

## NEW ZEALAND DATA SHEET

**1 SKYRIZI<sup>®</sup>** 75mg/0.83mL solution for injection

**SKYRIZI<sup>®</sup>** 150 mg/mL solution for injection

**SKYRIZI<sup>®</sup>** 180 mg/1.2 mL solution for injection

**SKYRIZI<sup>®</sup>** 360 mg/2.4 mL solution for injection

**SKYRIZI<sup>®</sup>** 600 mg/10.0 mL concentrate for infusion

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each 75 mg/0.83 mL pre-filled syringe contains 75 mg risankizumab in 0.83 mL solution.

Each 150 mg/mL pre-filled pen or pre-filled syringe contains 150 mg risankizumab in 1 mL solution.

Each 180 mg/1.2 mL pre-filled cartridge contains 180 mg risankizumab in 1.2 mL solution.

Each 360 mg/2.4 mL pre-filled cartridge contains 360 mg risankizumab in 2.4 mL solution.

Each 600 mg/10.0 mL single-dose vial contains 600 mg risankizumab in 10.0 mL solution.

Skyrizi (risankizumab), an interleukin-23 blocker, is a humanised immunoglobulin G1 (IgG1) monoclonal antibody.

Risankizumab is a recombinant human monoclonal antibody produced in Chinese Hamster Ovary (CHO) cells using recombinant DNA technology.

### Excipients with known effect

Skyrizi 75 mg/0.83 mL contains 68 mg sorbitol per 150 mg dose.

Skyrizi 150 mg/mL and Skyrizi 75 mg/0.83 mL contains less than 1 mmol sodium (23 mg) per 150 mg dose and is essentially sodium free.

Skyrizi 180 mg/1.2 mL contains less than 1 mmol sodium (23 mg) per 180 mg dose and is essentially sodium-free.

Skyrizi 360 mg/2.4 mL contains less than 1 mmol sodium (23 mg) per 360 mg dose and is essentially sodium free.

Skyrizi 600 mg/10.0 mL contains less than 1 mmol sodium (23 mg) per 600 mg dose and is essentially sodium free.

For the full list of excipients, see **Section 6.1 List of Excipients**.

### 3 PHARMACEUTICAL FORM

75 mg/0.83 mL: Solution for injection in a pre-filled syringe.

The solution is colourless to slightly yellow and clear to slightly opalescent. The solution may contain tiny white or clear particles.

150 mg/ mL: Solution for injection in a pre-filled syringe or pre-filled pen.

The solution is colourless to yellow and clear to slightly opalescent. The solution may contain tiny white or clear particles.

180 mg/1.2 mL or 360 mg/2.4 mL: Solution for subcutaneous injection in a pre-filled cartridge with an on-body injector.

Solution is colourless to yellow and clear to slightly opalescent. The solution may contain tiny white or clear particles.

600 mg/10.0 mL: Concentrate solution for intravenous infusion single dose vial.

The solution is colourless to slightly yellow and clear to slightly opalescent. The solution may contain tiny white or clear particles.

### 4 CLINICAL PARTICULARS

#### 4.1 Therapeutic Indications

##### Psoriasis

Skyrizi is indicated for the treatment of moderate to severe plaque psoriasis in adults.

##### Psoriatic Arthritis

Skyrizi is indicated for the treatment of active psoriatic arthritis in adult patients who have responded inadequately to or are intolerant to one or more disease modifying antirheumatic drugs (DMARDs). Skyrizi may be used as monotherapy or in combination with a conventional synthetic disease modifying antirheumatic drug (csDMARD).

##### Crohn's Disease

Skyrizi is indicated for the treatment of moderate to severe active Crohn's disease in patients 16 years of age and older, who have an inadequate response, a lost

response, an intolerance or a contra-indication to either conventional or biologic therapy.

### Ulcerative Colitis

Skyrizi is indicated for the treatment of moderately to severely active ulcerative colitis in adults.

## **4.2 Dose and Method of Administration**

Visually inspect Skyrizi for particulate matter and discolouration prior to administration. Skyrizi should not be used if the solution is cloudy or discoloured, or contains large particles.

### Psoriasis and Psoriatic Arthritis (75 mg/0.83 mL pre-filled syringe; 150 mg/mL pre-filled syringe or pre-filled pen)

The recommended dose is 150 mg administered by subcutaneous injection at Week 0, Week 4, and every 12 weeks thereafter.

Patients may self-inject Skyrizi after training in subcutaneous injection technique.

Patients should read the Instructions for Use before administration.

If using Skyrizi 75 mg/0.83 mL, patients should be instructed to inject two pre-filled syringes for the full 150 mg dose. Each pre-filled syringe and pre-filled pen are for single use only.

Discard any residue.

Patients should not inject into areas where the skin is tender, bruised, erythematous, indurated or affected by psoriasis. Administration of Skyrizi in the upper, outer arm may only be performed by a healthcare professional or caregiver.

Before injecting, for a more comfortable injection, patients using the pre-filled syringe may remove the carton from the refrigerator and allow to reach room temperature out of direct sunlight (15 to 30 minutes) without removing the pre-filled syringes from the carton.

Before injecting the pre-filled pen, patients should remove the carton from the refrigerator and allow to reach room temperature out of direct sunlight (30 to 90 minutes) without removing the pre-filled pen from the carton.

Crohn's Disease (600 mg/10.0 mL vial; 360 mg/2.4 mL pre-filled cartridge with on-body injector)

Skyrizi induction dose is intended for use under the guidance and supervision of a healthcare professional.

The recommended dose is 600 mg administered by intravenous (IV) infusion at Week 0, Week 4, and Week 8 (induction), followed by 360 mg administered by subcutaneous injection at Week 12, and every 8 weeks thereafter (maintenance).

Ulcerative Colitis (2 x 600 mg/10.0 mL vial; 180 mg/1.2 mL or 360 mg/2.4 mL pre-filled cartridge with on-body injector)

The recommended dose is 1200 mg administered by intravenous (IV) infusion at Week 0, Week 4 and Week 8 (induction), followed by 180 mg or 360 mg administered by subcutaneous injection at Week 12, and every 8 weeks thereafter (maintenance).

Skyrizi must be kept protected from light in the original packaging, in a refrigerator between 2°C to 8°C. Drug must not be frozen at any time. Discard after use. Do not reuse.

***Intravenous Induction – Method of Administration for Crohn's Disease and Ulcerative Colitis***

1. Skyrizi should be prepared by a healthcare professional using aseptic technique.
2. For instructions on dilution of the 600 mg/10.0 mL vial product before administration, see **Section 6.6 Special Precautions for Disposal and Other Handling**.
3. The solution in the vial and dilutions should not be shaken.
4. Prior to the start of the intravenous infusion, the content of the infusion bag or glass bottle should be at room temperature. The utilisation of a 0.2 µm infusion in-line filter is not mandatory.
5. Infuse the diluted solution over a period of at least one hour, but not more than 4 hours, for the Skyrizi 600 mg dose and over a period of at least two hours, but not more than 4 hours, for the Skyrizi 1200 mg dose.
6. Skyrizi vial solution should not be administered concomitantly in the same intravenous line with other medicinal products.

For instructions on how to store diluted solution, refer to **Section 6.3 Shelf Life**.

### ***Subcutaneous Maintenance – Method of Administration***

Patients should read the Instructions for Use before administration. The Skyrizi Instructions for Use contains more detailed instructions on the preparation and administration of Skyrizi.

Patients may self-inject Skyrizi using the prefilled cartridge with on-body injector after training in subcutaneous injection technique. Provide proper training to patients and/or caregivers on the subcutaneous injection technique of Skyrizi.

- Before using the prefilled cartridge with on-body injector remove the carton from the refrigerator and allow to reach room temperature out of direct sunlight (45 to 90 minutes) without removing the on-body injector or prefilled cartridge from the carton.
- Administer Skyrizi prefilled cartridge with on-body injector subcutaneously.
- Do not inject into areas where the skin is tender, bruised, erythematous, indurated or affected by any lesions.

### **Missed Dose**

If a dose is missed, administer the dose as soon as possible. Thereafter, resume dosing at the regular scheduled time.

### **4.3 Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in **Section 6.1**.

Clinically important active infections.

### **4.4 Special warnings and precautions for use**

#### **Hypersensitivity**

Serious hypersensitivity reactions, including anaphylaxis, have been reported with the use of Skyrizi. If a serious hypersensitivity reaction occurs, discontinue Skyrizi and initiate appropriate therapy immediately.

#### **Infections**

Skyrizi may increase the risk of infections.

In patients with a chronic infection or a history of recurrent infection, the risks and benefits should be considered prior to prescribing Skyrizi. Patients should be instructed to seek medical advice if signs or symptoms of clinically important infection occur. If a patient develops such an infection or is not responding to

standard therapy for the infection, the patient should be closely monitored and Skyrizi should not be administered until the infection resolves.

### **Tuberculosis**

Prior to initiating treatment with Skyrizi, patients should be evaluated for tuberculosis (TB) infection. Skyrizi must not be given to patients with active TB. Patients receiving Skyrizi should be monitored for signs and symptoms of active TB. Anti-TB therapy should be considered prior to initiating Skyrizi in patients with a past history of latent or active TB in whom an adequate course of treatment cannot be confirmed.

Across the Phase 3 psoriasis clinical studies, of the 72 subjects with latent tuberculosis who were concurrently treated with Skyrizi and appropriate TB prophylaxis during the studies, none developed active TB during the mean follow-up of 61 weeks on risankizumab.

### **Immunisations**

Prior to initiating therapy with Skyrizi, completion of all appropriate immunisations should be considered according to current immunisation guidelines. Skyrizi should not be used with live vaccines. No data are available on the response to live or inactive vaccines.

### **Use in Hepatic Impairment**

No specific studies were conducted to assess the effect of hepatic impairment on the pharmacokinetics of Skyrizi. This condition is generally not expected to have any significant impact on the pharmacokinetics of monoclonal antibodies and no dose adjustments are considered necessary (see **5.2 PHARMACOKINETIC PROPERTIES**).

### **Use in Renal Impairment**

No specific studies were conducted to assess the effect of renal impairment on the pharmacokinetics of Skyrizi. This condition is generally not expected to have any significant impact on the pharmacokinetics of monoclonal antibodies and no dose adjustments are considered necessary (see **5.2 PHARMACOKINETIC PROPERTIES**).

### **Use in the Elderly**

No dose adjustment is required (see **5.2 PHARMACOKINETIC PROPERTIES**).

## **Paediatric use**

The safety and effectiveness of Skyrizi in patients with psoriasis, psoriatic arthritis, or ulcerative colitis younger than 18 years of age have not yet been established.

The safety and effectiveness of Skyrizi in patients with Crohn's disease younger than 16 years of age have not yet been established.

## **Effects on Laboratory Tests**

No data available.

### **4.5 Interactions with Other Medicines and Other Forms of Interactions**

Skyrizi is not expected to undergo metabolism by hepatic enzymes or renal elimination. Drug interactions between Skyrizi and inhibitors/inducers of drug metabolising enzymes are not expected.

Based on results from drug-drug interaction studies in subjects with plaque psoriasis, Crohn's disease or ulcerative colitis, and on population pharmacokinetic analyses in plaque psoriasis, psoriatic arthritis, Crohn's disease, and ulcerative colitis, risankizumab would not cause or be impacted by drug-drug interactions (see **5.2 PHARMACOKINETIC PROPERTIES-Drug Interactions**).

No dose adjustment is needed when co-administering risankizumab and cytochrome P450 substrates.

### **4.6 Fertility, Pregnancy and Lactation**

#### **Pregnancy (Pregnancy Category B1)**

Data available with Skyrizi use in pregnant women are insufficient to inform any drug-associated risks.

An enhanced pre- and post-natal developmental toxicity study was conducted in cynomolgus monkeys. Pregnant cynomolgus monkeys were administered weekly subcutaneous doses of risankizumab at 5 or 50 mg/kg from gestation day 20 to parturition and the cynomolgus monkeys (mother and infants) were followed for 6 months (180 days) after delivery. These doses produced exposures of  $\geq 70$  times the clinical exposures at the maximum recommended human dose (MRHD) for psoriasis and psoriatic arthritis (150 mg subcutaneous).

For Crohn's disease, these doses produced exposures 10 times the clinical exposures during induction at a dose of 600 mg intravenous every 4 weeks and 39 times the clinical exposures for maintenance when given 360 mg subcutaneous every 8 weeks.

For ulcerative colitis, these doses produced exposures 5 times the clinical exposures during induction at a dose of 1200 mg intravenous every 4 weeks and 65 or 32 times the clinical exposures for maintenance when given at 180 mg or 360 mg subcutaneous, respectively, every 8 weeks.

No drug-related foetal/infant deaths and/or malformations were observed. There were no effects on infant growth and development, which included the assessment of external, visceral, skeletal and neurobehavioural parameters and developmental immuno-toxicology endpoints. In the infants, mean serum concentrations increased in a dose-dependent manner and were approximately 20% - 90% of the respective maternal concentrations. Following delivery, most adult female cynomolgus monkeys and all infants from the risankizumab-treated groups had measurable serum concentrations of risankizumab up to 91 days postpartum. Serum concentrations were below detectable levels at 180 days postpartum.

Skyrizi should be used in pregnancy only if the benefits outweigh the potential risks.

### **Breastfeeding**

There are no data on the presence of risankizumab in human milk, the effects on the breastfed infant, or the effects on milk production. Although human IgG is secreted into human milk, published data suggest that antibodies in breast milk do not enter the neonatal and infant circulations in substantial amounts. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Skyrizi.

### **Fertility**

Studies in cynomolgus monkeys at doses of up to 50 mg/kg/week (about 70 times the clinical exposure at the MRHD for psoriasis and psoriatic arthritis and 7 and 28 times the clinical exposures during induction and maintenance, respectively, in Crohn's disease) and 3 and 45 or 23 times the clinical exposures during induction (1200 mg intravenous) and maintenance (180 mg or 360 mg subcutaneous), respectively, in ulcerative colitis) with Skyrizi did not indicate direct or indirect harmful effects on male or female fertility. In the 26-week repeat dose toxicology study, histopathology evaluation of reproductive organs from both male and female cynomolgus monkeys did not show any adverse findings. In a 26-week repeat dose study in sexually mature male cynomolgus monkeys, no effects on male fertility parameters were observed.

#### **4.7 Effects on Ability to Drive and use Machines**

Skyrizi has no or negligible influence on the ability to drive and use machines.

