TREMFYA® (guselkumab)

---------WARNINGS AND PRECAUTIONS---------

- **Infections**: TREMFYA may increase the risk of infection. Instruct patients to seek medical advice if signs or symptoms of clinically important chronic or acute infection occur. If a serious infection develops, discontinue TREMFYA until the infection resolves. (5.1)
- **Tuberculosis (TB)**: Evaluate for TB prior to initiating treatment with TREMFYA. (5.2)

*******ADVERSE REACTIONS*******

Most common (≥1%) adverse reactions associated with TREMFYA include upper respiratory infections, headache, injection site reactions, arthralgia, diarrhea, gastroenteritis, tinea infections, and herpes simplex infections. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Janssen Biotech, Inc. at 1-800-JANSSEN (1-800-526-7736) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

*******DRUG INTERACTIONS*******

Avoid use of live vaccines in patients treated with TREMFYA. (7.1)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 01/2019

---

FULL PRESCRIBING INFORMATION: CONTENTS*

---

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

6 ADVERSE REACTIONS

7 DRUG INTERACTIONS

8 USE IN SPECIFIC POPULATIONS

9 NONCLINICAL TOXICOLOGY

10 CLINICAL PHARMACOLOGY

11 DESCRIPTION

12 CLINICAL STUDIES

13如何供应/存储和处理

14 HOW SUPPLIED/STORAGE AND HANDLING

15 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.

---

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

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

2 DOSAGE AND ADMINISTRATION

2.1 Dosage

TREMFYA is administered by subcutaneous injection. The recommended dose is 100 mg administered at Week 0, Week 4, and every 8 weeks thereafter.

2.2 Tuberculosis Assessment Prior to Initiation of TREMFYA

Evaluate patients for tuberculosis (TB) infection prior to initiating treatment with TREMFYA. (see Warnings and Precautions (5.2)).

2.3 Important Administration Instructions

Administer TREMFYA subcutaneously. Each prefilled syringe or One-Press injector is for single-dose only. Instruct patients to inject the full amount (1 mL), which provides 100 mg of TREMFYA.

Do not inject TREMFYA into areas where the skin is tender, bruised, red, hard, thick, scaly, or affected by psoriasis. See Instructions for Use.

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

The TREMFYA Instructions for Use contains more detailed patient instructions on the preparation and administration of TREMFYA. See Instructions for Use.

2.4 Preparation for Use of TREMFYA Prefilled Syringe or One-Press Injector

Before injection, remove TREMFYA prefilled syringe or One-Press injector from the refrigerator and allow TREMFYA to reach room temperature (30 minutes) without removing the needle cap.

Inspect TREMFYA visually for particulate matter and discoloration prior to administration. TREMFYA is a clear and colorless to light yellow solution that may contain small translucent particles. Do not use if the liquid contains large particles, is discolored or cloudy. TREMFYA does not contain preservatives; therefore, discard any unused product remaining in the prefilled syringe or One-Press injector.

3 DOSAGE FORMS AND STRENGTHS

Injection: 100 mg/mL in a single-dose prefilled syringe or single-dose One-Press patient-controlled injector.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Infections

TREMFYA may increase the risk of infection. In clinical trials, infections occurred in 23% of subjects in the TREMFYA group versus 21% of subjects in the placebo group through 16 weeks of treatment. Upper respiratory tract infections, gastroenteritis, tinea infections, and herpes simplex infections occurred more frequently in the TREMFYA group than in the placebo group. The rate of serious infections for the TREMFYA group and the placebo group was ≤ 0.2%. Treatment with TREMFYA should not be initiated in patients with any clinically important active infection until the infection resolves or is adequately treated.

In patients with a chronic infection or a history of recurrent infection, consider the risks and benefits prior to prescribing TREMFYA. Instruct patients to seek medical help 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 until the infection resolves.
TREMFIYA® (guselkumab)

5.2 Pre-treatment Evaluation for Tuberculosis
Evaluate patients for tuberculosis (TB) infection prior to initiating treatment with TREMFYA. Initiate treatment of latent TB prior to administering TREMFYA. In clinical studies, 105 subjects with latent TB who were concurrently treated with TREMFYA and appropriate TB prophylaxis did not develop active TB (during the mean follow-up of 43 weeks). Monitor patients for signs and symptoms of active TB during and after TREMFYA treatment. Consider anti-TB therapy prior to initiating TREMFYA in patients with a past history of latent or active TB in whom an adequate course of treatment cannot be confirmed. Do not administer TREMFYA to patients with active TB infection.

