 mg will be given 8 weeks after the third treatment start dose, followed by a dose every 8 weeks.
- A dose of 200 mg will be given 4 weeks after the third treatment start dose, followed by a dose every 4 weeks.

TREMFYA is for long-term treatment. Your healthcare professional will regularly monitor your condition to check that the treatment is having the desired effect.

You should not stop using TREMFYA unless you think it is causing a severe side effect. Speak to your healthcare professional as soon as possible if this happens.

Overdose:

If you accidentally inject more TREMFYA than you should or the dose has been given sooner than prescribed, inform your healthcare professional.

If you think you, or a person you are caring for, have taken too much TREMFYA, contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669) immediately, even if there are no signs or symptoms.

Missed dose:

If you forget to take your TREMFYA dose, inject a dose as soon as you remember. Then, take your next dose at your regular scheduled time. If you are not sure what to do, contact your healthcare professional.

Possible side effects from using TREMFYA:

As with all medicines, this medicine can cause side effects, although not everybody gets them.

Most of the following side effects are mild to moderate. If any of these side effects becomes severe, tell your healthcare professional.

Some side effects are very common (may affect more than 1 in 10 people)

- Infections of the nose, sinuses, or throat (e.g. common cold) or chest infections (bronchitis)

Some side effects are common (may affect up to 1 in 10 people):

- Redness, pain, irritation, swelling, bruising and/or itching at the injection site
- diarrhea
- headache
- joint pain
- increased level of liver enzymes in the blood

Some side effects are uncommon (may affect up to 1 in 100 people):

- stomach flu (gastroenteritis)
- herpes simplex infections (e.g. cold sores, genital herpes)
- fungal infections of the skin (e.g. athlete's foot)
- migraine
- yeast infections
- allergic reactions
- skin rash
- decreased number of a type of white blood cell called neutrophils

These are not all the possible side effects you may feel when taking TREMFYA. If you experience any side effects not listed here, contact your healthcare professional.

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (canada.ca/drug-device-reporting) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Store TREMFYA in the refrigerator between 2°C to 8°C (36°F to 46°F).

Do not freeze. Do not use if TREMFYA has been frozen.

Do not shake TREMFYA.

Store in original packaging to protect from light until use.

Keep out of reach and sight of children.

Do not use TREMFYA:

- if you notice that it is damaged or the seal is broken.
- if the liquid is discoloured, cloudy or you can see large particles floating in it.
- after the expiry date which is stated on the label and on the outer carton after “EXP.”

TREMFYA is for single use only. Ask your healthcare professional how to throw away medicines that are no longer required.

If you want more information about TREMFYA:

- Talk to your healthcare professional
- For questions or concerns, contact the manufacturer, Janssen Inc. (innovativemedicine.jnj.com/canada)
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website <https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>; the manufacturer's website

innovativemedicine.jnj.com/canada, or by contacting the manufacturer at: 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Date of Authorization: 2026-08-14

© Johnson & Johnson and its affiliates 2026

All trademarks used under license.

Instructions For Use (TREMFYA 45 mg VarioJect Injector)

PrTREMFYA®
(guselkumab injection)

45 mg/0.45 mL, VarioJect® injector
for pediatric patients less than 40 kg

SINGLE-USE DEVICE

This Instructions for Use contains information on how to inject TREMFYA.



Know your dose.

Important Information You Need to Know Before Injecting TREMFYA

TREMFYA comes in a single-use VarioJect injector that allows you to manually set a specific, prescribed dose.

If unsure of the correct dose, contact the prescribing healthcare professional before injecting.

If your healthcare professional decides that a caregiver may be able to give your injections of TREMFYA at home, **they should receive training on the correct way to prepare and inject TREMFYA before using the VarioJect injector.** If your caregiver has not been trained, or has any questions, please call your healthcare professional.

Read this Instructions for Use before using the VarioJect injector and each time you get a refill. There may be new information.

This leaflet does not take the place of talking with your healthcare professional about your medical condition or your treatment.

Each VarioJect injector can only be used one time. Throw away the used VarioJect injector after one dose, even if there is medicine left in it.

Do not reuse the VarioJect injector.



Storage information

Store in refrigerator between **2°C to 8°C**.

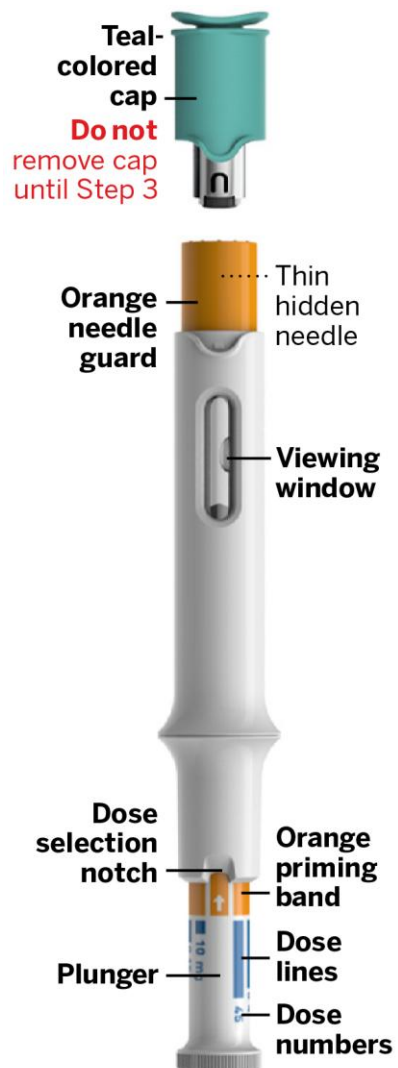
Do not freeze the VarioJect injector.

Do not shake the VarioJect injector.

Keep the VarioJect injector in the original carton to protect from light and physical damage.

Keep the VarioJect injector and all medicines out of reach of children.

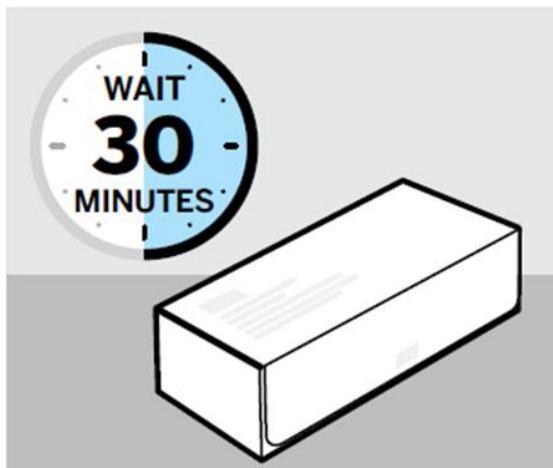
VarioJect injector parts



You will need these supplies:

- VarioJect® injector
- Not provided in the VarioJect® injector carton:**
- Alcohol swab
 - Cotton ball or gauze pad
 - Adhesive bandage
 - Sharps container

1. Get ready



Allow TREMFYA to come to room temperature and inspect carton

Remove the carton from the refrigerator and let the carton sit on a flat surface at room temperature for approximately **30 minutes** before use.

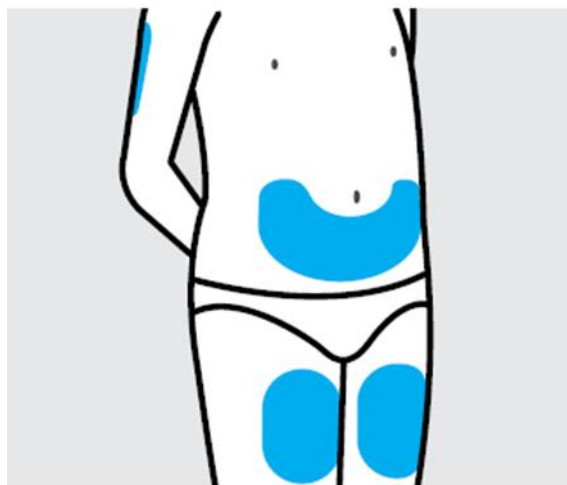
Do not warm the VarioJect injector any other way.

Check the expiration date ('EXP') on the carton.

Do not use the VarioJect injector if the expiration date has passed or if the seal on the carton is broken.

Call your healthcare professional for a new VarioJect injector.

2. Prepare to inject TREMFYA



Choose injection site

Select a site from the following areas for the injection:

- Front of thighs
- Lower stomach area (lower abdomen), avoiding the 2-inch (5-centimetre) area around the navel (belly button)
- Back of upper arms

Do not inject into skin that is tender, bruised, red, scaly, hard, thick, has scars, or is affected by psoriasis.

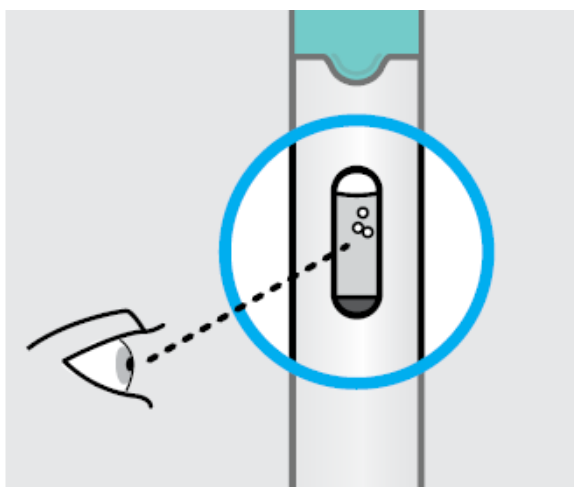


Wash hands and clean injection site

Wash your hands well with soap and warm water.

Wipe the chosen injection site with an alcohol swab and allow it to dry by air.

Do not touch, fan, or blow on the injection site after you have cleaned it.



Inspect liquid in viewing window

Take the VarioJect injector out of the carton.

Check the liquid in the viewing window. It should be clear and colourless to slightly yellow and may contain tiny white or clear particles.

You may also see air bubbles.

This is normal.

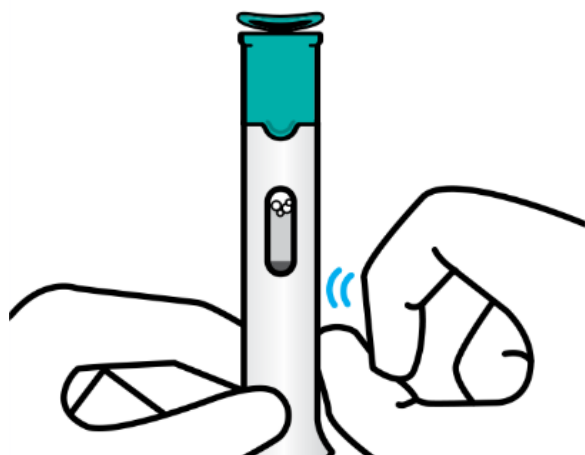
Do not inject if the liquid is:

- cloudy or
- discoloured or
- has large particles

Call your healthcare professional for a new VarioJect injector.

3. Remove air bubbles

Keep the VarioJect® injector pointing up during this step

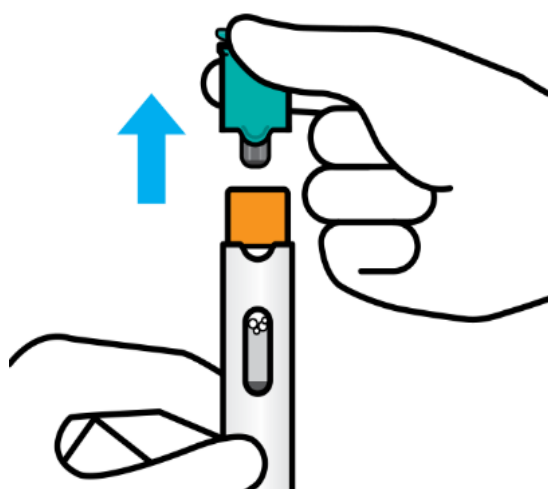


Tap VarioJect injector to move air bubbles to the top even if you do not see any air bubbles

Hold the VarioJect injector with the **teal-coloured cap pointing up**.

Tap gently near the viewing window. This will cause any air bubbles to rise to the top.

Do not set the VarioJect injector down until air bubbles are removed.



