

# **BIMZELX®**

## **SUMMARY OF RISK MANAGEMENT PLAN**

### **Version 2.0**

<b>Active substance(s) (INN or common name):</b>	Bimekizumab
<b>Product(s) concerned (brand name(s)):</b>	Bimzelx®
<b>Marketing authorization holder:</b>	UCB Pharma-AG
<b>Version number :</b>	2.0 (summary of EU RMP v2.0 , dated 06-May-2024)
<b>Date of final sign off :</b>	15-Jan-2025

The Risk Management Plan (RMP) is a comprehensive document submitted as part of the application dossier for market approval of a medicine. The RMP summary contains information on the medicine's safety profile and explains the measures that are taken in order to further investigate and follow the risks as well as to prevent or minimise them.

The RMP summary of Bimzelx® is a concise document and does not claim to be exhaustive.

As the RMP is an international document, the summary might differ from the "Arzneimittelinformation / Information sur le médicament" approved and published in Switzerland, e.g. by mentioning risks occurring in populations or indications not included in the Swiss authorization.

Please note that the reference document which is valid and relevant for the effective and safe use of Bimzelx® in Switzerland is the "Arzneimittelinformation / Information sur le médicament" (see [www.swissmedic.ch](http://www.swissmedic.ch)) approved and authorized by Swissmedic. UCB-Pharma AG is fully responsible for the accuracy and correctness of the content of the published summary RMP of Bimzelx®.

### **Confidentiality Statement**

#### **Confidential**

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Date: 15 January 2025

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## PART I: THE MEDICINE AND WHAT IT IS USED FOR

<b>Pharmaceutical form(s) and strength(s)</b>	Current: Solution for injection in pre-filled syringe. Each pre-filled syringe contains 160mg bimekizumab in 1mL. Solution for injection in a pre-filled pen. Each pre-filled pen contains 160mg bimekizumab in 1mL.
	Proposed: Not Applicable
<b>Is/will the product be subject to additional monitoring in the EU?</b>	Yes
<b>Is/will the product be subject to additional monitoring in Switzerland ?</b>	Yes

Bimzelx is authorised for:

Plaque psoriasis: Bimzelx is indicated for the treatment of adults with moderate to severe plaque psoriasis (PSO) who are candidates for systemic therapy (see SmPC for the full indication).

Psoriatic arthritis: Bimzelx, alone or in combination with methotrexate, is indicated for the treatment of active psoriatic arthritis (PsA) in adults who have had an inadequate response or who have been intolerant to one or more disease-modifying antirheumatic drugs (DMARDs) (see SmPC for the full indication).

Axial spondyloarthritis:

- Non-radiographic axial spondyloarthritis (nr-axSpA): Bimzelx is indicated for the treatment of adults with active non-radiographic axial spondyloarthritis with objective signs of inflammation as indicated by elevated C-reactive protein (CRP) and/or magnetic resonance imaging (MRI) who have responded inadequately or are intolerant to non-steroidal anti-inflammatory drugs (NSAIDs).
- Ankylosing spondylitis (AS, radiographic axial spondyloarthritis): Bimzelx is indicated for the treatment of adults with active ankylosing spondylitis who have responded inadequately or are intolerant to conventional therapy (see SmPC for the full indication).

It contains bimekizumab as the active substance and it is given by subcutaneous injection.

Further information about the evaluation of Bimzelx's benefits can be found in Bimzelx's EPAR, including in its plain-language summary, available on the EMA website, under the medicine's webpage: <https://www.ema.europa.eu/en/medicines/human/EPAR/bimzelx>.

## PART II: RISKS ASSOCIATED WITH THE MEDICINE AND ACTIVITIES TO MINIMIZE OR FURTHER CHARACTERISE THE RISKS

Important risks of Bimzelx, together with measures to minimize such risks and the proposed studies for learning more about Bimzelx's risks, are outlined below.

Measures to minimize the risks identified for medicinal products can be:

- Specific information, such as warnings, precautions, and advice on correct use, in the package leaflet and SmPC addressed to patients and healthcare professionals;
- Important advice on the medicine's packaging;
- The authorised pack size — the amount of medicine in a pack is chosen so to ensure that the medicine is used correctly;
- The medicine's legal status — the way a medicine is supplied to the patient (eg, with or without prescription) can help to minimize its risks.