## 4.8 Adverse Effects (Undesirable Effects)

### Psoriasis

A total of 2234 subjects were treated with Skyrizi in clinical development studies in plaque psoriasis, representing 2167 subject-years of exposure. Of these, 1208 subjects with psoriasis were exposed to Skyrizi for at least one year.

Data from placebo- and active-controlled studies were pooled to evaluate the safety of Skyrizi for up to 16 weeks. In total, 1306 subjects were evaluated in the Skyrizi 150 mg group. Serious adverse events occurred in 2.4% for the Skyrizi group (9.9 events per 100 subject-years) compared with 4.0% for the placebo group (17.4 events per 100 subject-years), 5.0% for the ustekinumab group (18.4 events per 100 subject-years) and 3.0% for the adalimumab group (14.7 events per 100 subject-years).

Table 1 summarizes the adverse reactions that occurred at a rate of at least 1% and at a higher rate in the Skyrizi group than the placebo group during the 16-week controlled period of pooled clinical studies. Adverse reactions are listed by MedDRA system organ class.

**Table 1. Adverse Reactions Occurring in  $\geq 1\%$  of Subjects on Skyrizi through Week 16**

	<b>Skyrizi<sup>1,2,4</sup></b> <b>N=1306</b> <b>n (%)</b>	<b>Placebo<sup>1,2</sup></b> <b>N = 300</b> <b>n (%)</b>	<b>Ustekinumab<sup>1,3</sup></b> <b>N = 239</b> <b>n (%)</b>	<b>Adalimumab<sup>4</sup></b> <b>N=304</b> <b>n (%)</b>
<b>Infections and infestations</b>				
Upper respiratory infections <sup>a</sup>	170 (13.0)	29 (9.7)	28 (11.7)	42 (13.8)
Tinea infections <sup>b</sup>	15 (1.1)	1 (0.3)	1 (0.4)	2 (0.7)
<b>Nervous system disorders</b>				
Headache <sup>c</sup>	46 (3.5)	6 (2.0)	9 (3.8)	20 (6.6)
<b>General disorders and administration site conditions</b>				
Fatigue <sup>d</sup>	33 (2.5)	3 (1.0)	7 (2.9)	8 (2.6)
Injection site reactions <sup>e</sup>	19 (1.5)	3 (1.0)	9 (3.8)	17 (5.6)
<sup>a</sup> Includes: respiratory tract infection (viral, bacterial or unspecified), sinusitis (including acute), rhinitis, nasopharyngitis, pharyngitis (including viral), tonsillitis <sup>b</sup> Includes: tinea pedis, tinea cruris, body tinea, tinea versicolour, tinea manuum, tinea infection, onychomycosis <sup>c</sup> Includes: headache, tension headache, sinus headache, cervicogenic headache <sup>d</sup> Includes: fatigue, asthenia <sup>e</sup> Includes: injection site bruising, erythema, extravasation, haematoma, haemorrhage, infection, inflammation, irritation, pain, pruritus, reaction, swelling, warmth <sup>1</sup> Includes data from ULTIMMA-1 and ULTIMMA-2 studies <sup>2</sup> Includes data from IMMSTANCE study <sup>3</sup> Includes data from Phase 2 Study 1311.2 <sup>4</sup> Includes data from IMMVENT study				

**Less Common Clinical Trial Adverse Drug Reactions (<1%)**

Infections and Infestations: folliculitis

**Specific Adverse Reactions**

**Infections**

In the first 16 weeks, infections occurred in 22.1% of the Skyrizi group (90.8 events per 100 subject-years) compared with 14.7% of the placebo group (56.5 events per 100 subject-years), 20.9% of the ustekinumab group (87.0 events per 100 subject-years) and 24.3% of the adalimumab group (104.2 events per 100 subject-years). The majority of cases were non-serious and mild to moderate in severity and did not lead to discontinuation of Skyrizi.

Over the entire psoriasis program including long-term exposure to Skyrizi, the rate of infections (75.5 events per 100 subject-years) was similar to that observed during the first 16 weeks of treatment.

### ***Long-Term Safety***

Through Week 52, the frequency of the adverse reactions was similar to the safety profile observed during the first 16 weeks of treatment. Through Week 52, the exposure-adjusted rates of serious adverse events per 100 subject-years were 9.4 for subjects treated with Skyrizi and 10.9 for those treated with ustekinumab.

Patients who completed some of the Phase 3 plaque psoriasis clinical studies had the opportunity to enroll in the open-label extension study, LIMMITLESS. A total of 2170 subjects in the LIMMITLESS study were treated with Skyrizi, representing 11586 subject-years of exposure. From first exposure to Skyrizi, 2139 subjects with psoriasis were exposed to Skyrizi for at least one year, and 1419 subjects were exposed for more than 5 years.

For those subjects exposed to more than 5 years of Skyrizi, no new adverse reactions were identified compared with the first 16 weeks of treatment.

### **Psoriatic Arthritis**

Overall, the safety profile observed in patients with psoriatic arthritis treated with Skyrizi was consistent with the safety profile observed in patients with plaque psoriasis. The safety profile of Skyrizi with up to 52 weeks of exposure was consistent with the profile observed up to 24 weeks.

### **Crohn's Disease**

The adverse drug reaction profile observed in patients with Crohn's disease treated with Skyrizi was consistent with the adverse drug reaction profile observed in patients with plaque psoriasis. No new adverse reactions were identified in Skyrizi Crohn's disease studies.

The majority of infections were non-serious and mild to moderate in severity and did not lead to discontinuation of Skyrizi.

The rate of infections in the pooled data from the 12-week induction studies was 83.3 events per 100 subject-years in subjects treated with Skyrizi 600 mg intravenous compared to 117.7 events per 100 subject-years in placebo. The rate of serious infections was 3.4 events per 100 subject-years in subjects treated with Skyrizi 600 mg intravenous compared to 16.7 events per 100 subject-years in placebo.

The rate of infections in the 52-week maintenance study was 57.7 events per 100 subject-years in subjects treated with Skyrizi 360 mg subcutaneous after Skyrizi induction compared to 76.0 events per 100 subject-years in subjects who received placebo after Skyrizi induction. The rate of serious infections was 6.0 events per 100 subject-years in subjects treated with Skyrizi 360 mg subcutaneous after Skyrizi induction compared to 5.0 events per 100 subject-years in subjects who received placebo after Skyrizi induction.

### Ulcerative Colitis

The adverse drug reaction profile observed in patients with ulcerative colitis treated with Skyrizi was consistent with the adverse drug reaction profile observed in patients across indications. No new adverse drug reactions were identified in Skyrizi ulcerative colitis studies.

The majority of infections were non-serious and mild to moderate in severity and did not lead to discontinuation of Skyrizi.

The rate of infections in the pooled data from the 12-week induction study was 77.5 events per 100 subject-years in subjects treated with Skyrizi 1200 mg intravenous compared to 75.4 events per 100 subject-years in placebo. The rate of serious infections was 2.9 events per 100 subject-years in subjects treated with Skyrizi 1200 mg intravenous compared to 5.1 events per 100 subject-years in placebo.

The rate of infections in the 52-week maintenance study was 67.4 events per 100 subject-years in subjects treated with Skyrizi 180 mg subcutaneous and 56.5 events per 100 subject-years in subjects treated with Skyrizi 360 mg subcutaneous after Skyrizi induction compared to 64.6 events per 100 subject-years in subjects who received placebo after Skyrizi induction. The rate of serious infections was 1.1 events per 100 subject-years in subjects treated with Skyrizi 180 mg subcutaneous and 0.6 events per 100 subject-years in subjects treated with Skyrizi 360 mg subcutaneous after Skyrizi induction compared to 2.3 events per 100 subject-years in subjects who received placebo after Skyrizi induction.

### **Post marketing experience**

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

- *Skin and subcutaneous tissue disorders*: eczema, rash and urticaria.
- *Immune system disorders*: anaphylactic reaction.

## **Immunogenicity**

As with all therapeutic proteins, there is the potential for immunogenicity with Skyrizi. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody positivity (including neutralising antibody) 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 risankizumab with the incidence of antibodies to other products may be misleading.

### Psoriasis

For subjects treated with Skyrizi at the recommended clinical dose for up to 52 weeks in psoriasis clinical trials, treatment-emergent anti-drug antibodies and neutralising antibodies were detected in 24% (263/1079) and 14% (150/1079) of evaluated subjects, respectively. For subjects exposed to long term treatment of Skyrizi in the extension study, the immunogenicity profile observed up to 204 weeks of treatment was consistent compared to the first 52 weeks of treatment.

### Psoriatic Arthritis

For subjects treated with Skyrizi at the recommended clinical dose for up to 28 weeks in psoriatic arthritis clinical trials, treatment-emergent anti-drug antibodies and neutralising antibodies were detected in 12.1% (79/652) and 0% (0/652) of evaluated subjects, respectively.

### Crohn's Disease

For subjects treated with Skyrizi at the recommended intravenous induction and subcutaneous maintenance doses for up to 64 weeks in Crohn's Disease clinical trials, treatment-emergent anti-drug antibodies and neutralising antibodies were detected in 3.4% (2/58) and 0% (0/58) of evaluated subjects, respectively.

### Ulcerative Colitis

For subjects treated with Skyrizi at the recommended intravenous induction and subcutaneous maintenance doses (180 mg or 360 mg) for up to 64 weeks in ulcerative colitis clinical trials, treatment-emergent anti-drug antibodies and neutralising antibodies were detected in 8.9% (8/90) and 6.7% (6/90) for the 180 mg subcutaneous dose, or 4.4% (4/91) and 2.2% (2/91) for the 360 mg subcutaneous dose, of evaluated subjects, respectively.

Across all indications, antibodies to risankizumab including neutralising antibodies were not associated with changes in clinical response or safety.

## Reporting Suspected Adverse Effects

Reporting suspected adverse reactions after registration of the medicinal product is important. It allows continued monitoring of the benefit-risk balance of the medicinal product. In New Zealand, healthcare professionals are asked to report any suspected adverse reactions <https://pophealth.my.site.com/carmreportnz/s/>.

### 4.9 Overdose

In the event of overdose, it is recommended that the patient be monitored for any signs or symptoms of adverse reactions and appropriate symptomatic treatment be instituted immediately.

For advice on the management of overdose in New Zealand, please contact the National Poisons Centre on 0800 POISON (0800 764 766).

## 5 PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic Properties

ATC code: L04AC18.

In a study of subjects with psoriasis, expression of genes associated with the IL-23/IL-17 axis was decreased in the skin after single doses of risankizumab. Reductions in epidermal thickness, infiltration of inflammatory cells, and expression of psoriatic disease markers were also observed in psoriatic lesions.

In a study of subjects with psoriatic arthritis, clinically meaningful reduction from baseline was observed at Week 24 in IL-23- and IL-17-associated biomarkers, including serum IL-17A, IL-17F, and IL-22 following treatment with risankizumab at 150 mg administered subcutaneously at Week 0, Week 4, and every 12 weeks thereafter.

In a Phase 2 study of subjects with Crohn's disease, expression of genes associated with the IL-23/Th17 axis was decreased in gut tissue after multiple doses of risankizumab. Reductions in faecal calprotectin (FCP), serum C reactive protein (CRP) and IL-22 were also observed after multiple doses in Phase 3 induction studies in Crohn's patients. Decreases in FCP, CRP and serum IL-22 were maintained out to Week 52 of the maintenance study.

In a Phase 2b/3 study of subjects with ulcerative colitis, statistically significant and clinically meaningful reduction from baseline was observed in the inflammatory biomarkers, FCP and CRP, and in the IL-23 pathway-associated biomarker, serum IL-22, at Week 12 of the induction study. Decreases in FCP, CRP and serum IL-22 were maintained out to Week 52 of the maintenance study.

## **Mechanism of Action**

Risankizumab is a humanised immunoglobulin G1 (IgG1) monoclonal antibody that selectively binds with high affinity to the p19 subunit of human interleukin 23 (IL-23) cytokine and inhibits its interaction with the IL-23 receptor complex. IL-23 is a naturally occurring cytokine that is involved in inflammatory and immune responses. IL-23 supports the development, maintenance and activation of Th17 cells, which produces IL-17A, IL-17F, and IL-22, as well as other pro-inflammatory cytokines, and plays a key role in driving inflammatory autoimmune diseases, such as psoriasis, Crohn's disease, and ulcerative colitis. IL-23 is up-regulated in lesional skin in comparison to non-lesional skin of patients with plaque psoriasis. IL-23 is elevated in inflamed colonic mucosa from Crohn's disease and ulcerative colitis patients compared to colonic mucosa from healthy individuals. By blocking IL-23 from binding to its receptor, risankizumab inhibits IL-23-dependent cell signalling and release of pro-inflammatory cytokines.

Risankizumab does not bind to human IL-12, which shares the p40 subunit with IL-23.

## **Clinical Trials**

### Psoriasis

The efficacy and safety of Skyrizi was assessed in 2109 subjects with moderate to severe plaque psoriasis in four multicentre, randomised, double-blind studies (ULTIMMA-1, ULTIMMA-2, IMMSTANCE, and IMMVENT). Patients who completed these studies had the opportunity to enroll in the open-label extension study, LIMITLESS. Enrolled subjects were 18 years of age and older with plaque psoriasis who had a body surface area (BSA) involvement of  $\geq 10\%$ , a static Physician Global Assessment (sPGA) score of  $\geq 3$  in the overall assessment (plaque thickness/induration, erythema, and scaling) of psoriasis on a severity scale of 0 to 4, and a Psoriasis Area and Severity Index (PASI) score  $\geq 12$ .

Overall, subjects had a median baseline PASI score of 17.8 and a median BSA of 20.0%. Baseline sPGA score was severe in 19.3% of subjects. A total of 9.8% of study subjects had a history of diagnosed psoriatic arthritis.

Across all studies, 30.9% of subjects were naïve to both non-biologic systemic and biologic therapy, 38.1% of subjects had received prior phototherapy, 48.3% had received prior non-biologic systemic therapy, 42.1% had received prior biologic therapy and 23.7% had received at least one anti-TNF alpha agent for the treatment of psoriasis.

