

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

▼ This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

## **1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 2 mg film-coated tablets

Olumiant 4 mg film-coated tablets

## **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Olumiant 2 mg film-coated tablets

Each film-coated tablet contains 2 mg baricitinib.

Olumiant 4 mg film-coated tablets

Each film-coated tablet contains 4 mg baricitinib.

For the full list of excipients, see section 6.1.

## **3. PHARMACEUTICAL FORM**

Film-coated tablet (tablet).

Olumiant 2 mg film-coated tablets

Light pink, 9.0 x 7.5 mm oblong tablets, debossed with “Lilly” on one side and “2” on the other.

Olumiant 4 mg film-coated tablets

Medium pink, 8.5 mm round tablets, debossed with “Lilly” on one side and “4” on the other.

The tablets contain a recessed area on each side.

## **4. CLINICAL PARTICULARS**

### **4.1 Therapeutic indications**

Olumiant is indicated for the treatment of moderate to severe active rheumatoid arthritis in adult patients who have responded inadequately to, or who are intolerant to one or more disease-modifying anti-rheumatic drugs. Olumiant may be used as monotherapy or in combination with methotrexate (see sections 4.4, 4.5 and 5.1 for available data on different combinations).

### **4.2 Posology and method of administration**

Treatment should be initiated by physicians experienced in the diagnosis and treatment of rheumatoid arthritis.

#### Posology

The recommended dose of Olumiant is 4 mg once daily. A dose of 2 mg once daily is appropriate for patients such as those aged  $\geq 75$  years and may be appropriate for patients with a history of chronic or recurrent infections. A dose of 2 mg once daily may also be considered for patients who have achieved sustained control of disease activity with 4 mg once daily and are eligible for dose tapering (see section 5.1).

Treatment should not be initiated in patients with an absolute lymphocyte count (ALC) less than  $0.5 \times 10^9$  cells/L, an absolute neutrophil count (ANC) less than  $1 \times 10^9$  cells/L, or who have a haemoglobin value less than 8 g/dL. Treatment may be initiated once values have improved above these limits (see section 4.4).

#### *Renal impairment*

The recommended dose is 2 mg once daily in patients with creatinine clearance between 30 and 60 mL/min. Olumiant is not recommended for use in patients with creatinine clearance < 30 mL/min (see section 5.2).

#### *Hepatic impairment*

No dose adjustment is required in patients with mild or moderate hepatic impairment. Olumiant is not recommended for use in patients with severe hepatic impairment (see section 5.2).

#### *Co-administration with OAT3 inhibitors*

The recommended dose is 2 mg once daily in patients taking Organic Anion Transporter 3 (OAT3) inhibitors with a strong inhibition potential, such as probenecid (see section 4.5).

#### *Elderly*

Clinical experience in patients  $\geq 75$  years is very limited and in these patients a starting dose of 2 mg is appropriate.

#### *Paediatric population*

The safety and efficacy of Olumiant in children and adolescents aged 0 to 18 years have not yet been established. No data are available.

### Method of administration

#### Oral use.

Olumiant is to be taken once daily with or without food and may be taken at any time of the day.

### **4.3 Contraindications**

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

Pregnancy (see section 4.6).

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

#### Infections

Baricitinib is associated with an increased rate of infections such as upper respiratory tract infections compared to placebo (see section 4.8). In treatment naïve patients, combination with methotrexate resulted in increased frequency of infections compared to baricitinib monotherapy. The risks and benefits of treatment with Olumiant should be carefully considered prior to initiating therapy in patients with active, chronic or recurrent infections (see section 4.2). If an infection develops, the patient should be monitored carefully and Olumiant therapy should be temporarily interrupted if the patient is not responding to standard therapy. Olumiant treatment should not be resumed until the infection resolves.

#### *Tuberculosis*

Patients should be screened for tuberculosis (TB) before starting Olumiant therapy. Olumiant should not be given to patients with active TB. Anti-TB therapy should be considered prior to initiation of Olumiant in patients with previously untreated latent TB.

### Haematological abnormalities

Absolute Neutrophil Count (ANC)  $< 1 \times 10^9$  cells/L, Absolute Lymphocyte Count (ALC)  $< 0.5 \times 10^9$  cells/L and haemoglobin  $< 8$  g/dL were reported in less than 1 % of patients in clinical trials. Treatment should not be initiated, or should be temporarily interrupted, in patients with an ANC  $< 1 \times 10^9$  cells/L, ALC  $< 0.5 \times 10^9$  cells/L or haemoglobin  $< 8$  g/dL observed during routine patient management (see section 4.2).

The risk of lymphocytosis is increased in elderly patients with rheumatoid arthritis. Rare cases of lymphoproliferative disorders have been reported.

### Viral reactivation

Viral reactivation, including cases of herpes virus reactivation (e.g., herpes zoster, herpes simplex), were reported in clinical studies (see section 4.8). Herpes zoster was reported more commonly in patients  $\geq 65$  years of age who had previously been treated with both biologic and conventional DMARDs. If a patient develops herpes zoster, Olumiant treatment should be temporarily interrupted until the episode resolves.

Screening for viral hepatitis should be performed in accordance with clinical guidelines before starting therapy with Olumiant. Patients with evidence of active hepatitis B or C infection were excluded from clinical trials. Patients, who were positive for hepatitis C antibody but negative for hepatitis C virus RNA, were allowed to participate. Patients with hepatitis B surface antibody and hepatitis B core antibody, without hepatitis B surface antigen, were also allowed to participate; such patients should be monitored for expression of hepatitis B virus (HBV) DNA. If HBV DNA is detected, a liver specialist should be consulted to determine if treatment interruption is warranted.

### Vaccination

No data are available on the response to vaccination with live or inactivated vaccines in patients receiving baricitinib. Use with live, attenuated vaccines during, or immediately prior to, Olumiant therapy is not recommended. International treatment guidelines on vaccination in rheumatoid arthritis patients should be followed when varicella zoster vaccination is considered prior to treatment with Olumiant.

### Lipids

Dose dependent increases in blood lipid parameters were reported in patients treated with baricitinib compared to placebo (see section 4.8). Elevations in LDL cholesterol decreased to pre-treatment levels in response to statin therapy. Lipid parameters should be assessed approximately 12 weeks following initiation of Olumiant therapy and thereafter patients should be managed according to international clinical guidelines for hyperlipidaemia. The effect of these lipid parameter elevations on cardiovascular morbidity and mortality has not been determined.

### Hepatic transaminase elevations

Increases in alanine transaminase (ALT) and aspartate transaminase (AST) to  $\geq 5$  and  $\geq 10$  x upper limit of normal (ULN) were reported in less than 1 % of patients in clinical trials. In treatment-naïve patients, combination with methotrexate resulted in increased frequency of hepatic transaminase elevations compared with baricitinib monotherapy (see section 4.8). If increases in ALT or AST are observed during routine patient management and drug-induced liver injury is suspected, Olumiant should be temporarily interrupted until this diagnosis is excluded.

### Malignancy

The risk of malignancies including lymphoma is increased in patients with rheumatoid arthritis. Immunomodulatory medicinal products may increase the risk of malignancies including lymphoma.

The clinical data are insufficient to assess the potential incidence of malignancies following exposure to baricitinib. Long-term safety evaluations are ongoing.

### Laboratory monitoring

Table 1. Laboratory measures and monitoring guidance

Laboratory Measure	Action	Monitoring Guidance
Lipid parameters	Patients should be managed according to international clinical guidelines for hyperlipidaemia	12 weeks after initiation of treatment and thereafter according to international clinical guidelines for hyperlipidaemia
Absolute Neutrophil Count (ANC)	Treatment should be interrupted if ANC < 1 x 10 <sup>9</sup> cells/L and may be restarted once ANC return above this value	Before treatment initiation and thereafter according to routine patient management
Absolute Lymphocyte Count (ALC)	Treatment should be interrupted if ALC < 0.5 x 10 <sup>9</sup> cells/L and may be restarted once ALC return above this value	
Haemoglobin (Hb)	Treatment should be interrupted if Hb < 8 g/dL and may be restarted once Hb return above this value	
Hepatic transaminases	Treatment should be temporarily interrupted if drug-induced liver injury is suspected	

### Immunosuppressive medicinal products

Combination with biologic DMARDs or other Janus kinase (JAK) inhibitors is not recommended, as a risk of additive immunosuppression cannot be excluded. Data concerning use of baricitinib with potent immunosuppressive medicinal products (e.g., azathioprine, tacrolimus, ciclosporin) are limited and caution should be exercised when using such combinations (see section 4.5).