Remove cap

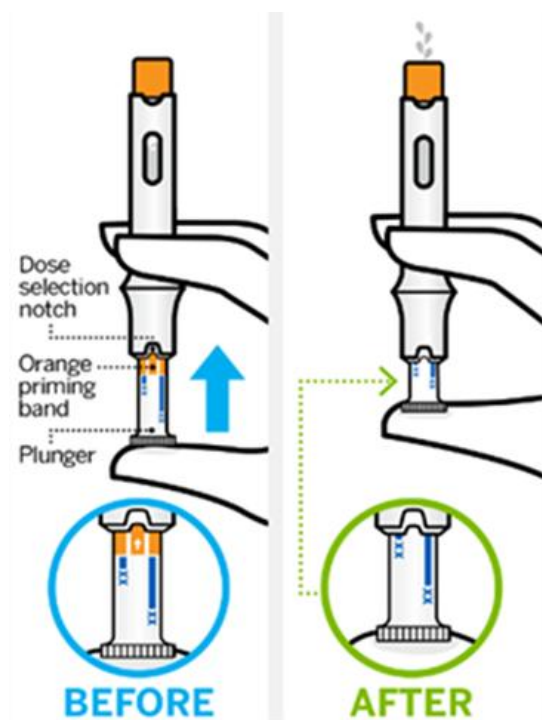
Keep holding the VarioJect injector with the teal cap pointing up, then **pull** the cap to remove.

Keep hands away from the orange needle guard after the cap is removed.

Pushing the needle guard too soon may lock the VarioJect® injector and you will not be able to give the dose.

Do not put the cap back on as this may damage the needle.

Do not use the VarioJect injector if it is dropped after removing the cap. Call your healthcare professional for a new VarioJect injector.



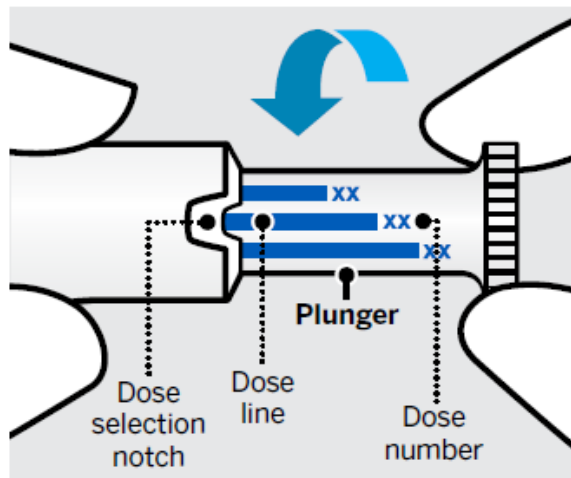
Press the plunger until it stops to push out air bubbles

Keep holding the VarioJect injector with the orange needle guard pointing up.

Confirm air bubbles are removed by checking that the orange priming band is no longer visible in the dose selection notch.

Liquid may squirt out. This is normal.

4. Set the dose



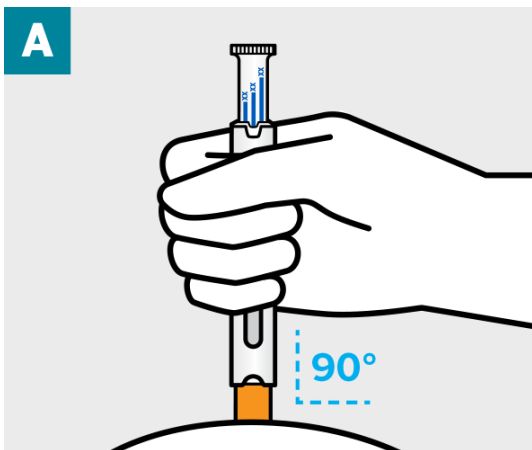
Turn the plunger to set the dose

Turn the plunger until the dose line and dose number that corresponds to the prescribed dose (see table below) is in the dose selection notch as shown in the image above.

Prescribed dose	Turn plunger to:
20 mg =	20 mg
25 mg =	25
30 mg =	30
35 mg =	35
40 mg =	40
45 mg =	45

5. Inject TREMFYA

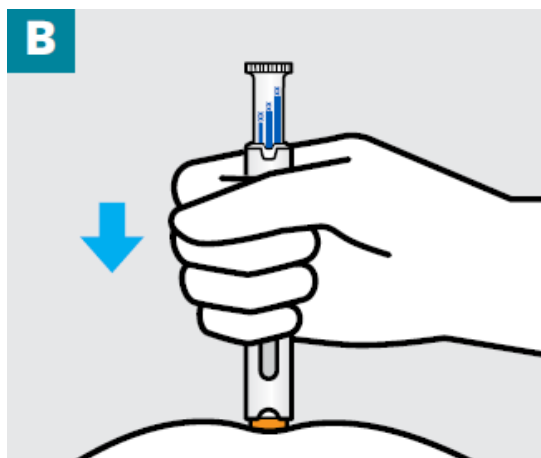
Read all sub-steps from A to D before injecting



Position VarioJect injector straight onto the injection site

Position the VarioJect injector straight onto the injection site with the orange needle guard against the skin and the viewing window facing you.

Continue to hold the VarioJect injector against the skin.

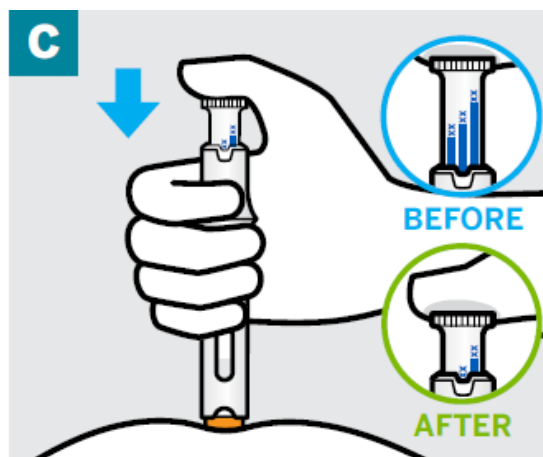


Push VarioJect injector down to insert the needle into the skin and hold in place

Do not press the plunger yet.

Do not lift the VarioJect injector from the skin.

Push the VarioJect injector into the skin until the orange needle guard stops to insert the needle into the skin. Some orange will still be showing.



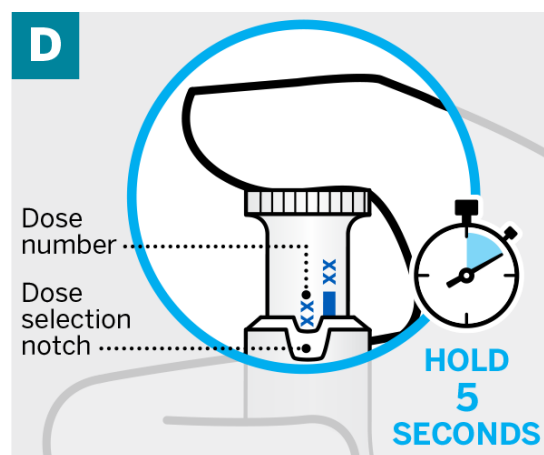
Slowly press the plunger all the way down until it stops to inject TREMFYA

Do not lift the VarioJect injector from the skin during the injection.

Otherwise, the orange needle guard will lock, and you will not be able to give the full dose.

You will feel some resistance as you press the plunger. This is normal.

If a small dose is set, the plunger will only move a short distance.



Hold and confirm injection is complete

Hold the VarioJect injector in place and keep pushing against the skin for 5 seconds.

Confirm injection is complete by checking that:

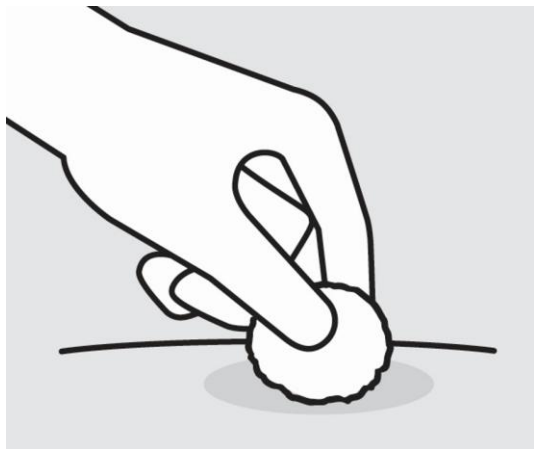
- **you cannot press the plunger down any more**
- **the selected blue dose line is no longer visible**
- **only the selected dose number is visible in the dose selection notch**

After confirming, lift the VarioJect injector from the skin.

The orange needle guard will extend and lock.

It is normal to see some liquid left in the viewing window.

6. After injection



Check injection site

There may be a small amount of blood or liquid at the injection site. Gently hold pressure over the injection site with a cotton ball or gauze pad until any bleeding stops.

Do not rub the injection site.

If needed, cover injection site with a bandage.



Dispose of the VarioJect injector

Put the used VarioJect injector in a sharps disposal container right away after use.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.

Do not throw away (dispose of) the VarioJect injector in your household trash.

Do not recycle the used sharps disposal container.



Need help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns, visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Last Revised: 2026-07-16

All trademarks used under license.

Instructions For Use (TREMFYA 100 mg Pre-filled Syringe)

**PrTREMFYA®
(guselkumab injection)**

Pre-filled syringe



SINGLE-DOSE

PLEASE READ THESE INSTRUCTIONS BEFORE USE

Important

TREMFYA comes as a single-dose pre-filled syringe containing one 100 mg dose. Each pre-filled syringe can be used only one time. Throw the used pre-filled syringe away (see Step 3) after each dose, even if there is medicine left in it. Do not reuse your pre-filled syringe.

If your healthcare professional decides that you or a caregiver may be able to give your injections of TREMFYA at home, you should receive training on the right way to prepare and inject TREMFYA using the pre-filled syringe before attempting to inject.

Read this Instructions for Use document before using the TREMFYA pre-filled syringe and each time you get a refill. There may be new information. This instruction guide does not take the place of talking with your healthcare professional about your medical condition or your treatment. Please also read the Package Insert carefully and discuss any questions you may have with your healthcare professional.

The TREMFYA pre-filled syringe is intended for injection under the skin, not into the muscle or vein. After injection, the needle will retract into the body of the device and lock into place.



Storage information

Store in refrigerator at 2° to 8°C. Do not freeze.

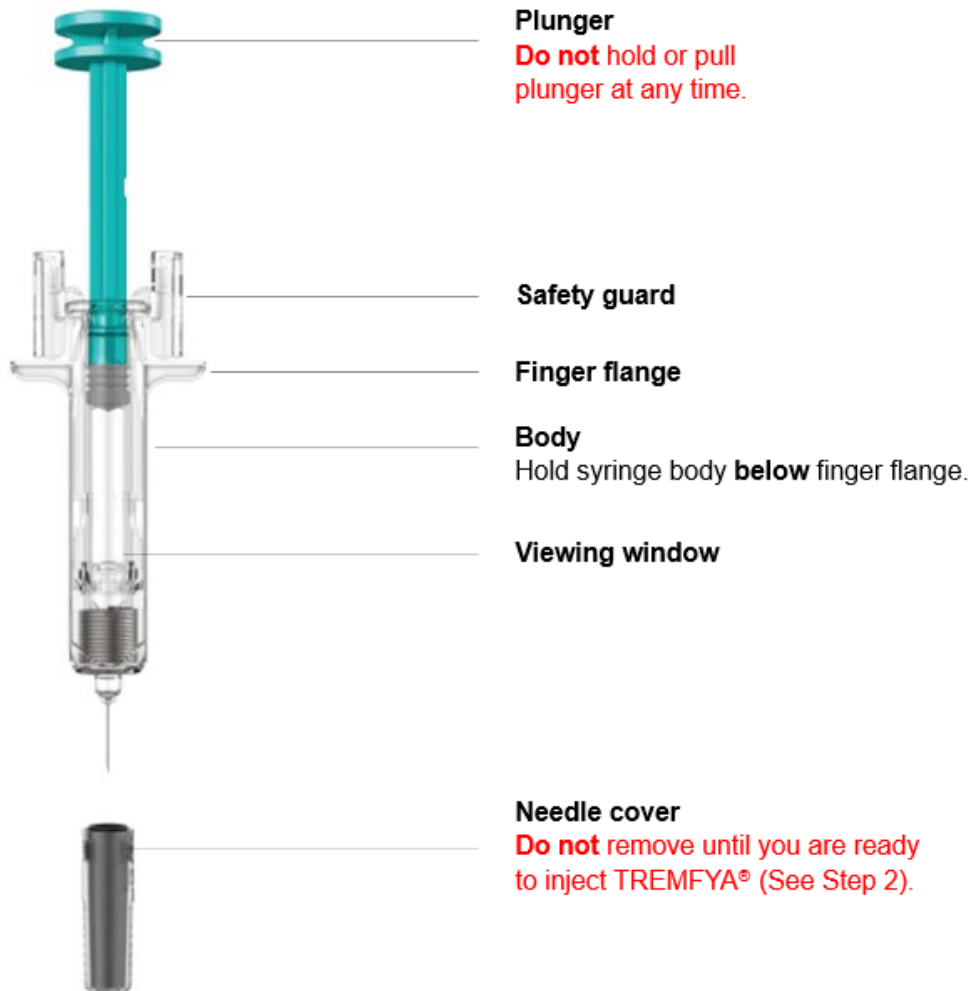
Keep TREMFYA and all medicines out of reach and sight of children.

