VI.2 Elements for a Public Summary

VI.2.1 Overview of disease epidemiology

Acute pain usually responds to medication and should settle in less than three months. Inadequate pain relief may lead to other complications such as increased blood coagulation, impaired immunity, infections, and others. Inadequately controlled acute pain can be a factor in the development of chronic pain, extended hospital stay, readmission, and patient dissatisfaction.

Acute pain accounts for a plethora of in-patients visits as in the United States of America in 2006, pain was a frequent complaint amongst emergency department visits and pain severity was reported as moderate to severe by 45% of patients in the emergency room. Acute pain is successfully treated with paracetamol, non-steroidal anti-inflammatory drugs, aspirin, or opioid analgesics such as hydrocodone, codeine, tramadol, morphine etc. (41)

Fever is a marker for disease activity in many infectious and inflammatory disorders (reactions include swelling, pain, redness and heat). Fever can also be a response to trauma and injury. Patients with the highest fever tend to have the highest mortality (death) rate. Unfortunately, studies involving people with fever are completely uncontrolled. The antipyretics (medicine that reduces fever) in common use today include paracetamol, acetylsalicylic acid (aspirin) and other NSAIDs. However, antipyretics, by reducing fever, may hide the usual signs of infection.

VI.2.2 Summary of treatment benefits

When it comes to pain intensity and the need for more painkillers, studies with paracetamol/NSAID combinations versus paracetamol, or other NSAIDs have shown that the combination of paracetamol and NSAID was more effective than paracetamol or NSAID alone in 85% and 64% of studies. The pain intensity and the need for extra painkillers was less for both the combination versus paracetamol group and the combination versus NSAID group. Thus, current evidence suggests that a combination of paracetamol and NSAID may offer superior relief of pain than either drug alone.

In a review of studies on the effects of paracetamol, NSAIDs or their combination in management of pain after operation, it was concluded that it may be appropriate to combine the two drugs, as the combination can give additional effect on pain relief compared with either drug alone. However, many of these studies included fewer than 100 patients and they covered a range of surgical indications [37].

VI.2.3 Unknowns relating to treatment benefits

According to the SmPC, there is limited information regarding paracetamol/ibuprofen use in pregnancy, bread-feeding, hepatic impairment, renal impairment, children below age of 12, etc.

VI.2.4 Summary of safety concerns

Important identified risks

Risk What is known Preventability		Preventability	
Severe allergic	Allergic reactions have been	Patients with previous allergic	
reactions, including in	reported with both active ingredients.	reactions to either component of	
patients with asthma	These range from mild reactions	the product should not be	
(Hypersensitivity and	such as skin eruptions, to life-	administered this product.	
severe skin reactions	threatening events.	Patients who have experienced	
including anaphylactic	Patients diagnosed with asthma,	asthma attacks or other allergic	
reactions and	urticaria and other allergies after	reactions following	
bronchospasm in	taking NSAIDs or aspirin are more	administration of ibuprofen or	
patients with asthma).	predisposed to skin reactions or	aspirin should not take this	
	respiratory manifestations when	medicinal product.	

Risk	What is known	Preventability
	administered	
	paracetamol/ibuprofen.	
Liver damage (Hepatotoxicity)	Both active drugs have been reported to cause liver damage and even liver failure, especially paracetamol. In severe poisoning with paracetamol, liver failure may proceed to brain disease, coma and death. Severe liver reactions, including yellowing of the skin or whites of the eyes and cases of fatal inflammation of the liver, though rare, have been reported with ibuprofen as with other anti-inflammatory medication.	Yes, by avoiding intake of paracetamol above the daily recommended dose. Patients should be advised not to take other paracetamol containing or ibuprofen containing products concurrently. Patients diagnosed with liver dysfunction should be observed closely by the prescriber on long term treatment with the medicinal treatment.
Stomach ulcers and bleeding (Peptic ulceration and gastrointestinal bleeding)	Stomach ulcers, bleeding or perforation have been described with anti-inflammatory drugs. The risks increase with dose and duration of treatment, and are more common in patients over the age of 65 years. Some patients will experience indigestion, heartburn, nausea, stomach pain or diarrhoea. These risks are minimal when this product is used at the prescribed dose for a few days. The product should be discontinued if there is any evidence of bleeding from the stomach.	Yes, products containing ibuprofen should not be used in patients with a history of stomach bleeding or ulcer since their condition may be worsened.
Kidney damage (Nephrotoxicity)	The medicinal product should be administered carefully in patients with impaired kidney function or kidney disease. Patients with renal disorders and undergoing treatment with the medicinal product should be closely observed by the doctor. The use of the medicinal product with other medications can worsen renal function. These include certain medications used to treat high blood pressure, certain anti-inflammatory drugs such as corticosteroids, certain analgesics, and drugs that suppress the immune response such as ciclosporin, tacrolimus and methotrexate.	Yes, the dose should be kept as low as possible and kidney function should be monitored in patients with kidney impairment, liver impairment or impairment related to the heart.