## **4.5 Interaction with other medicinal products and other forms of interaction**

### Pharmacodynamic interactions

#### *Immunosuppressive medicinal products:*

Combination with biologic DMARDs or other JAK inhibitors has not been studied. Use of baricitinib with potent immunosuppressive medicinal products such as azathioprine, tacrolimus, or ciclosporin was limited in clinical studies of baricitinib, and a risk of additive immunosuppression cannot be excluded (see section 4.4).

### Potential for other medicinal products to affect the pharmacokinetics of baricitinib

#### *Transporters*

*In vitro*, baricitinib is a substrate for organic anionic transporter (OAT)3, P-glycoprotein (Pgp), breast cancer resistance protein (BCRP) and multidrug and toxic extrusion protein (MATE)2-K. In a clinical pharmacology study, dosing of probenecid (an OAT3 inhibitor with strong inhibition potential) resulted in approximately a 2-fold increase in AUC<sub>(0-∞)</sub> with no change in t<sub>max</sub> or C<sub>max</sub> of baricitinib. Consequently, the recommended dose in patients taking OAT3 inhibitors with a strong inhibition potential, such as probenecid, is 2 mg once daily (see section 4.2). No clinical pharmacology study has been conducted with OAT3 inhibitors with less inhibition potential. The prodrug leflunomide rapidly converts to teriflunomide which is a weak OAT3 inhibitor and therefore may lead to an increase in baricitinib exposure. Since dedicated interaction studies have not been conducted, caution should be used when leflunomide or teriflunomide are given concomitantly with baricitinib. Concomitant use of the OAT3 inhibitors ibuprofen and diclofenac may lead to increased exposure of baricitinib, however

their inhibition potential of OAT3 is less compared to probenecid and thus a clinically relevant interaction is not expected. Coadministration of baricitinib with ciclosporin (Pgp/BCRP inhibitor) or methotrexate (substrate of several transporters including OATP1B1, OAT1, OAT3, BCRP, MRP2, MRP3, and MRP4) resulted in no clinically meaningful effects on baricitinib exposure.

#### *Cytochrome P450 enzymes*

*In vitro*, baricitinib is a cytochrome P450 enzyme (CYP)3A4 substrate although less than 10 % of the dose is metabolised via oxidation. In clinical pharmacology studies, coadministration of baricitinib with ketoconazole (strong CYP3A inhibitor) resulted in no clinically meaningful effect on the PK of baricitinib. Coadministration of baricitinib with fluconazole (moderate CYP3A/CYP2C19/CYP2C9 inhibitor) or rifampicin (strong CYP3A inducer) resulted in no clinically meaningful changes to baricitinib exposure.

#### *Gastric pH modifying agents*

Elevating gastric pH with omeprazole had no clinically significant effect on baricitinib exposure.

### Potential for baricitinib to affect the pharmacokinetics of other medicinal products

#### *Transporters*

*In vitro*, baricitinib did inhibit OAT1, OAT3, organic cationic transporter (OCT) 1, OCT2, OATP1B3, BCRP and MATE1 and MATE2-K. Clinically meaningful changes in the PK of medicinal products that are substrates for these transporters are unlikely, with the exception of OCT1 substrates. It cannot be ruled out that baricitinib is a clinically relevant OCT1 inhibitor, however there are currently no known selective OCT1 substrates for which clinically significant interactions might be predicted. In clinical pharmacology studies there were no clinically meaningful effects on exposure when baricitinib was coadministered with digoxin (Pgp substrate) or methotrexate (substrate of several transporters).

#### *Cytochrome P450 enzymes*

In clinical pharmacology studies, coadministration of baricitinib with the CYP3A substrates simvastatin, ethinyl oestradiol, or levonorgestrel resulted in no clinically meaningful changes in the PK of these medicinal products.

## **4.6 Fertility, pregnancy and lactation**

### Pregnancy

The JAK/STAT pathway has been shown to be involved in cell adhesion and cell polarity which can affect early embryonic development. There are no adequate data from the use of baricitinib in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). Baricitinib was teratogenic in rats and rabbits. Animal studies indicate that baricitinib may have an adverse effect on bone development *in utero* at higher dosages.

Olumiant is contraindicated during pregnancy (see section 4.3). Women of childbearing potential have to use effective contraception during and for at least 1 week after treatment. If a patient becomes pregnant while taking Olumiant the parents should be informed of the potential risk to the foetus.

### Breast-feeding

It is unknown whether baricitinib/metabolites are excreted in human milk. Available pharmacodynamic/toxicological data in animals have shown excretion of baricitinib in milk (see section 5.3).

A risk to newborns/infants cannot be excluded and Olumiant should not be used during breast-feeding. A decision must be made whether to discontinue breast-feeding or to discontinue Olumiant therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

## Fertility

Studies in animals suggest that treatment with baricitinib has the potential to decrease female fertility while on treatment, but there was no effect on male spermatogenesis (see section 5.3).

### **4.7 Effects on ability to drive and use machines**

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

### **4.8 Undesirable effects**

#### Summary of safety profile

The most commonly reported adverse drug reactions (ADRs) occurring in  $\geq 2\%$  of patients treated with Olumiant monotherapy or in combination with conventional synthetic DMARDs were increased LDL cholesterol (33.6%), upper respiratory tract infections (14.7%) and nausea (2.8%). Infections reported with Olumiant treatment included Herpes zoster.

#### Tabulated list of adverse reactions

A total of 3,464 patients were treated with Olumiant in clinical studies in rheumatoid arthritis representing 4214 patient-years of exposure. Of these, 2166 rheumatoid arthritis patients were exposed to Olumiant for at least one year. Six placebo-controlled studies were integrated (997 patients on 4 mg once daily and 1070 patients on placebo) to evaluate the safety of Olumiant in comparison to placebo for up to 16 weeks after treatment initiation.

Table 2. Adverse Reactions

Frequency estimate: Very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to  $< 1/10$ ), uncommon ( $\geq 1/1,000$  to  $< 1/100$ ).

<b>System Organ Class</b>	<b>Very common</b>	<b>Common</b>	<b>Uncommon</b>
Infections and infestations	Upper respiratory tract infections <sup>a</sup>	Herpes zoster, Herpes simplex <sup>b</sup> Gastroenteritis Urinary tract infections	
Blood and lymphatic system disorders		Thrombocytosis >600 x 10 <sup>9</sup> cells/L <sup>c</sup>	Neutropaenia <1 x 10 <sup>9</sup> cells/L <sup>c</sup>
Metabolism and nutrition disorders	Hypercholesterolaemia <sup>c</sup>		Hypertriglyceridaemia <sup>c</sup>
Gastrointestinal disorders		Nausea	
Hepatobiliary disorders		ALT increased $\geq 3$ x ULN <sup>c</sup>	AST increased $\geq 3$ x ULN <sup>c</sup>
Skin and subcutaneous tissue disorders			Acne
Investigations			Weight increased Creatine phosphokinase increased >5 x ULN <sup>c</sup>

<sup>a</sup> Combined term (acute sinusitis, epiglottitis, laryngitis, nasopharyngitis, oropharyngeal pain, pharyngitis, pharyngotonsillitis, rhinitis, sinusitis, tonsillitis, tracheitis, upper respiratory tract infection).

<sup>b</sup> Combined term (eczema herpeticum, herpes simplex, ophthalmic herpes simplex, oral herpes).

<sup>c</sup> Includes changes detected during laboratory monitoring (see text below).

### Description of selected adverse reactions

#### *Nausea*

In treatment-naïve patients, through 52 weeks, the frequency of nausea was greater for the combination treatment of methotrexate and Olumiant (9.3 %) compared to methotrexate alone (6.2 %) or Olumiant alone (4.4 %). Nausea was most frequent during the first 2 weeks of treatment.

#### *Infections*

In controlled studies, for up to 16 weeks, the incidence rate of all infections (rate of patients with  $\geq 1$  event per 100 patient-years of exposure) was 101 with Olumiant compared to 83 in the placebo group. Most infections were mild to moderate in severity. In studies which included both doses, infections were reported in 31.9%, 28.8% and 24.1% of patients up to 16 weeks in the 4 mg, 2 mg and placebo groups, respectively. Reporting rates for Olumiant compared to placebo for the infection-related ADRs were: Upper respiratory tract infections (14.7 % vs. 11.7 %), urinary tract infections (3.4 % vs. 2.7 %), gastroenteritis (1.6 % vs. 0.8 %), herpes simplex (1.8 % vs. 0.7 %), and herpes zoster (1.4 % vs. 0.4 %). In treatment-naïve patients, for up to 52 weeks, the frequency of upper respiratory tract infections was greater for the combination treatment of methotrexate and Olumiant (26.0 %) compared to methotrexate alone (22.9 %) or Olumiant alone (22.0 %). The rate of serious infections with Olumiant (1.1 %) was similar to placebo (1.2 %). For Olumiant, the most common serious infections were herpes zoster, and cellulitis. The rate of serious infections remained stable during long term exposure. The overall incidence rate of serious infections in the clinical trial programme was 3.2 per 100 patient-years.