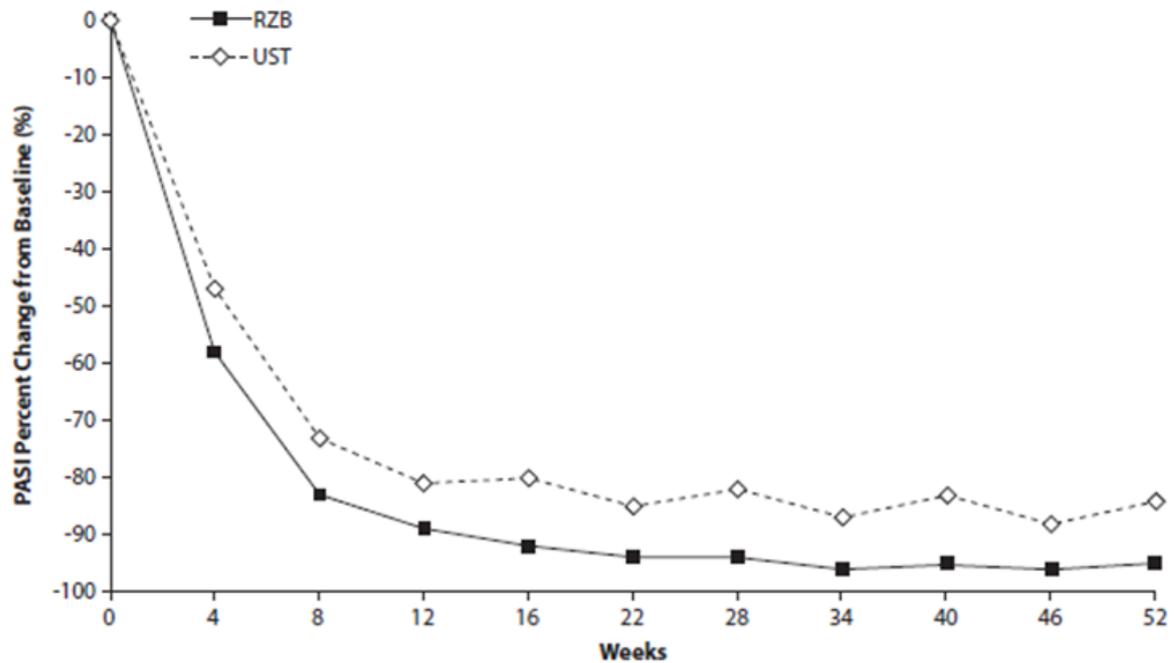
## ULTIMMA-1 and ULTIMMA-2

ULTIMMA-1 and ULTIMMA-2 enrolled 997 subjects (598 randomised to Skyrizi 150 mg, 199 to ustekinumab 45 mg or 90 mg, and 200 to placebo). Subjects received treatment at Week 0, Week 4, and every 12 weeks thereafter. The results are presented in Table 2 and Figure 1.

**Table 2. Efficacy Results in Adults with Plaque Psoriasis in ULTIMMA-1 and ULTIMMA-2**

	ULTIMMA-1			ULTIMMA-2		
	Skyrizi (N=304) n (%)	Ustekinumab (N=100) n (%)	Placebo (N=102) n (%)	Skyrizi (N=294) n (%)	Ustekinumab (N=99) n (%)	Placebo (N=98) n (%)
<b>sPGA of clear or almost clear (0 or 1)</b>						
<b>Week 12</b>	250 (82.2)	65 (65.0)	9 (8.8)	242 (82.3)	64 (64.6)	9 (9.2)
<b>Week 16</b>	267 (87.8) <sup>a</sup>	63 (63.0)	8 (7.8)	246 (83.7) <sup>a</sup>	61 (61.6)	5 (5.1)
<b>Week 52</b>	262 (86.2)	54 (54.0)	—	245 (83.3)	54 (54.5)	—
<b>sPGA of clear (0)</b>						
<b>Week 16</b>	112 (36.8)	14 (14.0)	2 (2.0)	150 (51.0)	25 (25.3)	3 (3.1)
<b>Week 52</b>	175 (57.6)	21 (21.0)	—	175 (59.5)	30 (30.3)	—
<b>PASI 75</b>						
<b>Week 12</b>	264 (86.8)	70 (70.0)	10 (9.8)	261 (88.8)	69 (69.7)	8 (8.2)
<b>Week 52</b>	279 (91.8)	70 (70.0)	—	269 (91.5)	76 (76.8)	—
<b>PASI 90</b>						
<b>Week 16</b>	229 (75.3) <sup>a</sup>	42 (42.0)	5 (4.9)	220 (74.8) <sup>a</sup>	47 (47.5)	2 (2.0)
<b>Week 52</b>	249 (81.9)	44 (44.0)	—	237 (80.6)	50 (50.5)	—
<b>PASI 100</b>						
<b>Week 16</b>	109 (35.9)	12 (12.0)	0 (0.0)	149 (50.7)	24 (24.2)	2 (2.0)
<b>Week 52</b>	171 (56.3)	21 (21.0)	—	175 (59.5)	30 (30.3)	—
All comparisons of Skyrizi versus ustekinumab and placebo achieved p<0.001 except for PASI 75 at Week 52 in ULTIMMA-2 where p=0.001						
<sup>a</sup> Co-primary endpoints versus placebo						

**Figure 1. Time Course of Mean Percent Change from Baseline of PASI in ULTIMMA-1 and ULTIMMA-2**



RZB = risankizumab  
 UST = ustekinumab  
 P < 0.001 at each time point

Examination of age, gender, race, body weight, baseline PASI score, concurrent psoriatic arthritis, previous non-biologic systemic treatment, previous biologic treatment, and previous failure of a biologic did not identify differences in response to Skyrizi among these subgroups.

Improvements were observed in psoriasis involving the scalp, the nails, and the palms and soles at Week 16 and Week 52 in subjects treated with Skyrizi.

### **IMMHANCE**

IMMHANCE enrolled 507 subjects (407 randomized to Skyrizi 150 mg and 100 to placebo). Subjects received treatment at Week 0, Week 4 and every 12 weeks thereafter.

At Week 16, Skyrizi was superior to placebo on the co-primary endpoints of sPGA of clear or almost clear (83.5% Skyrizi vs 7.0% placebo) and PASI 90 (73.2% Skyrizi vs 2.0% placebo). More subjects on Skyrizi had clear skin [sPGA 0 (46.4% Skyrizi vs

1.0% placebo) or PASI 100 (47.2% Skyrizi vs 1.0% placebo)] at Week 16. Subjects receiving Skyrizi were also more likely to have a PASI 75 response compared with placebo (88.7% Skyrizi vs 8.0% placebo).

Of the 31 subjects from the IMMSTANCE study with latent tuberculosis (TB) at screening who did not receive prophylaxis during the study, none developed active TB during the mean follow-up of 55 weeks on risankizumab.

### **IMMVENT**

IMMVENT enrolled 605 subjects (301 randomized to Skyrizi and 304 to adalimumab). Subjects randomised to Skyrizi received 150 mg of treatment at Week 0, Week 4 and every 12 weeks thereafter. Subjects randomised to adalimumab received 80 mg at Week 0, 40 mg at Week 1 and 40 mg every other week through Week 15. Starting at Week 16, subjects who were receiving adalimumab continued or switched treatment based on response:

- < PASI 50 were switched to Skyrizi
- PASI 50 to < PASI 90 were re-randomised to either continue adalimumab or switch to Skyrizi
- PASI 90 continued to receive adalimumab

Similar results for Skyrizi at Week 16 were seen in IMMVENT as in other clinical studies (Table 3 and Figure 2).

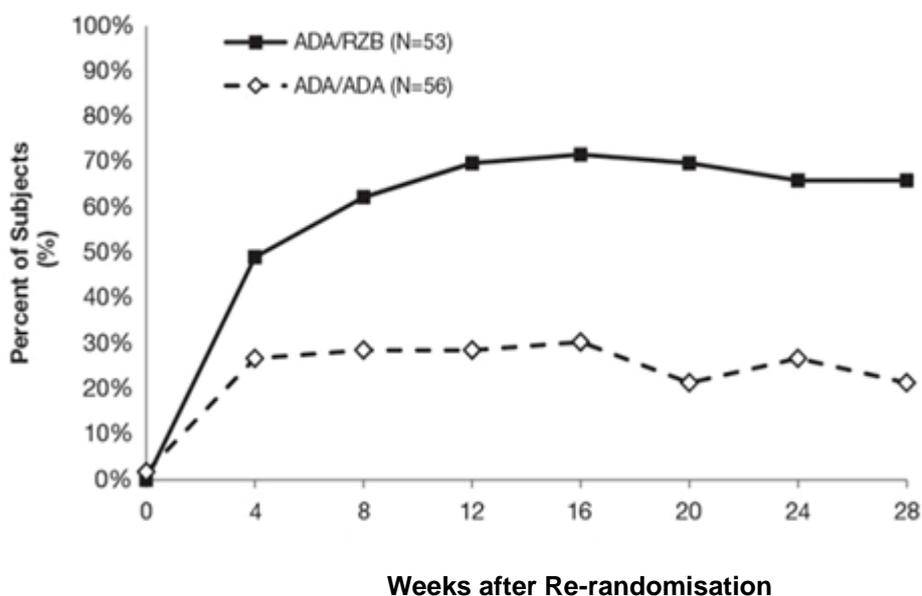
**Table 3. Efficacy Results at Week 16 in Adults with Plaque Psoriasis in IMMVENT**

	<b>Skyrizi (N = 301) n (%)</b>	<b>Adalimumab (N = 304) n (%)</b>
sPGA of clear or almost clear <sup>a</sup>	252 (83.7)	183 (60.2)
PASI 75	273 (90.7)	218 (71.7)
PASI 90 <sup>a</sup>	218 (72.4)	144 (47.4)
PASI 100	120 (39.9)	70 (23.0)
All comparisons achieved p < 0.001		
<sup>a</sup> Co-primary endpoints		

For subjects who had PASI 50 to < PASI 90 with adalimumab at Week 16 and were re-randomised, differences in PASI 90 response rates between switching to Skyrizi and continuing adalimumab were noted as early as 4 weeks after re-randomisation (49.1% vs 26.8%, respectively). 66.0% (35/53) of subjects achieved PASI 90 following 28 weeks of Skyrizi, compared with 21.4% (12/56) who continued to receive adalimumab. Other levels of response were also higher following Skyrizi: 39.6% PASI

100, 39.6% sPGA of clear, and 73.6% sPGA of clear or almost clear had response after switching to Skyrizi, compared with 7.1% PASI 100, 7.1% sPGA of clear, and 33.9% sPGA of clear or almost clear who continued to receive adalimumab.

**Figure 2. Time Course of PASI 90 After Re-randomisation in IMMVENT**



ADA/ADA: Subjects randomised to adalimumab and continued on adalimumab  
 ADA/RZB: Subjects randomised to adalimumab and switched to Skyrizi  
 $p < 0.05$  at Week 4 and  $p < 0.001$  at each time point beginning at Week 8

In 270 patients who switched from adalimumab to Skyrizi without a washout period, the safety profile was similar to that in patients who initiated Skyrizi after washout of any prior systemic therapies.

### ***Maintenance and Durability of Response***

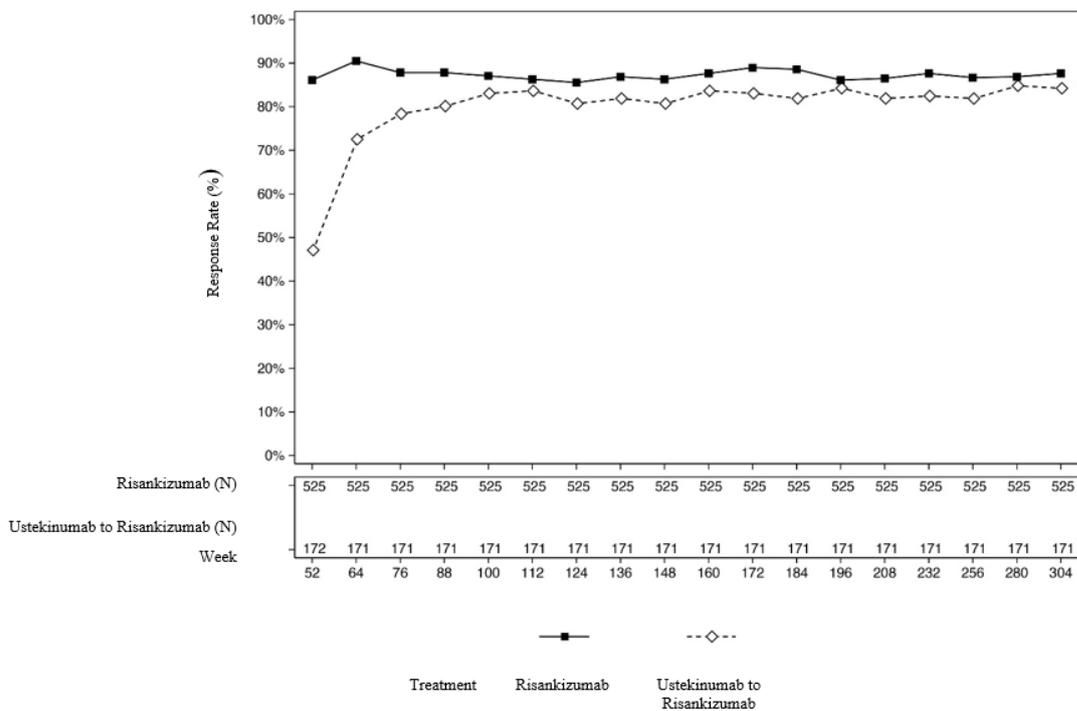
In an integrated analysis of subjects receiving Skyrizi in ULTIMMA-1 and ULTIMMA-2 for PASI 100 responders at Week 16, 79.8% (206/258) of the subjects who continued on Skyrizi maintained the response at Week 52. For PASI 90 responders at Week 16, 88.4% (398/450) of subjects maintained the response at Week 52.

IMMHANCE subjects originally on Skyrizi who achieved sPGA of clear or almost clear at Week 28 were re-randomised to continue Skyrizi every 12 weeks through Week 88 (n=111) or were withdrawn from therapy (n=225). At Week 52 and Week 104 (16 weeks after last Skyrizi dose), 87.4% and 81.1% of the subjects continuing Skyrizi achieved sPGA of clear or almost clear compared with 61.3% and 7.1% for those withdrawn from Skyrizi. sPGA clear response rates at Week 52 and Week 104 were: 64.9% and 63.1% for subjects continuing Skyrizi compared with 30.7% and 2.2% for those withdrawn from Skyrizi. Among subjects who achieved sPGA of clear or almost

clear at Week 28 and relapsed (sPGA  $\geq 3$ ) following withdrawal from Skyrizi, 83.7% (128/153) regained sPGA of clear or almost clear response after 16 weeks of retreatment.