5.3 Immunizations
Prior to initiating therapy with TREMFYA, consider completion of all age-appropriate immunizations according to current immunization guidelines. Avoid use of live vaccines in patients treated with TREMFYA. No data are available on the response to live or inactivated vaccines.

6 ADVERSE REACTIONS
The following adverse reactions are discussed in greater detail in other sections of labeling:

- Infections [see Warnings and Precautions (5.1)]

5.6 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In clinical trials, a total of 1823 subjects with moderate-to-severe plaque psoriasis received TREMFYA. Of these, 1393 subjects were exposed to TREMFYA for at least 6 months and 728 subjects were exposed for at least 1 year. Data from two placebo- and active-controlled trials (VOYAGE 1 and VOYAGE 2) in 1441 subjects (mean age 44 years; 70% males; 82% white) were pooled to evaluate the safety of TREMFYA (100 mg administered subcutaneously at Weeks 0 and 4, followed by every 8 weeks).

Weeks 0 to 16
In the 16-week placebo-controlled period of the pooled clinical trials (VOYAGE 1 and VOYAGE 2), adverse events occurred in 49% of subjects in the TREMFYA group compared to 47% of subjects in the placebo group and 49% of subjects in the U.S. licensed adalimumab group. Serious adverse events occurred in 1.9% of the TREMFYA group (6.3 events per 100 subject-years of follow-up) compared to 1.4% of the placebo group (4.7 events per 100 subject-years of follow-up), and in 2.6% of U.S. licensed adalimumab group (9.9 events per 100 subject-years of follow-up).

Table 1 summarizes the 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.

Table 1: Adverse Reactions Occurring in ≥1% of Subjects through Week 16 in VOYAGE 1 and VOYAGE 2

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>TREMFYA (N=823)</th>
<th>Adalimumab (N=196)</th>
<th>Placebo (N=422)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N (%)</td>
<td>N (%)</td>
<td>N (%)</td>
<td>N (%)</td>
</tr>
<tr>
<td>Upper respiratory infections</td>
<td>118 (14.3)</td>
<td>21 (10.7)</td>
<td>54 (12.8)</td>
</tr>
<tr>
<td>Headache</td>
<td>38 (4.6)</td>
<td>2 (1.0)</td>
<td>14 (3.3)</td>
</tr>
<tr>
<td>Injection site reactions</td>
<td>37 (4.5)</td>
<td>15 (7.7)</td>
<td>12 (2.8)</td>
</tr>
<tr>
<td>Arthralgia</td>
<td>22 (2.7)</td>
<td>4 (2.0)</td>
<td>9 (2.1)</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>13 (1.6)</td>
<td>3 (1.5)</td>
<td>4 (0.9)</td>
</tr>
<tr>
<td>Gastroenteritis</td>
<td>11 (1.3)</td>
<td>4 (2.0)</td>
<td>4 (0.9)</td>
</tr>
<tr>
<td>Tinea infections</td>
<td>9 (1.1)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Herpes simplex infections</td>
<td>9 (1.1)</td>
<td>2 (1.0)</td>
<td></td>
</tr>
</tbody>
</table>

Adverse reactions that occurred in < 1% but ≥ 0.1% of subjects in the TREMFYA group and at a higher rate than in the placebo group through Week 16 in VOYAGE 1 and VOYAGE 2 were migraine, candida infections, and urticaria.

5.4 General Considerations
TREMFIYA is contraindicated in patients with a history of TB disease or latent TB infection who have received mycobacterial therapy or who have a history of TB vaccine reactions.

6.1 Live Vaccinations
Avoid use of live vaccines in patients treated with TREMFYA [see Warnings and Precautions (5.1)].

7 DRUG INTERACTIONS
7.1 CYP450 Substrates
The formation of CYP450 enzymes can be altered by increased levels of certain cytokines (e.g., IL-1, IL-6, IL-10, TNFα, interferon) during chronic inflammation. Results from an exploratory drug-drug interaction study in subjects with moderate-to-severe psoriasis suggested a low potential for clinically relevant drug interactions for drugs metabolized by CYP3A4, CYP2C9, CYP2C19 and CYP1A2 but to a moderate potential for drugs metabolized by CYP2D6. However, results were highly variable because of the limited number of subjects in the study.