#### *Hepatic transaminase elevations*

In controlled studies, for up to 16 weeks, alanine transaminase (ALT) and aspartate transaminase (AST) elevations  $\geq 3$  x upper limit of normal (ULN) were observed in 1.4 % and 0.8 % of patients treated with Olumiant, compared to 1.0 % and 0.8 % respectively of patients treated with placebo. Most cases of hepatic transaminase elevations were asymptomatic and transient.

In treatment-naïve patients, the combination of Olumiant with potentially hepatotoxic medicinal products, such as methotrexate, resulted in increased frequency of these elevations. For up to 52 weeks, the frequency of ALT and AST elevations  $\geq 3$  x ULN were greater for the combination treatment of methotrexate and Olumiant (7.5 % and 3.8 %) compared to methotrexate alone (2.9 % and 0.5 %) or Olumiant alone (1.9 % and 1.3 %).

The pattern and incidence of elevation in ALT/AST remained stable over time including in the long-term extension study.

#### *Lipid elevations*

Baricitinib treatment was associated with dose-dependent increases in lipid parameters including total cholesterol, triglycerides, LDL cholesterol, and HDL cholesterol. There was no change in the LDL/HDL ratio. Elevations were observed at 12 weeks and remained stable thereafter at a higher value than baseline including in the long-term extension study. In controlled studies, for up to 16 weeks, the following rates were observed for Olumiant vs. placebo:

- Increased total cholesterol  $\geq 5.17$  mmol/L: 49.1 % vs. 15.8 %, respectively
- Increased LDL cholesterol  $\geq 3.36$  mmol/L: 33.6 % vs. 10.3 %, respectively
- Increased HDL cholesterol  $\geq 1.55$  mmol/L: 42.7 % vs. 13.8 %, respectively
- Increased triglycerides  $\geq 5.65$  mmol/L: 0.4 % vs. 0.5 %, respectively

In studies which included both doses, a dose-relationship was observed with increased total cholesterol  $\geq 5.17$  mmol/L reported in 48.8 %, 34.7 % and 17.8 % of patients up to 16 weeks in the 4 mg, 2 mg and placebo groups, respectively.

Elevations in LDL cholesterol decreased to pre-treatment levels in response to statin therapy.



### *Creatine phosphokinase (CPK)*

In controlled studies, for up to 16 weeks, increases in CPK values were common. Significant increases ( $> 5 \times \text{ULN}$ ) occurred in 0.8 % of patients treated with Olumiant and 0.3 % of patients treated with placebo. A dose relationship was observed with CPK elevations  $\geq 5 \times \text{ULN}$  of normal reported in 1.5 %, 0.8 % and 0.6 % of patients at 16 weeks in the 4 mg, 2 mg and placebo groups, respectively. Most cases were transient and did not require treatment discontinuation. In clinical trials, there were no confirmed cases of rhabdomyolysis. Elevations of CPK were observed at 4 weeks and remained stable at a higher value than baseline thereafter including in the long-term extension study.

### *Neutropaenia*

In controlled studies, for up to 16 weeks, decreases in neutrophil counts below  $1 \times 10^9$  cells/L occurred in 0.3 % of patients treated with Olumiant compared to 0 % of patients treated with placebo. There was no clear relationship between decreases in neutrophil counts and the occurrence of serious infections. However, in clinical studies, treatment was interrupted in response to ANC  $< 1 \times 10^9$  cells/L. The pattern and incidence of decreases in neutrophil counts remained stable at a lower value than baseline over time including in the long-term extension study.

### *Thrombocytosis*

In controlled studies, for up to 16 weeks, increases in platelet counts above  $600 \times 10^9$  cells/L occurred in 2.0 % of patients treated with Olumiant 4 mg and 1.1 % of patients treated with placebo. No association was observed between increased platelet counts and adverse events of a thrombotic nature. The pattern and incidence of increases in platelet counts remained stable at a higher value than baseline over time including in the long term extension study.

### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via **the national reporting system listed in Appendix V**.

## **4.9 Overdose**

Single doses up to 40 mg and multiple doses of up to 20 mg daily for 10 days have been administered in clinical trials without dose-limiting toxicity. Adverse events were comparable to those seen at lower doses and no specific toxicities were identified. Pharmacokinetic data of a single dose of 40 mg in healthy volunteers indicate that more than 90 % of the administered dose is expected to be eliminated within 24 hours. In case of an overdose, it is recommended that the patient be monitored for signs and symptoms of adverse reactions. Patients who develop adverse reactions should receive appropriate treatment.

## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Selective immunosuppressants, ATC code: L04AA37

#### Mechanism of action

Baricitinib is a selective and reversible inhibitor of Janus kinase (JAK)1 and JAK2. In isolated enzyme assays, baricitinib inhibited the activities of JAK1, JAK2, Tyrosine Kinase 2 and JAK3 with  $\text{IC}_{50}$  values of 5.9, 5.7, 53 and  $> 400$  nM, respectively.

Janus kinases (JAKs) are enzymes that transduce intracellular signals from cell surface receptors for a number of cytokines and growth factors involved in haematopoiesis, inflammation and immune function. Within the intracellular signalling pathway, JAKs phosphorylate and activate signal

transducers and activators of transcription (STATs), which activate gene expression within the cell. Baricitinib modulates these signalling pathways by partially inhibiting JAK1 and JAK2 enzymatic activity, thereby reducing the phosphorylation and activation of STATs.

### Pharmacodynamic effects

#### *Inhibition of IL-6 induced STAT3 phosphorylation*

Administration of baricitinib resulted in a dose dependent inhibition of IL-6 induced STAT3 phosphorylation in whole blood from healthy subjects with maximal inhibition observed 2 hours after dosing which returned to near baseline by 24 hours.

#### *Immunoglobulins*

Mean serum IgG, IgM, and IgA values decreased by 12 weeks after starting treatment with Olumiant, and remained stable at a lower value than baseline through at least 104 weeks. For most patients, changes in immunoglobulins occurred within the normal reference range.

#### *Lymphocytes*

Mean absolute lymphocyte count increased by 1 week after starting treatment with Olumiant, returned to baseline by week 24, and then remained stable through at least 104 weeks. For most patients, changes in lymphocyte count occurred within the normal reference range.

#### *C-reactive protein*

In patients with rheumatoid arthritis, decreases in serum C-reactive protein (CRP) were observed as early as 1 week after starting treatment with Olumiant and were maintained throughout dosing.

#### *Creatinine*

Baricitinib induced a mean increase in serum creatinine levels of 3.8 µmol/L after two weeks of treatment, as compared to placebo, which remained stable thereafter during up to 104 weeks of treatment. This may be due to inhibition of creatinine secretion by baricitinib in the renal tubules. Consequently, estimates of the glomerular filtration rate based on serum creatinine may be slightly reduced, without actual loss of renal function or the occurrence of renal adverse events.

### Clinical efficacy

The efficacy and safety of Olumiant once daily was assessed in 4 Phase III randomised, double-blind, multicentre studies in patients with moderate to severe active rheumatoid arthritis diagnosed according to the ACR/EULAR 2010 criteria (see Table 3). Patients over 18 years of age were eligible to participate. The presence of at least 6 tender and 6 swollen joints was required at baseline. All patients who completed these studies were eligible to enrol in a long term extension study for up to 4 years continued treatment.

The RA-BEGIN Study in MTX-naïve patients is supportive for the target population of patients with an inadequate response to, or intolerance to, other DMARDs (section 4.1).