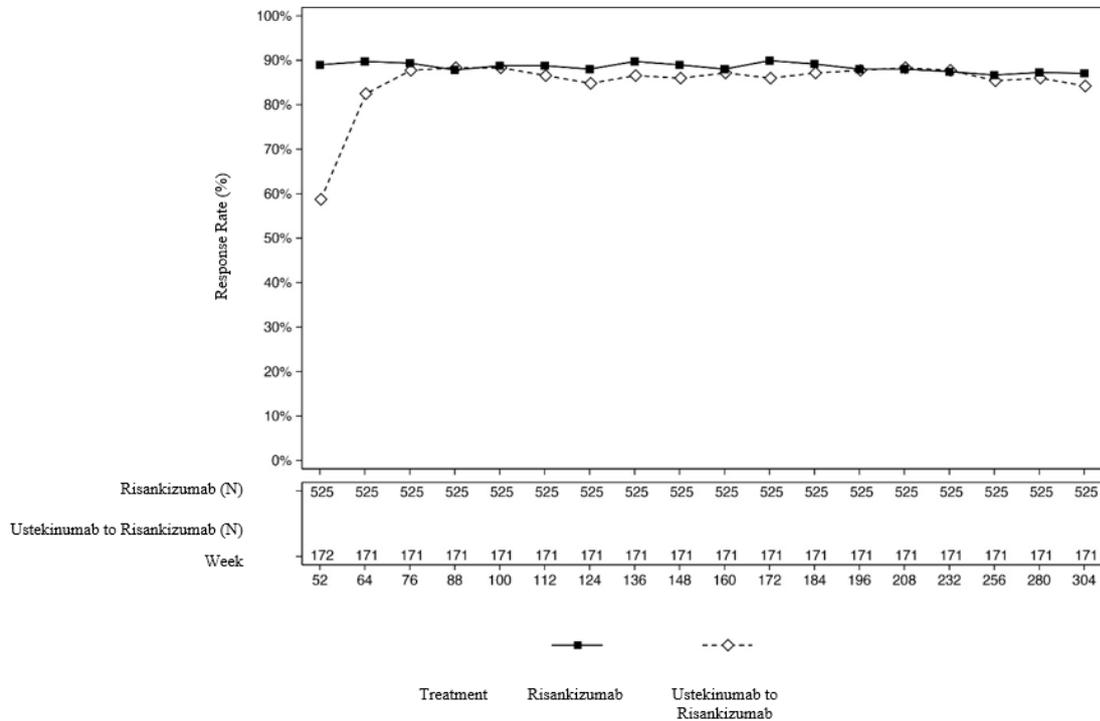
In LIMMITLESS, response rates among subjects who completed ULTIMMA-1 and ULTIMMA-2 and continued Skyrizi treatment, rates of PASI 90 and sPGA of clear or almost clear were maintained through Week 304. For subjects who switched from ustekinumab to Skyrizi at Week 52, rates of PASI 90 and sPGA of clear or almost clear increased from Week 52 through Week 76 which were maintained through Week 304 (Figure 3 and 4).

**Figure 3. Percent of Subjects Who Achieved a PASI 90 Response by Visit (LOCF) in LIMMITLESS**



\*Subjects randomised to receive ustekinumab or risankizumab 150 mg in studies ULTIMMA-1 and ULTIMMA-2 and entered LIMMITLESS

**Figure 4. Percent of Subjects Who Achieved an sPGA Clear or Almost Clear Response by Visit (LOCF) in LIMMITLESS**



\*Subjects randomised to receive ustekinumab or risankizumab 150 mg in studies ULTIMMA-1 and ULTIMMA-2 and entered LIMMITLESS

### **Quality of Life/Patient-Reported Outcomes**

Significantly more subjects treated with Skyrizi achieved a Dermatology Life Quality Index (DLQI) score of 0 or 1 [no impact on health-related quality of life] at Week 16 compared with placebo, adalimumab, or ustekinumab (Table 4). Improvement in health-related quality of life continued through Week 52 (ULTIMMA-1 and ULTIMMA-2). These improvements were maintained in patients receiving continuous risankizumab treatment through Week 304 in the open label extension study LIMMITLESS.

**Table 4. Health-related Quality of Life in ULTIMMA-1, ULTIMMA-2, and IMMVENT**

	ULTIMMA - 1			ULTIMMA - 2			IMMVENT	
	Skyrizi (N= 304) n (%)	Ustekinumab (N = 100) n (%)	Placebo (N = 102) n (%)	Skyrizi (N = 294) n (%)	Ustekinumab (N = 99) n (%)	Placebo (N = 98) n (%)	Skyrizi (N= 301) n (%)	Adalimumab (N= 304) n (%)
<b>DLQI 0 or 1</b>								
<b>Week 16</b>	200 (65.8)	43 (43.0)	8 (7.8)	196 (66.7)	46 (46.5)	4 (4.1)	198 (65.8)	148 (48.7)
<b>Week 52</b>	229 (75.3)	47 (47.0)	--	208 (70.7)	44 (44.4)	--	--	--
All comparisons of Skyrizi versus ustekinumab, adalimumab and placebo achieved p < 0.001								

In ULTIMMA-1 and ULTIMMA-2, significantly greater improvements in psoriasis symptoms (itch, pain, redness and burning, as measured by the Psoriasis Symptom Score [PSS]) were demonstrated with Skyrizi compared with placebo at Week 16. A significantly greater proportion of subjects on Skyrizi achieved a PSS of 0 (symptom-free) at Week 16 compared with ustekinumab and with placebo. By Week 52, 55.7% (333/598) of subjects on Skyrizi reported no itch, pain, redness or burning.

Anxiety and depression, as measured by the Hospital Anxiety and Depression Scale (HADS) improved in the Skyrizi group at Week 16 compared with those receiving placebo in ULTIMMA-1 and ULTIMMA-2.

A greater improvement in the Work Limitations Questionnaire (WLQ) at Week 16 was achieved in subjects receiving Skyrizi compared with those receiving adalimumab in IMMVENT.

### Psoriatic Arthritis

Skyrizi has been shown to improve signs and symptoms, physical function, health-related quality of life, and the proportion of subjects with no radiographic progression in adults with active psoriatic arthritis (PsA).

The safety and efficacy of Skyrizi were assessed in 1407 subjects in 2 randomised, double-blind, placebo-controlled studies (964 in KEEPSAKE1 and 443 in KEEPSAKE2) in subjects 18 years and older with active PsA.

Subjects in these studies had a diagnosis of PsA for at least 6 months based on the Classification Criteria for Psoriatic Arthritis (CASPAR), a median duration of PsA of 4.9 years at baseline,  $\geq 5$  tender joints and  $\geq 5$  swollen joints, and active plaque psoriasis or nail psoriasis at baseline. 55.9% of subjects had  $\geq 3\%$  BSA with active plaque psoriasis. 63.4% and 27.9% of subjects had enthesitis and dactylitis, respectively. In KEEPSAKE1 where nail psoriasis was further assessed, 67.3% had nail psoriasis.

In KEEPSAKE1, all subjects had a previous inadequate response or intolerance to non-biologic DMARD therapy and were biologic naïve. In KEEPSAKE2, 53.5% of subjects had a previous inadequate response or intolerance to non-biologic DMARD therapy and 46.5% of subjects had a previous inadequate response or intolerance to biologic therapy.

In both studies, subjects were randomised to receive Skyrizi 150 mg or placebo at Weeks 0, 4, and 16. Starting from Week 28, all subjects received Skyrizi every 12 weeks. Both studies include a long-term extension for up to an additional 204 weeks. 59.6% of subjects from both studies were receiving concomitant methotrexate (MTX), 11.6% were receiving concomitant non-biologic DMARDs other than MTX, and 28.9% were receiving Skyrizi monotherapy.

For both studies, the primary endpoint was the proportion of subjects who achieved an American College of Rheumatology (ACR) 20 response at Week 24.

### *Clinical Response*

In both studies, treatment with Skyrizi resulted in significant improvement in measures of disease activity compared to placebo at Week 24. See Table 5 for key efficacy results.

Time to onset of efficacy was rapid across measures with greater responses versus placebo seen as early as Week 4 in 25.7% and 19.6% of subjects for ACR20 for KEEPSAKE1 and KEEPSAKE2, respectively.

Treatment with Skyrizi resulted in statistically significant improvement in dactylitis and enthesitis in patients with pre-existing dactylitis or enthesitis (see Table 5).

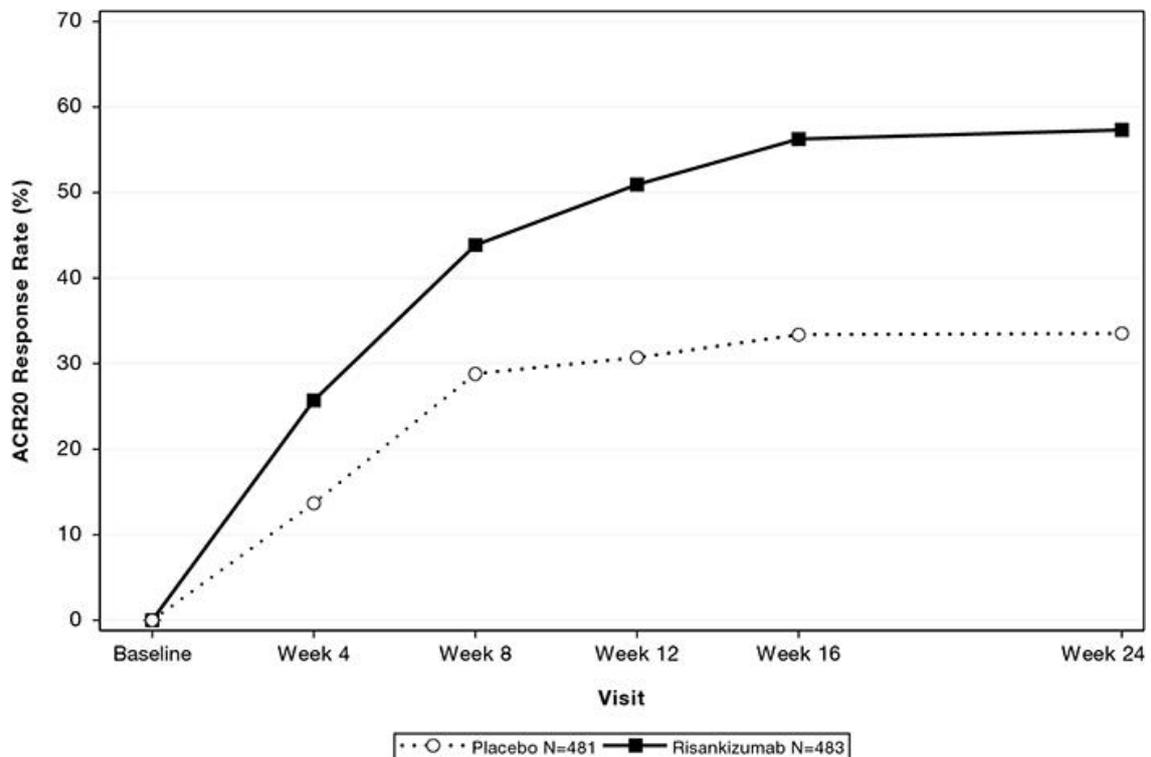
In both studies, similar responses were seen regardless of concomitant non-biologic DMARD use, number of prior non biologic DMARDs, age, gender, race, and BMI. In KEEPSAKE2, responses were seen regardless of prior biologic therapy.

**Table 5. Efficacy Results in Studies KEEPSAKE1 and KEEPSAKE2**

Endpoint	KEEPSAKE1		KEEPSAKE2	
	Placebo N=481 n(%)	Skyrizi N=483 n(%)	Placebo N=219 n(%)	Skyrizi N=224 n(%)
<b>ACR20 Response</b>				
Week 16	161 (33.4)	272 (56.3) <sup>a</sup>	55 (25.3)	108 (48.3) <sup>a</sup>
Week 24	161 (33.5)	277 (57.3) <sup>a</sup>	58 (26.5)	115 (51.3) <sup>a</sup>
Week 52*	-	338/433 (78.1)	-	131/191 (68.6)
<b>ACR50 Response</b>				
Week 24	54 (11.3)	162 (33.4) <sup>b</sup>	20 (9.3)	59 (26.3) <sup>b</sup>
Week 52*	-	209/435 (48.0)	-	72/192 (37.5)
<b>ACR70 Response</b>				
Week 24	23 (4.7)	74 (15.3) <sup>b</sup>	13 (5.9)	27 (12.0) <sup>c</sup>
Week 52*	-	125/437 (28.6)	-	37/192 (19.3)
<b>Resolution of Enthesitis (LEI=0)</b>				
Week 24*	156/448 (34.8) <sup>d</sup>	215/444 (48.4) <sup>a, d</sup>	-	-
Week 52*	-	244/393 (62.1) <sup>d</sup>	-	-
<b>Resolution of Dactylitis (LDI=0)</b>				
Week 24*	104/204 (51.0) <sup>e</sup>	128/188 (68.1) <sup>a, e</sup>	-	-
Week 52*	-	143/171 (83.6) <sup>e</sup>	-	-
<b>Minimal Disease Activity (MDA) Response</b>				
Week 24	49 (10.2)	121 (25.0) <sup>a</sup>	25 (11.4)	57 (25.6) <sup>a</sup>
Week 52*	-	183/444 (41.2)	-	61/197 (31.0)
* Data are shown for available subjects in the format of n/N observed (%).				
<sup>a</sup> Multiplicity-controlled p≤0.001 Skyrizi vs placebo comparison.				
<sup>b</sup> Nominal p≤0.001 Skyrizi vs placebo comparison.				
<sup>c</sup> Nominal p≤0.05 Skyrizi vs placebo comparison.				
<sup>d</sup> Summarized from pooled data from KEEPSAKE1 and KEEPSAKE2 for subjects with baseline LEI >0.				
<sup>e</sup> Summarized from pooled data from KEEPSAKE1 and KEEPSAKE2 for subjects with baseline LDI >0.				

The percent of subjects achieving ACR20 responses in study KEEPSAKE1 through week 24 is shown in Figure 5.