Do not shake the pre-filled syringe.

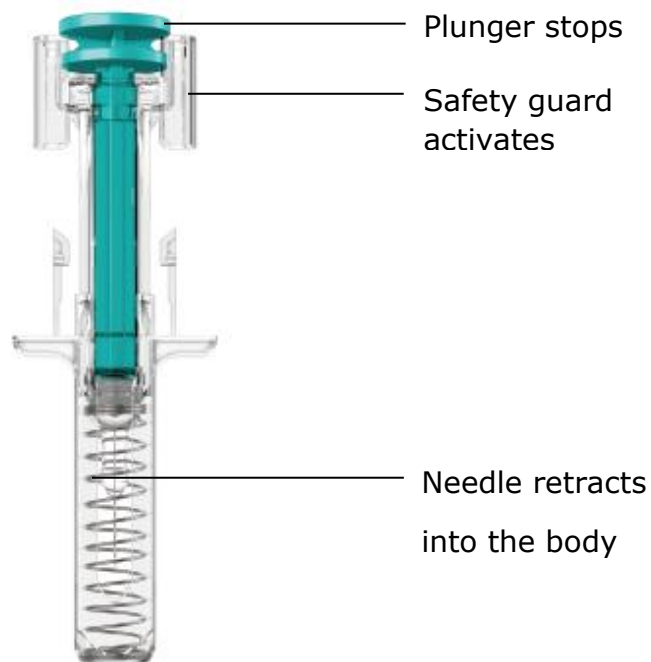
Keep TREMFYA pre-filled syringe in the original carton to protect from light and physical damage.

Pre-filled syringe parts

Before injection



After injection



You will need these additional supplies:

- **1 Alcohol swab**
- **1 Cotton ball or gauze pad**
- **1 Adhesive bandage**
- **1 Sharps container** (See Step 3)

1. Prepare for your injection



Inspect carton

Remove carton with the pre-filled syringe from the refrigerator.

Keep the pre-filled syringe in the carton and let it sit on a flat surface at room temperature for **at least 30 minutes** before use.

Do not warm any other way.

Check the expiration date ('EXP') on the back panel of the carton.

DO NOT use if the expiration date has passed.

Do not inject TREMFYA if the perforations on the carton are broken.

Call your healthcare professional for a refill.



Choose injection site

Select from the following areas for your injection:

- **Front of thighs** (recommended)
- Lower abdomen

Do not use the 2-inch (5-centimetre) area around belly-button.

- Back of upper arms (if a caregiver is giving you the injection)

DO NOT inject into skin that is tender, bruised, red, scaly or hard.

Do not inject into areas with scars or stretch marks.

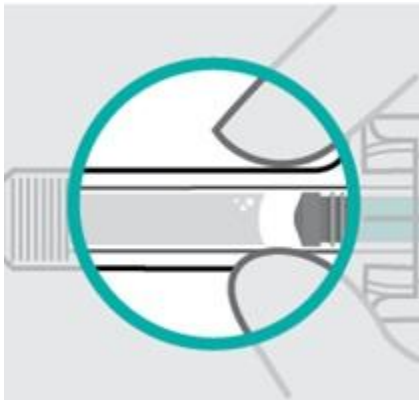


Clean injection site

Wash your hands well with soap and warm water.

Wipe your chosen injection site with an alcohol swab and allow it to dry.

Do not touch, fan or blow on the injection site after you have cleaned it.



Inspect liquid

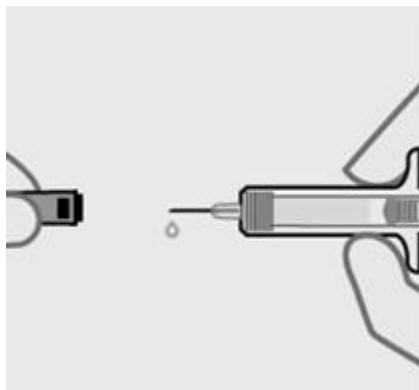
Take the pre-filled syringe out of the carton.

Check the liquid in the viewing window. It should be clear to slightly yellow and may contain tiny white or clear particles. You may also see one or more air bubbles.

This is normal.

Do not inject if the liquid is cloudy or discoloured, or has large particles. Call your healthcare professional for a refill.

2. Inject TREMFYA® using the pre-filled syringe



Remove needle cover

Hold syringe by the body and pull needle cover straight off.

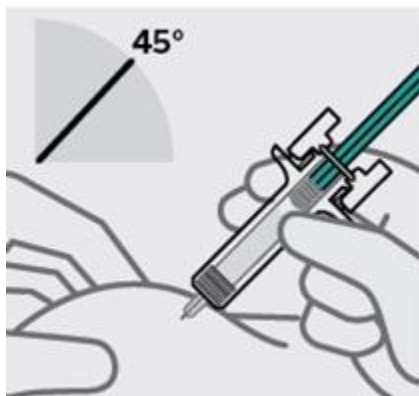
It is normal to see a drop of liquid.

Inject within 5 minutes of removing the needle cover.

DO NOT put needle cover back on, as this may damage the needle or cause a needle stick injury.

DO NOT touch needle or let it touch any surface.

DO NOT use the TREMFYA pre-filled syringe if it is dropped. Call your healthcare professional for a refill.



Position fingers and insert needle

Place your thumb, index and middle fingers **directly under the finger flange**, as shown.

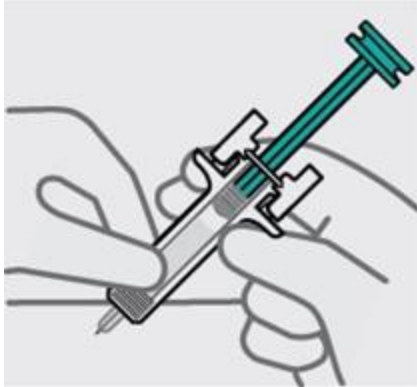
Do not touch plunger or area above finger flange as this may cause the needle safety device to activate.

Use your other hand to pinch skin at the injection site.

Position syringe at about a 45 degree angle to the skin.

It is important to pinch enough skin to **inject under the skin** and not into the muscle.

Insert needle with a quick, dart-like motion.



Release pinch and reposition hand

Use your free hand to grasp the body of the syringe.



Press plunger

Place thumb from the opposite hand on the plunger and press the plunger **all the way down until it stops**.



Release pressure from plunger

The safety guard will cover the needle and lock into place, removing the needle from your skin.

3. After your injection

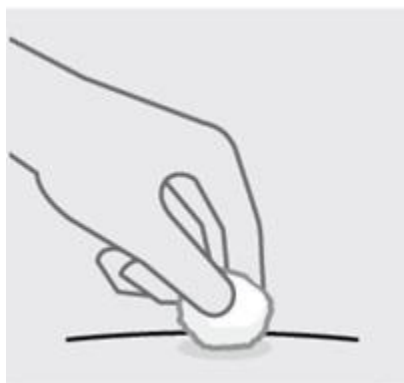


Throw the used pre-filled syringe away

Put your used syringe in a sharps disposal container right away after use.

Do not dispose in your household trash.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.



Check injection site

There may be a small amount of blood or liquid at the injection site. Hold pressure over your skin with a cotton ball or gauze pad until any bleeding stops.

Do not rub the injection site.

If needed, cover injection site with a bandage.



Need Help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Last Revised: 2026-07-16

All trademarks used under license.

Instructions For Use (TREMFYA 200 mg Pre-filled Syringe)

^{Pr}TREMFYA®
(guselkumab injection)
200 mg Pre-filled syringe



SINGLE-USE

PLEASE READ THESE INSTRUCTIONS BEFORE USE

Important

TREMFYA comes in a single-use pre-filled syringe containing one 200 mg dose.

Your healthcare professional will tell you if you will need to use 1 or 2 pre-filled syringes.

If your healthcare professional decides that you or a caregiver may be able to give your injections of TREMFYA at home, you should receive training on the right way to prepare and inject TREMFYA using the pre-filled syringe.

Please read these Instructions for Use before using the TREMFYA pre-filled syringe and each time you get a refill. There may be new information. This instruction guide does not take the place of talking with your healthcare professional about your medical condition or your treatment.

Please also read the Package Insert carefully before starting your injection and discuss any questions you may have with your healthcare professional.

Each TREMFYA pre-filled syringe can only be used one time. Throw the used pre-filled syringe away (see Step 4) after one dose, even if there is still medicine left in it. Do not reuse your TREMFYA pre-filled syringe.

The TREMFYA pre-filled syringe is intended for injection under the skin, not into the muscle or vein. After injection, the needle will retract into the device and lock into place.



Storage information

Store in refrigerator at 2° to 8°C.

Do not freeze.

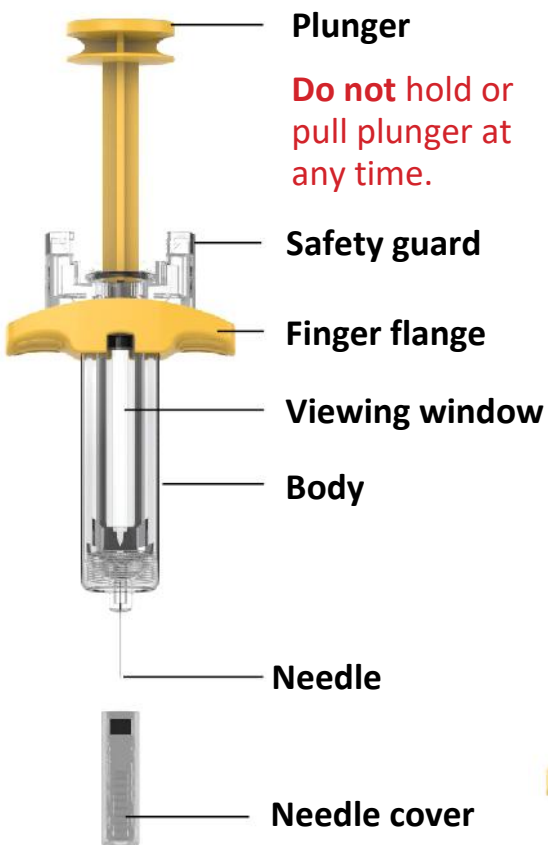
Do not shake your pre-filled syringe.

Keep your pre-filled syringe in the original carton to protect from light and physical damage.

Keep TREMFYA and all medicines out of reach of children.

Pre-filled syringe at-a-glance

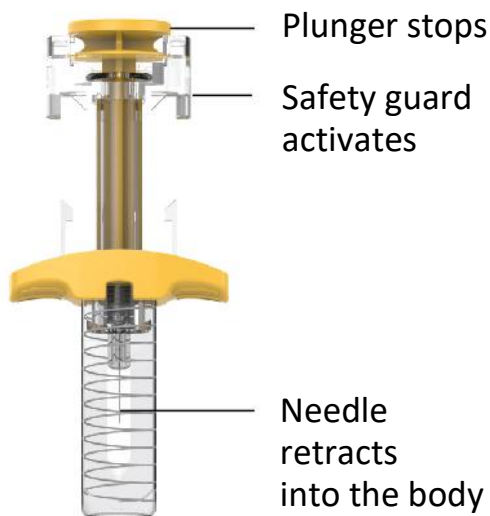
Before use



Do not hold or pull plunger at any time.