Table 3. Clinical Trial Summary

Study name (Duration)	Population (Number)	Treatment arms	Summary of key outcome measures
RA-BEGIN (52 weeks)	MTX-naïve <sup>1</sup> (584)	<ul style="list-style-type: none"> <li>• Olumiant 4 mg QD</li> <li>• Olumiant 4 mg QD + MTX</li> <li>• MTX</li> </ul>	<ul style="list-style-type: none"> <li>• Primary endpoint: ACR20 at week 24</li> <li>• Physical function (HAQ-DI)</li> <li>• Radiographic progression (mTSS)</li> <li>• Low disease activity and Remission (SDAI)</li> </ul>
RA-BEAM (52 weeks)	MTX-IR <sup>2</sup> (1305)	<ul style="list-style-type: none"> <li>• Olumiant 4 mg QD</li> <li>• Adalimumab 40 mg SC Q2W</li> <li>• Placebo</li> </ul> <p>All patients on background MTX</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: ACR20 at week 12</li> <li>• Physical function (HAQ-DI)</li> <li>• Radiographic progression (mTSS)</li> <li>• Low disease activity and Remission (SDAI)</li> <li>• Morning Joint Stiffness</li> </ul>
RA-BUILD (24 weeks)	cDMARD-IR <sup>3</sup> (684)	<ul style="list-style-type: none"> <li>• Olumiant 4 mg QD</li> <li>• Olumiant 2 mg QD</li> <li>• Placebo</li> </ul> <p>On background cDMARDs<sup>5</sup> if on stable cDMARD at study entry</p>	<ul style="list-style-type: none"> <li>• Primary endpoint: ACR20 at week 12</li> <li>• Physical function (HAQ-DI)</li> <li>• Low disease activity and remission (SDAI)</li> <li>• Radiographic progression (mTSS)</li> <li>• Morning Joint Stiffness</li> </ul>
RA-BEACON (24 weeks)	TNF-IR <sup>4</sup> (527)	<ul style="list-style-type: none"> <li>• Olumiant 4 mg QD</li> <li>• Olumiant 2 mg QD</li> <li>• Placebo</li> </ul> <p>On background cDMARDs<sup>5</sup></p>	<ul style="list-style-type: none"> <li>• Primary endpoint: ACR20 at week 12</li> <li>• Physical function (HAQ-DI)</li> <li>• Low disease activity and Remission (SDAI)</li> </ul>

Abbreviations: QD = Once daily; Q2W = Once every 2 weeks; SC = Subcutaneously; ACR = American College of Rheumatology; SDAI = Simplified Disease Activity Index; HAQ-DI = Health Assessment Questionnaire-Disability Index; mTSS = modified Total Sharp Score

<sup>1</sup> Patients who had received less than 3 doses of Methotrexate (MTX); naïve to other conventional or biologic DMARDs

<sup>2</sup> Patients who had an inadequate response to MTX (+/- other cDMARDs); biologic-naïve

<sup>3</sup> Patients who had an inadequate response or were intolerant to  $\geq 1$  cDMARDs; biologic-naïve

<sup>4</sup> Patients who had an inadequate response or were intolerant to  $\geq 1$  bDMARDs; including at least one TNF inhibitor

<sup>5</sup> Most common concomitant cDMARDs included MTX, hydroxychloroquine, leflunomide and sulfasalazine

#### *Clinical Response:*

In all studies, patients treated with Olumiant 4 mg once daily had statistically significantly higher ACR20, ACR50 and ACR70 response at 12 weeks compared to placebo, MTX or adalimumab (see Table 4). Time to onset of efficacy was rapid across measures with significantly greater responses seen as early as week 1. Continued, durable response rates were observed, with ACR20/50/70 responses maintained for at least 2 years including the long-term extension study.

Treatment with Olumiant 4 mg, alone or in combination with cDMARDs, resulted in significant improvements in all individual ACR components, including tender and swollen joint counts, patient and physician global assessments, HAQ-DI, pain assessment and CRP, compared to placebo or MTX monotherapy. In RA-BEAM, treatment with Olumiant resulted in significant improvement in patient and physician global assessments, HAQ-DI, pain assessment and CRP at Weeks 12, 24 and 52 compared to adalimumab.

In placebo-controlled trials in which MTX was not required, 501 subjects randomized to baricitinib 2 mg or 4 mg received MTX as background therapy, and 303 received conventional DMARDs other than MTX (approximately half with MTX and half without). The most common concomitant DMARDs in these subjects were MTX (79% of patients), hydroxychloroquine (19%), leflunomide

(11%), and sulphasalazine (9%). No relevant differences regarding efficacy and safety were observed in subgroups defined by types of concomitant DMARDs used in combination with baricitinib.

*Remission and low disease activity*

A statistically significantly greater proportion of patients treated with Olumiant 4 mg compared to placebo or MTX achieved remission, as defined by SDAI  $\leq$  3.3 and CDAI  $\leq$  2.8, at weeks 12 and 24 (Table 4).

In all 4 studies, a significantly higher proportion of patients treated with Olumiant 4 mg compared to placebo or MTX achieved low disease activity or remission (DAS28-ESR or DAS28-hsCRP  $\leq$  3.2 and DAS28-ESR or DAS28-hsCRP  $<$  2.6) at Weeks 12 and 24.

Greater rates of remission compared to placebo were observed as early as week 4. Including data from a long-term extension study, remission and low disease activity rates were maintained for at least 2 years.

Table 4: Response, Remission and Physical Function

Study	RA-BEGIN MTX-naïve patients			RA-BEAM MTX-IR patients			RA-BUILD cDMARD-IR patients			RA-BEACON TNF-IR patients		
	MTX	OLU 4 mg	OLU 4 mg + MTX	PBO	OLU 4 mg	ADA 40 mg Q2W	PBO	OLU 2 mg	OLU 4 mg	PBO	OLU 2 mg	OLU 4 mg
N	210	159	215	488	487	330	228	229	227	176	174	177
<b>ACR20:</b>												
Week 12	59 %	79 % <sup>***</sup>	77 % <sup>***</sup>	40 %	70 % <sup>***†</sup>	61 % <sup>***</sup>	39 %	66 % <sup>***</sup>	62 % <sup>***</sup>	27 %	49 % <sup>***</sup>	55 % <sup>***</sup>
Week 24	62 %	77 % <sup>**</sup>	78 % <sup>***</sup>	37 %	74 % <sup>***†</sup>	66 % <sup>***</sup>	42 %	61 % <sup>***</sup>	65 % <sup>***</sup>	27 %	45 % <sup>***</sup>	46 % <sup>***</sup>
Week 52	56 %	73 % <sup>***</sup>	73 % <sup>***</sup>		71 % <sup>††</sup>	62 %						
<b>ACR50:</b>												
Week 12	33 %	55 % <sup>***</sup>	60 % <sup>***</sup>	17 %	45 % <sup>***††</sup>	35 % <sup>***</sup>	13 %	33 % <sup>***</sup>	34 % <sup>***</sup>	8 %	20 % <sup>**</sup>	28 % <sup>***</sup>
Week 24	43 %	60 % <sup>**</sup>	63 % <sup>***</sup>	19 %	51 % <sup>***</sup>	45 % <sup>***</sup>	21 %	41 % <sup>***</sup>	44 % <sup>***</sup>	13 %	23 % <sup>*</sup>	29 % <sup>***</sup>
Week 52	38 %	57 % <sup>***</sup>	62 % <sup>***</sup>		56 % <sup>†</sup>	47 %						
<b>ACR70:</b>												
Week 12	16 %	31 % <sup>***</sup>	34 % <sup>***</sup>	5 %	19 % <sup>***†</sup>	13 % <sup>***</sup>	3 %	18 % <sup>***</sup>	18 % <sup>***</sup>	2 %	13 % <sup>***</sup>	11 % <sup>**</sup>
Week 24	21 %	42 % <sup>***</sup>	40 % <sup>***</sup>	8 %	30 % <sup>***†</sup>	22 % <sup>***</sup>	8 %	25 % <sup>***</sup>	24 % <sup>***</sup>	3 %	13 % <sup>***</sup>	17 % <sup>***</sup>
Week 52	25 %	42 % <sup>***</sup>	46 % <sup>***</sup>		37 %	31 %						
<b>DAS28-hsCRP ≤ 3.2:</b>												
Week 12	30 %	47 % <sup>***</sup>	56 % <sup>***</sup>	14 %	44 % <sup>***†</sup>	35 % <sup>***</sup>	17 %	36 % <sup>***</sup>	39 % <sup>***</sup>	9 %	24 % <sup>***</sup>	32 % <sup>***</sup>
Week 24	38 %	57 % <sup>***</sup>	60 % <sup>***</sup>	19 %	52 % <sup>***</sup>	48 % <sup>***</sup>	24 %	46 % <sup>***</sup>	52 % <sup>***</sup>	11 %	20 % <sup>*</sup>	33 % <sup>***</sup>
Week 52	38 %	57 % <sup>***</sup>	63 % <sup>***</sup>		56 % <sup>†</sup>	48 %						
<b>DAS28-ESR ≤ 3.2:</b>												
Week 12	15 %	21 %	34 % <sup>***</sup>	7 %	24 % <sup>***</sup>	21 % <sup>***</sup>	7 %	21 % <sup>***</sup>	22 % <sup>***</sup>	4 %	13 % <sup>**</sup>	12 % <sup>**</sup>
Week 24	23 %	36 % <sup>**</sup>	39 % <sup>***</sup>	10 %	32 % <sup>***</sup>	34 % <sup>***</sup>	10 %	29 % <sup>***</sup>	32 % <sup>***</sup>	7 %	11 %	17 % <sup>**</sup>
Week 52	27 %	36 %	45 % <sup>***</sup>		39 %	36 %						
<b>SDAI ≤ 3.3:</b>												
Week 12	6 %	14 % <sup>*</sup>	20 % <sup>***</sup>	2 %	8 % <sup>***</sup>	7 % <sup>***</sup>	1 %	9 % <sup>***</sup>	9 % <sup>***</sup>	2 %	2 %	5 %
Week 24	10 %	22 % <sup>**</sup>	23 % <sup>***</sup>	3 %	16 % <sup>***</sup>	14 % <sup>***</sup>	4 %	17 % <sup>***</sup>	15 % <sup>***</sup>	2 %	5 %	9 % <sup>**</sup>
Week 52	13 %	25 % <sup>**</sup>	30 % <sup>***</sup>		23 %	18 %						
<b>CDAI ≤ 2.8:</b>												
Week 12	7 %	14 % <sup>*</sup>	19 % <sup>***</sup>	2 %	8 % <sup>***</sup>	7 % <sup>**</sup>	2 %	10 % <sup>***</sup>	9 % <sup>***</sup>	2 %	3 %	6 %
Week 24	11 %	21 % <sup>**</sup>	22 % <sup>**</sup>	4 %	16 % <sup>***</sup>	12 % <sup>***</sup>	4 %	15 % <sup>***</sup>	15 % <sup>***</sup>	3 %	5 %	9 % <sup>*</sup>
Week 52	16 %	25 % <sup>*</sup>	28 % <sup>**</sup>		22 %	18 %						
<b>HAQ-DI Minimum Clinically Important Difference (decrease in HAQ-DI score of ≥ 0.30):</b>												
Week 12	60 %	81 % <sup>***</sup>	77 % <sup>***</sup>	46 %	68 % <sup>***</sup>	64 % <sup>***</sup>	44 %	60 % <sup>***</sup>	56 % <sup>**</sup>	35 %	48 % <sup>*</sup>	54 % <sup>***</sup>
Week 24	66 %	77 % <sup>*</sup>	74 %	37 %	67 % <sup>***†</sup>	60 % <sup>***</sup>	37 %	58 % <sup>***</sup>	55 % <sup>***</sup>	24 %	41 % <sup>***</sup>	44 % <sup>***</sup>
Week 52	53 %	65 % <sup>*</sup>	67 % <sup>**</sup>		61 %	55 %						