Upon initiation of TREMFYA 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 [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
There are no available data on TREMFYA use in pregnant women to inform a drug associated risk of adverse developmental outcomes. Human IgG antibodies are known to cross the placental barrier; therefore, TREMFYA may be transmitted from the mother to the developing fetus. In a combined embryofetal development and pre- and post-natal development study, no adverse developmental effects were observed in infants born to pregnant monkeys after subcutaneous administration of guselkumab during organogenesis through parturition at doses up to 30 times the maximum recommended human dose (MRHD). Neonatal deaths were observed at 6- to 30-times the MRHD [see Data]. The clinical significance of these nonclinical findings is unknown.

All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. The estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data (Animal Data)
In a combined embryofetal development and pre- and post-natal development study using cynomolgus monkeys, subjects received weekly subcutaneous doses of guselkumab up to 50 mg/kg (30 times the MRHD based on a mg/kg comparison) from the beginning of organogenesis to parturition. Neonatal deaths were not observed.
TREMFYA® (guselkumab) was administered to 1823 subjects with plaque psoriasis across studies. The half-life of guselkumab was approximately 15 to 18 days in subjects with plaque psoriasis. Elimination analysis of the pharmacodynamic markers. The relationship between these pharmacodynamic markers and the mechanism(s) by which guselkumab exerts its effects on the breastfed infant from TREMFYA or from the underlying maternal condition.

8.2 Lactation

Risk Summary

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. Maternal IgG is known to be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for TREMFYA and any potential adverse effects on the breastfed infant from TREMFYA or from the underlying maternal condition.

8.4 Pediatric Use

The safety and efficacy of TREMFYA in pediatric patients (less than 18 years of age) have not been established.

8.5 Geriatric Use

Of the 1822 subjects with plaque psoriasis exposed to TREMFYA, a total of 98 subjects were 65 years or older, and 6 subjects were 75 years or older. No overall differences in safety or effectiveness were observed between older and younger subjects who received TREMFYA. However, the number of subjects aged 65 years and older was not sufficient to determine whether they respond differently from younger subjects [see Clinical Pharmacology (12.3)].

10 OVERDOSAGE

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

11 DESCRIPTION

Guselkumab, an interleukin-23 blocker, is a human immunoglobulin G1 lambda (IgG1\(\lambda\)) monoclonal antibody. Guselkumab is produced in a mammalian cell line using recombinant DNA technology. TREMFYA (guselkumab) injection is a sterile, preservative free, clear, colorless, opaque, neutral to light yellow solution that may contain small translucent particles. TREMFYA is supplied as a single-dose solution in a 1 mL glass syringe with a 27G, half inch fixed needle assembled in a passive needle guard delivery system or One-Press patient-controlled injector for subcutaneous use.

Each TREMFYA 1 mL prefilled syringe or One-Press patient-controlled injector contains 100 mg guselkumab, L-histidine (0.6 mg), L-histidine monohydrochloride monohydrate (1.5 mg), polysorbate 80 (0.5 mg), sucrose (79 mg) and water for injection at pH 5.8.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Guselkumab is a human monoclonal IgG1\(\lambda\), antibody that selectively binds to the p19 subunit of interleukin-23 (IL-23) and inhibits its interaction with the 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.

12.2 Pharmacodynamics

Guselkumab reduced serum levels of IL-17A, IL-17F and IL-22 relative to pretreatment levels in evaluated subjects with psoriasis based on exploratory analysis of the pharmacodynamic markers. The relationship between these pharmacodynamic markers and the mechanism(s) by which guselkumab exerts its clinical effects is not fully understood.

12.3 Pharmacokinetics

Guselkumab exhibited linear pharmacokinetics in healthy subjects and subjects with psoriasis following subcutaneous injections. In subjects with psoriasis, following subcutaneous administration of 100 mg of TREMFYA at Weeks 0 and 4, and every 8 weeks thereafter, mean steady-state trough serum guselkumab concentration was approximately 1.2 mcg/mL.

Absorption

Following a single 100 mg subcutaneous injection in healthy subjects, guselkumab reached a mean (± SD) maximum serum concentration of 8.09 ± 3.56 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.

Distribution

In subjects with plaque psoriasis, apparent volume of distribution was 13.5 L.

Elimination

Apparent half-life of guselkumab was 0.516 L/day. Mean half-life of guselkumab was approximately 15 to 18 days in subjects with plaque psoriasis across studies.

TREMFYA® (guselkumab) 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.