Do not remove until you are ready to inject
(See Step 3)

After use



You will need:

- 1 or 2 pre-filled syringes based on the dose prescribed by your healthcare professional

Not provided in the carton:

- Alcohol swabs
- Cotton balls or gauze pads
- Adhesive bandages
- Sharps container (See Step 4)

1. Get ready



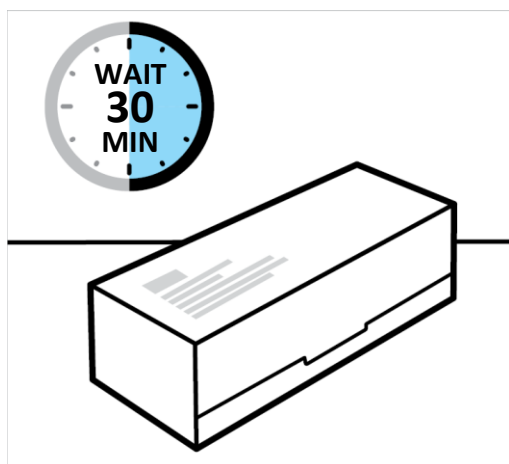
Check your dose to see if you will need to use 1 or 2 pre-filled syringes and inspect carton(s)

Remove the carton(s) with the pre-filled syringe from the refrigerator.

Check the expiration ('EXP') date.

Do not use the pre-filled syringe if the expiration date has passed or if the seal on the carton is broken.

Call your healthcare professional for a new pre-filled syringe.

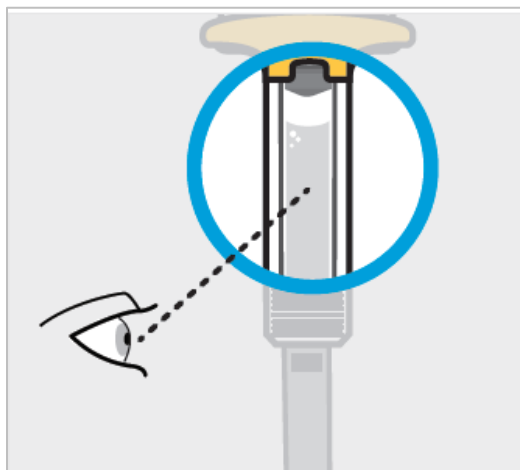


Allow TREMFYA to come to room temperature

Let the carton(s) sit on a flat surface at room temperature for approximately **30 minutes** before use.

Do not warm the pre-filled syringe(s) any other way.

2. Prepare for your injection



Inspect liquid to see that it is clear to slightly yellow

Take the pre-filled syringe out of the carton.

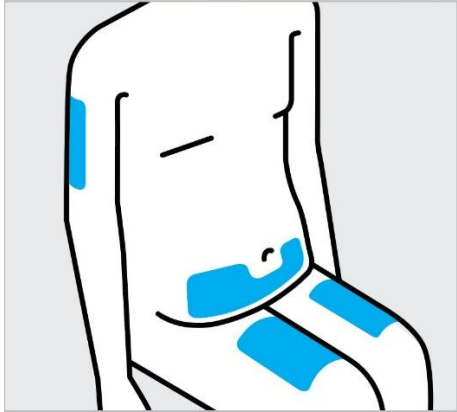
Check the liquid in the viewing window. It should be clear to slightly yellow and may contain tiny white or clear particles. You may also see air bubbles. This is normal.

Do not inject if the liquid is:

- cloudy or
- discoloured or
- has large particles

Do not use the pre-filled syringe if it is dropped.

If you are uncertain, call your healthcare professional for a new pre-filled syringe.



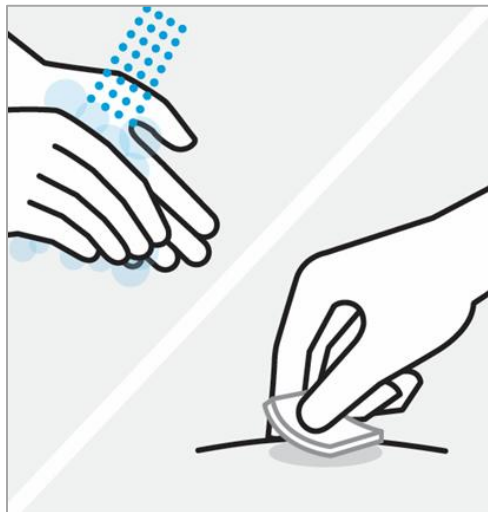
Choose injection site

Select a site from the following areas for your injection:

- Front of thighs
- Lower stomach area (lower abdomen)
Do not use the 2-inch (5-centimetre) area around your belly-button
- Back of upper arms (if a caregiver is giving you the injection)

If you need to give 2 injections to complete your dose, choose different areas or leave at least 2 inches (5-centimetres) between injection sites.

Do not inject into skin that is tender, bruised, red, scaly, thick or hard.
Avoid areas with scars or stretch marks.



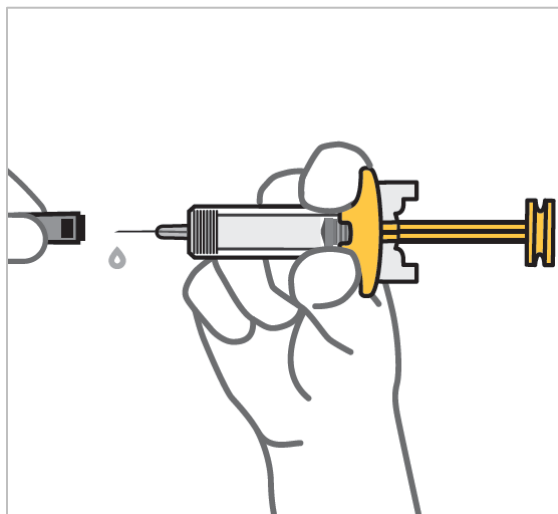
Wash hands and clean injection site

Wash your hands well with soap and warm water.

Wipe your chosen injection site with an alcohol swab and allow it to dry.

Do not touch, fan, or blow on the injection site after you have cleaned it.

3. Inject TREMFYA® using the pre-filled syringe



Remove needle cover when you are ready to inject

Hold the pre-filled syringe by the body and pull needle cover straight off.

It is normal to see a few drops of liquid.

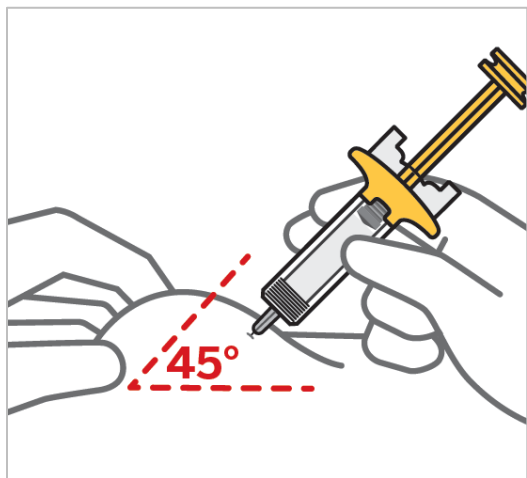
Inject TREMFYA within 5 minutes of removing the needle cover.

Do not put needle cover back on, as this may damage the needle or cause a needle stick injury.

Do not touch needle or let it touch any surface.

Do not use the pre-filled syringe if it is dropped. Call your healthcare professional for a new pre-filled syringe.

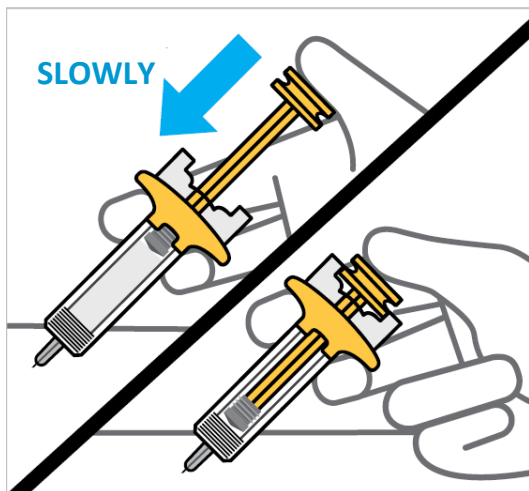
Do not hold or pull the plunger at any time.



Pinch injection site and insert needle at about a 45-degree angle

It is important to pinch enough skin to inject under the skin and not into muscle.

Insert needle with a quick dart-like motion.



Slowly press plunger all the way down until it stops to inject all of the liquid

You will feel some resistance as you press the plunger, this is normal.

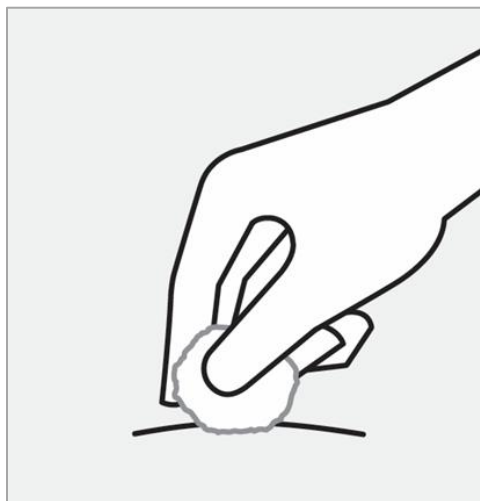


Release pressure from plunger to remove the needle from the skin

The needle will retract into the device and lock into place.

If your prescribed dose requires two injections, repeat Steps 2 to 4 with the second pre-filled syringe.

4. After your injection



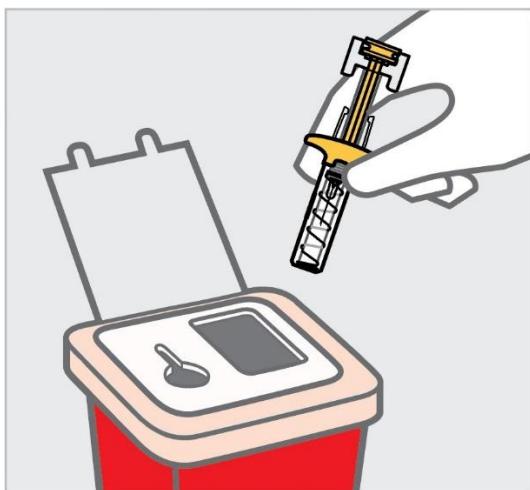
Check injection site

There may be a small amount of blood or liquid at the injection site.

Gently hold pressure over the injection site with a cotton ball or gauze pad until any bleeding stops.

Do not rub the injection site. If needed, cover the injection site with a bandage.

Your injection is now complete!



Throw away the used pre-filled syringe

Put the used pre-filled syringe in a sharps disposal container right away after use.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.

Do not throw away (dispose of) your pre-filled syringe in your household waste.

Do not recycle your used sharps disposal container.



Need Help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

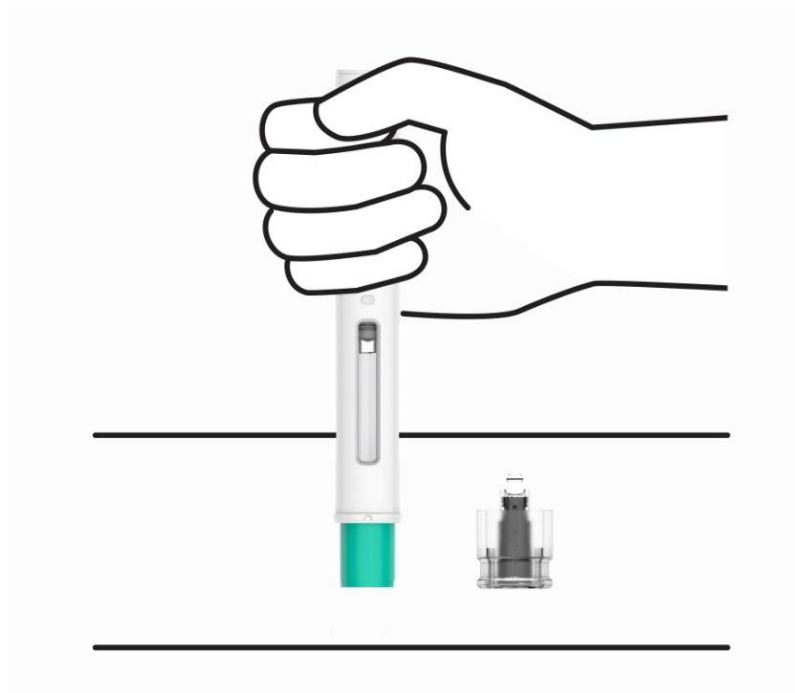
This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Last Revised: 2026-07-16

All trademarks used under license.