Note: Proportions of responders at each time point based on those initially randomised to treatment (N). Patients who discontinued or received rescue therapy were considered as non-responders thereafter.

Abbreviations: ADA = adalimumab; MTX = methotrexate; OLU = Olumiant; PBO = Placebo

\* p ≤ 0.05; \*\* p ≤ 0.01; \*\*\* p ≤ 0.001 vs. placebo (vs. MTX for study RA-BEGIN)

† p ≤ 0.05; †† p ≤ 0.01; ††† p ≤ 0.001 vs. adalimumab

### Radiographic response

The effect of Olumiant on progression of structural joint damage was evaluated radiographically in studies RA-BEGIN, RA-BEAM and RA-BUILD and assessed using the modified Total Sharp Score (mTSS) and its components, the erosion score and joint space narrowing score.

Treatment with Olumiant 4 mg resulted in a statistically significant inhibition of progression of structural joint damage (Table 5). Analyses of erosion and joint space narrowing scores were consistent with the overall scores. The proportion of patients with no radiographic progression (mTSS change  $\leq 0$ ) was significantly higher with Olumiant 4 mg compared to placebo at weeks 24 and 52.

Table 5. Radiographic Changes

Study	RA-BEGIN MTX-naïve patients			RA-BEAM MTX-IR patients			RA-BUILD cDMARD-IR patients		
	MTX	OLU 4 mg	OLU 4 mg + MTX	PBO <sup>a</sup>	OLU 4 mg	ADA 40 mg Q2W	PBO	OLU 2 mg	OLU 4 mg
<b>Modified Total Sharp Score, mean change from baseline:</b>									
Week 24	0.61	0.39	0.29*	0.90	0.41***	0.33***	0.70	0.33*	0.15**
Week 52	1.02	0.80	0.40**	1.80	0.71***	0.60***			
<b>Erosion Score, Mean change from baseline:</b>									
Week 24	0.47	0.33	0.26*	0.61	0.29***	0.24***	0.47	0.30	0.11**
Week 52	0.81	0.55	0.34**	1.23	0.51***	0.42***			
<b>Joint Space Narrowing Score, mean change from baseline:</b>									
Week 24	0.14	0.06	0.03	0.29	0.12**	0.10**	0.23	0.03*	0.04*
Week 52	0.21	0.25	0.06	0.58	0.21***	0.19**			
<b>Proportion of patients with no radiographic progression<sup>b</sup>:</b>									
Week 24	68 %	76 %	81 %**	70 %	81 %***	83 %***	74 %	72 %	80 %
Week 52	66 %	69 %	80 %**	70 %	79 %**	81 %**			

Abbreviations: ADA = adalimumab; MTX = methotrexate; OLU = Olumiant; PBO = Placebo

<sup>a</sup> Placebo data at week 52 derived using linear extrapolation

<sup>b</sup> No progression defined as mTSS change  $\leq 0$ .

\*  $p \leq 0.05$ ; \*\*  $p \leq 0.01$ ; \*\*\*  $p \leq 0.001$  vs. placebo (vs. MTX for study RA-BEGIN)

### Physical function response and health-related outcomes

Treatment with Olumiant 4 mg, alone or in combination with cDMARDs, resulted in a significant improvement in physical function compared to all comparators (placebo, MTX, adalimumab), as measured by HAQ-DI, at 12, 24 and 52 weeks. The proportion of patients achieving a clinically significant improvement (HAQ-DI  $\geq 0.30$ ) was also higher with Olumiant compared to placebo or MTX at week 12 (Table 4). Improvements were seen as early as Week 1 and, in studies RA-BEGIN and RA-BEAM, this was maintained for up to 52 weeks.

Treatment with Olumiant 4 mg, alone or in combination with cDMARDs, resulted in a significant improvement in pain compared to all comparators (placebo, MTX, adalimumab), as measured on a 0-100 visual analogue scale, at 12 weeks. Statistically significant pain reduction was seen as early as Week 1 and in studies RA-BEGIN and RA-BEAM this was maintained for up to 52 weeks.

In RA-BEAM and RA-BUILD, treatment with Olumiant 4 mg resulted in a significant improvement in the mean duration and severity of morning joint stiffness compared to placebo or adalimumab as assessed using daily electronic patient diaries for 12 weeks.

In all studies, Olumiant-treated patients reported improvements in patient-reported quality of life, as measured by the Short Form (36) Health Survey (SF-36) Physical Component Score and fatigue, as measured by the Functional Assessment of Chronic Illness Therapy-Fatigue score (FACIT-F).

### *Olumiant 4 mg vs. 2 mg*

Differences in efficacy between the 4 mg and the 2 mg doses were most notable in the bDMARD-IR population (RA-BEACON), in which statistically significant improvements in the ACR components of swollen joint count, tender joint count and ESR were shown for Olumiant 4 mg compared to placebo at Week 24 but not for Olumiant 2 mg compared to placebo. In addition, for both study RA-BEACON and RA-BUILD, onset of efficacy was faster and the effect size was generally larger for the 4 mg dose groups compared to 2 mg.

In a long-term extension study, patients from Studies RA-BEAM, RA-BUILD and RA-BEACON who achieved sustained low disease activity or remission ( $\text{CDAI} \leq 10$ ) after at least 15 months of treatment with Olumiant 4 mg once daily were re-randomized 1:1 in a double-blind manner to continue 4 mg once daily or reduce dose to 2 mg once daily. The majority of patients maintained low disease activity or remission based on CDAI score:

- At week 12: 234/251 (93 %) continuing 4 mg vs. 207/251 (82 %) reduced to 2 mg ( $p \leq 0.001$ )
- At week 24: 163/191 (85 %) continuing 4 mg vs. 144/189 (76 %) reduced to 2 mg ( $p \leq 0.05$ )
- At week 48: 57/73 (78 %) continuing 4 mg vs. 51/86 (59 %) reduced to 2 mg ( $p \leq 0.05$ )

The majority of patients who lost their low disease activity or remission status after dose reduction could regain disease control after the dose was returned to 4 mg.

### Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Olumiant in one or more subsets of the paediatric population in chronic idiopathic arthritis (see section 4.2 for information on paediatric use).

## **5.2 Pharmacokinetic properties**

Following oral administration of baricitinib, a dose-proportional increase in systemic exposure was observed in the therapeutic dose range. The PK of baricitinib is linear with respect to time.

### Absorption

Following oral administration, baricitinib is rapidly absorbed with a median  $t_{\text{max}}$  of approximately 1 hour (range 0.5 - 3.0 h) and an absolute bioavailability of approximately 79 % ( $\text{CV} = 3.94$  %). Food intake led to a decreased exposure by up to 14 %, a decrease in  $C_{\text{max}}$  by up to 18 % and delayed  $t_{\text{max}}$  by 0.5 hours. Administration with meals was not associated with a clinically relevant effect on exposure.

### Distribution

Mean volume of distribution following intravenous infusion administration was 76 L, indicating distribution of baricitinib into tissues. Baricitinib is approximately 50 % bound to plasma proteins.

### Biotransformation

Baricitinib metabolism is mediated by CYP3A4, with less than 10 % of the dose identified as undergoing biotransformation. No metabolites were quantifiable in plasma. In a clinical pharmacology study, baricitinib was excreted predominately as the unchanged active substance in urine (69 %) and faeces (15 %) and only 4 minor oxidative metabolites were identified (3 in urine; 1 in faeces) constituting approximately 5 % and 1 % of the dose, respectively. *In vitro*, baricitinib is a substrate for CYP3A4, OAT3, Pgp, BCRP and MATE2-K, and an inhibitor of the transporters OAT1, OAT3, OCT1, OCT2, OATP1B3, BCRP, MATE1 and MATE2-K, but clinically meaningful interactions with medicines that are substrates for these transporters are unlikely, with the exception of OCT1 substrates. (see section 4.5)

## Elimination

Renal elimination is the principal mechanism for baricitinib's clearance through glomerular filtration and active secretion via OAT3, Pgp, BCRP and MATE2-K. In a clinical pharmacology study, approximately 75 % of the administered dose was eliminated in the urine, while about 20 % of the dose was eliminated in the faeces. Mean apparent clearance (CL/F) and half-life in patients with rheumatoid arthritis was 9.42 L/hr (CV = 34.3 %) and 12.5 hrs (CV = 27.4 %), respectively.  $C_{max}$  and AUC at steady state are 1.4- and 2.0-fold higher, respectively, in subjects with rheumatoid arthritis compared to healthy subjects.

## Renal Impairment

Renal function was found to significantly affect baricitinib exposure. The mean ratios of AUC in patients with mild and moderate renal impairment to patients with normal renal function are 1.41 (90 % CI: 1.15-1.74) and 2.22 (90 % CI: 1.81-2.73), respectively. The mean ratios of  $C_{max}$  in patients with mild and moderate renal impairment to patients with normal renal function are 1.16 (90 % CI: 0.92-1.45) and 1.46 (90 % CI: 1.17-1.83), respectively. See section 4.2 for dose recommendations.

## Hepatic Impairment

There was no clinically relevant effect on the PK of baricitinib in patients with mild or moderate hepatic impairment. The use of baricitinib has not been studied in patients with severe hepatic impairment.

## Elderly

Age  $\geq$  65 years or  $\geq$  75 years has no effect on baricitinib exposure ( $C_{max}$  and AUC).

## Paediatric population

The safety, efficacy and pharmacokinetics of baricitinib have not yet been established in a paediatric population (see section 4.2).

## Other intrinsic Factors

Body weight, sex, race, and ethnicity did not have a clinically relevant effect on the PK of baricitinib. The mean effects of intrinsic factors on PK parameters (AUC and  $C_{max}$ ) were generally within the inter-subject PK variability of baricitinib. Therefore, no dose adjustment is needed based on these patient factors.

## **5.3 Preclinical safety data**

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity and carcinogenic potential.

Decreases in lymphocytes, eosinophils and basophils as well as lymphoid depletion in organs/tissues of the immune system were observed in mice, rats and dogs. Opportunistic infections related to demodicosis (mange) were observed in dogs at exposures approximately 7 times the human exposure. Decreases in red blood cell parameters were observed in mice, rats and dogs at exposures approximately 6 to 36 times the human exposure. Degeneration of the sternal growth plate was observed in some dogs, at low incidence and also in control animals, but with a dose-effect relationship regarding severity. At present it is not known whether this is clinically relevant.

In rat and rabbit reproductive toxicology studies, baricitinib was shown to reduce foetal growth/weight and produce skeletal malformations (at exposures of approximately 10 and 39 times the human



exposure, respectively). No adverse foetal effects were observed at exposures 2 times the human exposure based on AUC.

In a combined male/female rat fertility study, baricitinib decreased overall mating performance (decreased fertility and conception indices). In female rats there were decreased numbers of corpora lutea and implantation sites, increased pre-implantation loss, and/or adverse effects on intrauterine survival of the embryos. Since there were no effects on spermatogenesis (as assessed by histopathology) or semen/sperm endpoints in male rats, the decreased overall mating performance was likely the result of these female effects.

Baricitinib was detected in the milk of lactating rats. In a pre- and postnatal development study, decreased pup weights and decreased postnatal survival were observed at exposures 4 and 21 times, respectively, the human exposure.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### Tablet cores

- cellulose, microcrystalline
- croscarmellose sodium
- magnesium stearate
- mannitol

#### Film coating

- iron oxide red (E172)
- lecithin (soya) (E322)
- macrogol
- poly (vinyl alcohol)
- talc
- titanium dioxide (E171)

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

2 years.

### **6.4 Special precautions for storage**

This medicinal product does not require any special storage conditions

### **6.5 Nature and contents of container**

Polyvinylchloride/polyethylene/polychlorotrifluoroethylene - aluminium blisters in cartons of 14, 28, 35, 56, 84 or 98 film-coated tablets.

Polyvinylchloride/aluminium/oriented polyamide - aluminium perforated unit dose blisters in cartons of 28 x 1 or 84 x 1 film-coated tablets.

Not all pack sizes may be marketed.

## **6.6 Special precautions for disposal**

No special requirements for disposal.

## **7. MARKETING AUTHORISATION HOLDER**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

## **8. MARKETING AUTHORISATION NUMBER(S)**

### Olumiant 2 mg film-coated tablets

EU/1/16/1170/001

EU/1/16/1170/002

EU/1/16/1170/003

EU/1/16/1170/004

EU/1/16/1170/005

EU/1/16/1170/006

EU/1/16/1170/007

EU/1/16/1170/008

### Olumiant 4 mg film-coated tablets

EU/1/16/1170/009

EU/1/16/1170/010

EU/1/16/1170/011

EU/1/16/1170/012

EU/1/16/1170/013

EU/1/16/1170/014

EU/1/16/1170/015

EU/1/16/1170/016

## **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first Authorisation:

## **10. DATE OF REVISION OF THE TEXT**

Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>.

## **ANNEX II**

- A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT**

## **A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**

Name and address of the manufacturer responsible for batch release

Lilly S.A.  
Avda. de la Industria, 30  
Alcobendas  
28108 Madrid  
SPAIN

## **B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

## **C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

- **Periodic safety update reports**

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder shall submit the first periodic safety update report for this product within 6 months following authorisation.

## **D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT**

- **Risk Management Plan (RMP)**

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

- **Additional risk minimisation measures**

Prior to launch of Olumiant in each Member State, the Marketing Authorisation Holder (MAH) must agree about the content and format of the educational materials, including communication media, distribution modalities, and any other aspects of the programme, with the National Competent Authority.

The main objectives of the programme are to make the prescribers aware of the risks associated with the product's use, and to highlight specific risk minimisation measures to be performed before and during the treatment with Olumiant.

