#### VI.2 Elements for a public summary

## VI.2.1 Overview of disease epidemiology

# Chemotherapy Induced Nausea and Vomiting (CINV):

Patients frequently cite nausea and vomiting as being among the most unpleasant and distressing side effects of chemotherapy (a treatment of cancer). Cancer patients who were scheduled for their first cycle of a new chemotherapy regimen were recruited. Chemotherapyinduced nausea and vomiting can be broadly categorized as acute (occurring within 24 hours of therapy), delayed (persisting for 6-7 days after therapy), or anticipatory (occurring prior to chemotherapy administration). One hundred fifty-one patients provided information for at least one cycle. During cycle 1, only 33% had neither acute nor delayed CINV. Of the 36% patients who developed acute CINV, 8% developed acute CINV only. Of the 59% who developed delayed CINV, 53% reported delayed only and 47% reported acute and delayed CINV. Chemotherapy-induced nausea and vomiting (CINV) may occur within hours of the administration of chemotherapy medicines (acute, i.e., of short duration), or their appearance may be delayed until after the first 24 h (delayed), and may persist for several days. Female patients and younger patients are at greater risk of developing nausea and vomiting following cancer chemotherapy. Inadequately-controlled CINV can cause a number of medical complications that may prove life-threatening, including dehydration and electrolyte imbalance, or cause physical damage. These complications may lead to extended hospitalization.

## VI.2.2 Summary of treatment benefits

Pivotal clinical studies were not conducted for evaluating effective and safe use of Palonosetron hydrochloride QILU 250 micrograms solution for injection, considering this is a generic medicine (generic medicine means a medicine that is developed to be the same as a reference medicine that has already been authorized). The available medical literature is considered sufficient to evaluate the safety of palonosetron in the proposed therapeutic indication for Palonosetron hydrochloride QILU 250 micrograms solution for injection.

#### VI.2.3 Unknowns relating to treatment benefits

The safety and efficacy of palonosetron in children aged less than 1 month have not been established. There are no data available on the drug's effects on fertility or use in patients with end-stage renal disease undergoing haemodialysis.. There is no experience of palonosetron in human pregnancy. It is not known if palonosetron is found in breast milk.

#### VI.2.4 Summary of safety concerns

### Important identified risks:

Risk	What is known	Preventability
Severe constipation	Cases of constipation	Yes, the patient should talk
	following use of	to the treating physician or
	palonosetron have been	pharmacist before using
	reported commonly. Two	palonosetron if he or she has
	cases of constipation	acute bowel obstruction or a
	requiring hospitalization	history of repeated
	have been reported in	constipation.
	association with palonosetron	
	750 micrograms.	
Allergy problems (Severe	Allergic reactions to	Yes, the patient should not
hypersensitivity reactions)	palonosetron have been	use palonosetron
	reported very rarely.	hydrochloride if he or she is
		allergic to palonosetron or
		any of the other ingredients
		of palonosetron
		hydrochloride solution for

# Important potential risks:

Risk	What is known	
Alterations in heart rhythm -	Electrocardiogram abnormalities like QT/QTc prolongation	
QT/QTc prolongation	have been reported with palonosetron use during clinical	
(Electrocardiogram QT/QTc	trials; however, these abnormalities were not considered	
prolonged)	clinically relevant. The patient should talk to the treating	
	physician or pharmacist before using palonosetron	
	hydrochloride if he or she has a personal or family history of	
	alterations in QT/QTc prolongation or other heart problems,	
	or if he or she has an imbalance of certain minerals in the	
	blood, such as potassium and magnesium, which has not	
	been treated.	
A reaction called serotonin	There have been reports of serotonin syndrome with the use	
syndrome showing symptoms	of 5-HT <sub>3</sub> antagonist types of medicines, to which	
like increased heart beats,	palonosetron belongs, either alone or in combination with	
shivering, sweating, dilated	other medicines called serotonergic drugs.	
pupils, jerking or twitching,		
etc.	The patient should tell the treating physician or pharmacist if	
(Serotonin syndrome)	he or she is taking, has recently taken or might take any other	
	medicines, including SSRIs (selective serotonin reuptake	

Risk	What is known	
	inhibitors) used to treat depression and/or anxiety including fluoxetine, paroxetine, sertraline, fluvoxamine, citalopram, escitalopram; or SNRIs (serotonin noradrenaline reuptake inhibitors) used to treat depression and/or anxiety including venlafaxine, duloxetine.  Appropriate observation of patients for serotonin syndromelike symptoms is advised.	
Convulsions	There have been reports of serotonin syndrome with the u of 5-HT3 antagonist types of medicines, to which palonosetron belongs, either alone or in combination with other medicines called serotonergic drugs.	
	Appropriate observation of patients for serotonin syndrome- like symptoms is advised.	

# Missing information:

Risk	What is known	
Use in children aged less than 1 month (potential off-label use for CINV prevention)		
Use during pregnancy		

Risk	What is known	
Use in breast-feeding	It is not known if palonosetron is found in breast milk. The	
	female patient should ask the treating physician or	
	pharmacist for advice before using palonosetron if she is	
	breast-feeding.	
Effects on fertility	There are no data available on the effect of palonosetron on	
	fertility.	
Use in patients with end-	There are no data available on the effect of palonosetron in	
stage renal disease	patients with end-stage renal disease undergoing	
undergoing haemodialysis	haemodialysis.	

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

The Summary of Product Characteristics (SmPC) of Palonosetron hydrochloride QILU 250 micrograms solution for injection provides physicians, pharmacists and other health care professionals with details on how to use the medicine and the risks and recommendations for minimising them. An abbreviated version of this in lay language is provided in the form of the package leaflet (PIL). All these risk minimization measures are given in the SmPC and PIL of Palonosetron hydrochloride QILU 250 micrograms solution for injection.

No additional risk minimization measures have been proposed for this generic medicine.

#### VI.2.6 Planned Post-Authorisation Development Plan

No post-authorisation study is planned for this product.

VI.2.7 Summary of changes to the risk management plan over time

Version	Date (dd-mm-yyyy)	Safety Concerns	Comment
02	05 Jan 2016	Some safety concerns	As per the agency
		have been updated.	suggestions