Together, these measures constitute *routine risk minimization measures*.

In addition to these measures, information about adverse reactions is collected continuously and regularly analysed, including periodic safety update report assessment so that immediate action can be taken as necessary. These measures constitute *routine pharmacovigilance activities*.

If important information that may affect the safe use of Bimzelx is not yet available, it is listed under 'missing information' below.

### 2.1 List of important risks and missing information

Important risks of Bimzelx are risks that need special risk management activities to further investigate or minimize the risk, so that the medicinal product can be safely administered. Important risks can be regarded as identified or potential. Identified risks are concerns for which there is sufficient proof of a link with the use of Bimzelx. Potential risks are concerns for which an association with the use of this medicine is possible based on available data, but this association has not been established yet and needs further evaluation. Missing information refers to information on the safety of the medicinal product that is currently missing and needs to be collected (eg, on the long-term use of the medicine).

**Table 2–1: List of important risks and missing information**

<b>List of important risks and missing information</b>	
Important identified risks	Serious infections
	Inflammatory bowel disease (Crohn's disease and ulcerative colitis)
Important potential risks	Serious hypersensitivity reactions
	Major adverse cardiovascular events
	Malignancy
Missing information	Use during pregnancy and lactation
	Long-term safety data

## 2.2 Summary of important risks

**Table 2–2: Summary of important identified risks**

<b>Important identified risk: Serious infections</b>	
Evidence for linking the risk to the medicine	Serious infections are considered as an important identified risk as a class effect for IL-17 inhibitors.
Risk factors and risk groups	<p><b>PSO:</b> Increasing age, diabetes mellitus, smoking, significant infection history, and PSO treatment were each associated with an increased risk (Kalb et al, 2015). Treatment with biologics or small molecules may increase risk of serious infection in PSO patients, with variability in the mechanism of action (Siegel and Winthrop, 2019).</p> <p><b>PsA:</b> Increasing age, prednisone use, PGA scores of 4 or 5 at the time closest to the reported event, history of infection, diabetes, chronic pulmonary comorbidity and total duration of bDMARD use can potentially contribute to the risk of development of serious infections (Celkys et al, 2020, Ritchlin et al, 2019).</p> <p><b>axSpA:</b> Annual average number of csDMARD prescriptions and time to first biological drug prescription are significantly associated with increased risk of hospitalization for infections in patients with AS (Quartuccio et al, 2019). The use of biologics among patients with AS and nr-axSpA are not significantly associated with an increased risk of serious infection (Wang et al, 2018b).</p> <p><b>HS:</b> Patients with HS have multiple potential risk factors for serious and antibiotic-resistant infections, including epidermal disruption from suppurating lesions and erosions; treatment with immunosuppressants, topical agents and/or oral antibiotics; and comorbidities such as diabetes that are independently associated with infections (Lee et al, 2020; Bettoli et al, 2019).</p>
Risk minimization measures	Routine risk minimization measures: Product labeling
Additional- pharmacovigilance activities	<p>Additional pharmacovigilance activities:</p> <p>PS0038 (Bimekizumab real-world outcomes study)</p> <p>Review of safety data from studies PS0014, PS0015, PA0012, AS0014, and HS0005</p> <p>See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorization development plan.</p>