The MAH shall ensure that, in each Member State where Olumiant is marketed, all healthcare professionals who are expected to prescribe Olumiant are provided with the physician educational material, which should contain:

- The Summary of Product Characteristics
- The Package Leaflet including the Patient Alert Card

- The guide for healthcare professionals to support counselling of the patient
- Additional Patient Alert Cards

**The guide for healthcare professionals** shall contain the following key elements:

- That Olumiant increases the potential risk of infections. Patients should be instructed to seek immediate medical attention, if signs or symptoms suggesting infection appear.
- That Olumiant use should be stopped in case of herpes zoster or any other infection that doesn't respond to standard treatment until the event resolves. Patients should not be immunised using live attenuated vaccines shortly before or during treatment with Olumiant.
- Prescribers should screen the patients for viral hepatitis before commencing Olumiant treatment. Active tuberculosis should also be ruled out.
- That Olumiant use is associated with hyperlipidaemia; prescribers should monitor the patient's lipid parameters and manage the hyperlipidaemia, if detected.
- That Olumiant is contraindicated in pregnancy as pre-clinical data showed reduced foetal growth and malformations. Physicians should advise women of child bearing potential to use contraception during treatment and for a week after its ending. If a planned pregnancy is considered, Olumiant treatment should be stopped.
- The purpose and use of the Patient Alert Card

**The patient alert card** shall contain the following key messages:

- That treatment with Olumiant may increase the risk of infections, and viral reactivation.
- Signs or symptoms of infections including general symptoms, and specifically tuberculosis and herpes zoster signs and symptoms; and a warning for the patients to seek immediate medical attention if signs or symptoms suggesting infection appear
- That Olumiant should not be taken while pregnant and that women should inform their doctor should they become (or wish to become) pregnant
- That the patient may need to have their cholesterol level checked during treatment
- Contact details of the prescriber
- That the Patient Alert Card should be carried by the patient at any time and to share it with other healthcare professionals involved in their treatment.

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**CARTONS FOR 2 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 2 mg film-coated tablets  
baricitinib

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each tablet contains 2 mg baricitinib

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

14 film-coated tablets  
28 film-coated tablets  
35 film-coated tablets  
56 film-coated tablets  
84 film-coated tablets  
98 film-coated tablets  
28 x 1 film-coated tablets  
84 x 1 film-coated tablets

**5. METHOD AND ROUTE(S) OF ADMINISTRATION**

Oral use  
Read the package leaflet before use

QR code to be included+ [www.olumiant.eu](http://www.olumiant.eu)

**6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children

**7. OTHER SPECIAL WARNING(S), IF NECESSARY**

**8. EXPIRY DATE**

EXP



**9. SPECIAL STORAGE CONDITIONS**

**10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/16/1170/001	(14 film-coated tablets)
EU/1/16/1170/002	(28 film-coated tablets)
EU/1/16/1170/003	(28 x 1 film-coated tablets)
EU/1/16/1170/004	(35 film-coated tablets)
EU/1/16/1170/005	(56 film-coated tablets)
EU/1/16/1170/006	(84 film-coated tablets)
EU/1/16/1170/007	(84 x 1 film-coated tablets)
EU/1/16/1170/008	(98 film-coated tablets)

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

Olumiant 2 mg

**17. UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

**18. UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC:  
SN:  
NN:

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**CALENDAR BLISTERS NON-PERFORATED FOR 2 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 2 mg tablets  
baricitinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

Mon.  
Tue.  
Wed.  
Thu.  
Fri.  
Sat.  
Sun.

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTERS PERFORATED UNIT DOSE FOR 2 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 2 mg tablets  
baricitinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**CARTONS FOR 4 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 4 mg film-coated tablets  
baricitinib

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each tablet contains 4 mg baricitinib

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

14 film-coated tablets  
28 film-coated tablets  
35 film-coated tablets  
56 film-coated tablets  
84 film-coated tablets  
98 film-coated tablets  
28 x 1 film-coated tablets  
84 x 1 film-coated tablets

**5. METHOD AND ROUTE(S) OF ADMINISTRATION**

Oral use  
Read the package leaflet before use

QR code to be included+ [www.olumiant.eu](http://www.olumiant.eu)

**6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children

**7. OTHER SPECIAL WARNING(S), IF NECESSARY**

**8. EXPIRY DATE**

EXP

**9. SPECIAL STORAGE CONDITIONS**

**10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ Utrecht, The Netherlands.

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/16/1170/009	(14 film-coated tablets)
EU/1/16/1170/010	(28 film-coated tablets)
EU/1/16/1170/011	(28 x 1 film-coated tablets)
EU/1/16/1170/012	(35 film-coated tablets)
EU/1/16/1170/013	(56 film-coated tablets)
EU/1/16/1170/014	(84 film-coated tablets)
EU/1/16/1170/015	(84 x 1 film-coated tablets)
EU/1/16/1170/016	(98 film-coated tablets)

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

**15. INSTRUCTIONS ON USE**

**16. INFORMATION IN BRAILLE**

Olumiant 4 mg

**17. UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

**18. UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC:  
SN:  
NN:

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**CALENDAR BLISTERS NON-PERFORATED FOR 4 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 4 mg tablets  
baricitinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

Mon.  
Tue.  
Wed.  
Thu.  
Fri.  
Sat.  
Sun.

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTERS PERFORATED UNIT DOSE FOR 4 MG FILM-COATED TABLETS**

**1. NAME OF THE MEDICINAL PRODUCT**

Olumiant 4 mg tablets  
baricitinib

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Lilly

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

**B. PACKAGE LEAFLET**



## Package leaflet: Information for the patient

### Olumiant 2 mg film-coated tablets

### Olumiant 4 mg film-coated tablets

Baricitinib

▼ This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

#### **Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, or pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, or pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

1. What Olumiant is and what it is used for
2. What you need to know before you take Olumiant
3. How to take Olumiant
4. Possible side effects
5. How to store Olumiant
6. Contents of the pack and other information

#### **1. What Olumiant is and what it is used for**

Olumiant contains the active substance baricitinib. It belongs to a group of medicines called Janus kinase inhibitors, which help to reduce inflammation.

Olumiant is used to treat adults with moderate to severe rheumatoid arthritis, an inflammatory disease of the joints, if previous therapy did not work well enough or was not tolerated. Olumiant can be used alone or together with some other medicines, such as methotrexate.

Olumiant works by reducing the activity of an enzyme in the body called 'Janus kinase', which is involved in inflammation. By reducing the activity of this enzyme, Olumiant helps to reduce pain, stiffness and swelling in your joints, tiredness, and helps to slow damage to the bone and cartilage in the joints. These effects can help you to do normal daily activities and so improve the health-related quality of life for patients with rheumatoid arthritis.

#### **2. What you need to know before you take Olumiant**

##### **Do not take Olumiant:**

- if you are allergic to baricitinib or any of the other ingredients of this medicine (listed in section 6).
- if you are pregnant or think you may be pregnant.

## **Warnings and precautions**

Talk to your doctor or pharmacist before and during treatment with Olumiant if you:

- have an infection, or if you often get infections. Tell your doctor if you get symptoms such as fever, wounds, feeling more tired than usual or dental problems as these can be signs of infection. Olumiant can reduce your body's ability to fight infections and may make an existing infection worse or increase the chance of you getting a new infection
- have, or have previously had, tuberculosis. You may need tests to check for tuberculosis before you are given Olumiant. Tell your doctor if you get persistent cough, fever, night sweats and weight loss during Olumiant treatment as these can be signs of tuberculosis
- have had a herpes infection (shingles), because Olumiant may allow it to come back. Tell your doctor if you get painful skin rash with blisters during Olumiant treatment as these can be signs of shingles
- have, or have previously had, hepatitis B or C
- are due to have a vaccine. You should not be given certain (live) vaccines while using Olumiant
- have cancer, because your doctor will have to decide if you can still be given Olumiant
- have poor liver function

You may need blood tests before you start Olumiant, or while you are taking it, to check if you have a low red blood cell count (anaemia), low white blood cell count (neutropaenia or lymphopaenia), high blood fat (cholesterol) or high levels of liver enzymes, to ensure that treatment with Olumiant is not causing problems.

## **Children and adolescents**

Olumiant is not for use in children and adolescents under 18 years old because there is no information on use in this age group.

## **Other medicines and Olumiant**

Tell your doctor or pharmacist if you are taking, have recently taken, or might take, any other medicines.

In particular, tell your doctor or pharmacist before taking Olumiant if you are taking:

- probenecid (for gout), since this medicine may increase the levels of Olumiant in your blood. If you are taking probenecid, the recommended dose of Olumiant is 2 mg once a day
- injectable anti-rheumatic medicine
- medicines which are used to control the body's immune response, such as azathioprine, tacrolimus or ciclosporin
- other medicines belonging to the group of Janus kinase inhibitors, such as ruxolitinib

## **Pregnancy and breast-feeding**

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

You should use an effective method of contraception to avoid becoming pregnant during treatment with Olumiant and for at least one week after the last Olumiant treatment. You must tell your doctor if you become pregnant as Olumiant should not be used during pregnancy.

You should not use Olumiant while breast-feeding as it is not known if this medicine passes into milk. You and your doctor should decide if you will breast-feed or use Olumiant. You should not do both.

