# Summary of activities in the risk management plan by product

# VI.1 Elements for summary tables in the EPAR

# VI.1.1 Summary table of Safety concerns

Important identified risks:	Extrapyramidal symptoms Somnolence Weight gain Lipid changes (increased cholesterol (including increased LDLs), increased triglycerides, and decreased HDLs) Hyperglycemia and diabetes mellitus Metabolic risk factors
Important potential risks:	Cerebrovascular adverse events in the elderly Cerebrovascular adverse events in the non-elderly patients Torsade de Pointes Ischemic heart disease Abuse and misuse Potential for off label use and misdosing Use in elderly patients
Important missing information:	Use in pregnant or breast feeding women Use in patients on concomitant cardiovascular medications Use in patients on concomitant valproic acid

## VI.1.2 Table of on-going and planned studies in the Post-authorisation Pharmacovigilance Development Plan

Not applicable.

# VI.1.3 Summary of Post authorisation efficacy development plan

Not applicable.

Safety concern	Routine risk minimisation measures	Additional risk minimisation measures
Extrapyramidal symptoms	<ul><li>(Proposed) content in SPC Section:</li><li>4.2 Posology and method of administration</li></ul>	An educational program is in place by the

# VI.1.4 Summary table of Risk Minimisation Measures

	<ul> <li>Dosing schedules was different indications.</li> <li><b>4.4</b> Special warnings and precautions for use In placebo controlled clinical trials of adult patients quetiapine was associated with an increased incidence of extrapyramidal symptoms (EPS) compared to placebo in patients treated for major depressive episodes in bipolar disorder and major depressive disorder. In placebo-controlled clinical trials with children and adolescent patients, quetiapine was associated with an increased incidence of extrapyramidal symptoms (EPS) compared to placebo in patients treated for schizophrenia, bipolar disorder and major depressive disorder. In placebo-controlled clinical trials with children and adolescent patients, quetiapine was associated with an increased incidence of extrapyramidal symptoms (EPS) compared to placebo in patients treated for schizophrenia, bipolar mania and bipolar depression Caution in children and adolescents as extrapyramidal symptoms may have different implications for children and adolescents. <b>4.6</b> Fertility, pregnancy and lactation Neonates exposed to antipsychotics (including quetiapine) during the third trimester of pregnancy are at risk of adverse reactions including extrapyramidal symptoms. <b>4.8</b> Undesirable effects Listed in this section; one of the most commonly reported ADRs. <b>5.1</b> Pharmacodynamic properties Mentioning of studies. Other routine risk minimisation measures Prescription only medicine</li></ul>	originator to communicate and reinforce the core safety messages conveyed in the SmPC and PIL to increase the awareness that extrapyramidal symptoms can occur more commonly with quetiapine use in patients treated for major depressive episodes in bipolar disorder and major depressive disorder. All prescribing physicians who are expected to prescribe/use quetiapine will be distributed the educational material before the launch of Krka's product*. *if requested by the National Competent Authority
Somnolence	<ul> <li>(Proposed) content in SPC Section:</li> <li>4.2 Posology and method of administration</li> <li>Dosing schedules was different indications.</li> <li>4.4 Special warnings and precautions for use</li> <li>In clinical trials for treatment of patients with bipolar depression and major depressive disorder, onset was usually within the first 3 days of treatment and was predominantly of mild to moderate intensity. Patients</li> </ul>	An educational program is in place by the originator to communicate and reinforce the core safety messages conveyed in the SmPC and PIL to increase the awareness that
	<ul> <li>experiencing somnolence of severe intensity</li> <li>may require more frequent contact for a minimum of 2 weeks from onset of somnolence, or until symptoms improve and treatment discontinuation may need to be considered.</li> <li>4.6 Fertility, pregnancy and lactation</li> </ul>	somnolence can occur more commonly with quetiapine use in patients treated for major depressive