Instructions For Use (TREMIFYA 100 mg Pen)

^{Pr}TREMIFYA®
(guselkumab injection)
100 mg Pre-filled Pen



SINGLE-USE DEVICE

PLEASE READ THESE INSTRUCTIONS BEFORE USE

Important

TREMFYA comes in a single-use pre-filled pen containing one 100 mg dose.

If your healthcare professional decides that you or a caregiver may be able to give your injections of TREMFYA at home, you should receive training on the right way to prepare and inject TREMFYA using the pen.

Please read these Instructions for Use before using the TREMFYA pen and each time you get a new pen. There may be new information. This instruction guide does not take the place of talking with your healthcare professional about your medical condition or your treatment.

Please also read the Package Insert carefully before starting your injection and discuss any questions you may have with your healthcare professional.

Each TREMFYA pen can only be used one time. Throw the used pen away (see Step 4) after one dose, even if there is still medicine left in it. Do not reuse your pen.



Storage information

Store in refrigerator at 2° to 8°C.

Do not freeze.

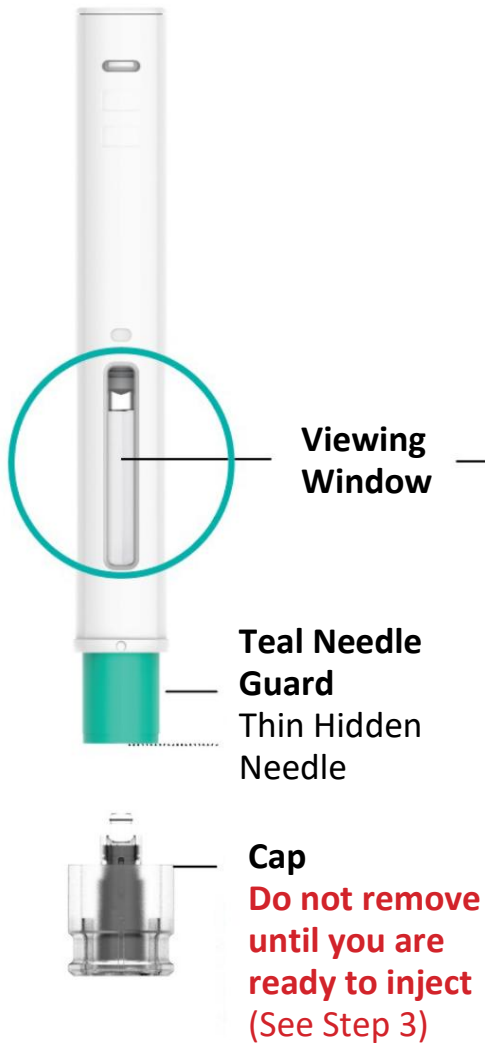
Do not shake your pen.

Keep your TREMFYA pen in the original carton to protect from light and physical damage.

Keep TREMFYA and all medicines out of reach of children.

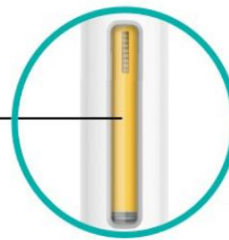
TREMFYA pen at-a-glance

Before use



After use

Yellow Plunger rod fills the viewing window



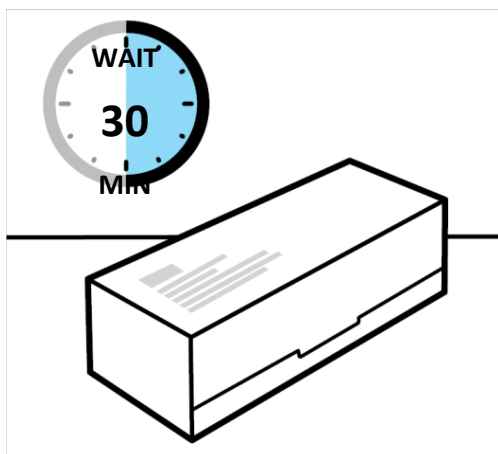
You will need:

- 1 Pen

Not provided in the carton:

- Alcohol swabs
- Cotton balls or gauze pads
- Adhesive bandages
- Sharps container (See Step 4)

1. Get ready



Allow TREMFYA to come to room temperature and inspect carton

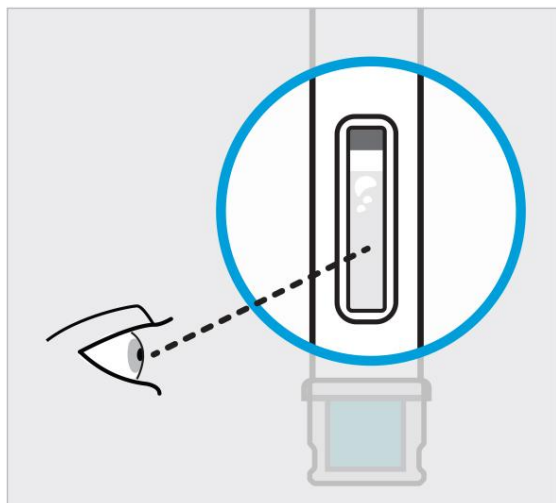
Remove the carton from the refrigerator and let the carton sit on a flat surface at room temperature for approximately **30 minutes** before use.

Do not warm the pen any other way.

Check the expiration date ('EXP') on the carton.

Do not use the pen if the expiration date has passed or if the seal on the carton is broken. Call your healthcare professional for a new pen.

2. Prepare for your injection



Inspect liquid in window to see that it is clear to slightly yellow

Take the pen out of the carton.

Check the liquid in the viewing window. It should be clear to slightly yellow and may contain tiny white or clear particles. You may also see air bubbles. This is normal.

Do not inject if the liquid is:

- cloudy or
- discoloured or,
- has large particles

If you are uncertain, call your healthcare professional for a new pen.

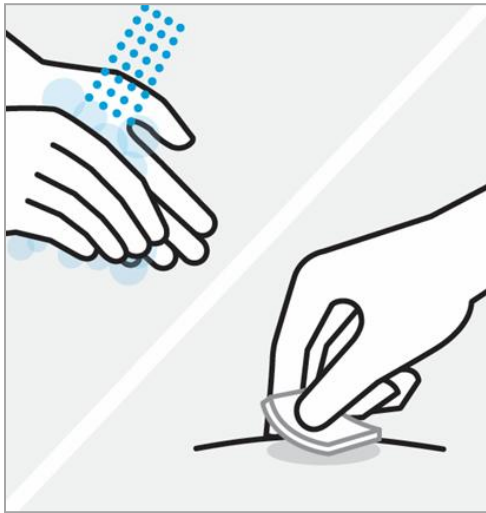


Choose injection site

Select from the following areas for your injection:

- Front of thighs
- Lower stomach area (lower abdomen)
Do not use the 2-inch (5-centimetre) area around your belly-button.
- Back of upper arms (if a caregiver is giving you the injection)

Do not inject into skin that is tender, bruised, red, scaly, thick or hard. Avoid areas with scars or stretch marks.



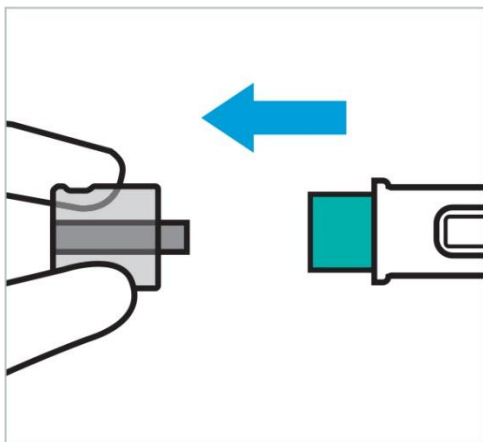
Wash hands and clean injection site

Wash your hands well with soap and warm water.

Wipe your chosen injection site with an alcohol swab and allow it to dry.

Do not touch, fan, or blow on the injection site after you have cleaned it.

3. Inject TREMFYA® using the pen



Remove cap when you are ready to inject

Do Not Touch Teal Needle Guard!

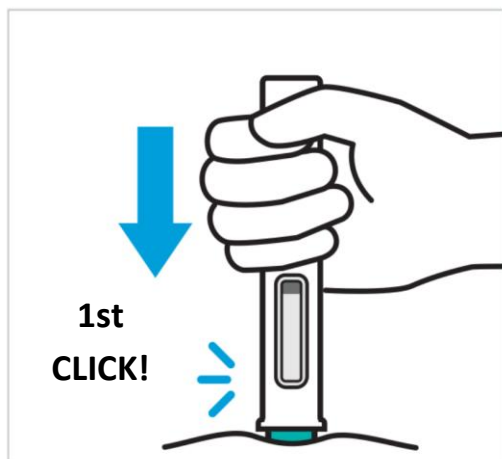
This may start the injection and you will not receive the dose.

Pull the cap straight off. It is normal to see a few drops of liquid.
Inject TREMFYA within 5 minutes of removing cap.

Do not put the cap back on as this may damage the needle.

Do not use the pen if it is dropped after removing the cap.

Call your healthcare professional for a new pen.



Position pen straight onto the injection site then push and hold pen

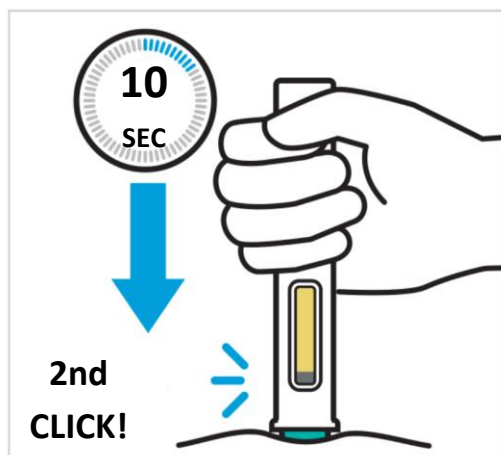
Do Not Lift The Pen During Injection!

If you do, the teal needle guard will lock and the full dose will not be delivered.

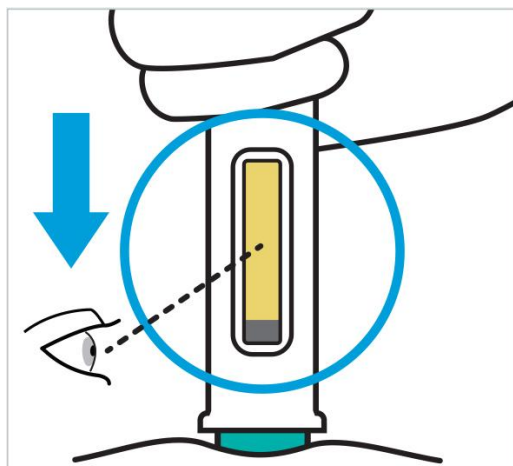
Position the pen straight onto the injection site with the teal needle guard against the skin and the viewing window facing you.

Press down on the pen and keep holding it down against the skin.

You will hear the first click.

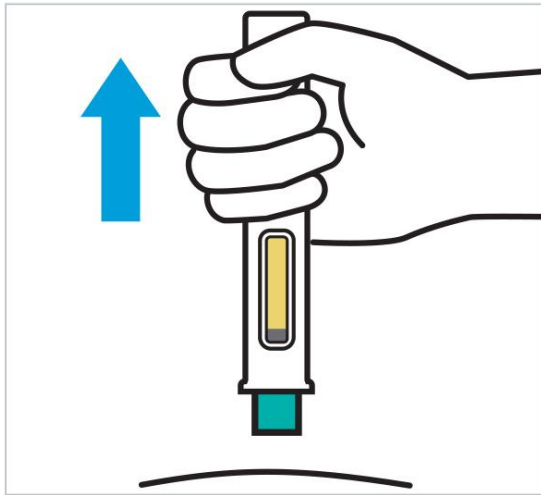


Keep holding the pen firmly against the skin for about 10 seconds to hear a second click
You are almost done.