Specific Populations

No apparent differences in clearance were observed in subjects ≥ 65 years of age compared to subjects < 65 years of age, suggesting no dose adjustment is needed for elderly patients. Clearance and volume of distribution of guselkumab increases as body weight increases, however, observed clinical trial data indicate that dose adjustment for body weight is not warranted. No specific studies have been conducted to determine the effect of renal or hepatic impairment on the pharmacokinetics of guselkumab.

Drug Interactions

Population pharmacokinetic analyses indicated that concomitant use of ibuprofen, acetylsalicylic acid, or acetaminophen did not affect the clearance of guselkumab.

Cytchrome P450 Substrates

The effects of guselkumab on the pharmacokinetics of midazolam (metabolized by CYP3A4), warfarin (metabolized by CYP2C9, omeprazole (metabolized by CYP2C19), dextromethorphan (metabolized by CYP2D6), and caffeine (metabolized by CYP1A2) were evaluated in an exploratory study with 6 to 12 evaluable subjects with moderate-to-severe plaque psoriasis. Changes in AUCinf of midazolam, S-warfarin, omeprazole, and caffeine after a single dose of guselkumab were not clinically relevant. For dextromethorphan, changes in AUCinf after guselkumab were not clinically relevant in 9 out of 10 subjects; however, a 2.9-fold increase in AUCinf was observed in one individual [see Drug Interactions (7.2)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Animal studies have not been conducted to evaluate the carcinogenic or mutagenic potential of TREMFYA.

No effects on fertility parameters were observed after male guinea pigs were subcutaneously administered guselkumab at a dose of 25 mg/kg twice weekly (15 times the MRHD based on a mg/kg comparison).

No effects on fertility parameters were observed after female guinea pigs were subcutaneously administered guselkumab at doses up to 100 mg/kg twice-weekly (60 times the MRHD based on a mg/kg comparison).

14 CLINICAL STUDIES

Four multicenter, randomized, double-blind trials (VOYAGE 1 [NCT02207231], VOYAGE 2 [NCT02207244], NAVIGATE [NCT02209302], and ORION [NCT02905331]) enrolled subjects 18 years of age and older with moderate-to-severe plaque psoriasis who were eligible for systemic therapy or phototherapy. Subjects had an Investigator’s Global Assessment (IGA) score of 3 ("moderate") on a 5-point scale of overall disease severity, a Psoriasis Area and Severity Index (PASI) score ≥12, and a minimum affected body surface area (BSA) of 10%. Subjects with guttate, erythrodemic, or pustular psoriasis were excluded.

VOYAGE 1 and VOYAGE 2

In VOYAGE 1 and VOYAGE 2, 1443 subjects were randomized to either TREMFYA (100 mg at Weeks 0 and 4 and every 8 weeks thereafter) administered with a prefilled syringe, placebo or U.S. licensed adalimumab (80 mg at Week 0 and 40 mg at Week 1, followed by 40 mg every other week thereafter).

Both trials assessed the responses at Week 16 compared to placebo for the two co-primary endpoints:

• the proportion of subjects who achieved an IGA score of 0 ("clear") or 1 ("minimal");
• the proportion of subjects who achieved at least a 90% reduction from baseline in the PASI composite score (PASI 90).

Comparisons between TREMFYA and U.S. licensed adalimumab were secondary endpoints at the following time points:

• at Week 16 (VOYAGE 1 and VOYAGE 2), the proportions of subjects who achieved an IGA score of 0 or 1, a PASI 90, and a PASI 75 response;
• at Week 24 (VOYAGE 1 and VOYAGE 2), and at Week 48 (VOYAGE 1), the proportions of subjects achieving an IGA score of 0, an IGA score of 0 or 1, and a PASI 90 response.

Other evaluated outcomes included improvement in psoriasis symptoms assessed on the Psoriasis Symptoms and Signs Diary (PSSD) and improvements in psoriasis of the scalp at Week 16.

In both trials, subjects were predominantly men and white, with a mean age of 44 years and a mean weight of 90 kg. At baseline, subjects had a median affected BSA of approximately 21%, a median PASI score of 19, and 18% had a history of psoriatic arthritis. Approximately 24% of subjects had an IGA score of severe. In both trials, 23% had received prior biologic systemic therapy.
Clinical Response

Table 2 presents the efficacy results at Week 16 in VOYAGE 1 and VOYAGE 2.