**Figure 5. Percent of Subjects Achieving ACR20 Responses in Study KEEPsAKE1 through Week 24**



In both studies, the proportion of subjects achieving modified PsA Response Criteria (PsARC) at Week 24 was higher in subjects receiving Skyrizi compared with placebo. In addition, subjects receiving Skyrizi achieved greater improvement in Disease Activity Score (28 joints) using CRP (DAS28-CRP) compared with placebo at Week 24 in both studies. Improvements were maintained through Week 52 for PsARC and DAS28-CRP in both studies.

In both studies, improvements were shown in all components of the ACR scores including subject's assessment of pain (see Table 6).

**Table 6. Mean Change from Baseline in ACR Components**

	KEEPSAKE1		KEEPSAKE2	
	Placebo (N=481)	Skyrizi (N=483)	Placebo (N=219)	Skyrizi (N=224)
<b>Number of Swollen Joints (0-66)</b>				
Baseline	12.2	12.1	13.6	13.0
Mean change at Week 24	-6.2	-8.4 <sup>a</sup>	-5.5	-8.6 <sup>a</sup>
<b>Number of Tender Joints (0-68)</b>				
Baseline	20.5	20.8	22.3	22.8
Mean change at Week 24	-7.1	-11.2 <sup>a</sup>	-6.3	-11.6 <sup>a</sup>
<b>Patient's Assessment of Pain<sup>c</sup></b>				
Baseline	57.1	57.1	57.0	55.0
Mean change at Week 24	-10.2	-21.0 <sup>a</sup>	-6.5	-14.7 <sup>a</sup>
<b>Patient's Global Assessment<sup>c</sup></b>				
Baseline	57.4	57.9	56.2	56.2
Mean change at Week 24	-10.5	-21.6 <sup>a</sup>	-7.7	-16.5 <sup>a</sup>
<b>Physician Global Assessment<sup>c</sup></b>				
Baseline	62.4	61.3	60.7	63.0
Mean change at Week 24	-21.1	-33.9 <sup>a</sup>	-19.3	-32.4 <sup>a</sup>
<b>Health Assessment Questionnaire - Disability Index (HAQ-DI)<sup>d</sup></b>				
Baseline	1.17	1.15	1.13	1.10
Mean change at Week 24	-0.11	-0.31 <sup>b</sup>	-0.05	-0.22 <sup>b</sup>
<b>hs-CRP (mg/L)</b>				
Baseline	11.33	11.88	8.16	7.45
Mean change at Week 24	-0.20	-4.32 <sup>a</sup>	0.25	-1.14
<sup>a</sup> Nominal p≤0.001 Skyrizi vs placebo comparison <sup>b</sup> Multiplicity-controlled p≤0.001 Skyrizi vs placebo comparison <sup>c</sup> Assessment based on Visual Analog Scale (100 mm) with the left end indicating “no pain” (for patient’s assessment of pain), “very well” (for patient global assessment), or “no arthritis activity” (for physician global assessment) and the right end indicating “the worst possible pain” (for patient assessment of pain), “poor” (for patient global assessment), or “extremely active arthritis (for physician global assessment). <sup>d</sup> Disability Index of the Health Assessment Questionnaire; 0 = no difficulty to 3 = inability to perform, measures the patient’s ability to perform the following: dressing, arising, eating, walking, hygiene, reaching, gripping, and activities of daily living				

Treatment with Skyrizi resulted in statistically significant improvement in the skin manifestations of psoriasis in subjects with psoriatic arthritis.

Treatment with Skyrizi resulted in statistically significant improvement in nail psoriasis as measured by modified Nail Psoriasis Severity Index (mNAPSI) and the 5-point Physician’s Global Assessment of Fingernail Psoriasis (PGA-F) in subjects with nail

psoriasis at baseline (67.3%) in KEEPsAKE1. This improvement was maintained through Week 52 (see Table 7).

**Table 7. Nail Psoriasis Efficacy Results in KEEPsAKE1**

	Placebo N=338	Skyrizi N=309
<b>mNAPSI change from baseline<sup>a</sup></b>		
Week 24	-5.57	-9.76 <sup>b</sup>
Week 52	-	-13.64
<b>PGA-F change from baseline<sup>a</sup></b>		
Week 24	-0.4	-0.8 <sup>b</sup>
Week 52	-	-1.2
<b>PGA-F clear/minimal and ≥2-grade improvement<sup>c</sup></b>		
Week 24 n (%)	30 (15.9)	71 (37.8) <sup>d</sup>
Week 52 (n) (%)	-	105 (58.0)
<sup>a</sup> Summarised for subjects with baseline nail psoriasis (Placebo N=338; Skyrizi N=309; at Week 52, for mNAPSI, observed Skyrizi N=290, for PGA-F, observed Skyrizi N=291). <sup>b</sup> Multiplicity-controlled p≤0.001 Skyrizi vs placebo comparison. <sup>c</sup> Summarised for subjects with nail psoriasis and a PGA-F overall global assessment score of 'Mild', 'Moderate' or 'Severe' at Baseline (Placebo N=190; Skyrizi N=188, at Week 52 observed Skyrizi N=181). <sup>d</sup> Nominal p≤0.001 Skyrizi vs placebo comparison.		

### *Radiographic Response*

In Study KEEPsAKE1, inhibition of progression of structural damage was assessed radiographically and expressed as the change in modified Total Sharp Score (mTSS) at Week 24, compared with baseline. The mTSS score was modified for psoriatic arthritis by addition of hand distal interphalangeal (DIP) joints. Skyrizi numerically reduced the mean progression of structural damage at Week 24 compared with placebo (mean change from baseline in mTSS score was 0.23 in the Skyrizi group compared with 0.32 in the placebo group [not statistically significant]). The proportion of subjects with no radiographic progression (defined as a change from baseline in mTSS ≤ 0) was higher with Skyrizi (92.4%) compared with placebo (87.7%) at Week 24 (nominal p-value = 0.016). This response was maintained through Week 52.

### *Physical Function and Health Related Quality of Life*

In KEEPsAKE1 and KEEPsAKE2, physical function and disability were assessed by the Health Assessment Questionnaire-Disability Index (HAQ-DI), 36-Item Short Form Health Survey (SF-36) V2. Fatigue was assessed using Functional Assessment of Chronic Illness Therapy Fatigue Scale (FACIT-Fatigue).

In KEEPsAKE 1, subjects treated with Skyrizi showed statistically significant improvement from baseline in physical function as assessed by HAQ-DI at Week 24 (-0.31) compared with placebo (-0.11) (p-value  $\leq 0.001$ ). In KEEPsAKE 2, subjects treated with Skyrizi showed statistically significant improvement from baseline in HAQ-DI at Week 24 (-0.22) compared with placebo (-0.05) (p-value  $\leq 0.001$ ). In both studies, a greater proportion of subjects achieved a clinically meaningful reduction of at least 0.35 in HAQ-DI score from baseline in the Skyrizi group compared with placebo at Week 24. Improvements in physical function were maintained through Week 52 in both studies.

In both studies at Week 24, subjects treated with Skyrizi also demonstrated significant improvements in the SF-36 V2 physical component summary scores and in FACIT-Fatigue scores compared with subjects who received placebo. Improvements in SF-36 physical component as well as FACIT-Fatigue scores were maintained through Week 52 in both studies.

At baseline, psoriatic spondylitis was reported in 19.6% and 19.6% of subjects in KEEPsAKE1 and KEEPsAKE2, respectively. Subjects with psoriatic spondylitis who were treated with Skyrizi showed improvements from baseline in Bath Ankylosing Spondylitis Disease Activity Index (BASDAI) and Ankylosing Spondylitis Disease Activity (ASDAS) scores compared with placebo at Week 24. Improvements were maintained through Week 52.

### Crohn's Disease (CD)

Skyrizi has been shown to improve signs and symptoms and health related quality of life, as well as decrease mucosal inflammation as measured by endoscopy.

The efficacy and safety of Skyrizi was assessed in 1419 subjects with moderate to severe active Crohn's disease in three multicentre, randomised, double-blind, placebo-controlled clinical studies. Enrolled subjects were 16 years of age or older with a Crohn's Disease Activity Index (CDAI) of 220 to 450, an average daily stool frequency (SF)  $\geq 4$  and/or average daily abdominal pain score (APS)  $\geq 2$ , and a Simple Endoscopic Score for CD (SES-CD) of  $\geq 6$ , or  $\geq 4$  for isolated ileal disease, excluding the narrowing component and confirmed by a central reviewer.

There were two 12-week intravenous induction studies (ADVANCE and MOTIVATE), which included a 12-week extension period for subjects who did not achieve SF/APS clinical response ( $\geq 30\%$  decrease in SF and/or  $\geq 30\%$  decrease in APS and both not worse than baseline) at Week 12. ADVANCE and MOTIVATE were followed by a 52-week subcutaneous randomised withdrawal maintenance study (FORTIFY) that

enrolled subjects with SF/APS clinical response to intravenous induction treatment, representing at least 64 weeks of therapy.

### ***ADVANCE and MOTIVATE***

In studies ADVANCE and MOTIVATE, subjects were randomised to receive either Skyrizi 600 mg intravenous (recommended dose), Skyrizi 1200 mg intravenous, or placebo, at Week 0, Week 4, and Week 8.

In ADVANCE, 58% (491/850) subjects had failed or were intolerant to treatment with one or more biologic therapies (prior biologic failure), and 42% (359/850) had failed or were intolerant to treatment with conventional therapy but not to biologic therapy (without prior biologic failure). In ADVANCE, among the subjects without prior biologic failure, 87% (314/359) were naïve to biologic therapy and the remaining 13% had received biologic therapy but never failed nor demonstrated intolerance. All subjects in MOTIVATE had prior biologic failure.

The co-primary endpoints for ADVANCE and MOTIVATE were clinical remission based on SF and APS (average daily SF  $\leq$  2.8 and not worse than baseline and average daily AP score  $\leq$  1 and not worse than baseline) at Week 12, and endoscopic response (greater than 50% decrease in SES-CD from baseline, or a decrease of at least 2 points for subjects with a baseline score of 4 and isolated ileal disease) at Week 12. In both studies, a greater proportion of subjects treated with Skyrizi achieved clinical remission at Week 12 and endoscopic response at Week 12 compared to placebo (Table 8). Enhanced SF/APS clinical response and clinical remission were significant as early as Week 4 in subjects treated with Skyrizi and continued to improve through Week 12.

Additional secondary endpoints measured at Week 12 included the proportion of subjects with enhanced SF/APS clinical response (with  $\geq$  60% decrease in average daily SF and/or  $\geq$  35% decrease in average daily AP score and both not worse than baseline, and/or clinical remission), endoscopic remission (SES-CD  $\leq$  4 at least a 2 point reduction versus baseline and no subscore greater than 1 in any individual variable), mucosal healing (SES-CD ulcerated surface subscore of 0 in subjects with a subscore of  $\geq$  1 at Baseline), a decrease of least 100 points in baseline CDAI, and a CDAI  $<$  150 at Week 12.

**Table 8. Efficacy Results in ADVANCE and MOTIVATE**

	ADVANCE		MOTIVATE	
	Placebo IV (N=175) %	Skyrizi 600 mg IV (N=336) %	Placebo IV (N=187) %	Skyrizi 600 mg IV (N=191) %
<b>Clinical Remission at Week 12<sup>a</sup></b>	22%	43% <sup>b</sup>	19%	35% <sup>c</sup>
<b>Endoscopic Response at Week 12<sup>a</sup></b>	12%	40% <sup>b</sup>	11%	29% <sup>b</sup>
<b>Enhanced SF/APS Clinical Response at Week 4</b>	31%	46% <sup>c</sup>	32%	45% <sup>d</sup>
<b>Enhanced SF/APS Clinical Response at Week 12</b>	42%	63% <sup>b</sup>	39%	62% <sup>b</sup>
<b>Endoscopic Remission at Week 12</b>	9%	24% <sup>b</sup>	4%	19% <sup>b</sup>

<sup>a</sup> Co-primary endpoints  
<sup>b</sup> Statistically significant under multiplicity control for Skyrizi vs placebo comparison ( $p < 0.001$ )  
<sup>c</sup> Statistically significant under multiplicity control for Skyrizi vs placebo comparison ( $p \leq 0.01$ )  
<sup>d</sup> Nominal  $p \leq 0.01$  Skyrizi vs placebo comparison.

IV = intravenous

At Week 4, a higher proportion of subjects treated with Skyrizi achieved a CDAI < 150 compared to placebo (ADVANCE, Skyrizi = 18%, placebo = 10%,  $p \leq 0.05$ ; MOTIVATE, Skyrizi = 21%, placebo = 11%,  $p \leq 0.01$ ).

At Week 12, a higher proportion of subjects treated with Skyrizi achieved a CDAI < 150 compared to placebo (ADVANCE, Skyrizi = 45%, placebo = 25%,  $p < 0.001$ ; MOTIVATE, Skyrizi = 42%, placebo = 20%,  $p < 0.001$ ).

At Week 12, a higher proportion of subjects treated with Skyrizi achieved a decrease of at least 100 points in baseline CDAI compared to placebo (ADVANCE, Skyrizi = 60%, placebo = 37%,  $p < 0.001$ ; MOTIVATE, Skyrizi = 60%, placebo = 30%,  $p < 0.001$ ).

At Week 12, a higher proportion of subjects treated with Skyrizi achieved mucosal healing compared to placebo (ADVANCE, Skyrizi = 21% (N=336), placebo = 8% (N=173),  $p < 0.001$ ; MOTIVATE, Skyrizi = 14% (N=190), placebo = 4% (N=186),  $p = 0.001$ ).

At Week 12, a higher proportion of subjects treated with Skyrizi achieved both enhanced SF/APS clinical response and endoscopic response at Week 12 compared to placebo (ADVANCE, Skyrizi = 31%, placebo = 8%,  $p < 0.001$ ; MOTIVATE, Skyrizi = 21%, placebo = 7%,  $p < 0.001$ ).

#### *CD-related hospitalisations*

Rates of CD-related hospitalisations through Week 12 were lower in subjects treated with Skyrizi compared to placebo (ADVANCE, Skyrizi = 3%, placebo = 12%,  $p < 0.001$ ; MOTIVATE, Skyrizi = 3%, placebo = 11%,  $p \leq 0.01$ ).

In ADVANCE, subjects treated with Skyrizi who had prior biologic failure and subjects without prior biologic failure achieved clinical remission and endoscopic response at higher rates than subjects who received placebo (Table 9).

