VI.2 Elements for a Public Summary

VI.2.1 Overview of disease epidemiology

Sudden pain is an unpleasant sensation resulting from physical hurt caused by injuries of the body, illness or emotional illness. Despite the fact that is uncomfortable, it has an useful purpose, to reduce spreading the wound, challenging the organism to keep off harmful stimulus. Sudden pain is short-term pain, usually passing away when the injury heals. Wrong treatment or untreated pain can lead to changes in the entire body: rapid breathing, racing heartbeat, compromise of circulation and tissue metabolism, raised activity of nerves, decrease of the body's immune system.

Efficient treatment must consider the cause, duration and intensity of pain and heal pain in order to keep the patient as comfortable as possible. (1)

Sudden pain is an ordinary experience in the general population and has no specific cause.

VI.2.2 Summary of treatment benefits

The efficacy of paracetamol/codeine in the treatment of sudden pain due to different causes (multiple trauma, arthritis pain in the hip or knee, different surgical operations) combination (100/60mg or 500/30mg) was analysed in three studies versus ketorolac (10 mg, 60 patients), tramadol/paracetamol (37.5/325mg-122 patients) and buprenorphine (patches 5- 25μ m/h-220 patients). No differences concerning adverse reaction or efficacy were observed between paracetamol/codeine groups and the other drugs evaluated. (2)

One study was conducted in order to evaluate the efficacy of paracetamol/codeine (1mg/kg/dose) versus ibuprofen (10mg/kg) in the treatment of sudden pain in 336 children. There were not found significant differences between the efficacy of the used drugs, but children receiving ibuprofen reported fewer side effects.

Another two comparative studies were conducted to evaluate the efficacy of paracetamol/codeine (300/30mg) versus aspirin (1000mg) and placebo (inactive substance) in treatment of sudden pain. No significant differences were found between aspirin and paracetamol with codeine efficacy, but both drugc provided superior results versus placebo.

The efficacy of paracetamol/codeine (325/30 mg) was analyzed in patients with sudden pain compared to paracetamol/ibuprofen (1000/400mg) and paracetamol 1000mg. Paracetamol/ibuprofen had superior results compared to the other groups. (2)

VI.2.3 Unknowns relating to treatment benefits

Based on the currently available data, no gaps in knowledge about efficacy in the target population were identified, that would warrant post-authorisation efficacy studies. Furthermore, there is no evidence to suggest that treatment results would be different in any subgroup of the target population, for acute moderate to severe pain, taking into account factors such as age, sex, race or organ impairment.

important identified fisks		
Risk	What is known	Preventability
Headache caused by use of	Where analgesics are used	The duration of treatment
medicines in higher doses	long-term (> 3 months) with	should be limited to 3 days
than recommended and for	administration every two	and if no effective pain relief
longer periods of time	days or more frequently,	is achieved the patients
0	headache may develop or	should seek doctor's advice.
(Medication overuse head-	worsen. Headache induced	
ache)	by overuse of painkillers	
,	(medication-overuse head-	
	ache) should not be treated	
	by dose increase. In such	
	cases, the use of painkillers	
	should be discontinued in	
	consultation with the doctor.	
Use of higher doses than	Ingestion of 7.5 g or more of	Recommended doses of pa-
recommended	paracetamol in adults may	racetamol/codeine should not
	result in abnormalities of glu-	be overtaken.
(Overdose)	cose metabolism. sudden	
()	kidney damage, irreversible	
	liver damage, coma and	
	death.	
	Use of higher doses of co-	
	deine than recommended	
	may lead to reduced nervous	
	activity, and breathing prob-	
	lems.	
Allergies	Allergy symptoms to parace-	Patients allergic to codeine
0	tamol/codeine include rash	or paracetamol, patients suf-
(Hypersensitivity)	and breathing problems,	fering from severe asthma
	swelling of the legs, arms,	attacks or severe breathing
	face, throat or tongue.	problems should not use this
		product.
Blood disorders: reduction in	Paracetamol should be used	Paracetamol/codeine should
blood platelets, which in-	with caution in patients with a	be used with caution in pa-
crease the risk of bleeding or	medical history of red cell	tients with anaemia (reduced
bruising and severe reduc-	membrane and haemoglobin	number of red blood cells
tion in number of white blood	abnormalities, glucose-6	which can make the skin pale
cells which makes infections	phosphate dehydrogenase	and cause weekness and
more likely	deficiency and anaemia.	breathlessness)
-		,
(Blood dyscrasias (thrombo-		
cytopenia and agranulocyto-		
sis))		
Use in patients suffering from	Codeine may allow accumu-	Paracetamol/codeine should
condition which causes sud-	lation of secretions in the	not be used in patients suf-
den narrowing of the airwavs	lungs, blocking the airways.	fering from condition which
÷ ,		causes sudden narrowing of
(Patients with acute asthma)		the airways or breathing
- /		problems.
Use in patients with breath-	In patients suffering from tis-	Paracetamol/codeine should
ing problems	sue oxygen deficiency. ex-	not be used in patients suf-