Weight gain	Neonates exposed to antipsychotics (including quetiapine) during the third trimester of pregnancy are at risk of adverse reactions including somnolence. <b>4.7 Effects on ability to drive and use</b> <b>machines</b> Patients should be advised not to drive or operate machinery, until individual susceptibility to this is known. <b>4.8 Undesirable effects</b> Listed in this section; one of the most commonly reported ADRs. Somnolence may occur, usually during the first two weeks of treatment and generally resolves with the continued administration of quetiapine. Other routine risk minimisation measures Prescription only medicine	episodes in bipolar disorder and major depressive disorder and that therefore quetiapine should be administered at bedtime. All prescribing physicians who are expected to prescribe/use quetiapine will be distributed the educational material before the launch of Krka's product*. *if requested by the National Competent Authority Educational
Weight gain	<ul> <li>(Proposed) content in SPC Section:</li> <li>4.4 Special warnings and precautions for use</li> <li>Warning in this section.</li> <li>4.8 Undesirable effects</li> <li>Listed in this section; one of the most commonly reported ADRs.</li> <li>5.1 Pharmacodynamic properties</li> <li>Mentioning of studies.</li> <li>Other routine risk minimisation measures</li> <li>Prescription only medicine</li> </ul>	Educational material*. *if requested by the National Competent Authority
Lipid changes (increased cholesterol (including increased LDLs), increased triglycerides, and decreased HDLs)	<ul> <li>(Proposed) content in SPC Section:</li> <li>4.4 Special warnings and precautions for use</li> <li>Warning in this section.</li> <li>4.8 Undesirable effects</li> <li>Listed in this section.</li> <li>Other routine risk minimisation measures</li> <li>Prescription only medicine</li> </ul>	Educational material*. *if requested by the National Competent Authority
Hyperglycemia and diabetes mellitus	<ul> <li>(Proposed) content in SPC Section:</li> <li>4.4 Special warnings and precautions for use</li> <li>Hyperglycaemia and/or development or exacerbation of diabetes occasionally associated with ketoacidosis or coma has</li> </ul>	Educational material*. *if requested by the National Competent Authority

	hoor non-outed non-lasting last ( ) ( )	]
	been reported rarely, including some fatal	
	cases. 4.8 Undesirable effects	
	Listed in this section.	
	Other routine risk minimisation measures	
	Prescription only medicine	
Metabolic risk factors	Proposed) content in SPC Section:	Educational
	4.4 Special warnings and precautions	material*.
	for use	*if requested by
	Changes in weight, blood glucose and lipids	the National
	are seen in clinical studies. Patients may	Competent
	experience worsening of their metabolic	Authority
	risk profile, which should be managed as	
	clinically appropriate.	
	4.8 Undesirable effects	
	Listed in this section.	
	Other routing right minimized in a second	
	Other routine risk minimisation measures	
Cerebrovascular adverse	Prescription only medicine (Proposed) content in SPC Section:	None proposed
events in the elderly patients	4.4 Special warnings and precautions	None proposed
events in the cluenty patients	for use	
	Quetiapine is not approved for the treatment	
	of dementia-related psychosis. An	
	approximately 3-fold increased risk of	
	cerebrovascular adverse events has been	
	seen in randomised placebo controlled trials	
	in the dementia population with some	
	atypical antipsychotics. Quetiapine should	
	be used with caution in patients with risk	
	factors for stroke.	
	Other routine risk minimisation measures	
Construction 1	Prescription only medicine	None 1
Cerebrovascular adverse	The relatedness of Cerebrovascular AEs in	None proposed
events in the non-elderly	the non-elderly patients to quetiapine	
patients Torsade de Pointes	administration has not been confirmed yet. (Proposed) content in SPC Section:	None proposed
Torsade de l'onnes	4.8 Undesirable effects	None proposed
	Listed in this section. Cases of QT	
	prolongation, ventricular arrhythmia,	
	sudden unexplained death, cardiac arrest	
	and torsades de pointes have been reported	
	with the use of neuroleptics and are	
	considered class effects.	
	Other routine risk minimisation measures	
	Prescription only medicine	
Ischemic heart disease	The relatedness of ischemic heart disease to	None proposed
	quetiapine administration has not been	