**Table 9. Efficacy Results at Week 12 in subjects with prior biologic failure and subjects without prior biologic failure in ADVANCE**

	ADVANCE	
	Placebo IV	Skyrizi 600 mg
<b>Clinical Remission</b>		
Prior biologic failure	23% (N=97)	41% (N=195)
Without prior biologic failure	21% (N=78)	48% (N=141)
<b>Endoscopic Response</b>		
Prior biologic failure	11% (N=97)	33% (N=195)
Without prior biologic failure	13% (N=78)	50% (N=141)

IV = intravenous

In ADVANCE, a higher proportion of subjects treated with Skyrizi with and without prior biologic failure achieved CDAI < 150 compared to placebo (With prior biologic failure, Skyrizi = 42%, placebo = 26%; Without prior biologic failure, Skyrizi = 49%, placebo = 23%).

### **FORTIFY**

The maintenance study FORTIFY evaluated 462 subjects with SF/APS clinical response to 12 weeks of Skyrizi intravenous induction treatment in studies ADVANCE and MOTIVATE. Subjects were randomised to continue to receive a maintenance regimen of Skyrizi 360 mg subcutaneous (recommended dose), or Skyrizi 180 mg subcutaneous every 8 weeks, or to withdraw from Skyrizi induction and receive placebo subcutaneous every 8 weeks for up to 52 weeks.

The co-primary endpoints were clinical remission at Week 52 and, endoscopic response at Week 52. Co-primary endpoints were also measured in subjects with and without prior biologic failure (Table 10).

Secondary endpoints measured at Week 52 included enhanced SF/APS clinical response, maintenance of clinical remission (clinical remission at Week 52 in subjects with clinical remission at Week 0), mucosal healing, endoscopic remission, deep remission (clinical remission and endoscopic remission), and CDAI < 150.

**Table 10. Efficacy Results in FORTIFY at Week 52 (64 weeks from initiation of Skyrizi induction dose)**

	FORTIFY	
	Skyrizi IV Induction/ Placebo SC <sup>g</sup> (N=164) %	Skyrizi IV Induction/ Skyrizi 360 mg SC (N=141) %
<b>Clinical Remission<sup>a</sup></b>	40%	52% <sup>b</sup>
Prior biologic failure	34% (N=123)	48% (N=102)
Without prior biologic failure	56% (N=41)	62% (N=39)
<b>Endoscopic Response<sup>a</sup></b>	22%	47% <sup>c</sup>
Prior biologic failure	20% (N=123)	44% (N=102)
Without biologic failure	27% (N=41)	54% (N=39)
<b>Enhanced SF/APS Clinical Response</b>	49%	59% <sup>f</sup>
<b>Maintenance of Clinical Remission</b>	51% (N = 91)	69% (N = 72) <sup>e</sup>
<b>Endoscopic Remission</b>	13%	39% <sup>d</sup>
<b>Mucosal Healing</b>	10% (N=162)	31% (N=141) <sup>d</sup>

<sup>a</sup> Co-primary endpoints  
<sup>b</sup> Statistically significant under multiplicity control for Skyrizi vs placebo comparison ( $p \leq 0.01$ ).  
<sup>c</sup> Statistically significant under multiplicity control for Skyrizi vs placebo comparison ( $p < 0.001$ ).  
<sup>d</sup> Nominal  $p < 0.001$  Skyrizi vs placebo comparison.  
<sup>e</sup> Nominal  $p \leq 0.01$  Skyrizi vs placebo comparison.  
<sup>f</sup> Nominal  $p \leq 0.05$  Skyrizi vs placebo comparison.  
<sup>g</sup> The induction-only group consisted of subjects who achieved clinical response to Skyrizi induction therapy and were randomised to receive placebo in the maintenance study (FORTIFY).  
IV = intravenous; SC = subcutaneous

Deep remission at Week 52 was observed at higher rates in subjects treated with Skyrizi intravenous/Skyrizi subcutaneous compared to subjects who received Skyrizi intravenous/placebo subcutaneous (28% vs. 10%, respectively,  $p < 0.001$ ).

At Week 52, a higher proportion of subjects treated with Skyrizi intravenous/Skyrizi subcutaneous achieved CDAI  $< 150$  compared to Skyrizi intravenous/placebo subcutaneous (52% vs. 41%, respectively,  $p \leq 0.01$ ). A higher proportion of subjects treated with Skyrizi intravenous/Skyrizi subcutaneous achieved a decrease of at least 100 points in baseline CDAI score compared to subjects treated with Skyrizi intravenous/placebo subcutaneous (62% vs. 48%, respectively,  $p \leq 0.01$ ).

91 subjects who did not demonstrate SF/APS clinical response 12 weeks after Skyrizi induction in studies ADVANCE and MOTIVATE received subcutaneous 360 mg dose of Skyrizi at Week 12 and Week 20. Of these subjects, 64% (58/91) achieved SF/APS clinical response at Week 24; 33 of the subjects achieving SF/APS clinical response enrolled in FORTIFY and continued receiving Skyrizi 360 mg subcutaneous every 8 weeks for up to 52 weeks. Among these subjects, 55% (18/33) achieved clinical remission and 45% (15/33) achieved endoscopic response at Week 52.

During FORTIFY, 30 subjects had loss of response to Skyrizi 360 mg subcutaneous treatment and received rescue treatment with Skyrizi (1200 mg intravenous single

dose, followed by 360 mg subcutaneous every 8 weeks). Of these subjects, 57% (17/30) achieved SF/APS clinical response at Week 52. In addition, 20% (6/30) and 34% (10/29) of subjects achieved clinical remission and endoscopic response at Week 52, respectively.

#### *Health-related and quality of life outcomes*

Health-related quality of life was assessed by the Inflammatory Bowel Disease Questionnaire (IBDQ), 36-Item Short Form Health Survey (SF-36), and the European Quality of Life 5 Dimensions (EQ-5D). Improvement in fatigue was evaluated by the Functional Assessment of Chronic Illness Therapy-Fatigue (FACIT-Fatigue) scale.

At Week 12 of ADVANCE and MOTIVATE, subjects treated with Skyrizi achieved clinically meaningful improvements from baseline in IBDQ total score, all IBDQ domain scores (bowel symptoms, systemic function, emotional function, and social function), SF-36 Physical and Mental Component Summary Score, EQ-5D VAS, and FACIT-Fatigue compared to placebo.

Subjects treated with Skyrizi experienced more improvements in work productivity compared to placebo, as assessed by the WPAI-CD questionnaire at Week 12. Specifically, greater reductions in impairment while working, overall work impairment, and activity impairment was demonstrated in MOTIVATE; and greater reduction in activity impairment was demonstrated in ADVANCE.

Compared to placebo, subjects treated with Skyrizi achieved clinically meaningful improvements from baseline in Crohn's-related symptoms and sleep impact as assessed by Crohn's Symptom Severity (CSS) questionnaire at Week 12. These improvements were maintained in subjects treated with Skyrizi intravenous/Skyrizi subcutaneous in FORTIFY through Week 52.

#### Ulcerative Colitis

Skyrizi has been shown to improve signs and symptoms and health related quality of life, as well as decreased mucosal inflammation as measured by endoscopy.

The efficacy and safety of Skyrizi was assessed in subjects with moderately to severely active ulcerative colitis in two multicentre, randomised, double-blind, placebo-controlled clinical studies. Enrolled subjects were  $\geq 18$  and  $\leq 80$  years of age with modified Mayo Score (mMS) of 5 to 9 (using the Mayo scoring system, excluding Physician's Global Assessment) with an endoscopic subscore (ES) of 2 or 3 on screening endoscopy, confirmed by central review.

The 12-week intravenous induction study (INSPIRE) included a 12-week extension period for subjects who did not achieve clinical response [defined as a decrease from

baseline in the mMS  $\geq 2$  points and  $\geq 30\%$  from baseline, and a decrease in rectal bleeding subscore (RBS)  $\geq 1$  or an absolute RBS  $\leq 1$ ] at Week 12. INSPIRE was followed by a 52-week randomised withdrawal study of subcutaneous maintenance treatment (COMMAND) that enrolled subjects with clinical response to 12 weeks of Skyrizi intravenous induction treatment, representing at least 64 weeks of therapy.

## **INSPIRE**

In study INSPIRE, 975 subjects were randomised and received either Skyrizi 1200 mg or placebo, at Week 0, Week 4, and Week 8.

In INSPIRE, 52% (503/975) of subjects had failed (inadequate response or intolerance) one or more advanced therapies. Of these 503 subjects, 488 (97%) failed biologics and 90 (18%) failed JAK inhibitors.

Enrolled subjects were permitted to use a stable dose of oral corticosteroids (up to 20 mg/day prednisone or equivalent), immunomodulators, and aminosalicylates. At baseline in INSPIRE, 36% of subjects received corticosteroids, 17% of subjects received immunomodulators and 73% of subjects received aminosalicylates. Patient disease activity was moderate (mMS  $\leq 7$ ) in 58% of subjects and severe (mMS  $> 7$ ) in 42% of subjects.

In INSPIRE, a significantly greater proportion of subjects treated with Skyrizi achieved the primary endpoint of clinical remission per mMS [defined as stool frequency subscore (SFS)  $\leq 1$ , and not greater than baseline, RBS = 0, and ES  $\leq 1$  without evidence of friability] at Week 12 compared to placebo (Table 11). Results of the primary endpoint and key secondary endpoints are listed in Table 11.

**Table 11. Efficacy Results in INSPIRE at Week 12**

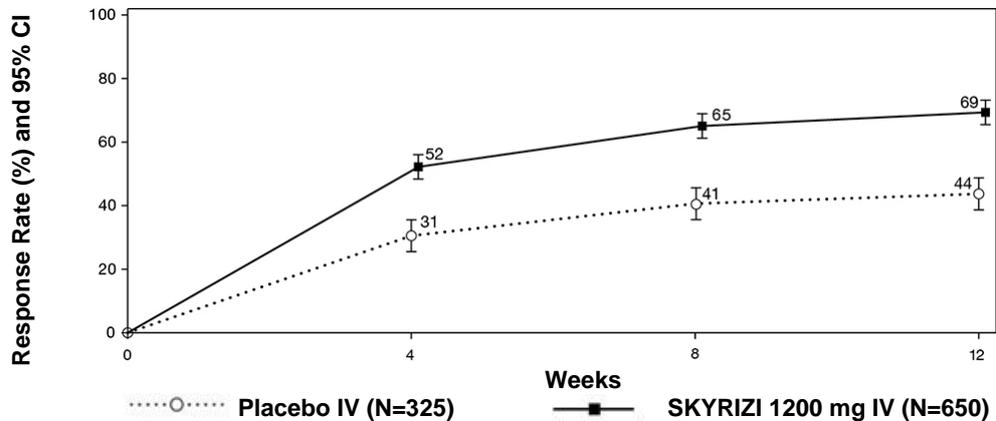
Endpoint	Placebo IV (N=325) %	Skyrizi 1200 mg IV (N=650) %	Treatment difference (95% CI)
<b>Disease Activity and UC Symptoms</b>			
<b>Clinical remission<sup>ab</sup></b>	6%	20%	14% <sup>f</sup> [10%, 18%]
With advanced therapy failure	4% (N=170)	11% (N=333)	7% [3%, 12%]
Without advanced therapy failure	8% (N=155)	30% (N=317)	21% [15%, 28%]
<b>Clinical response<sup>c</sup></b>	36%	64%	29% <sup>f</sup> [22%, 35%]
With advanced therapy failure	31% (N=170)	55% (N=333)	24% [15%, 33%]
Without advanced therapy failure	41% (N=155)	74% (N=317)	33%

			[24%, 42%]
<b>Endoscopic and Histologic Assessment</b>			
<b>Endoscopic improvement<sup>d</sup></b>	12%	37%	24% <sup>f</sup> [19%, 29%]
With advanced therapy failure	10% (N=170)	26% (N=333)	16% [9%, 22%]
Without advanced therapy failure	14% (N=155)	48% (N=317)	33% [26%, 41%]
<b>Histologic Endoscopic Mucosal Improvement (HEMI)<sup>e</sup></b>	8%	24%	17% <sup>f</sup> [12%, 21%]
With advanced therapy failure	7% (N=170)	16% (N=333)	9% [3%, 14%]
Without advanced therapy failure	8% (N=155)	33% (N=317)	25% [18%, 32%]
<sup>a</sup> Primary endpoint <sup>b</sup> Clinical remission per mMS: SFS ≤ 1, and not greater than baseline, RBS = 0, and ES ≤ 1 without evidence of friability <sup>c</sup> Clinical response per mMS: decrease from Baseline ≥ 2 points and ≥ 30%, and a decrease in RBS ≥ 1 or an absolute RBS ≤ 1 <sup>d</sup> ES ≤ 1 without the evidence of friability <sup>e</sup> ES ≤ 1 without the evidence of friability and Geboes score ≤ 3.1 (indicating neutrophil infiltration in <5% of crypts, no crypt destruction and no erosions, ulcerations or granulation tissue) <sup>f</sup> p < 0.00001, adjusted treatment difference (95% CI)			

### *Clinical disease activity and symptoms*

The partial adapted Mayo score (paMS) is composed of SFS and RBS. Clinical response per paMS is defined as a decrease of ≥1 point and ≥30% from baseline and a decrease in RBS ≥1 or an absolute RBS ≤1. The results of clinical response per paMS over time in INSPIRE are shown in Figure 6. Onset of efficacy was rapid with a greater proportion of subjects treated with Skyrizi achieving clinical response as early as Week 4 compared to placebo (52% vs 31%, respectively, p < 0.00001).

**Figure 6. Proportion of subjects achieving clinical response per paMS overtime in study, INSPIRE**



A significantly greater proportion of subjects treated with Skyrizi compared to placebo had no abdominal pain (36% vs 26%, respectively,  $p < 0.01$ ) and no bowel urgency (44% vs 28%, respectively,  $p < 0.00001$ ) at week 12.

#### *Other ulcerative colitis symptoms*

Number of faecal incontinence episodes per week was reduced by a significantly greater amount in subjects treated with Skyrizi compared to placebo at Week 12 (change from baseline in Skyrizi = -3.8, placebo = -2.2,  $p = 0.00003$ ).

The proportion of subjects who had no nocturnal bowel movements was significantly greater in subjects treated with Skyrizi compared to placebo at Week 12 (67% vs 43%, respectively,  $p < 0.00001$ ).

The proportion of subjects who had no tenesmus was significantly greater in subjects treated with Skyrizi compared to placebo at Week 12 (49% vs 30%, respectively,  $p < 0.00001$ ).