## **Driving and using machines**

Olumiant has no effect on the ability to drive and use machines.

### 3. How to take Olumiant

Treatment should be started by a doctor experienced in the diagnosis and treatment of rheumatoid arthritis. Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

The recommended dose is 4 mg once a day. Your doctor may give you a lower dose of 2 mg once a day, particularly if you are over 75 years old or if you have an increased risk of infections. If the medicine is working well, your doctor may decide the dose can be reduced.

If you have reduced kidney function, the recommended dose of Olumiant is 2 mg once a day.

Olumiant is for oral use. You should swallow your tablet with a drink of water.

You can take the tablets either with or without food. To help you remember to take Olumiant, you may find it easier to take it at the same time every day.

#### **If you take more Olumiant than you should**

If you take more Olumiant than you should, contact your doctor. You may get some of the side effects described in section 4.

#### **If you forget to take Olumiant**

- If you miss a dose, take it as soon as you remember.
- If you forget your dose for an entire day, just skip the missed dose and take only a single dose as usual the following day.
- Do not take a double dose to make up for a forgotten tablet.

#### **If you stop taking Olumiant**

Do not stop taking Olumiant unless your doctor tells you to stop taking it.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

### 4. Possible side effects

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

#### **Infection such as shingles**, which may affect up to 1 in 10 people:

Tell your doctor or seek medical help immediately if you get the following symptoms, which may be signs of shingles (herpes zoster):

- painful skin rash with blisters and fever

#### **Very common side effects** (may affect more than 1 in 10 people):

- throat and nose infections
- high levels of blood fat (cholesterol) shown by blood test

#### **Common side effects** (may affect up to 1 in 10 people):

- cold sores (herpes simplex)
- infection causing a sick stomach or diarrhoea (gastroenteritis)
- urinary infection
- high number of platelets (cells involved in blood clotting), shown by blood test
- feeling sick in the stomach (nausea)
- high levels of liver enzymes, shown by blood test

#### **Uncommon side effects** (may affect up to 1 in 100 people):

- low number of white blood cells (neutrophils), shown by blood test
- increase in an enzyme called creatine kinase, shown by blood test
- high levels of blood fat (triglycerides), shown by blood test

- acne
- weight gain

### Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in [Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

## 5. How to store Olumiant

Keep this medicine out of the sight and reach of children.

This medicine does not require any special storage conditions.

Do not use this medicine after the expiry date which is stated on the blister and carton after 'EXP'.

The expiry date refers to the last day of that month.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

## 6. Contents of the pack and other information

### What Olumiant contains

- The **active** substance is baricitinib. Each tablet contains 2 or 4 milligrams of baricitinib.
- The **other** ingredients are: microcrystalline cellulose, croscarmellose sodium, magnesium stearate, mannitol, iron oxide red (E172), lecithin (soya) (E322), macrogol, poly (vinyl alcohol), talc and titanium dioxide (E171).

### What Olumiant looks like and contents of the pack

Olumiant 2 mg film-coated tablets are light pink, oblong tablets, with "Lilly" on one side and "2" on the other.

Olumiant 4 mg film-coated tablets are medium pink, round tablets, with "Lilly" on one side and "4" on the other.

The tablets are rounded and have hollow sides to help you pick them up.

Olumiant 2 mg and 4 mg are available in blister packs of 14, 28, 35, 56, 84 and 98 tablets in calendar blisters and 28 x 1 and 84 x 1 tablets in perforated unit dose blisters. Not all the pack sizes may be marketed.

### Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder: Eli Lilly Nederland B.V., Papendorpseweg 83, 3528BJ, Utrecht, The Netherlands.

Manufacturer: Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain.

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

#### Belgique/België/Belgien

Eli Lilly Benelux S.A./N.V.  
Tél/Tel: + 32-(0)2 548 84 84

#### Lietuva

Eli Lilly Holdings Limited atstovybė  
Tel. +370 (5) 2649600

#### България

#### Luxembourg/Luxemburg

ТП "Ели Лили Недерланд" Б.В. - България  
тел. + 359 2 491 41 40

**Česká republika**  
ELI LILLY ČR, s.r.o.  
Tel: + 420 234 664 111

**Danmark**  
Eli Lilly Danmark A/S  
Tlf: +45 45 26 60 00

**Deutschland**  
Lilly Deutschland GmbH  
Tel. + 49-(0) 6172 273 2222

**Eesti**  
Eli Lilly Holdings Limited Eesti filiaal  
Tel: +372 6 817 280

**Ελλάδα**  
ΦΑΡΜΑΣΕΡΒ-ΛΙΛΛΥ Α.Ε.Β.Ε.  
Τηλ: +30 210 629 4600

**España**  
Lilly S.A.  
Tel: + 34-91 663 50 00

**France**  
Lilly France SAS  
Tél: +33-(0) 1 55 49 34 34

**Hrvatska**  
Eli Lilly Hrvatska d.o.o.  
Tel: +385 1 2350 999

**Ireland**  
Eli Lilly and Company (Ireland) Limited  
Tel: + 353-(0) 1 661 4377

**Ísland**  
Icepharma hf.  
Sími + 354 540 8000

**Italia**  
Eli Lilly Italia S.p.A.  
Tel: + 39- 055 42571

**Κύπρος**  
Phadisco Ltd  
Τηλ: +357 22 715000

**Latvija**  
Eli Lilly Holdings Limited pārstāvniecība Latvijā  
Tel: +371 67364000

**This leaflet was last revised in**

**Other sources of information**

Eli Lilly Benelux S.A./N.V.  
Tél/Tel: + 32-(0)2 548 84 84

**Magyarország**  
Lilly Hungária Kft.  
Tel: + 36 1 328 5100

**Malta**  
Charles de Giorgio Ltd.  
Tel: + 356 25600 500

**Nederland**  
Eli Lilly Nederland B.V.  
Tel: + 31-(0) 30 60 25 800

**Norge**  
Eli Lilly Norge A.S.  
Tlf: + 47 22 88 18 00

**Österreich**  
Eli Lilly Ges.m.b.H.  
Tel: + 43-(0) 1 711 780

**Polska**  
Eli Lilly Polska Sp. z o.o.  
Tel: +48 22 440 33 00

**Portugal**  
Lilly Portugal Produtos Farmacêuticos, Lda  
Tel: + 351-21-4126600

**România**  
Eli Lilly România S.R.L.  
Tel: + 40 21 4023000

**SLOVENIJA**  
Eli Lilly farmacevtska družba, d.o.o.  
Tel: +386 (0)1 580 00 10

**Slovenská republika**  
Eli Lilly Slovakia, s.r.o.  
Tel: + 421 220 663 111

**Suomi/Finland**  
Oy Eli Lilly Finland Ab  
Puh/Tel: + 358-(0) 9 85 45 250

**Sverige**  
Eli Lilly Sweden AB  
Tel: + 46-(0) 8 7378800

**United Kingdom**  
Eli Lilly and Company Limited  
Tel: + 44-(0) 1256 315000

Detailed information on this medicine is available on the European Medicines Agency web site:  
<http://www.ema.europa.eu>.

QR code to be included + [www.olumiant.eu](http://www.olumiant.eu)

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**Please remove this portion of the patient leaflet and keep it with you.**

<p><b>Information for Patients about OLUMIANT® (baricitinib)</b> <b>This document contains important information you should be aware of before and during treatment with Olumiant.</b></p> <p>Keep this information with you and share it with other healthcare professionals involved in your medical care or treatment.</p> <p><b>Your name:</b> _____</p> <p><b>Doctor's name</b> (who prescribed Olumiant): _____</p> <p><b>Doctor's phone number:</b> _____</p>	<p><b><u>Pregnancy</u></b></p> <ul style="list-style-type: none"><li>• Do not take Olumiant if you are pregnant or suspect you may be pregnant.</li><li>• Use effective contraception while taking Olumiant (and for 1 week after, if you stop treatment)</li><li>• Tell your doctor immediately if you become (or wish to become) pregnant</li></ul> <p><b><u>Infections:</u></b> Olumiant may make an existing infection worse or increase the chance of you getting a new infection. Inform your doctor if you get symptoms of infection, such as:</p> <ul style="list-style-type: none"><li>• Fever, wounds, feeling more tired than usual, or dental problems.</li><li>• A cough that won't go away, night sweats, and weight loss. These could be symptoms of tuberculosis (an infectious disease of the lungs)..</li><li>• A painful skin rash with blisters. This could be a sign of a herpes zoster infection.</li></ul> <p><b><u>Blood fat:</u></b> Your doctor may check for levels of fat in the blood, such as cholesterol, while you are taking Olumiant.</p>
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