confirmed yet.	
The relatedness of abuse and misuse to quetiapine administration has not been confirmed vet	None proposed
Clear guidance provided in Sections <b>4.1 Therapeutic indications</b> and <b>4.2 Posology and method of administration</b> Other routine risk minimisation measures	None proposed
<ul> <li>(Proposed) content in SPC Section:</li> <li>4.2 Posology and method of administration</li> <li>Quetiapine should be used with caution in elderly patients, especially during the initial dosing period. The rate of dose titration may need to be slower, and the daily therapeutic dose lower, than that used in younger patients. The mean plasma clearance of quetiapine was reduced by 30% to 50% in elderly patients when compared to younger patients.</li> <li>5.1 Pharmacodynamic properties Data on studies in the elderly.</li> <li>5.2 Pharmacokinetic properties The mean clearance of quetiapine in the elderly is approximately 30 to 50% lower than that seen in adults aged 18 to 65 years.</li> </ul>	None proposed
<ul> <li>(Proposed) content in SPC Section:</li> <li>4.6 Fertility, pregnancy and lactation The safety and efficacy of quetiapine during human pregnancy have not yet been established. Quetiapine should only be used during pregnancy if the benefits justify the potential risks. Neonatal withdrawal symptoms were observed after exposures during the third trimester of pregnancy. There have been published reports of quetiapine excretion into human breast milk. Women who are breast-feeding should therefore be advised to avoid breast-feeding while taking quetiapine. 4.8 Undesirable effects Drug withdrawal syndrome neonatal is listed in this section. </li> </ul>	None proposed
	<ul> <li>The relatedness of abuse and misuse to quetiapine administration has not been confirmed yet.</li> <li>Clear guidance provided in Sections</li> <li>4.1 Therapeutic indications and</li> <li>4.2 Posology and method of administration</li> <li>Other routine risk minimisation measures Prescription only medicine</li> <li>(Proposed) content in SPC Section:</li> <li>4.2 Posology and method of administration</li> <li>Quetiapine should be used with caution in elderly patients, especially during the initial dosing period. The rate of dose titration may need to be slower, and the daily therapeutic dose lower, than that used in younger patients. The mean plasma clearance of quetiapine was reduced by 30% to 50% in elderly patients when compared to younger patients.</li> <li>5.1 Pharmacodynamic properties</li> <li>Data on studies in the elderly.</li> <li>5.2 Pharmacokinetic properties</li> <li>The mean clearance of quetiapine in the elderly is approximately 30 to 50% lower than that seen in adults aged 18 to 65 years.</li> <li>Other routine risk minimisation measures Prescription only medicine</li> <li>(Proposed) content in SPC Section:</li> <li>4.6 Fertility, pregnancy and lactation</li> <li>The safety and efficacy of quetiapine during human pregnancy have not yet been established. Quetiapine should only be used during pregnancy if the benefits justify the potential risks. Neonatal withdrawal symptoms were observed after exposures during the third trimester of pregnancy. There have been published reports of quetiapine excretion into human breast milk. Women who are breast-feeding should therefore be advised to avoid breast-feeding while taking quetiapine.</li> <li>4.8 Undesirable effects</li> <li>Drug withdrawal syndrome neonatal is listed in this section.</li> </ul>

Use in patients on	(Proposed) content in SPC Section:	None proposed
concomitant cardiovascular	4.5 Interaction with other medicinal	1 1
medications	products and other forms of	
	interaction	
	Formal interaction studies with commonly	
	used cardiovascular medicinal products	
	have not been performed.	
	Other routine risk minimisation measures	
	Prescription only medicine	
Use in patients on	(Proposed) content in SPC Section:	None proposed
concomitant valproic acid	4.5 Interaction with other medicinal	
	products and other forms of	
	interaction	
	The pharmacokinetics of sodium valproate	
	and quetiapine were not altered to a	
	clinically relevant extent when co-	
	administered. A retrospective study of	
	children and adolescents who received	
	valproate, quetiapine, or both, found a	
	higher incidence of leucopenia and	
	neutropenia in the combination group	
	versus the monotherapy groups.	
	Other routine risk minimisation measures	
	Prescription only medicine	

# VI.2 Elements for a public summary

# VI.2.1 Overview of disease epidemiology

Incidence and prevalence of target indication	schizophrenia Schizophrenia is a <u>mental disorder</u> characterized by a breakdown of <u>thought</u> processes and by impaired <u>emotional</u> responses. Common <u>symptoms</u> are <u>delusions</u> including <u>paranoia</u> and <u>auditory hallucinations</u> , <u>disorganized thinking</u> reflected in speech, and a lack of <u>emotional intelligence</u> . It is accompanied by significant social or <u>vocational</u> dysfunction. The onset of symptoms typically occurs in young adulthood, with a global lifetime <u>prevalence</u> of about 0.3–0.7%. Diagnosis is based on observed behavior and the patient's reported experiences.
	bipolar disorder; moderate to severe manic episodes Bipolar disorder, also known as bipolar affective disorder, manic-depressive disorder, or manic depression, is a <u>mental</u> <u>illness</u> classified by <u>psychiatry</u> as a <u>mood disorder</u> . Individuals with bipolar disorder experience episodes of an elevated or agitated mood known as <u>mania</u> alternating with <u>episodes of</u> <u>depression</u> . 2.4 percent of the world's population may have some

form of the disease.