VI.2.4 Summary of safety concerns Important identified risks

Risk	What is known	Preventability
(Patients with respiratory de- pression)	cess of carbon dioxide in the blood or blocked upper air- ways, normal therapeutic doses may decrease breath- ing capacity.	fering from condition which causes sudden narrowing of the airways or breathing problems.
Use in elderly	Codeine in older people may have several side effects as over-drowsiness, constipa- tion, bowel blockage, fall and fracture, breathing problems, urine retention. Also, older patients may be taking more drugs that may act in such way as to have an effect on another.	Paracetamol/codeine should not be used in the elderly.
Patients who recently con- sumed alcohol	Paracetamol and alcohol may interact on each other, because the substance pro-	Paracetamol/codeine should not be used in case of acute alcoholism.
(Patients with acute alcohol- ism)	duced by the liver (enzyme) processes both paracetamol and alcohol. Codeine and alcohol use at the same time can increase central nervous system de- pression.	
Patients with head injuries	In patients with head trauma, adverse reactions of codeine like breathing problems (res- piratory depression) and rais- ing fluid relating to the brain and spinal cord may put out of sight the head diseases. Carbon dioxide retention caused by respiratory de- pression results in widening of the blood vessels in the brain.	Paracetamol/codeine should not be used in patients with head injuries.
Patients with raised pressure within the skull (Patients with raised intra- cranial pressure)	Signs of increased pressure in the head include head- aches, being sick and blurred eyesight. In patients with head trauma, adverse reactions of codeine like breathing problems (res- piratory depression) and rais- ing fluid relating to the brain and spinal cord may put out of sight the head diseases. Carbon dioxide retention caused by respiratory de- pression results in widening of the blood vessels in the	Paracetamol/codeine should not be used in patients whose have been told they have increased pressure in the head.

Risk	What is known	Preventability
	deadly alteration in the brain function.	
Patients suffering from bile or bile duct operation (Patients undergoing biliary surgery)	Codeine increases smooth muscle tone which may re- sult in spasm, raised biliary tract pressure and biliary col- ic.	Paracetamol/codeine should not be used in patients which have recently had an opera- tion on liver, gallbladder or bile duct (biliary tract).
Use in patients with under- active thyroid gland (Use in patients with hypo- thyroid disorders)	Patients with under-active thyroid gland suffer from typ- ical symptoms like weight loss, mental or physical tiredness, cold intolerance, constipation, heavy menstru- al periods and muscle aches. Codeine may lead to a de- crease in the release of thy- roid hormones.	Paracetamol/codeine should be used with caution in pa- tients with under-active thy- roid gland.
Use in patients with adrenal gland problems (Use in patients with adreno- cortical insufficiency)	Long-term use of codeine in patients with adrenal gland problems may lead to dis- eases due to internal secre- tion of substances, decreas- ing the production and secre- tion of steroid hormones.	Paracetamol/codeine should be used with caution in pa- tients with adrenal gland problems.
Use in patients with problems passing water or prostate problems (Use in patients with prostatic hypertrophy)	Codeine may inhibit the urine emptying reflex and increase the tone of the ring muscle which surrounds the bladder. Also, codeine may decrease the urine production through direct effects on the kidneys.	Paracetamol/codeine should be used with caution in pa- tients with problems passing water or prostate problems.
Use in patients with kidney insufficiency (Use in patients with renal impairment)	Codeine use in patients with kidney insufficiency may su- press the formation of urine and lead to urine retention. Paracetamol may lead to chronic kidney failure.	Paracetamol/codeine should be used with caution in pa- tients with kidney insufficien- cy.
Use in patients with liver in- sufficiency (Use in patients with hepatic impairment)	Paracetamol is poisonous to liver cells causing cells' death. Codeine can cause abnormality in brain function and may worsen an existing brain disturbance associated with liver failure.	Paracetamol/codeine should be used with caution in pa- tients with liver insufficiency. Paracetamol/codeine is con- traindicated in patients with severe liver problems (liver failure).
Use in patients with more active liver enzymes (CYP2D6) (Use in CYP2D6 ultra-rapid metabolisers)	CYP2D6 is a substance pro- duced by the liver (enzyme) facilitating the breakdown of codeine to morphine. People with ultra-high activity of this enzyme are at risk of devel- oping side effects of opioid	Paracetamol/codeine should not be used in patients that metabolise codeine very rap- idly to morphine.