Risk	What is known	Preventability
	This medicinal product is not indicated in patients with severe liver disease.	
High blood pressure (Hypertension)	The medicinal product can cause high blood pressure or worsen pre-existing high blood pressure. The product should be given with care in patients diagnosed with hypertension (high blood pressure).	Blood pressure should be monitored upon starting treatment and at regular intervals thereafter
Cardiac, cardiovascular and cerebrovascular effects	The use of the medication can predispose to heart attacks or stroke especially when administered at high doses and for a long time. Patients at risk include those already diagnosed with heart or vascular disease.	The product should not be used in patients with heart failure or bleeding in the brain. The medicinal product should be used at the lowest effective dose and for the shortest duration of time.
Severe acute deficiency in blood cells such as neutrophils, platelets etc. (Agranulocytosis and other blood dyscrasia).	The product can cause lower than normal levels of certain blood cells such as neutrophils or platelets causing susceptibility to infection or a tendency to bleed.	The product should not be administered to patients with bleeding disorders.
Interaction with other pain-killers, namely non-steroidal anti-inflammatory agents (Interaction with other NSAIDs)	The medicinal product should not be given altogether with medication of the same pharmaceutical class due to increased risk of adverse drug reactions, especially bleeding and gastro-intestinal reactions.	Patients should not take the product with other non-steroidal anti-inflammatory drugs.
Use of the product together with medicine for lowering the blood pressure (Concomitant administration of antihypertensives (e.g., ACE inhibitors, beta-blockers and diuretics))	The use of drugs for lowering blood pressure (an ACE inhibiting drug and a thiazide diuretic) and an anti-inflammatory drug such as ibuprofen at the same time increases the risk of kidney impairment. The combination of drugs from these three classes should be used with care particularly in elderly patients or those with pre-existing kidney impairment.	Yes, combined use of these medications should be accompanied by close observation/monitoring of renal function.
Interaction with methotrexate leading to increased methotrexate toxicity.	Administration of the medicinal product with methotrexate, a medication employed in the treatment of rheumatoid arthritis may lead to increased methotrexate accumulation within the body and increased toxicity.	Patients should not take both medications at the same time.
Interaction with lithium leading to increased lithium toxicity	Administration of the medicinal product with lithium, a medication employed in the treatment of certain nervous system disorders may lead	Patients should not take both medications simultaneously.

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Important potential risks

Risk	What is known (Including reason why it is considered a	
	potential risk)	
Off label use in children less than 18 years of age	Effects of the medicinal product in children younger than 18 years of age have not been studied. The outcomes of such therapy are unknown, therefore it is not recommended to be used in this paediatric population.	
Impairment of female fertility	The product may impair fertility in women of child bearing age. The product may interfere with fertility investigations or fertility treatments.	

Missing information

Risk	What is known
Safety during the first six	Effects of paracetamol/ibuprofen have not been studied in the
months of pregnancy and first two trimesters of pregnancy and breastfeeding thus t	
breastfeeding	medicinal product is not recommended in this special population.

VI.2.5 Summary of risk minimisation measures by safety concern

All medicines have a Summary of Product Characteristics (SmPC) which provides physicians, pharmacists and other health care professionals with details on how to use the medicine, the risks and recommendations for minimising them. An abbreviated version of this in lay language is provided in the form of the package leaflet (PL). The measures in these documents are known as routine risk minimisation measures.

This medicine has no additional risk minimisation measures.

VI.2.6 Planned post authorisation development plan

No post-authorisation safety or efficacy studies are ongoing or are planned to be conducted for paracetamol/ibuprofen.

VI.2.7 Summary of changes to the Risk Management Plan over time

Major changes to the Risk Management Plan over time

Major changes to the Risk Management Plan over time			
Version	Date	Safety Concerns	Comment
1.0	06-02- 2014	 Identified risks: Hepatotoxicity at high doses Nephrotoxicity Concomitant administration of antihypertensives (e.g., ACE inhibitors, betablockers and diuretics) Prolonged bleeding time Peptic ulceration and gastrointestinal bleeding Severe skin reactions Medication overuse headache Potential risks: Cardiovascular thrombotic events Missing information: Off label use in children younger than 12 years 	
1.1	28-08- 2014	 Identified risks: Hepatotoxicity at high doses Nephrotoxicity Concomitant administration of antihypertensives (e.g., ACE inhibitors, betablockers and diuretics) Prolonged bleeding time Peptic ulceration and gastrointestinal bleeding Severe skin reactions Medication overuse headache 	Some administrative changes made to version number 1.1. Procedure number UK/H/5679/01/DC has been excluded.

Version	Date	Safety Concerns	Comment
3.0	22-06-	No changes	Lay language
	2015		section updated
			as requested by
			the assessor
			PI updates
			rendered
			consequential
			changes
			throughout the
			RMP