Table 2: Efficacy Results at Week 16 in Adults with Plaque Psoriasis (NRI)\(^a\)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>VOYAGE 1</th>
<th>VOYAGE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TREMFYA (N=329) n (%)</td>
<td>Placebo (N=174) n (%)</td>
</tr>
<tr>
<td>IGA response of 0/1(^a, b)</td>
<td>280 (85)</td>
<td>12 (7)</td>
</tr>
<tr>
<td>PASI 90 response(^c)</td>
<td>241 (73)</td>
<td>5 (3)</td>
</tr>
</tbody>
</table>

\(^a\) NRI = Non-Responder Imputation
\(^b\) Co-Primary Endpoints
\(^c\) IGA response of 0 (cleared) or 1 (minimal)

Table 3 presents the results of an analysis of all the North America sites (i.e., U.S. and Canada), demonstrating superiority of TREMFYA to U.S. licensed adalimumab.

Table 3: Efficacy Results in Adults with Plaque Psoriasis (NRI)\(^a\)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>VOYAGE 1</th>
<th>VOYAGE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TREMFYA (N=115) n (%)</td>
<td>Adalimumab(^a) (N=115) n (%)</td>
</tr>
<tr>
<td>IGA response of 0/1 (cleared or minimal)</td>
<td>97 (84)</td>
<td>70 (61)</td>
</tr>
<tr>
<td>Week 16</td>
<td>97 (84)</td>
<td>62 (54)</td>
</tr>
<tr>
<td>Week 24</td>
<td>119 (74)</td>
<td>62 (54)</td>
</tr>
<tr>
<td>Week 48</td>
<td>62 (54)</td>
<td>NA</td>
</tr>
<tr>
<td>IGA response of 0 (cleared)</td>
<td>61 (53)</td>
<td>27 (23)</td>
</tr>
<tr>
<td>Week 24</td>
<td>54 (47)</td>
<td>28 (24)</td>
</tr>
<tr>
<td>Week 48</td>
<td>54 (47)</td>
<td>28 (24)</td>
</tr>
<tr>
<td>PASI 75 response</td>
<td>105 (91)</td>
<td>80 (70)</td>
</tr>
<tr>
<td>PASI 90 response</td>
<td>84 (73)</td>
<td>47 (41)</td>
</tr>
<tr>
<td>Week 16</td>
<td>92 (80)</td>
<td>51 (44)</td>
</tr>
<tr>
<td>Week 24</td>
<td>84 (73)</td>
<td>53 (46)</td>
</tr>
<tr>
<td>Week 48</td>
<td>84 (73)</td>
<td>53 (46)</td>
</tr>
</tbody>
</table>

\(^a\) NRI = Non-Responder Imputation
\(^b\) Subjects from sites in the United States and Canada
\(^c\) U.S. licensed adalimumab

An improvement was seen in psoriasis involving the scalp in subjects randomized to TREMFYA compared to placebo at Week 16. Examination of age, gender, race, body weight, and previous treatment with systemic or biologic agents did not identify differences in response to TREMFYA among these subgroups.

Maintenance and Durability of Response

To evaluate maintenance and durability of response (VOYAGE 2), subjects randomized to TREMFYA at Week 0 and who were PASI 90 responders at Week 28 were re-randomized to either continue treatment with TREMFYA every 8 weeks or be withdrawn from therapy (i.e., receive placebo).

At Week 48, 89% of subjects who continued on TREMFYA maintained PASI 90 compared to 37% of subjects who were re-randomized to placebo and withdrawn from TREMFYA. For responders at Week 28 who were re-randomized to placebo and withdrawn from TREMFYA, the median time to loss of PASI 90 was approximately 15 weeks.

Patient Reported Outcomes

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

NAVIGATE evaluated the efficacy of 24 weeks of treatment with TREMFYA in subjects (N=268) who had not achieved an adequate response, defined as IGA ≥2 at Week 16 after initial treatment with U.S. licensed ustekinumab (dosed 45 mg or 90 mg according to the subject’s baseline weight at Week 0 and Week 4). These subjects were randomized to either continue with U.S. licensed ustekinumab treatment every 12 weeks or switch to TREMFYA 100 mg 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.

© 2017 Janssen Pharmaceutical Companies
What is the most important information I should know about TREMFYA?