**Table 2–2: Summary of important identified risks**

<b>Important identified risk: Inflammatory bowel disease (Crohn's disease and ulcerative colitis)</b>	
Evidence for linking the risk to the medicine	This risk is based on safety evaluation performed including pharmacoepidemiological background incidence and prevalence rates of IBD, comparison of data from other IL-17 inhibitors, and review of bimekizumab clinical data.
Risk factors and risk groups	<p><b>PSO:</b> Risk of IBD in PSO patients increases with severity of disease and systemic medication usage. Cancer, obesity, and cardiovascular disease may also be risk factors of IBD in PSO patients (Lee et al, 2019; Radtke et al, 2017; Takeshita et al, 2017; Vlachos et al, 2016; Molodecky et al, 2012; Loftus Jr 2004).</p> <p><b>PsA:</b> Risk of IBD in PsA increases with environmental risk factors such as smoking, infections, high doses of NSAIDs and genetic predisposition (Schreiber et al, 2019, Charlton et al, 2018). Previous failure of a TNF antagonist has also been associated with exacerbations and less disease control (Schreiber et al, 2019).</p> <p><b>axSpA:</b> Risk of IBD in axSpA increases with environmental risk factors such as smoking, infections, genetic predisposition, previous failure of a TNF antagonist and high doses of NSAIDs (Schreiber et al, 2019; Fragoulis 2019). People in the older age group (<math>\geq 65</math> years) and those with comorbidity of cancer also have a higher risk for IBD (Wang et al, 2020).</p> <p><b>HS:</b> A study in the USA reported adjusted odds ratios for HS (vs non-HS) for CD (Garg et al., 2018) in subgroups, by testing effect modification. Sex significantly altered the odds ratios of CD, with men having a higher risk than women. They also found higher risk in older patients, higher risk in non-obese patients than in obese patients, and higher risk in non-smokers than in smokers.</p>
Risk minimization measures	Routine risk minimization measures: Product labeling
Additional pharmacovigilance activities	<p>Additional pharmacovigilance activities:</p> <p>PS0038 (Bimekizumab real-world outcomes study)</p> <p>Review of safety data from studies PS0014, PS0015, PA0012, AS0014 and HS0005</p> <p>See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorisation development plan.</p>

AS=ankylosing spondylitis; axSpA=axial spondyloarthritis; bDMARD=biologic disease-modifying antirheumatic drug; CD=Crohn's disease; csDMARD=conventional synthetic disease-modifying antirheumatic drug; HS: hidradenitis suppurativa; IBD=inflammatory bowel disease; IL=interleukin; NSAID=non-steroidal anti-inflammatory drug; nr-axSpA=non-radiographic axial spondyloarthritis; PGA=physician global assessment; PSO=psoriasis; TNF=tumor necrosis factor

**Table 2–3: Summary of important potential risks**

<b>Important potential risk: Serious hypersensitivity reactions</b>	
Evidence for linking the risk to the medicine	All monoclonal antibodies could potentially be associated with hypersensitivity reactions, including anaphylactic/anaphylactoid events. Data to evaluate safety concerns derive from clinical studies.
Risk factors and risk groups	Risk groups include patients who have hypersensitivity to the active substance or to any of the excipients.
Risk minimization measures	Routine risk minimization measures: Product labeling
Additional pharmacovigilance activities	Additional pharmacovigilance activities: PS0038 (Bimekizumab real-world outcomes study) Review of safety data from studies PS0014, PS0015, PA0012, AS0014, and HS0005 See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorization development plan.
<b>Important potential risk: MACE</b>	
Evidence for linking the risk to the medicine	Data to evaluate safety concerns derive from clinical studies, comparison of data from other IL-17 inhibitors, and pharmacoepidemiological background incidence and prevalence rates.
Risk factors and risk groups	<p><b>PSO:</b> The increased cardiovascular risk in PSO patients is partly due to the association with factors that are known predictors of cardiovascular risk including hyperlipidemia, obesity, hypertension, and diabetes. In addition, PSO patients have an increased risk of vascular inflammation and MACE (defined as myocardial infarction, stroke and cardiovascular related death) beyond that attributable to known cardiovascular risk factors (Egeberg et al, 2017; Gelfand et al 2006). Observational studies have shown that if systemic inflammation is driving CVD risk then systemic treatment with methotrexate and biologic drugs may reduce elevated risk of MACE (Jindal and Jindal, 2018). Some clinical trials of IL-12/23 inhibitors have reported elevated risk of MACE; however, a recent review across 38 RCTs found no statistically elevated risk (Rungapiromnan et al, 2017; Parisi et al, 2015).</p> <p><b>PsA:</b> In PsA patients, the risk of developing CV events is driven by traditional CV risk factors; however, the level of disease activity and the extent of systemic inflammatory factors and chronic recurring inflammation are predictors of CV events (Zheng et al, 2022, Eder et al, 2016). Alongside traditional CV risk factors, such as diabetes, dyslipidemia, and smoking, markers of PsA disease activity, including polyarthritis, dactylitis, extensive skin PSO, and elevated inflammatory markers, have been associated with clinical CV events (Karmacharya et al, 2021c, Ogdie et al, 2015).</p>