Mania can occur with different levels of severity. At milder levels of mania, known as <u>hypomania</u>, individuals appear energetic, excitable, and may be highly productive. As mania becomes more severe, individuals begin to behave erratically and impulsively, often making poor decisions due to unrealistic ideas about the future, and may have great difficulty with sleep. At the most severe level, individuals can experience very distorted beliefs about the world known as <u>psychosis</u>.

bipolar disorder; major depressive episodes

2.4 percent of the world's population may have some form of bipolar disorder.

Signs and symptoms of the <u>depressive phase</u> of bipolar disorder include persistent feelings of <u>sadness</u>, <u>anxiety</u>, <u>guilt</u>, <u>anger</u>, <u>isolation</u>, or <u>hopelessness</u>; disturbances in sleep and appetite; fatigue and loss of interest in usually enjoyable activities; problems concentrating; loneliness, self-loathing, apathy or indifference; <u>depersonalization</u>; loss of interest in sexual activity; shyness or <u>social anxiety</u>; irritability, chronic pain (with or without a known cause); lack of motivation; and morbid suicidal thoughts. In severe cases, the individual may become <u>psychotic</u>, a condition also known as severe bipolar depression with psychotic features. These symptoms include <u>delusions</u> or, less commonly, <u>hallucinations</u>, usually unpleasant. A major depressive episode persists for at least two weeks, and may continue for over six months if left untreated.

<u>Prevention of recurrence in patients with bipolar disorder, in patients whose manic, mixed or depressive episode has responded to quetiapine treatment</u>

A naturalistic study from first admission for mania or mixed episode (representing the hospitalized and therefore most severe cases) found that 50% achieved syndromal recovery (no longer meeting criteria for the diagnosis) within six weeks and 98% within two years. Within two years, 72% achieved symptomatic recovery (no symptoms at all) and 43% achieved functional recovery (regaining of prior occupational and residential status). However, 40% went on to experience a new episode of mania or depression within 2 years of syndromal recovery, and 19% switched phases without recovery.

Add-on treatment of major depressive episodes in patients with Major Depressive Disorder (MDD) who have had sub-optimal response to antidepressant monotherapy

Major depressive disorder (MDD) is a <u>mental disorder</u> characterized by a pervasive and persistent <u>low mood</u> which is accompanied by low <u>self-esteem</u> and by a <u>loss of interest or</u>

<u>pleasure</u> in normally enjoyable activities. Major depressive disorder is a disabling condition that adversely affects a person's family, work or school life, sleeping and eating habits, and general health. It is believed to currently affect approximately 298 million people as of 2010 (4.3% of the global population). Lifetime prevalence varies widely, from 3% in Japan to 17% in the US. In the United States, around 3.4% of people with major depression commit <u>suicide</u>, and up to 60% of people who commit suicide had depression or another mood disorder.

## VI.2.2 Summary of treatment benefits

Clinical studies show that patients can be switched to and from quetiapine without much difficulty. Quetiapine's efficacy is clearly superior to that of placebo, is similar to that of haloperidol or chlorpromazine, and appears to have similar efficacy to risperidone and olanzapine. It has a benign side-effect profile, particularly regarding to extrapyramidal symptoms and therefore good compliance is expected. Generally quetiapine is considered a safe drug.

Although quetiapine was introduced as an atypical antipsychotic drug with clinical efficacy in schizophrenic patients, there is also new evidence from studies regarding its efficacy in treating mood disorders (bipolar disorder). To date, quetiapine has demonstrated efficacy in both acute mania and bipolar depression, with a safety and tolerability profile superior to other medications in its class.

Quetiapine has also demonstrated efficacy in treating bipolar disorder in paediatric and geriatric populations. Quetiapine has been examined in children and adolescents in randomized clinical trials, open-label studies and several chart review studies. Most studies indicate that quetiapine is effective and well tolerated in paediatric population.

Also, in long-term studies (up to 2 years treatment) evaluating recurrence prevention in patients with manic, depressed or mixed mood episodes quetiapine was superior to placebo in increasing the time to recurrence of any mood event (manic, mixed or depressed), in patients with bipolar I disorder.

Also, two short-term (6 week) studies enrolled patients who had shown an inadequate response to at least one antidepressant. Quetiapine prolonged release 150 mg and 300 mg/day, given as add-on treatment to ongoing antidepressant therapy demonstrated superiority over antidepressant therapy alone in reducing depressive symptoms.