TREMFYA may cause serious side effects, including:

Infections. TREMFYA is a medicine that may lower the ability of your immune system to fight infections and may increase your risk of infections. Your healthcare provider should check you for infections and tuberculosis (TB) before starting treatment with TREMFYA and may treat you for TB before you begin treatment with TREMFYA if you have a history of TB or have active TB. Your healthcare provider should watch you closely for signs and symptoms of TB during and after treatment with TREMFYA.

- Tell your healthcare provider right away if you have an infection or have symptoms of an infection, including:
  - fever, sweats, or chills
  - cough
  - shortness of breath
  - blood in your phlegm (mucus)
  - muscle aches
  - warm, red, or painful skin or sores on your body different from your psoriasis
  - weight loss
  - diarrhea or stomach pain
  - burning when you urinate or urinating more often than normal

See "What are the possible side effects of TREMFYA?" for more information about side effects.

What is TREMFYA?

TREMFYA is a prescription medicine used to treat adults with moderate to severe plaque psoriasis who may benefit from taking injections or pills (systemic therapy) or phototherapy (treatment using ultraviolet or UV light).

It is not known if TREMFYA is safe and effective in children under 18 years of age.

Before using TREMFYA, tell your healthcare provider about all of your medical conditions, including if you:
- have any of the conditions or symptoms listed in the section "What is the most important information I should know about TREMFYA?"
- have an infection that does not go away or that keeps coming back.
- have TB or have been in close contact with someone with TB.
- have recently received or are scheduled to receive an immunization (vaccine). You should avoid receiving live vaccines during treatment with TREMFYA.
- are pregnant or plan to become pregnant. It is not known if TREMFYA can harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if TREMFYA passes into your breast milk.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I use TREMFYA?

See the detailed "Instructions for Use" that comes with TREMFYA for information on how to prepare and inject a dose of TREMFYA, and how to properly throw away (dispose of) used TREMFYA prefilled syringes or One-Press injectors.

- Use TREMFYA exactly as your healthcare provider tells you to use it.
- If you miss your TREMFYA dose, inject a dose as soon as you remember. Then, take your next dose at your regular scheduled time. Call your healthcare provider if you are not sure what to do.

If you inject more TREMFYA than prescribed, call your healthcare provider right away.

What are the possible side effects of TREMFYA?

TREMFYA may cause serious side effects. See "What is the most important information I should know about TREMFYA?"

The most common side effects of TREMFYA include:

- upper respiratory infections
- joint pain (arthritis)
- fungal skin infections
- headache
- diarrhea
- herpes simplex infections
- injection site reactions
- stomach flu (gastroenteritis)

These are not all the possible side effects of TREMFYA. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of TREMFYA

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use TREMFYA for a condition for which it was not prescribed. Do not give TREMFYA to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about TREMFYA that is written for health professionals.
Instructions for Use
TREMFYA® (trem fye´ ah) (guselkumab)
Prefilled Syringe

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

If your healthcare provider 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 prefilled syringe before attempting to inject. Do not try to inject yourself until you have been shown the right way to give the injections by your healthcare provider.

Read this Instructions for Use before using your TREMFYA prefilled syringe and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or your treatment.

The TREMFYA prefilled 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 36° to 46°F (2° to 8°C).
Do not freeze TREMFYA prefilled syringe.
Keep TREMFYA prefilled syringe and all medicines out of reach of children.
Do not shake your TREMFYA prefilled syringe.
Keep TREMFYA prefilled syringe in the original carton to protect from light and physical damage.

You will need these supplies:
• 1 TREMFYA prefilled syringe
Not provided in the TREMFYA prefilled syringe carton:
• 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 your TREMFYA prefilled syringe carton from the refrigerator. Keep the prefilled 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 the prefilled syringe any other way.
Check the expiration date (‘EXP’) on the back panel of the carton.
Do not use your prefilled syringe if the expiration date has passed.
Do not inject TREMFYA if the perforations on the carton are broken. Call your healthcare provider or pharmacist for a refill.

Choose injection site
Select from the following areas for your injection:
• Front of thighs (recommended)
• Lower stomach area (lower abdomen), except for a 2-inch area right around your navel (belly-button)
• Back of upper arms (only if someone else is giving you the injection)
Do not inject into skin that is tender, bruised, red, hard, thick, scaly or affected by psoriasis.