Number of days with sleep interruption due to ulcerative colitis symptoms per week were reduced by a significantly greater amount in subjects treated with Skyrizi compared to placebo at Week 12 (change from baseline in Skyrizi = -2.5, placebo = -1.5,  $p < 0.00001$ ).

#### *Ulcerative colitis-related hospitalisations*

Rates of ulcerative colitis-related hospitalisations through Week 12 were significantly lower in subjects treated with Skyrizi compared to placebo (1% vs 6%, respectively,  $p < 0.00001$ ).

### Extended treatment in Week 12 non-responders

A total of 141 subjects who did not demonstrate clinical response at Week 12 of Skyrizi induction in INSPIRE received either subcutaneous 180 mg or 360 mg dose of Skyrizi at Week 12 and Week 20. Of the 71 subjects who received Skyrizi 180 mg subcutaneous and 70 subjects who received Skyrizi 360 mg subcutaneous, 56% and 57% achieved clinical response at Week 24, respectively.

### COMMAND

The maintenance study COMMAND evaluated 548 subjects with clinical response after 12 weeks of Skyrizi intravenous induction treatment in study INSPIRE. Subjects were randomised to receive a maintenance regimen of Skyrizi 180 mg subcutaneous or 360 mg subcutaneous every 8 weeks, or to withdraw from Skyrizi induction and receive placebo subcutaneous every 8 weeks for up to 52 weeks.

In COMMAND, 75% (411/548) of subjects had failed (inadequate response or intolerance) one or more advanced therapies prior to induction baseline. Of these 411 subjects, 407 (99%) failed biologics and 78 (19%) failed JAK inhibitors.

In COMMAND, a significantly greater proportion of the above 548 subjects treated with Skyrizi 180 mg subcutaneous or Skyrizi 360 mg subcutaneous achieved the primary endpoint of clinical remission per mMS at Week 52 compared to placebo (see Table 12). Results of the primary endpoint and key secondary endpoints are listed in Table 12.

**Table 12. Efficacy results in COMMAND at Week 52 (64 weeks from initiation of Skyrizi induction dose)**

Endpoint	Skyrizi IV Induction/ Placebo SC <sup>+</sup> (N=183) %	Skyrizi IV Induction/ Skyrizi 180 mg SC (N=179) %	Skyrizi IV Induction/ Skyrizi 360 mg SC (N=186) %	Treatment difference (95% CI)**	
				Skyrizi IV Induction/ Skyrizi 180 mg SC	Skyrizi IV Induction/ Skyrizi 360 mg SC
<b>Disease Activity and ulcerative colitis symptoms</b>					
<b>Clinical remission<sup>ab</sup></b>	25%	40%	38%	16% <sup>h</sup> [7%, 25%]	14% <sup>h</sup> [5%, 23%]
With advanced therapy failure	23% (N=138)	37% (N=134)	29% (N=139)	13% [3%, 24%]	6% [-4%, 17%]
Without advanced therapy failure	31% (N=45)	51% (N=45)	62% (N=47)	20% [-0%, 40%]	31% [11%, 50%]
<b>Maintenance of clinical remission<sup>c</sup></b>	40% (N=53)	70% (N=44)	50% (N=40)	29% <sup>h</sup> [10%, 48%]	13% <sup>j</sup> [-8%, 33%]
With advanced therapy failure	37% (N=35)	65% (N=26)	44% (N=25)	28% [4%, 53%]	7% [-18%, 32%]

Without advanced therapy failure	44% (N=18)	77% (N=18)	60% (N=15)	33% [3%, 63%]	16% [-18%, 49%]
<b>Corticosteroid-free clinical remission<sup>d</sup></b>	25%	40%	37%	16% <sup>h</sup> [7%, 25%]	14% <sup>h</sup> [5%, 23%]
With advanced therapy failure	23% (N=138)	36% (N=134)	29% (N=139)	13% [2%, 23%]	6% [-4%, 17%]
Without advanced therapy failure	31% (N=45)	51% (N=45)	60% (N=47)	20% [-0%, 40%]	28% [9%, 48%]
<b>Clinical response<sup>e</sup></b>	52%	68%	62%	17% <sup>i</sup> [8%, 27%]	11% <sup>k</sup> [2%, 21%]
With advanced therapy failure	46% (N=138)	63% (N=134)	57% (N=139)	18% [6%, 29%]	11% [-1%, 23%]
Without advanced therapy failure	71% (N=45)	82% (N=45)	79% (N=47)	11% [-6%, 28%]	8% [-10%, 25%]
<b>Endoscopic and Histologic Assessment</b>					
<b>Endoscopic improvement<sup>f</sup></b>	32%	51%	48%	20% <sup>h</sup> [11%, 30%]	17% <sup>h</sup> [8%, 27%]
With advanced therapy failure	30% (N=138)	48% (N=134)	39% (N=139)	17% [6%, 29%]	8% [-3%, 20%]
Without advanced therapy failure	36% (N=45)	60% (N=45)	76% (N=47)	24% [4%, 44%]	41% [22%, 59%]
<b>Histologic Endoscopic Mucosal Improvement (HEMI)<sup>g</sup></b>	23%	43%	42%	20% <sup>h</sup> [11%, 29%]	20% <sup>h</sup> [11%, 29%]
With advanced therapy failure	22% (N=138)	39% (N=134)	33% (N=139)	17% [6%, 28%]	11% [1%, 22%]
Without advanced therapy failure	29% (N=45)	55% (N=45)	69% (N=47)	26% [6%, 46%]	40% [22%, 59%]
<p><sup>+</sup> The induction-only group consisted of subjects who achieved clinical response to Skyrizi induction therapy and were randomised to receive placebo in the maintenance study (COMMAND).</p> <p><sup>++</sup> Adjusted difference for the overall treatment difference.</p> <p><sup>a</sup> Primary endpoint</p> <p><sup>b</sup> Clinical remission per mMS: SFS ≤ 1, and not greater than baseline, RBS = 0, and ES ≤ 1 without evidence of friability</p> <p><sup>c</sup> Clinical remission per mMS at Week 52 among subjects who achieved clinical remission at the end of induction treatment</p> <p><sup>d</sup> Clinical remission per mMS at Week 52 and corticosteroid-free for ≥90 days</p> <p><sup>e</sup> Clinical response per mMS: decrease from Baseline ≥ 2 points and ≥ 30%, and a decrease in RBS ≥ 1 or an absolute RBS ≤ 1</p> <p><sup>f</sup> ES of ≤ 1 without the evidence of friability</p> <p><sup>g</sup> ES ≤ 1 without the evidence of friability and Geboes score ≤ 3.1 (indicating neutrophil infiltration in &lt;5% of crypts, no crypt destruction and no erosions, ulcerations or granulation tissue)</p> <p><sup>h</sup> Statistically significant under multiplicity control for Skyrizi vs placebo comparison (p ≤ 0.01).</p> <p><sup>i</sup> Nominal p ≤ 0.01 Skyrizi vs placebo comparison</p> <p><sup>j</sup> p = 0.2234</p> <p><sup>k</sup> Nominal p ≤ 0.05 Skyrizi vs placebo comparison</p>					

### *Clinical disease activity and symptoms*

A significantly greater proportion of subjects treated with Skyrizi intravenous /Skyrizi 180 mg subcutaneous compared to Skyrizi intravenous/placebo had no abdominal pain (47% vs 30%, respectively,  $p < 0.001$ ) and no bowel urgency (54% vs 31%, respectively,  $p < 0.00001$ ) at week 52. A greater proportion of subjects treated with Skyrizi intravenous/Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo had no bowel urgency (49% vs 31%,  $p < 0.001$ ) at Week 52, and a numerically higher proportion of subjects had no abdominal pain compared to Skyrizi intravenous/placebo (38% vs 30%, respectively,  $p = 0.0895$ ) at Week 52.

### *Other ulcerative colitis symptoms*

The proportion of subjects who had no nocturnal bowel movements was greater in subjects treated with Skyrizi intravenous/Skyrizi 180 mg subcutaneous and Skyrizi intravenous/Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo at Week 52 (42% and 43% vs 30%,  $p < 0.01$  and  $p < 0.001$ , respectively).

The proportion of subjects who had no tenesmus was greater in subjects treated Skyrizi intravenous/ Skyrizi 180 mg subcutaneous and Skyrizi intravenous / Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo at Week 52 (37% and 37% vs 23%, respectively,  $p < 0.01$ ).

### *Ulcerative colitis-related hospitalisations*

Occurrence of ulcerative colitis-related hospitalisations through Week 52 were numerically lower in subjects treated with Skyrizi intravenous/ Skyrizi 180 mg subcutaneous and Skyrizi intravenous/ Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous /placebo (0.6 per 100 subject years and 1.2 per 100 subject years vs 3.1 per 100 subject years,  $p = 0.0949$  and  $p = 0.2531$ , respectively).

### *Endoscopic and histologic assessment*

Endoscopic remission (normalisation of the endoscopic appearance of the mucosa) was defined as ES of 0. At Week 12 of INSPIRE, a significantly greater proportion of subjects treated with Skyrizi compared to placebo achieved endoscopic remission (11% vs 3%, respectively,  $p < 0.00001$ ). At Week 52 of COMMAND, a significantly greater proportion of subjects treated with Skyrizi intravenous/ Skyrizi 180 mg subcutaneous and Skyrizi intravenous/ Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo achieved endoscopic remission (23% and 24% vs 15%, respectively,  $p < 0.05$ ).

Mucosal healing was defined as ES of 0 and Geboes score  $< 2.0$  (indicating no neutrophil in crypts or lamina propria and no increase in eosinophil, no crypt destruction, and no erosions, ulcerations or granulation tissue). At Week 12 of

INSPIRE, a significantly greater proportion of subjects treated with Skyrizi compared to placebo achieved mucosal healing (6% vs 1%, respectively,  $p < 0.00001$ ). At Week 52 of COMMAND, a numerically higher proportion of subjects treated Skyrizi intravenous/ Skyrizi 180 mg subcutaneous and Skyrizi intravenous / Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo achieved mucosal healing (13% and 16% vs 10%,  $p = 0.2062$  and  $p = 0.0618$ , respectively).

In COMMAND, maintenance of endoscopic improvement at Week 52 (ES  $\leq 1$  without friability) was seen in a greater proportion of subjects treated with Skyrizi intravenous/ Skyrizi 180mg subcutaneous and numerically higher proportion of subjects treated with Skyrizi intravenous/ Skyrizi 360 mg subcutaneous compared to Skyrizi intravenous/placebo among subjects who achieved endoscopic improvement at the end of induction (74% and 54% vs 47%,  $p < 0.01$  and  $p = 0.5629$ , respectively).

#### *Rescue treatment*

During COMMAND, subjects who had loss of response to Skyrizi subcutaneous treatment received rescue treatment with Skyrizi (a single intravenous induction dose, followed by 360 mg subcutaneous every 8 weeks). Among these subjects, in the Skyrizi 180 mg subcutaneous and Skyrizi 360 mg subcutaneous treatment group, 85% (17/20) and 74% (26/35) achieved clinical response at Week 52, respectively. In addition, 24% (6/25) and 35% (13/37) of subjects achieved clinical remission per mMS, and 38% (10/26) and 45% (17/38) of subjects achieved endoscopic improvement at Week 52 in the Skyrizi 180 mg subcutaneous and Skyrizi 360 mg subcutaneous treatment group, respectively.

#### *Week 24 responders*

A total of 100 subjects did not demonstrate clinical response after 12 weeks of induction treatment, received either subcutaneous 180 mg (N=56) or 360 mg (N=44) dose of Skyrizi at Week 12 and Week 20, demonstrated clinical response at Week 24, and continued receiving Skyrizi 180 mg or 360 mg subcutaneous every 8 weeks for up to 52 weeks in COMMAND. Among these subjects, 46% and 45% achieved clinical response per mMS at Week 52, and 18% and 23% achieved clinical remission per mMS at Week 52, for Skyrizi 180 mg and 360 mg subcutaneous respectively.

#### *Health-related and quality of life outcomes*

Subjects treated with Skyrizi achieved clinically meaningful improvements from baseline in the Inflammatory Bowel Disease Questionnaire (IBDQ) (bowel symptoms, systemic function, emotional function, and social function) compared to placebo. Changes from baseline in IBDQ total score at Week 12 with Skyrizi compared to placebo were 42.6 and 24.3, respectively. Changes from baseline in IBDQ total score

at Week 52 were 52.6, 50.3 and 35.0 in subjects treated with Skyrizi intravenous/ Skyrizi 180 mg subcutaneous, Skyrizi intravenous/ Skyrizi 360 mg subcutaneous and Skyrizi intravenous/placebo, respectively.

Subjects receiving Skyrizi experienced significantly greater improvement from baseline in fatigue, as measured by FACIT-F score at Week 12 compared to placebo. Changes from baseline in FACIT-F score at Week 12 with Skyrizi compared to placebo were 7.9 and 3.3, respectively. Changes from baseline in FACIT-F score at Week 52 were 10.9, 10.3 and 7.0 in subjects treated with Skyrizi intravenous/ Skyrizi 180 mg subcutaneous, Skyrizi intravenous/ Skyrizi 360 mg subcutaneous and Skyrizi intravenous/placebo, respectively.

At week 12 of INSPIRE, subjects treated with Skyrizi achieved greater improvements from baseline in WPAI-UC and SF-36 Physical and Mental Component Summary Score compared to placebo. For WPAI-UC greater reductions in impairment while working, overall work impairment, and activity impairment were observed in INSPIRE. These improvements were maintained in subjects treated with Skyrizi intravenous/ Skyrizi subcutaneous in COMMAND through week 52.

## **5.2 Pharmacokinetic Properties**

The pharmacokinetics of risankizumab was similar between subjects with plaque psoriasis and psoriatic arthritis, and between subjects with Crohn's disease and ulcerative colitis.

### **Absorption**

Risankizumab exhibited linear pharmacokinetics with dose-proportional increase in exposure across dose ranges of 18 to 360 mg and 0.25 to 1 mg/kg administered subcutaneously, and 200 to 1800 mg and 0.01 to 5 mg/kg administered intravenously.

Following subcutaneous dosing of risankizumab, peak plasma concentrations were achieved between 3 - 14 days after dosing with an estimated absolute bioavailability of 74% - 89%. With the dosing regimen in subjects with psoriasis (150 mg at Week 0, Week 4, and every 12 weeks thereafter), estimated steady-state peak and trough plasma concentrations are 12 and 2 microgram/mL, respectively.