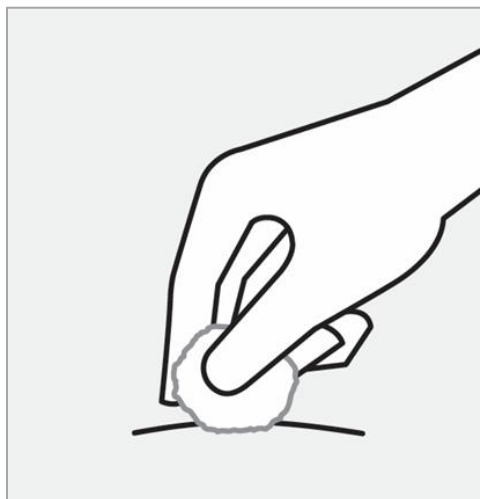
Keep holding firmly against the skin and confirm the injection is complete

The injection is complete when the plunger rod stops moving and fills the viewing window.



Lift straight up

4. After your injection



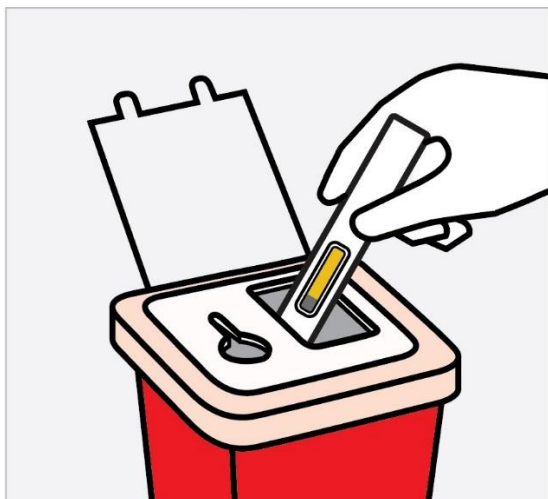
Check injection site

There may be a small amount of blood or liquid at the injection site.

Gently hold pressure over the injection site with a cotton ball or gauze pad until any bleeding stops.

Do not rub the injection site. If needed, cover the injection site with a bandage.

Your injection is now complete!



Throw away the used pen and cap

Put your used pen and cap in a sharps disposal container right away after use.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.

Do not throw away (dispose of) your pen in your household waste.

Do not recycle your used sharps disposal container.



Need Help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

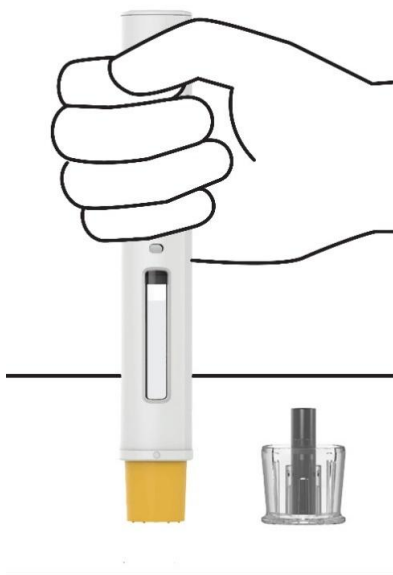
This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto Ontario, M3C 1L9.

Last Revised: 2026-07-16

All trademarks used under license.

Instructions For Use (TREMFYA 200 mg Pen)

**PrTREMIFYA®
(guselkumab injection)
200 mg Pre-filled Pen**



SINGLE-USE DEVICE

PLEASE READ THESE INSTRUCTIONS BEFORE USE

Important

TREMIFYA comes in a single-use pre-filled pen containing one 200 mg dose.

Your healthcare professional will tell you if you will need to use 1 or 2 pens.

If your healthcare professional decides that you or a caregiver may be able to give your injections of TREMFYA at home, you should receive training on the right way to prepare and inject TREMFYA using the pen.

Please read these Instructions for Use before using the TREMFYA pen and each time you get a new pen. There may be new information. This instruction guide does not take the place of talking with your healthcare professional about your medical condition or your treatment. Please also read the Package Insert carefully before starting your injection and discuss any questions you may have with your healthcare professional.

Each TREMFYA pen can only be used one time. Throw the used pen away (see Step 4) after one dose, even if there is still medicine left in it. Do not reuse your pen.

**Storage information**

Store in refrigerator at 2° to 8°C.

Do not freeze.

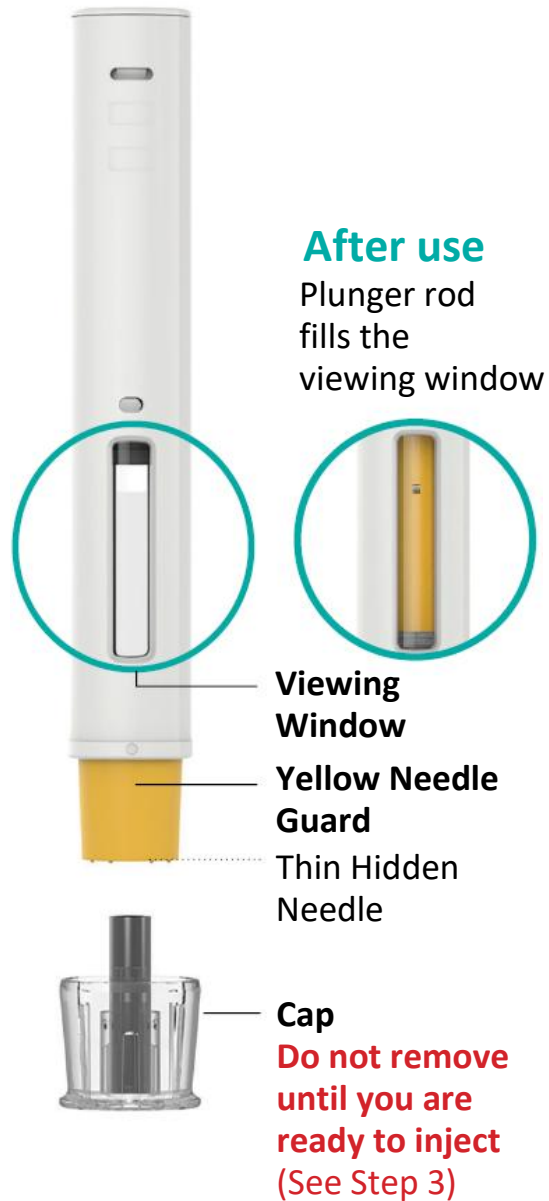
Do not shake your pen.

Keep your TREMFYA pen in the original carton to protect from light and physical damage.

Keep TREMFYA and all medicines out of reach of children.

TREMFYA pen at-a-glance

Before use



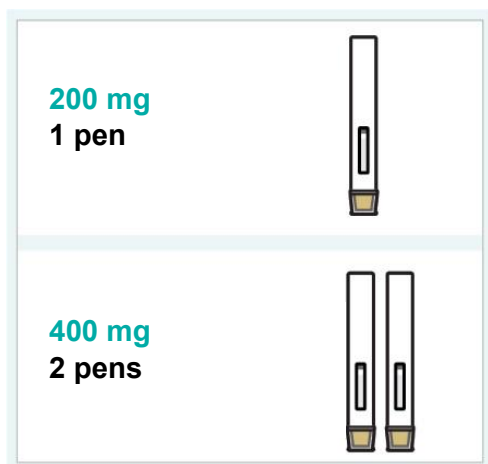
You will need:

- 1 or 2 Pens based on the dose prescribed by your healthcare professional

Not provided in the carton:

- Alcohol swabs
- Cotton balls or gauze pads
- Adhesive bandages
- Sharps container (See Step 4)

1. Get ready



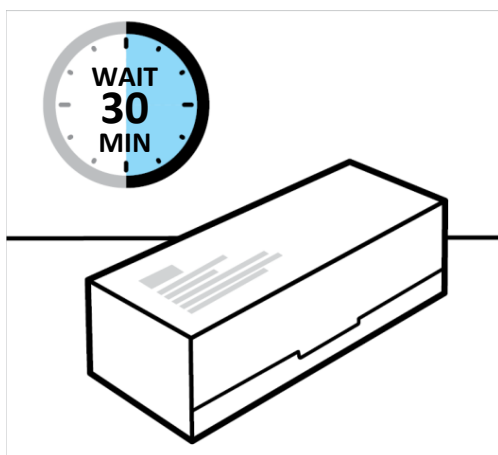
Check your dose to see if you will need to use 1 or 2 pens and inspect carton(s)

Remove the carton(s) with the pen from the refrigerator.

Check the expiration date ('EXP') on the carton.

Do not use the pen if the expiration date has passed or if the seal on the carton is broken.

Call your healthcare professional for a new pen.

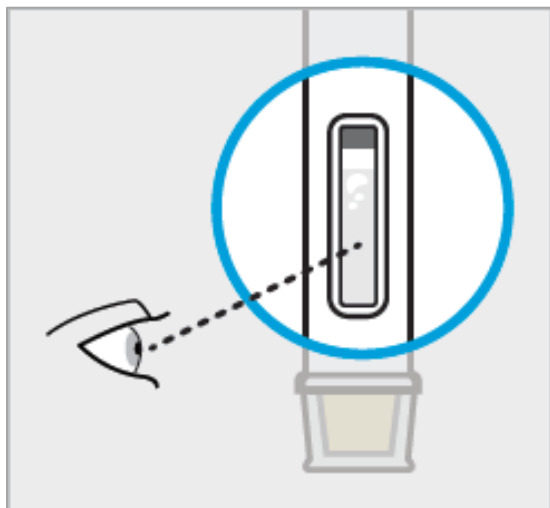


Allow TREMFYA to come to room temperature

Let the carton(s) sit on a flat surface at room temperature for approximately **30 minutes** before use.

Do not warm the pen(s) any other way.

2. Prepare for your injection



Inspect liquid in window to see that it is clear to slightly yellow

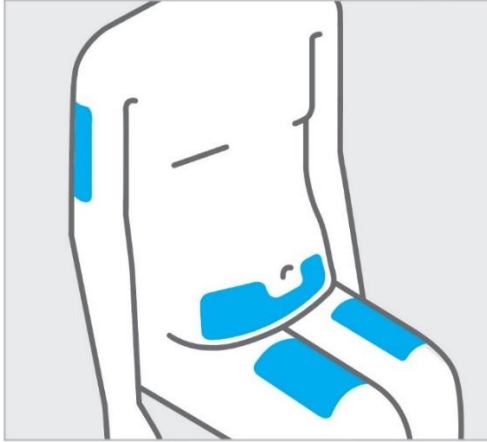
Take the pen out of the carton.

Check the liquid in the viewing window. It should be clear to slightly yellow and may contain tiny white or clear particles. You may also see air bubbles. This is normal.

Do not inject if the liquid is:

- cloudy or
- discoloured or,
- has large particles

If you are uncertain, call your healthcare professional for a new pen.



Choose injection site

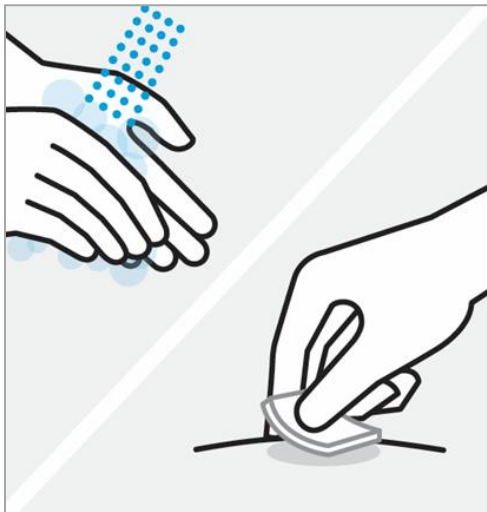
Select from the following areas for your injection:

- Front of thighs
- Lower stomach area (lower abdomen)
Do not use the 2-inch (5-centimetre) area around your belly-button.
- Back of upper arms (if a caregiver is giving you the injection)

If you need to give 2 injections to complete your dose, choose different areas or leave at least 2 inches (5-centimetres) between injection sites.

Do not inject into skin that is tender, bruised, red, scaly, thick or hard.

Avoid areas with scars or stretch marks.



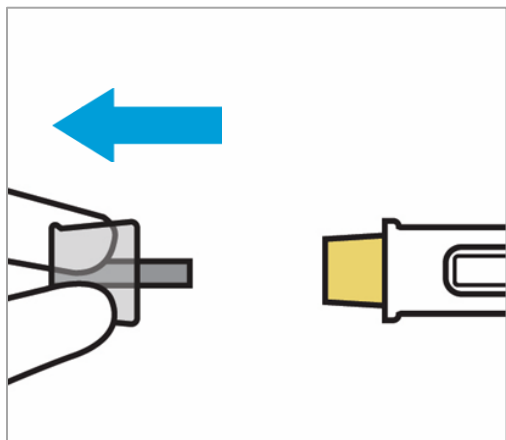
Wash hands and clean injection site

Wash your hands well with soap and warm water.