# VI.2.3 Unknowns relating to treatment benefits

Not applicable. This is a generic application.

# VI.2.4 Summary of safety concerns

Risk	What is known	Preventability
<safety concern="" in="" lay<br="">language (medical term)&gt;</safety>	<brief in="" lay<br="" summary="">language&gt;</brief>	<whether be<br="" can="" risk="">minimised or mitigated, and how&gt;</whether>
Abnoramal muscle movement/symptoms similar to Parkinson's disease	In placebo controlled clinical trials of adult patients quetiapine was	Extrapyramidal symptoms include difficulty starting muscle movements, shaking,

#### Important identified risks

Risk	What is known	Preventability
(Extrapyramidal symptoms)	associated with an increased incidence of extrapyramidal symptoms (EPS) compared to placebo in patients treated for major depressive episodes in bipolar disorder.	feeling restless or muscle stiffness without pain and other symptoms similar to Parkinson's disease.
Feeling sleepy (Somnolence)	Quetiapine treatment has been associated with feeling sleepy (somnolence) and related symptoms, such as sedation. In clinical trials for treatment of patients with bipolar depression, the onset was usually within the first 3 days of treatment and was predominantly of mild to moderate intensity. In patients experiencing somnolence of severe intensity discontinuation of quetiapine may need to be considered.	Feeling sleepy (this may go away with time) (may lead to falls); however, in more severe cases discontinuation of quetiapine may need to be considered.
Weight gain	Weight gain has been reported in patients who have been treated with quetiapine, and should be monitored and managed as clinically appropriate.	Weight gain has been seen in patients taking quetiapine. The patient and his/her doctor should check the patient's weight regularly.
Changes/increases in the content of certain fats in blood (Lipid changes (increased cholesterol (including increased LDLs), increased triglycerides, and decreased HDLs))	Changes/increases in the content of certain fats in blood (Increases in triglycerides, LDL cholesterol and total cholesterol, and decreases in HDL cholesterol) have been observed in clinical trials with quetiapine. Lipid changes should be managed as clinically appropriate.	The doctor may weigh the patient and may be checking for certain fats in the blood while the patient is receiving quetiapine therapy.
Increases in blood sugar (Hyperglycemia) and diabetes mellitus	Increases in blood sugar (Hyperglycaemia) and/or development or exacerbation of diabetes occasionally associated with a very severe consequences, called ketoacidosis or coma, has been reported rarely, including some fatal cases. In some cases, a prior increase in body weight has	Before taking the medicine, the doctor needs to be told if the patient has diabetes or a risk of getting diabetes. If this is the case, the doctor may check the patient's blood sugar levels while the patient is taking quetiapine.

Risk	What is known	Preventability
Risk factors that make you prone to gain weight, develop diabetes and increase the content of different fats in blood (Metabolic risk factors)	been reported which may be a predisposing factor. Given the observed changes in weight, blood glucose and lipids seen in clinical studies, patients (including those with normal baseline values) may experience worsening of their metabolic risk profile, which should be	The doctor may weigh the patient and may be checking his/her blood sugar and certain fats in his/her blood while the patient is taking quetiapine.
	managed as clinically appropriate.	

### Important potential risks:

Important potential risks:	
Risk	What is known (Including reason why it is considered a potential risk)
Stroke in elderly patients (Cerebrovascular adverse events in the elderly)	An approximately 3-fold increased risk of cerebrovascular adverse events has been seen in randomised placebo controlled trials in the dementia population with some atypical antipsychotics. The mechanism for this increased risk is not known. An increased risk cannot be excluded for other antipsychotics or other patient populations. Quetiapine should be used with caution in patients with risk factors for stroke.
Stroke in non-elderly patients (Cerebrovascular adverse events in the non-elderly patients)	As some cases have been identified, this adverse event is considered a potential risk.
Life-threatening arrhythmia (Torsade de Pointes)	Neuroleptics have been associated with the development of various life-threatening arrhythmias (such as QT-prolongation, ventricular arrhythmia, sudden unexplained death, cardiac arrest and torsades de pointes), which can lead to sudden death. This is considered a class effect.
Heart disease caused by a decrease in blood perfusion (Ischemic heart disease)	As some cases have been identified, this adverse event is considered a potential risk.
Abuse and misuse	As some cases have been identified, this adverse event is considered a potential risk.
Potential for using the drug different than what it is intended for (Potential for off label use and misdosing)	There is clear guidance provided on the usage of quetiapine. However, there have been cases when quetiapine has been used for indications and at dosages it is not approved for.
Use in elderly patients	The mean plasma clearance of quetiapine was reduced by 30% to 50% in elderly patients when compared to younger patients. Therefore, quetiapine should be used with caution in elderly patients, especially during the initial dosing period. The rate of dose titration may need to be slower, and the daily therapeutic dose lower, than that used in younger patients.