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 your TREMFYA prefilled syringe out of the carton.
Check the TREMFYA prefilled syringe 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 discolored, or has large particles. Call your healthcare provider or pharmacist for a refill.
2. Inject TREMFYA using prefilled syringe

Remove needle cover
Hold your prefilled syringe by the body and pull needle cover straight off. It is normal to see a drop 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 a TREMFYA prefilled syringe if it is dropped. Call your healthcare provider or pharmacist 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 prefilled 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

Dispose of your prefilled syringe
Put your used TREMFYA prefilled syringe in an FDA-cleared sharps disposal container right away after use.

Do not throw away (dispose of) your TREMFYA prefilled syringe in your household trash.
Do not recycle your used sharps disposal container.
For more information, see “How should I dispose of the used prefilled syringe?”

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 provider to talk about any questions you may have. For additional assistance or to share your feedback call 800-JANSSEN (800-526-7736).

How should I dispose of the used prefilled syringe?
If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
• made of a heavy-duty plastic
• can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out
• upright and stable during use
• leak-resistant
• properly labeled to warn of hazardous waste inside the container
When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes.
For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: www.fda.gov/safesharpsdisposal

This Instructions for Use has been approved by the U.S. Food and Drug Administration.
Manufactured by:
Janssen Biotech, Inc.
Horsham, PA 19044
US License No. 1864

Approved: July 2017
Instructions for Use
TREMFYA® (trem fye’ ah) (guselkumab)

One-Press Patient-Controlled Injector

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

If your healthcare provider 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 One-Press injector. Do not try to inject yourself until you have been trained by your healthcare provider.

Please read this Instructions for Use before using your One-Press injector and each time you get a new One-Press injector. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or your treatment.

Storage information
Store in refrigerator at 36° to 46°F (2° to 8°C).
Do not freeze your One-Press injector.
Keep your One-Press injector and all medicines out of reach of children.
Do not shake your One-Press injector.
Keep your One-Press injector in the original carton to protect from light and physical damage.

Need help?
Call your healthcare provider to talk about any questions you may have. For additional assistance or to share your feedback call 800-JANSSEN (800-526-7736).

You will need:
• 1 One-Press injector

Not provided in the carton:
• 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 your One-Press injector carton from the refrigerator.
Keep your One-Press injector in the carton and let it sit on a flat surface at room temperature for at least 30 minutes before use.
Do not warm your One-Press injector any other way.
Check the expiration date ('EXP') on the carton.
Do not use your One-Press injector if the expiration date has passed.
Do not inject TREMFYA if the perforations on the carton are broken. Call your healthcare provider or pharmacist for a new One-Press injector.

Choose injection site
Select from the following areas for your injection:

- Front of thighs (recommended)
- Lower stomach area (lower abdomen), except for a 2-inch area right around your navel (belly-button)
- Back of upper arms (only if someone else is giving you the injection)

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

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 your One-Press injector 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 discolored, or has large particles. Call your healthcare provider or pharmacist for a new One-Press injector.
2. Inject TREMFYA using the One-Press injector

**Twist and pull off bottom cap**
Keep hands away from the needle guard after the cap is removed.

**Inject TREMFYA within 5 minutes of removing the cap.**
**Do not** put the cap back on, this could damage the needle.
**Do not** use a One-Press injector if it is dropped after removing the cap. Call your healthcare provider or pharmacist for a new One-Press injector.

**Place on skin**
Position the One-Press injector straight onto the skin (about 90 degrees relative to injection site).

**Push handle straight down**
Medication injects as you push. Do this at a speed that is comfortable for you.
**Do not** lift the One-Press injector during the injection. The needle guard will lock and the full dose will not be delivered.

**Complete injection**
Injection is complete when the handle is pushed all the way down, you hear a click, and the teal body is no longer visible.

**Lift straight up**
The yellow band indicates that the needle guard is locked.
3. After your injection

Dispose of your One-Press injector
Put your used One-Press injector in an FDA-cleared sharps disposal container right away after use.
Do not throw away (dispose of) your One-Press injector in your household trash.
Do not recycle your used sharps disposal container.
For more information, see “How should I dispose of the used One-Press injector?”.

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.

How should I dispose of the used One-Press injector?
If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:
• made of a heavy-duty plastic
• can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out
• upright and stable during use
• leak-resistant
• properly labeled to warn of hazardous waste inside the container
When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes.
For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA’s website at: www.fda.gov/safesharpsdisposal
This Instructions for Use has been approved by the U.S. Food and Drug Administration.
Manufactured by:
Janssen Biotech, Inc.
Horsham, PA 19044
US License No. 1864

Approved: January 2019

13