Wipe your chosen injection site with an alcohol swab and allow it to dry.

Do not touch, fan, or blow on the injection site after you have cleaned it.

3. Inject TREMFYA® using the pen



Remove cap when you are ready to inject

Do Not Touch Yellow Needle Guard!

This may start the injection and you will not receive the dose.

Pull the cap straight off. It is normal to see a few drops of liquid.

Inject TREMFYA within 5 minutes of removing cap.

Do not put the cap back on as this may damage the needle.

Do not use the pen if it is dropped after removing the cap.

Call your healthcare professional for a new pen.



Position pen straight onto the injection site then push and hold pen

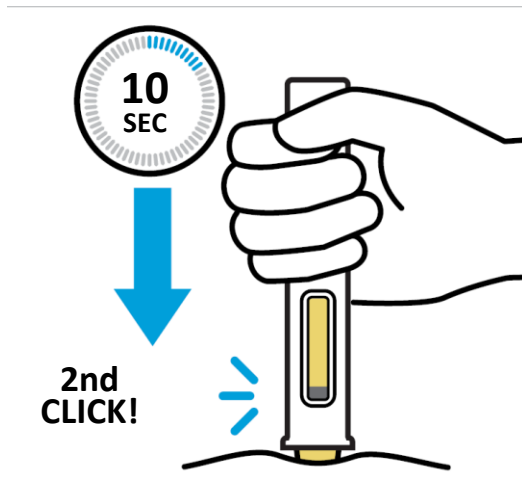
Do Not Lift The Pen During Injection!

If you do, the yellow needle guard will lock and the full dose will not be delivered.

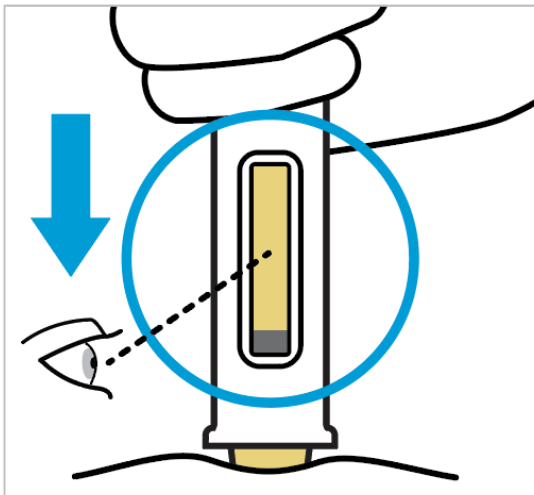
Position the pen straight onto the injection site with the yellow needle guard against the skin and the viewing window facing you.

Press down on the pen and keep holding it down against the skin.

You will hear the first click.

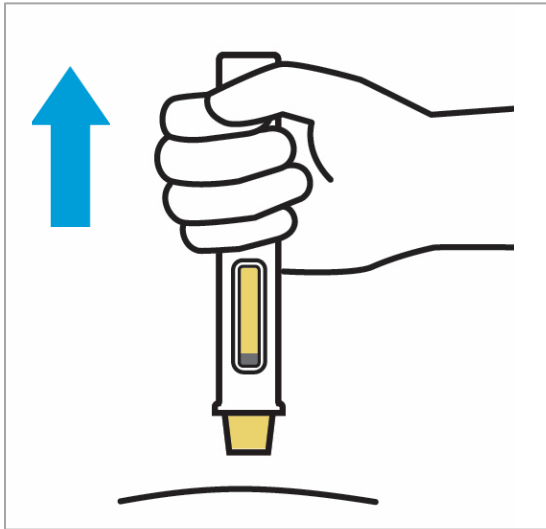


Keep holding the pen firmly against the skin for about 10 seconds to hear a second click
You are almost done.



Keep holding firmly against the skin and confirm the injection is complete

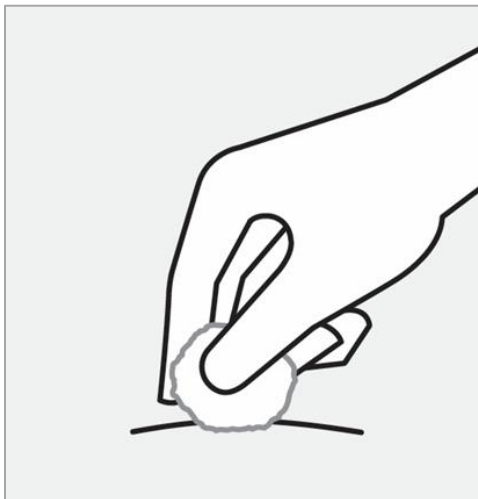
The injection is complete when the plunger rod stops moving and fills the viewing window.



Lift straight up

If your prescribed dose requires two injections, repeat Steps 2 to 4 with the second pen.

4. After your injection



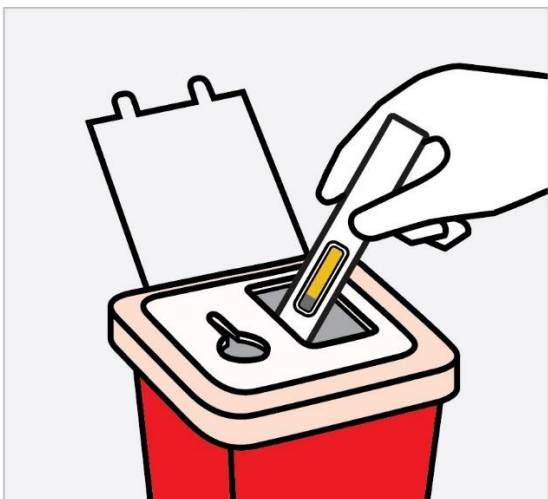
Check injection site

There may be a small amount of blood or liquid at the injection site.

Gently hold pressure over the injection site with a cotton ball or gauze pad until any bleeding stops.

Do not rub the injection site. If needed, cover the injection site with a bandage.

Your injection is now complete!



Throw away the used pen and cap

Put your used pen and cap in a sharps disposal container right away after use.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.

Do not throw away (dispose of) your pen in your household waste.

Do not recycle your used sharps disposal container.



Need Help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Last Revised: 2026-07-16

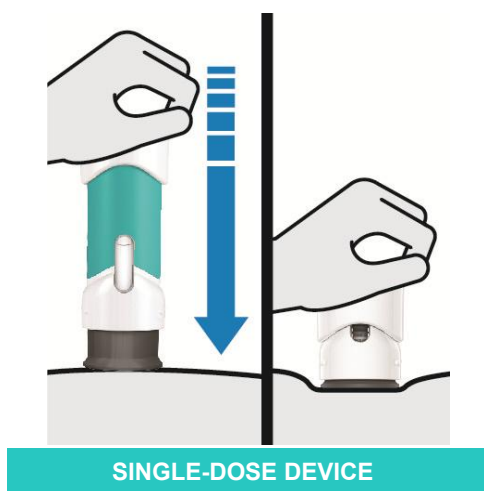
All trademarks used under license.

Instructions For Use (TREMFYA One-Press)

^{Pr}TREMFYA One-Press®

(guselkumab injection)

100 mg patient-controlled injector



Important

TREMFYA One-Press comes as a single-dose patient-controlled injector containing one 100 mg dose. Each One-Press injector can only be used one time. Throw away (see Step 3) after each dose, even if there is medicine left in it. Do not reuse your One-Press injector.

If your healthcare professional decides that you or a caregiver may be able to give your injections of TREMFYA One-Press at home, you should receive training on the right way to prepare and inject TREMFYA One-Press.

Please read these Instructions for use before using the TREMFYA One-Press and each time you fill your prescription. There may be new information. This instruction guide does not take the place of talking with your healthcare professional about your medical condition or your treatment.

Please also read the Package Insert carefully before starting your injection and discuss any questions you may have with your healthcare professional.

During injection, push handle all the way down until teal body is not visible to inject the full dose.

DO NOT LIFT THE ONE-PRESS INJECTOR during injection. If you do, the One-Press injector will lock and you will not get the full dose.



Storage information

Store in refrigerator at 2° to 8°C.

Do not freeze.

Do not shake at any time.

Keep TREMFYA One-Press and all medicines out of reach and sight of children.

Keep TREMFYA One-Press in the original carton to protect from light and physical damage.

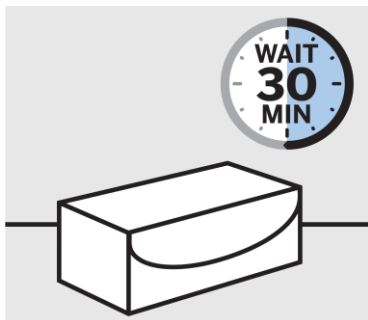
TREMFYA One-Press at-a-glance



You will need these supplies:

- 1 Alcohol swab
- 1 Cotton ball or gauze pad
- 1 Adhesive bandage
- 1 Sharps container (See Step 3)

1. Prepare for your injection

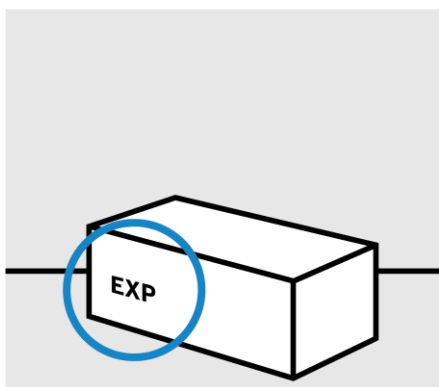


Inspect carton and allow TREMFYA One-Press to come to room temperature

Remove carton with **TREMFYA One-Press** from the refrigerator.

Keep **TREMFYA One-Press** in the carton and let it sit on a flat surface at room temperature for **approximately 30 minutes** before use.

Do not warm any other way.

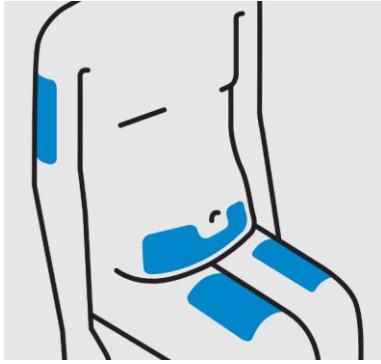


Check the expiration date ('EXP') on the carton.

Do not use if the expiration date has passed.

Do not inject if the seal on the carton is broken.

Call your healthcare professional for a new **TREMFYA One-Press**.



Choose injection site

Select from the following areas for your injection:

- **Front of thighs** (recommended)
- Lower abdomen
 - Do not** use the 2-inch (5-centimetre) area around your belly-button.
- Back of upper arms (if a caregiver is giving you the injection)

Do not inject into skin that is tender, bruised, red, scaly, hard or has scars or stretch marks.



Wash hands

Wash your hands well with soap and warm water.

Clean injection site

Wipe your chosen injection site with an alcohol swab and allow it to dry.

Do not touch, fan or blow on the injection site after you have cleaned it.



Inspect liquid in window

Take **TREMFYA One-Press** out of the carton.

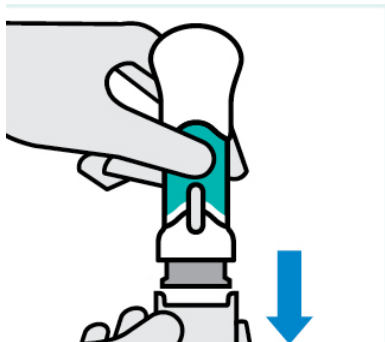
Check the liquid in the window. It should be clear to slightly yellow and may contain tiny white or clear particles. You may also see one or more air bubbles. This is normal.

Do not inject if the liquid is:

- cloudy, or
- discoloured, or
- has large particles.

If you are uncertain, call your healthcare professional for a new **TREMFYA One-Press**.