In subjects with Crohn's disease treated with 600 mg intravenous induction dose at Weeks 0, 4, and 8 followed by 360 mg subcutaneous maintenance dose at Week 12 and every 8 weeks thereafter, maximum median peak and trough concentrations are estimated to be 156 and 38.8 microgram/mL respectively during the induction period (Weeks 8-12) and steady state median peak and trough concentrations are estimated

to be 28.0 and 8.13 microgram/mL respectively during the maintenance period (Weeks 40-48).

In subjects with ulcerative colitis treated with 1200 mg intravenous induction dose at Weeks 0, 4, and 8 followed by 180 mg or 360 mg subcutaneous maintenance dose at Week 12 and every 8 weeks thereafter, maximum median peak and trough concentrations are estimated to be 350 and 87.7 microgram/mL respectively during the induction period (Weeks 8-12) and steady state median peak and trough concentrations are estimated to be 19.6 and 4.64 microgram/mL for 180 mg subcutaneous dose and 39.2 and 9.29 microgram/mL for 360 mg subcutaneous dose respectively during the maintenance period (Weeks 40-48).

Bioequivalence was demonstrated between a single risankizumab 150 mg/mL injection and two risankizumab 75 mg/0.83 mL injections in pre-filled syringes. Bioequivalence was also demonstrated between risankizumab 150mg/mL pre-filled syringe and pre-filled pen.

### **Distribution**

In a typical 90 kg subject with psoriasis, the steady-state volume of distribution ( $V_{ss}$ ) was 11.2L, indicating that the distribution of risankizumab is primarily confined to the vascular and interstitial spaces.

In a typical 70 kg subject with Crohn's disease,  $V_{ss}$  was 7.68 L.

### **Metabolism**

Therapeutic IgG monoclonal antibodies are typically degraded into small peptides and amino acids via catabolic pathways in the same manner as endogenous IgGs. Risankizumab is not expected to be metabolised by cytochrome P450 enzymes.

### **Excretion**

The systemic clearance (CL) of risankizumab was 0.31 L/day and terminal elimination half-life was 28 days for a typical 90 kg subject with psoriasis. For a typical 70 kg subject with Crohn's disease, CL was 0.30 L/day and terminal elimination half-life was 21 days.

As an IgG1 monoclonal antibody, risankizumab is not expected to be filtered by glomerular filtration in the kidneys or to be excreted as an intact molecule in the urine.

### **Drug Interactions**

Drug interaction studies were conducted in subjects with plaque psoriasis, Crohn's disease or ulcerative colitis to assess the effect of repeated administration of

risankizumab on the pharmacokinetics of cytochrome P450 (CYP) sensitive probe substrates. The exposure of caffeine (CYP1A2 substrate), warfarin (CYP2C9 substrate), omeprazole (CYP2C19 substrate), metoprolol (CYP2D6 substrate) and midazolam (CYP3A substrate) following risankizumab treatment were comparable to their exposures prior to risankizumab treatment, indicating no clinically meaningful drug interactions through these enzymes.

Population pharmacokinetic analyses indicated that risankizumab exposure was not impacted by concomitant medications (such as metformin, atorvastatin, lisinopril, amlodipine, ibuprofen, acetylsalicylate and levothyroxine) used by some subjects with plaque psoriasis during the clinical studies. Similar lack of impact was observed for concomitant use of methotrexate in psoriatic arthritis, concomitant use of corticosteroids in Crohn's disease and with concomitant medications (amino salicylates, immunomodulators and ulcerative colitis-related antibiotics) used by some patients with ulcerative colitis based on population pharmacokinetic analyses (see **4.4 Interactions with other medicines and other forms of interactions**).

### **Paediatrics**

The pharmacokinetics of risankizumab in paediatric subjects under 16 years of age has not been established. Risankizumab exposures in 16- to 17-year-old subjects with Crohn's disease were similar to those in adults. Age was not found to have any significant impact on risankizumab exposure based on the population pharmacokinetic analyses.

### **Use in the Elderly**

Of the 2234 subjects with plaque psoriasis exposed to Skyrizi, 243 were 65 years or older and 24 subjects were 75 years or older. Of the 1574 subjects with Crohn's disease exposed to Skyrizi, 72 were 65 years or older. Of the 1512 subjects with ulcerative colitis exposed to Skyrizi, 103 were 65 years or older. No overall differences in risankizumab exposure, safety and effectiveness were observed between older and younger subjects who received Skyrizi (see **4.4 Special warnings and precautions for use - Use in the Elderly**).

### **Renal or Hepatic Impairment**

No specific studies have been conducted to determine the effect of renal or hepatic impairment on the pharmacokinetics of risankizumab. Based on population pharmacokinetic analyses, serum creatinine levels, creatinine clearance, or hepatic function markers (ALT/AST/bilirubin) did not have a meaningful impact on

risankizumab clearance in subjects with psoriasis, psoriatic arthritis, Crohn's disease, or ulcerative colitis.

As an IgG1 monoclonal antibody, risankizumab is mainly eliminated via intracellular catabolism and is not expected to undergo metabolism via hepatic cytochrome P450 enzymes or renal elimination (see **4.4 Special warnings and precautions for use - Use in hepatic impairment, use in renal impairment**).

### **Body Weight**

Risankizumab clearance and volume of distribution increase as body weight increases. However, clinically meaningful changes in efficacy and safety of risankizumab were not observed with increased body weight, therefore no dose adjustment is necessary based on body weight.

### **Gender or Race**

The clearance of risankizumab was not significantly influenced by gender or race in adult subjects with plaque psoriasis, psoriatic arthritis, Crohn's disease or ulcerative colitis. No clinically meaningful differences in risankizumab exposure were observed in Chinese or Japanese subjects compared to Caucasian subjects in clinical pharmacokinetic studies in healthy volunteers.

### **5.3 Preclinical Safety Data**

Non-clinical data revealed no special hazard for humans based on repeat-dose toxicity studies including safety pharmacology evaluations and an enhanced pre- and post-natal developmental toxicity study in cynomolgus monkeys at doses of up to 50 mg/kg/week, producing exposures of  $\geq 70$  times the clinical exposures at the MRHD for psoriasis and psoriatic arthritis (150 mg subcutaneous).

For Crohn's disease, these doses produced exposures 10 times the clinical exposures during indication at a dose of 600 mg intravenous every 4 weeks and 39 times the clinical exposures for maintenance when given subcutaneous every 8 weeks.

For ulcerative colitis, these doses produced exposures 5 times the clinical exposures during induction at a dose of 1200 mg intravenous every 4 weeks and 65 or 32 times the clinical exposures for maintenance when given at 180 mg or 360 mg subcutaneous, respectively, every 8 weeks.

### **Genotoxicity**

No data available.

## **Mutagenicity**

Mutagenicity studies have not been conducted with Skyrizi.

## **Carcinogenicity**

Carcinogenicity studies have not been conducted with Skyrizi. In a 26-week chronic toxicology study in cynomolgus monkeys at doses of up to 50 mg/kg/week (about 70 times the clinical exposure at the MRHD) for psoriasis and psoriatic arthritis, there were no pre-neoplastic or neoplastic lesions observed.

For Crohn's disease, these doses in the 26-week chronic study in cynomolgus monkeys produced exposures 7 times the clinical exposures during induction at a dose of 600 mg intravenous every 4 weeks and 28 times the clinical exposures for maintenance when given 360 mg subcutaneous every 8 weeks.

For ulcerative colitis, these doses in the 26-week chronic study in cynomolgus monkeys produced exposures 3 times the clinical exposures during induction at a dose of 1200 mg intravenous every 4 weeks and 45 or 23 times the clinical exposures for maintenance when given 180 mg or 360 mg subcutaneous, respectively, every 8 weeks.

## **Animal pharmacology and/ or toxicology**

In a 26-week toxicology study with weekly subcutaneous doses of up to 50 mg/kg, no adverse effects were observed in male and female cynomolgus monkeys at exposures of about 70 times higher than the clinical exposure at the MRHD for psoriasis and psoriatic arthritis.

For Crohn's disease, these doses in the 26-week chronic study in monkeys produced exposures 7 times the clinical exposures during induction at a dose of 600 mg intravenous every 4 weeks and 28 times the clinical exposures for maintenance when given 360 mg subcutaneous every 8 weeks.

For ulcerative colitis, these doses in the 26-week chronic study in monkeys produced exposures 3 times the clinical exposures during induction at a dose of 1200 mg intravenous every 4 weeks and 45 or 23 times the clinical exposures for maintenance when given 180 mg or 360 mg subcutaneous, respectively, every 8 weeks.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of Excipients**

Each Skyrizi 75 mg/0.83 mL pre-filled syringe contains sodium succinate hexahydrate, succinic acid, sorbitol, polysorbate 20 and water for injections.

Each Skyrizi 150 mg/mL pre-filled syringe or pre-filled pen contains sodium acetate trihydrate, glacial acetic acid, trehalose dihydrate, polysorbate 20 and water for injections.

Each Skyrizi 180 mg/1.2 mL or 360 mg/2.4 mL prefilled cartridge contains trehalose dihydrate, sodium acetate trihydrate, polysorbate 20, glacial acetic acid, and water for injections.

Each Skyrizi 600 mg/10 mL single-dose vial contains trehalose dihydrate, sodium acetate trihydrate, polysorbate 20, glacial acetic acid, and water for injections.

## **6.2 Incompatibilities**

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

## **6.3 Shelf life**

Skyrizi 75 mg/0.83 mL pre-filled syringe:

24 months

Skyrizi 150 mg/mL pre-filled syringe and pre-filled pen:

24 months

Skyrizi 180 mg/1.2 mL pre-filled cartridge:

24 months

Skyrizi 360 mg/2.4 mL pre-filled cartridge:

24 months

Skyrizi 600 mg/10.0 mL vial:

24 months

### *Storage of Diluted Solution*

The prepared infusion should be used immediately. If not used immediately, the diluted Skyrizi solution can be stored (protected from light) for up to 20 hours between 2°C to 8°C.

Immediately after preparation or removal from refrigeration, the diluted Skyrizi solution can be stored at room temperature (protected from sunlight) for 4 hours (cumulative time from start of dilution to start of infusion).

Infusion time should be limited to 4 hours at room temperature (15 to 30°C).

Exposure to indoor light is acceptable during room temperature storage and administration.

Do not freeze.

#### **6.4 Special Precautions for Storage**

Store at 2°C to 8°C. Refrigerate. Do not freeze. Keep in the outer carton in order to protect from light.

Skyrizi 150 mg/mL pre-filled pen or pre-filled syringe and Skyrizi 180 mg/1.2 mL or 360 mg/2.4 mL pre-filled cartridge with on-body injector may be stored one time out of the refrigerator (up to a maximum of 25°C) for up to 24 hours in the original carton to protect from light.

If unopened and stored below 25°C for less than 24 hours, the Skyrizi 150 mg/mL pen or 150 mg/mL pre-filled syringe or Skyrizi 180 mg/1.2 mL or 360 mg/2.4 mL pre-filled cartridge with on-body injector may be returned to the refrigerator.

For storage conditions after dilution of Skyrizi 600 mg/10.0 mL vial, see **Section 6.3 Shelf Life**.

#### **6.5 Nature and Contents of Container**

Skyrizi is supplied as a sterile solution for subcutaneous injection.

##### Skyrizi 75 mg/0.83 mL pre-filled syringe:

Each pre-filled syringe with needle guard contains 75 mg of risankizumab in 0.83 mL in the following packaging configuration:

- Each carton contains 2 pre-filled syringes and 2 alcohol pads.

##### Skyrizi 150 mg/mL pre-filled syringe:

Each pre-filled syringe with needle guard contains 150 mg of risankizumab in 1.0 mL in the following packaging configuration:

- Each carton contains 1 pre-filled syringe.

##### Skyrizi 150 mg/mL pre-filled pen:

- Each carton contains 1 pre-filled pen

##### Skyrizi 180 mg/1.2 mL pre-filled cartridge:

Skyrizi 180 mg/1.2 mL is supplied as a solution for subcutaneous injection in a pre-filled cartridge with an on-body injector. Each pre-filled cartridge contains 180 mg of risankizumab in 1.2 mL in the following packaging configuration:

- Each carton contains 1 pre-filled cartridge with 1 on-body injector.

##### Skyrizi 360 mg/2.4 mL pre-filled cartridge:

Skyrizi 360 mg/2.4 mL is supplied as a solution for subcutaneous injection in a pre-filled cartridge with an on-body injector. Each pre-filled cartridge contains 360 mg of risankizumab in 2.4 mL in the following packaging configuration:

- Each carton contains 1 pre-filled cartridge with 1 on-body injector

#### Skyrizi 600 mg/10.0 mL vial:

Skyrizi 600 mg/10.0 mL vial is supplied as a concentrate solution for infusion in a single-dose vial. Each vial contains 600 mg of risankizumab in 10.0 mL in the following packaging configuration:

- Each carton contains 1 vial

Not all presentations may be marketed.

### **6.6 Special Precautions for Disposal and Other Handling**

Any unused medicine or waste material should be disposed of in accordance with local requirements.

#### Dilution of Skyrizi 600 mg/10.0 mL vial

Prior to Skyrizi intravenous administration, follow the instructions below to dilute Skyrizi to a final drug concentration of approximately 1.2 mg/mL to 6 mg/mL.

<b>Indication</b>	<b>IV Induction dose</b>	<b>Number of Skyrizi 600 mg/ 10 mL vials</b>	<b>Volume of Skyrizi 600 mg/ 10 mL solution</b>	<b>Total Volume of 5% dextrose or 0.9% saline Injection</b>
Crohn's Disease	600 mg	1	10 mL	100 mL, or 250 mL, or 500 mL
Ulcerative colitis	1200 mg	2	20 mL	250 mL, 500 mL

The solution in the vial and dilutions should not be shaken.

Each vial is for single use only.

### **6.7 Physicochemical Properties**

#### **CAS number**

CAS Registry Number: 1612838-76-2

## **7 MEDICINE SCHEDULE**

Prescription only Medicine

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## 9 DATE OF FIRST APPROVAL

24 September 2020

## 10 DATE OF REVISION

17 January 2025

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### Summary table of changes

Section changed	Summary of new information
4.8 Adverse effects: Psoriasis 5.1 Pharmacodynamic properties; Clinical trials - Psoriasis	Updated to include the final long-term data, from the open-label extension study LIMMITLESS, in adult patients with moderate to severe plaque psoriasis