# Important missing information

Risk	What is known
Use in pregnant or breast feeding women	<u>Pregnancy</u> : The safety and efficacy of quetiapine during human pregnancy have not yet been established. Up to now there are no indications for harmfulness in animal tests, possible effects on the foetal eye have not been examined, though. Therefore, quetiapine should only be used during pregnancy if the benefits justify the potential risks. Following pregnancies in which quetiapine was used, neonatal withdrawal symptoms were observed.
	Neonates exposed to antipsychotics (including quetiapine) during the third trimester of pregnancy are at risk of adverse reactions including extrapyramidal and/or withdrawal symptoms that may vary in severity and duration following delivery. There have been reports of agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, or feeding disorder. Consequently, newborns should be monitored carefully.
	Breast-feeding: There have been published reports of quetiapine excretion into human breast milk, however the degree of excretion was not consistent. Women who are breast-feeding should therefore be advised to avoid breast-feeding while taking quetiapine.
	If the patient is pregnant or breast-feeding, thinks she may be pregnant or is planning to have a baby, she needs to ask her doctor or pharmacist for advice before taking this medicine. The patient should not take quetiapine during pregnancy unless this has been discussed with her doctor. Quetiapine should not be taken if the patient is breast-feeding. The following symptoms may occur in newborn babies, of mothers that have used quetiapine in the last trimester (last three months of their pregnancy): shaking, muscle stiffness and/or weakness, sleepiness, agitation, breathing problems, and difficulty in feeding. If the patient's baby develops any of these symptoms the patient may need to contact her doctor.
Use in patients on concomitant cardiovascular medications	Formal interaction studies with commonly used cardiovascular medicinal products have not been performed.
Use in patients on concomitant valproic acid	The pharmacokinetics of sodium valproate and quetiapine were not altered to a clinically relevant extent when co- administered. A retrospective study of children and adolescents who received valproate, quetiapine, or both, found a higher incidence of leukopenia and neutropenia in the combination group versus the monotherapy groups.

## VI.2.5 Summary of additional risk minimisation measures by safety concern

The following additional risk minimisation measures are considered necessary.

#### Risk: Weight gain

#### Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that weight gain can occur with quetiapine use and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures:

HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*.

\*if requested by the National Competent Authority.

**Risk:** Lipid changes (increased cholesterol (including increased LDLs), increased triglycerides, and decreased HDLs)

Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that lipid changes (increased cholesterol, increased triglycerides, or decreased HDLs) can occur with quetiapine use and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures:

HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*.

\*if requested by the National Competent Authority

#### **Risk: Hyperglycemia and diabetes mellitus**

## Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that

hyperglycemia and diabetes mellitus can occur with quetiapine use and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures:

HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*.

\*if requested by the National Competent Authority.

#### **Risk: Metabolic risk factors**

#### Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that metabolic risk factorscan occur with quetiapine use and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures: HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*. \*if requested by the National Competent Authority.

## **Risk: Extrapyramidal symptoms**

## Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that extrapyramidal symptoms can occur with quetiapine use in patients treated for major depressive episodes in bipolar disorder and major depressive disorder and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures:

An educational program is in place by the originator to communicate and reinforce the core safety messages conveyed in the SmPC and PIL.

HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*.

\*if requested by the National Competent Authority.

#### **Risk: Somnolence**

#### Risk minimization measure: Healthcare Professional education

Objective and rationale:

To inform all prescribing physicians, prior to launch of quetiapine by Krka, that somnolence can occur with quetiapine use in patients treated for major depressive episodes in bipolar disorder and major depressive disorder and that patients need to be counseled, monitored and treated accordingly.

Main additional risk minimization measures:

An educational program is in place by the originator to communicate and reinforce the core safety messages conveyed in the SmPC and PIL.

HCP educational materials to be provided to all prescribing physicians prior to launch of Quetiapine by Krka\*.

\*if requested by the National Competent Authority.

# VI.2.6 Planned post authorisation development plan (if applicable)

Not applicable. No postauthorisation studies are planned.