**Table 2–3: Summary of important potential risks**

	<p><b>axSpA:</b> Inflammation, disease activity or its severity measurements are well-recognized factors for accelerated atherosclerosis in axSpA, along with traditional CV risk factors such as smoking, hypertension, obesity, diabetes, and dyslipidemia (Toussiro et al, 2021).</p> <p><b>HS:</b> Mediation analyses in an EMR-based study in the USA revealed that age, sex, and race all significantly modified the association between HS and risk of the combined outcome of <i>MI or CVA</i>, while adjusting for cardiovascular risk factors (Reddy et al., 2020). Women had a higher risk than men. Patients &lt;50 years of age had an increased risk, compared to non-HS patients, but in older patients, this was not the case anymore. African-Americans had the lowest risk of the different ethnic groups.</p>
Risk minimization measures	<p>Routine risk minimization measures:</p> <p>None</p>
Additional pharmacovigilance activities	<p>Additional pharmacovigilance activities:</p> <p>PS0038 (Bimekizumab real-world outcomes study)</p> <p>Review of safety data from studies PS0014, PS0015, PA0012, AS0014, and HS0005</p> <p>See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorisation development plan.</p>
<b>Important potential risk: Malignancy</b>	
Evidence for linking the risk to the medicine	<p>Data to evaluate safety concerns derive from clinical studies, comparison of data from other IL-17 inhibitors, and pharmacoepidemiological background incidence and prevalence rates.</p>
Risk factors and risk groups	<p><b>PSO:</b> Several mechanisms may contribute to the increased risk of cancer among patients with PSO including chronic inflammation, impaired immunosurveillance associated with the disease itself. Other factors, such as treatment with certain pharmacologic agents or behavioral factors including smoking and alcohol consumption also may contribute to risk independently. A large meta-analysis showed that risk factors of cancer in PSO patients included alcohol and cigarette use, phototherapy, and disease severity (Pouplard et al, 2013). Two retrospective cohort studies examined severity of PSO disease and/or treatment in relation to cancer incidence (Kimball et al, 2015; Lee et al, 2012). These studies found a trend in the incidence of all cancers, lymphoma, melanoma, and NMSC associated with increased PSO disease severity defined by treatment.</p> <p><b>PsA:</b> The increased risk of cancers in PsA could be driven by the chronic inflammatory nature of the disease itself and the requirement for long-term therapy with immunosuppressive agents and/or phototherapy. An increased risk of cancer can also be attributed to</p>



**Table 2–3: Summary of important potential risks**

	<p>more severe form of PsA which requires more long-term use and high-cumulative dose of immunosuppressants. Although data on the risk of cancer for the different therapeutic domains in PsA are variable, patients treated with conventional synthetic disease modifying antirheumatic drugs are reported to present with increased cancer risk, but not those treated with biological therapies (Vaengebjerg et al, 2020; Woo et al, 2020; Fagerli et al, 2019; Luo et al 2019; Costa et al, 2016; Hagberg et al, 2016).</p> <p><b>axSpA:</b> Chronic inflammatory activity in patients with AS can drive the risk of developing malignancies in axSpA. Evidence suggests that Asian populations, but not American or European populations, have a higher risk of malignancy (Deng et al, 2016). A meta-analysis has indicated no overall elevated risk of malignancy among SpA patients (including axSpA and peripheral SpA) treated with biologics (Kwan et al, 2020).</p> <p><b>HS:</b> The survey study in The Netherlands reported a higher prevalence of self-reported malignancies in men (7.8%) than in women (6.1%) (Prens et al., 2022).</p> <p>A study in the USA found that men with HS had 1.4 times higher odds to have squamous cell carcinoma, while this was 1.1 times in women (Hua et al., 2021). Whites had significantly increased risk, but this was not the case for other ethnic groups.</p>
Risk minimization measures	<p>Routine risk minimization measures:</p> <p>None</p>
Additional pharmacovigilance activities	<p>Additional pharmacovigilance activities:</p> <p>PS0038 (Bimekizumab real-world outcomes study)</p> <p>Review of safety data from studies PS0014, PS0015, PA0012, AS0014, and HS0005</p> <p>See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorisation development plan.</p>