Risk	What is known	Preventability
	toxicity even at commonly prescribed doses. These pa- tients convert codeine into morphine rapidly resulting in blood levels of morphine higher than expected. Be- tween 1% and 29% of the population are CYP2D6 ultra- rapid metabolisers.	
Concomitant use with other products containing parace- tamol or opiate derivatives	Concomitant use of parace- tamol/codeine with other products containing parace- tamol or opiate derivatives may lead to use of higher doses than recommended of paracetamol and/or codeine. Ingestion of 7.5 g or more of paracetamol in adults may result in abnormalities of glu- cose metabolism, sudden kidney damage, irreversible liver damage, coma and death. Use of higher doses than recommended of codeine may lead to reduced nervous activity, and breathing prob- lems.	Paracetamol/codeine should not be used in patients that use other products contain- ing paracetamol or opiate derivatives.
Concomitant or within 14 days use of antidepressive drugs called MAOIs (Patients who have taken monoamino oxidase inhibi- tors (MAOIs) within 14 days)	Antidepressive drugs called MAOIs may increase the ac- tion of morphine. Poisoning induces drowsiness, breath- ing problems and, finally, death.	Paracetamol/codeine should not be used in patients that use medicines to treat de- pression called MAOIs (monoamine oxidase inhibi- tors) or who have used them in the last 14 days.
Breastfeeding	At normal healing doses, co- deine and morphine (me- tabolite-substance formed after codeine conversion) may be present in breast milk at very low doses. If the mother has more active liver enzymes (CYP2D6), then higher levels of codeine and morphine present in breast milk become poisonous to the baby.	Paracetamol/codeine should not be used in women during breastfeeding.

Important potential risks

Risk	What is known (Including reason why it is considered a potential risk)
Use in children after opera-	There have been reports in the published literature that co-
tion	deine given in children after removal of tonsils and/or polyps