2. Inject TREMFYA One-Press® using the patient-controlled injector



Pull off bottom cap when you are ready to inject

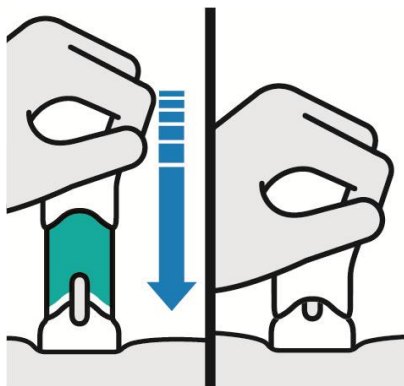
Keep hands away from the needle guard after the cap is removed. It is normal to see a few drops of liquid.

Inject within 5 minutes of removing the cap.

Do not put the cap back on. This could damage the needle.

Do not use the product if it is dropped after removing the cap.

Call your healthcare professional for a new **TREMFYA One-Press**.



Place straight on skin

Push handle all the way down until teal body is not visible

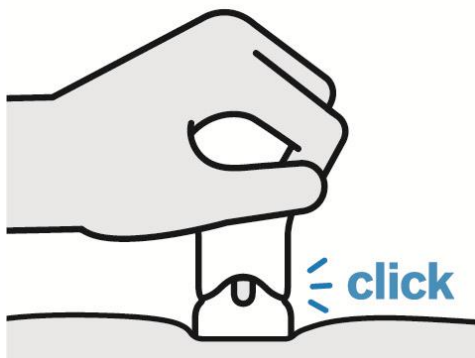
DO NOT LIFT THE ONE-PRESS INJECTOR DURING THE INJECTION!

If you do, the needle guard will lock, showing a yellow band, and you will not get the full dose.

You may hear a click when the injection begins. Keep pushing.

If you feel resistance, keep pushing. This is normal.

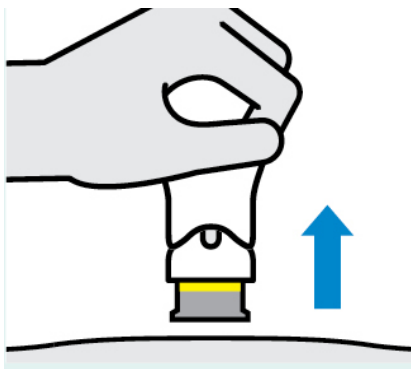
The medication injects as you push. Do this at a speed that is comfortable for you.



Confirm injection is complete

Injection is complete when:

- **The teal body is no longer visible**
- You cannot press the handle down anymore
- You may hear a click



Lift straight up

The yellow band indicates that the needle guard is locked.

3. After your injection



Throw the used product away

Put your used product in a sharps disposal container right away after use.

Make sure you dispose of the bin as instructed by your healthcare professional when the container is full.

Do not throw away (dispose of) your product in your household waste.

Do not recycle your used sharps disposal container.



Check injection site

There may be a small amount of blood or liquid at the injection site. Hold pressure over your skin with a cotton ball or gauze pad until any bleeding stops. **Do not** rub the injection site. If needed, cover injection site with a bandage.



Need Help?

Call your healthcare professional to talk about any questions you may have. For questions or concerns visit the manufacturer's website innovativemedicine.jnj.com/canada, or call 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Last Revised: 2026-07-16

All trademarks used under license.

Patient Medication Information (TREMFYA I.V.)

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

TREMFYA® I.V.

(guselkumab for injection)

Solution for intravenous injection

200 mg / 20 mL

This Patient Medication Information is written for the person who will be taking **TREMFYA I.V.** This may be you or a person you are caring for. Read this information carefully. Keep it as you may need to read it again.

This Patient Medication Information is a summary. It will not tell you everything about this medication. If you have more questions about this medication or want more information about **TREMFYA I.V.**, talk to a healthcare professional.

What is TREMFYA I.V. used for:

- **Crohn's Disease**

TREMFYA I.V. is used to treat adults with moderately to severely active Crohn's disease, an inflammatory disease of the bowel. Using TREMFYA I.V. in Crohn's disease can benefit you by reducing the signs and symptoms of the disease such as diarrhea, abdominal pain, and the inflammation of your intestinal lining. This may enable your normal daily activities and reduce fatigue.

- **Ulcerative Colitis**

TREMFYA I.V. is used to treat adults with moderately to severely active ulcerative colitis, an inflammatory disease of the bowel. Using TREMFYA I.V. in ulcerative colitis will benefit you by reducing the signs and symptoms of the disease including bloody stools, the need to rush to and the number of times you go to the toilet, abdominal pain and the inflammation of your intestinal lining. This may enable your normal daily activities and reduce fatigue.

How does TREMFYA I.V. work:

TREMFYA I.V. contains the active substance guselkumab. Guselkumab is a monoclonal antibody. Monoclonal antibodies are proteins that recognize and bind specifically to certain proteins in the body. This medicine works by neutralizing the activity of a protein called IL-23, which is present at increased levels in diseases such as Crohn's disease and ulcerative colitis.

Crohn's disease

Using TREMFYA can help to improve your Crohn's disease and to reduce your symptoms such as diarrhea, abdominal pain, and the inflammation of your intestinal lining.

Ulcerative colitis

Using TREMFYA can help to improve your ulcerative colitis and to reduce your symptoms such as bloody stools, the need to rush to and the number of times you go to the toilet, abdominal pain and the inflammation of your intestinal lining.

The ingredients in TREMFYA I.V. are:

Medicinal ingredients: guselkumab

Non-medicinal ingredients: EDTA disodium dihydrate, L-histidine, L-histidine monohydrochloride monohydrate, L-methionine, polysorbate 80, sucrose and water for injection.

TREMFYA I.V. comes in the following dosage forms:

TREMFYA I.V. is supplied as a 200 mg/20 mL (10mg/mL) solution in a single-dose vial.

Do not use TREMFYA I.V. if:

- You are allergic to guselkumab or any of the ingredients in TREMFYA/TREMFYA I.V. See **The ingredients in TREMFYA I.V. are**
- You have an active infection, that your healthcare professional thinks is important.

If you think you are allergic or have an active infection, ask your healthcare professional for advice before using TREMFYA I.V.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take TREMFYA I.V. Talk about any health conditions or problems you may have, including if you:

- are being treated for an infection or if you have an infection that does not go away or keeps coming back. TREMFYA I.V. may lower your ability to fight infections and may increase your risk of infections.
- have tuberculosis (TB) or have been in close contact with someone with TB.
- think you have an infection or have symptoms of an infection such as
 - fever or flu-like symptoms
 - muscle aches
 - cough
 - shortness of breath
 - burning when you urinate or urinating more often than normal
 - blood in your phlegm (mucus)
 - weight loss
 - warm, red or painful skin or sores on your body
 - diarrhea or stomach pain
- have recently had a vaccination or if you are due to have a vaccination during treatment with TREMFYA I.V. You should not be given certain types of vaccines (live vaccines) while using TREMFYA/TREMFYA I.V. Before starting TREMFYA, it is important to be up to date with all vaccinations recommended for your age group.
- are pregnant, think that you may be pregnant or are planning to have baby. If you are a woman of childbearing potential, use adequate contraception while using TREMFYA/TREMFYA I.V. and for at least 12 weeks after the last TREMFYA/TREMFYA I.V. dose. Talk to your healthcare professional about your contraception options.
- are breast-feeding or plan to breast-feed. You and your healthcare professional should decide if you will breast-feed while using TREMFYA/TREMFYA I.V.
- as directed by your healthcare professional, you may need blood tests to check if you have high levels of liver enzymes before you start taking TREMFYA and while using it. Seek medical help immediately if you have symptoms or signs of liver injury which

include unexplained rash, nausea, vomiting, stomach pain, tiredness, loss of appetite, yellowing of eyes or skin, dark urine.

Look out for infections and allergic reactions

- Do not use TREMFYA I.V. if you have any symptoms of infection unless you are instructed by your healthcare professional.
- **After starting TREMFYA I.V., call your healthcare professional right away if you have any of the symptoms of an infection listed above.**
- **Serious allergic reactions, which can include symptoms of a swollen face, lips, mouth, tongue or throat, difficulty swallowing or breathing, hives and shortness of breath, have occurred with TREMFYA I.V. Tell your healthcare professional or seek medical help immediately if you experience these symptoms.**

Children and adolescents (below the age of 18 years)

TREMFYA I.V. is not recommended for children and adolescents (under 18 years of age) because it has not been studied in this age group.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

How to take TREMFYA I.V.:

TREMFYA I.V. will be given by your healthcare professional.

Usual dose:

Crohn's Disease and Ulcerative Colitis

Treatment start

Treatment start can be given by either intravenous infusion (drip in a vein in your arm) or administered subcutaneously (injections under the skin).

Intravenous Infusion (TREMFYA I.V.):

- The first dose is 200 mg and will be given by your healthcare professional by intravenous infusion over at least 1 hour.
- After the first dose, you will have the second dose by intravenous infusion 4 weeks later, and then a third dose by intravenous infusion after an additional 4 weeks.

Subcutaneous administration (TREMFYA):

- The first dose is 400 mg and will be given by injections under the skin at different locations of the body (refer to the Patient Medication Information for TREMFYA).
- After the first dose, you will have a second 400 mg dose 4 weeks later and then a third 400 mg dose after an additional 4 weeks.

Maintenance therapy (TREMFYA)

A maintenance dose will be given by injection under the skin (subcutaneous injection) either with 100 mg or 200 mg (refer to the Patient Medication Information for TREMFYA). Your healthcare professional will decide which maintenance dose you will receive:

- A dose of 100 mg will be given 8 weeks after the third treatment start dose, followed by a dose every 8 weeks.
- A dose of 200 mg will be given 4 weeks after the third treatment start dose, followed by a dose every 4 weeks.

Your healthcare professional will regularly monitor your condition to check that the treatment is having the desired effect.

You should not stop using TREMFYA I.V. unless you think it is causing a severe side effect. Speak to your healthcare professional as soon as possible if this happens.

Overdose:

In the event of overdosage, monitor the patient for any signs or symptoms of adverse reactions and administer appropriate symptomatic treatment immediately.

If you think you, or a person you are caring for, have taken too much TREMFYA I.V., contact a healthcare professional, hospital emergency department, regional poison control centre or Health Canada's toll-free number, 1-844 POISON-X (1-844-764-7669) immediately, even if there are no signs or symptoms.

Missed dose:

If you forget or miss an appointment to receive TREMFYA I.V., contact your healthcare professional.

Possible side effects from using TREMFYA I.V.:

As with all medicines, this medicine can cause side effects, although not everybody gets them.

Most of the following side effects are mild to moderate. If any of these side effects becomes severe, tell your healthcare professional.

Some side effects are very common (may affect more than 1 in 10 people)

- Infections of the nose, sinuses, or throat (e.g. common cold) or chest infections (bronchitis)

Some side effects are common (may affect up to 1 in 10 people):

- Redness, pain, irritation, swelling, bruising and/or itching at the injection site
- diarrhea
- headache
- joint pain
- increased level of liver enzymes in the blood

Some side effects are uncommon (may affect up to 1 in 100 people):

- stomach flu (gastroenteritis)

- herpes simplex infections (e.g. cold sores, genital herpes)
- fungal infections of the skin (e.g. athlete's foot)
- migraine
- yeast infections
- allergic reactions
- skin rash
- decreased number of a type of white blood cell called neutrophils

These are not all the possible side effects you may feel when taking TREMFYA I.V. If you experience any side effects not listed here, contact your healthcare professional.

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (canada.ca/drug-device-reporting) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Store TREMFYA I.V. in the refrigerator between 2°C to 8°C (36°F to 46°F).

Do not freeze. Do not use if TREMFYA I.V. has been frozen.

Do not shake TREMFYA I.V.

Store in original packaging to protect from light until use.

Keep out of reach and sight of children.

Do not use TREMFYA I.V.:

- if you notice that it is damaged or the seal is broken.
- if the liquid is discoloured, cloudy or you can see large particles floating in it.
- after the expiry date which is stated on the label and on the outer carton after "EXP."

TREMFYA I.V. is for single use only.

If you want more information about TREMFYA I.V.:

- Talk to your healthcare professional
- For questions or concerns, contact the manufacturer, Janssen Inc. (innovativemedicine.jnj.com/canada)
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website <https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>; the manufacturer's website innovativemedicine.jnj.com/canada, or by contacting the manufacturer at: 1-800-567-3331 or 1-800-387-8781.

This leaflet was prepared by Janssen Inc., a Johnson & Johnson company, Toronto, Ontario, M3C 1L9.

Date of Authorization: 2026-08-14

© Johnson & Johnson and its affiliates 2026

All trademarks used under license.