AS=ankylosing spondylitis; axSpA=axial spondyloarthritis; COPD=chronic obstructive pulmonary disease; COX=cyclooxygenase; CV=cardiovascular; CVA=cerebrovascular accident; CVD=cardiovascular disease; HS=hidradenitis suppurativa; IL=interleukin; MACE=major adverse cardiovascular event; MI=myocardial infarction; NMSC=nonmelanoma skin cancer; PsA=psoriatic arthritis; PSO=psoriasis; RCT=randomized clinical trial; SpA=spondyloarthritis

**Table 2–4: Summary of missing information**

<b>Missing information: Use during pregnancy and lactation</b>	
Risk minimization measures	Routine risk minimization measures: Product labeling
Additional pharmacovigilance activities	Additional pharmacovigilance activities: PS0036 (Bimekizumab pregnancy exposure and outcomes registry) PS0037 (An observational cohort study to evaluate bimekizumab exposure during pregnancy) See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorization development plan.
<b>Missing information: Long-term safety</b>	
Risk minimization measures	Routine risk minimization measures: None
Additional pharmacovigilance activities	Additional pharmacovigilance activities: Review of safety data from studies PS0014, PS0015, PA0012, AS0014, and HS0005 See <a href="#">Section 2.3</a> of this summary for an overview of the post-authorization development plan

## 2.3 Post-authorization development plan

### 2.3.1 Studies which are conditions of the marketing authorization

There are no studies which are conditions of the marketing authorization or specific obligation of Bimzelx.

### 2.3.2 Other studies in post-authorization development plan

Additional pharmacovigilance activities include the following studies:

#### 2.3.2.1 PS0038: Bimekizumab real-world outcomes study

- **Study short name:** Bimekizumab real-world outcomes study

**Purpose of the study:** The primary objective of this observational cohort study will be to evaluate any potential increase in the risk of safety outcomes of interest in bimekizumab exposed PSO, PsA, axSpA, and HS patients compared to PSO, PsA, axSpA, and HS patients exposed to other biologics indicated for moderate-to-severe PSO, PsA, axSpA, and HS except for any other anti-interleukin(IL)-17 biologics (eg, anti-tumor necrosis factor[TNF], anti-IL-23) in the real-world setting.

The safety outcomes of interest will include but are not limited to major adverse cardiovascular events, malignancy, serious infections, inflammatory bowel disease, and serious hypersensitivity reactions.

### 2.3.2.2 PS0036: Bimekizumab pregnancy exposure and outcomes registry

- **Study short name:** Bimekizumab pregnancy exposure and outcomes registry

**Purpose of the study:** The objective of this study is to assess maternal, fetal, and infant outcomes among women who become pregnant while exposed to bimekizumab relative to the outcomes in 2 frequency matched comparator populations. The primary analysis will be a comparison of the birth prevalence of major structural defects in live born infants between the bimekizumab-exposed cohort and the disease comparison cohort. Additional outcome variables will be to evaluate the potential effect of bimekizumab exposure on other adverse pregnancy outcomes including, but not limited, to spontaneous abortion, elective termination, stillbirth, preterm delivery, and infant outcomes including small for gestational age, pattern of 3 or more minor structural defects, postnatal growth (to 1 year of age), developmental concerns (at approximately 1 year of age), and serious infections (up to 1 year of age).

### 2.3.2.3 PS0037: Observational cohort study to evaluate bimekizumab exposure during pregnancy

- **Study short name:** Observational cohort study to evaluate bimekizumab exposure during pregnancy

**Purpose of the study:** The primary objective is to assess adverse pregnancy and infant outcomes, more specifically major congenital malformations, spontaneous abortions, stillbirths, small for gestational age, preterm birth and infant infections, in women exposed to bimekizumab during pregnancy compared to women exposed to other biologics indicated for moderate-to-severe PSO, PsA, axSpA, and any other condition for which bimekizumab has an approved indication except for any other anti-IL-17 biologics (eg, anti-TNF, and-IL-23) during pregnancy using a cohort study design with data from a large electronic health database.