Risk	What is known (Including reason why it is considered a		
	potential risk)		
(Post-operative use in chil- dren)	for temporary pause in breathing during sleep, led to rare, but life-threatening adverse events including death. All children received doses of codeine that were within the appropriate dose range; however there was evidence that these children were either ultra-rapid or extensive metabolisers in their abil- ity to metabolise codeine to morphine. Due to the limited in- formation, the use of codeine in children after surgery is con- sidered a potential risk. Due to an increased risk of develop- ing serious and life-threatening adverse reactions, paraceta- mol/codeine is not indicated in paediatric patients (0-18 years of age) who undergo removal of tonsils and/or polyps due to temporary pause in breathing during sleep.		
Use in children with breathing problems (Use in children with com- promised respiratory func-	Codeine is not recommended for use in children in whom respiratory function might be compromised including neuro- muscular disorders, severe cardiac or respiratory conditions, upper respiratory or lung infections, multiple trauma or exten- sive surgical procedures. These factors may worsen symp- toms of merphine toxicity, therefore the upp in children with		
Driving and using machines	compromised respiratory function is a potential risk.		
	may appear as confusion, drowsiness, dizziness, hallucina- tions, blurred or double vision or convulsions.		
Physical and psychological dependence	Regular prolonged use of codeine is known to lead to ad- diction (psychological dependence) and tolerance (capacity of the body to endure the effects of codeine). Symptoms of		
ence)	stopped.		
Excessive and incorrect use of drugs	Excessive or incorrect use may be due to the fact that the drug modifies patients' perception of pain and the nature of the pain experience.		
Serious skin reactions	Serious, possibly life-threatening skin reactions have rarely been reported with paracetamol use. Such reactions include Stevens-Johnson syndrome (SJS; severe form of skin flush- ing), toxic epidermal necrolysis (TEN; severe rash involving reddening, peeling and swelling of skin) or acute generalized exanthematous pustulosis (itching or burning painful erup- tion). SJS and TEN may be fatal in up to 25-35% of patients affect- ed. These conditions may appear within a few days after pa- racetamol ingestion or may occur later on during therapy. Long-term complications may be present, such as narrowing of the throat and swallowing difficulties.		

Missing information

Risk	What is known	
Use in children under 12	Treatment with paracetamol/codeine is only approved for pa-	
years of age	tients over 12 years of age, due to the lack of safety and effi-	
	cacy data for treatment of younger patients. Codeine should	
	not be used in children below the age of 12 years because of	
	the risk of opioid toxicity due to the variable and unpredicta-	

Risk	What is known	
	ble metabolism of codeine to morphine. Symptoms of co-	
	deine poisoning include drowsiness, breathing problems and	
	coma.	

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/codeine.

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

Version	Date	Safety Concerns	Comment
1.0	Submitted	Identified Risks	
	in January	Medication overuse headache	
	2014	Use in CYP2D6 ultra-rapid metabolisers	
		Potential Risks	
		Post-operative use in children	
		Use in children with compromised respirato-	
		ry function	
		Missing information	
		Use in children under 12 years of age	
2.0	08-08-2014	Identified Risks	The concerned ta-
		Overdose	bles displaying risk
		Hypersensitivity	minimization
		Blood dyscrasias (thrombocytopenia and	measures for each
		agranulocytosis)	added risk were up-
		Patients with acute asthma	dated.
		Patients with respiratory depression	
		Use in elderly	Characterization of
		Patients with acute alcoholism	the newly-added
		Patients with head injuries	risks has been pro-
		Patients with raised intracranial pressure	vided in Part II: Mod-
		Patients undergoing biliary surgery	ule SVII - Identified
		Use in patients with hypothyroid disorders	and potential risks.
		Use in patients with prostatic hypertrophy	
		Use in patients with adrenocortical insuffi-	Section SVII.5.1-
		ciency	Pharmacological
		Use in patients with renal impairment	class risks already
		Use in patients with nepatic impairment	included as important
		Concomitant use with other products con-	identified or potential
		taining paracetamol or opiate derivatives	<i>risks</i> has been up-

Major changes to the Risk Management Plan over time

Version	Date	Safety Concerns	Comment
		Patients who have taken monoamino oxi- dase inhibitors (MAOIs) within 14 days breastfeeding <u>Potential Risks</u> Driving and using machines Addiction and drug dependence Drug abuse misuse	dated to reflect new- ly-added important identified risks specif- ically related to phe- nylephrine. Lay language table <i>VI.2.4 Summary of</i> <i>safety concerns</i> was revised to include information relevant for the new risks pre- sented in appropriate manner for a lay au- dience. <i>Annex 2 -Current or</i> <i>proposed SmPC/PIL</i> has been updated in order to reflect the revised PI <i>Annex 3- Worldwide</i> <i>marketing status by</i> <i>country</i> has been updated with latest changes.
3.0	18-02-2015	"Serious skin reactions" was added as important potential risk.	Subsection VI.2.4 was updated regard- ing the risk of abuse/misuse. Prescription-only sta- tus was added as routine RMM. Update of Annex 2: addition of latest pro- posed PI (Day 160). Update of Annex 3: change in product names and removal of 500/10 mg strength.