### 2.3.2.4 PS0014

- **Study short name:** A multicenter, open-label study to assess the long-term safety, tolerability, and efficacy of bimekizumab in adult study participants with moderate-to-severe chronic plaque PSO (PS0014)

**Purpose of the study:** To assess the long-term safety and tolerability of bimekizumab administered sc in adult study participants with moderate to severe chronic plaque PSO. This study will include 2 periods, a Treatment Period (144 weeks) and a SFU period (20 weeks after the final dose). A second open-label extension (OLE) Period was added, during which eligible study participants in Canada and the US are invited to continue or reinstitute bimekizumab treatment for an additional 40 weeks and are followed in a second SFU Period of 20 weeks after the final dose of investigational medicinal product (IMP), as appropriate.

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This will allow continuous access to bimekizumab for study participants in Canada and the US.

#### 2.3.2.5 PS0015

- **Study short name:** A multicenter, randomized, double-blind, active comparator-controlled, parallel-group study to evaluate the efficacy and safety of bimekizumab in adult study participants with moderate-to-severe chronic plaque PSO (PS0015).

**Purpose of the study:** The open label extension period will allow collection of long-term efficacy and safety data from eligible study participants on open-label bimekizumab for an additional 96 weeks (after 48 weeks of initial treatment). An OLE2 Period was added, during which eligible study participants in Canada and the US are invited to continue or reinitiate bimekizumab treatment for an additional 40 weeks and are followed in a second SFU Period of 20 weeks after the final dose of IMP, as appropriate. It will allow continuous access to bimekizumab for study participants in Canada and the US.

#### 2.3.2.6 PA0012

- **Study short name:** A multicenter, open label extension study to evaluate the long-term safety, tolerability, and efficacy of bimekizumab in adult study participants with active PsA.

**Purpose of the study:** The open label extension period will allow collection of long-term safety and tolerability data of bimekizumab over a period of up to 140 weeks in adult participants with PsA who completed the feeder Phase 3 studies. An OLE 2 Period was added, during which eligible participants in the US, France, Germany, and Japan are invited to continue or reinitiate bimekizumab treatment for an additional 52 weeks and are followed in a SFU Period of 20 weeks after the final dose of IMP (SFU Period), as appropriate.

#### 2.3.2.7 AS0014

- **Study short name:** A multicenter, open label extension study to evaluate the long-term safety, tolerability, and efficacy of bimekizumab in adult study participants with axSpA (radiographic and non-radiographic).

**Purpose of the study:** The open label extension period will allow collection of long-term safety and tolerability data of bimekizumab over a period of up to 112 weeks in adult participants with axSpA who completed the feeder Phase 3 studies. An OLE 2 Period was added, during which eligible study participants in Japan, France, Germany, and US are invited to continue bimekizumab treatment for an additional 52 weeks and are followed in a SFU Period of 20 weeks after the final dose of IMP (SFU Period), as appropriate.

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### 2.3.2.8 HS0005

- **Study short name:** An open-label, parallel group, multicenter, extension study evaluating the long-term treatment of bimekizumab in study participants with moderate to severe hidradenitis suppurativa

**Purpose of the study:** To assess the long-term safety (primary) and efficacy (secondary) of bimekizumab administered sc in adult study participants with moderate to severe HS. This study will include 2 periods, a Treatment Period (100 weeks) and a SFU period (20 weeks after the final dose).

The HS0005 protocol has been amended globally with a substantial change being study participants receiving bimekizumab 320mg Q2W will be switched to bimekizumab 320mg Q4W. This is based on data from both the individual Phase 3 studies, as well as the pooled data from the 2 completed pivotal Phase 3 studies HS0003 and HS0004, which demonstrated similar efficacy for bimekizumab 320mg Q4W and bimekizumab 320mg Q2W during the Maintenance Treatment Periods (Weeks 16 to 48 of the HS0003 and HS0004 studies). In addition, local amendments in France and Germany will extend the treatment period for an additional 48 weeks. Local amendments for the United States and Japan will extend the treatment period for an additional 80 weeks.