

PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
		Reference
1	<b>SCHEDULING STATUS:</b>	Medicines and related Substances Act, 1965 (Act 101 of 1965), as amended.
2	<b>S5</b>	
3	<b>1. NAME OF THE MEDICINE:</b>	[Sec. 1.2.1]
4	<b>[PRODUCT NAME], film-coated tablet</b>	
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6	<b>2. QUALITATIVE AND QUANTITATIVE COMPOSITION:</b>	[Sec. 3.2.P.1]  Professional Information Guideline 2.16_Jul19_v2
7	Each film-coated tablet contains 37,5 mg tramadol	
8	hydrochloride and 325 mg paracetamol as the active	
9	ingredients.	
10	Sugar free	
11	For full list of excipients, see section 6.1	
12		
13	<b>3. PHARMACEUTICAL FORM</b>	[Sec.3.2.P.5.1]
14	Film-coated tablet.	
15	Light yellow, oblong, biconvex, film-coated tablets, plain on	
16	both sides.	
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18	<b>4. CLINICAL PARTICULARS:</b>	
19	<b>4.1 Therapeutic indications</b>	
20	[PRODUCT NAME] is indicated for the management of	
21	moderate to moderately-severe pain in adults.	
22	[PRODUCT NAME] is not recommended for minor pain that may	[Ref. 1.3.1.2: std-1, page 2, line 14-15]
23	be treated adequately through lesser means.	
24		
25	<b>4.2 Posology and method of administration</b>	
26	<b><u>Posology</u></b>	
27	To be used in adults and children over 16 years of age.	
28	<b>DO NOT EXCEED THE RECOMMENDED DOSE.</b>	
29	<b>Adults</b>	
30	For the management of pain, the recommended dose of	
31	[PRODUCT NAME] is 1 or 2 tablets every 4 to 6 hours as	
32	needed for pain relief up to a maximum of 8 tablets per day.	
33	As with all analgesic medicines, a titration period of several	
34	days with gradual dose increases at the initiation of	
35	[PRODUCT NAME] therapy may be beneficial for some	
36	patients. Clinical studies with tramadol in patients with	
37	moderate to moderately severe chronic pain indicate that the	

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38	tolerability of tramadol can be improved by starting tramadol at	[Ref. 1.3.1.2: std-1, page 7, line 8-20]
39	a low dose with gradual upward dose titration to reach doses	
40	that provide sufficient pain relief.	
41		
42	<b>Special populations:</b>	
43	<b>Renal impairment</b>	
44	For patients with creatinine clearance < 30 mL/min, the dosing	
45	interval of [PRODUCT NAME] should be increased not to	
46	exceed 2 tablets every to 12 hours.	
47		
48	<b>Paediatric population:</b>	
49	Safety and efficacy in children have not been established.	
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51	<b><u>Method of administration</u></b>	
52	[PRODUCT NAME] should be taken orally. The tablets should	
53	be swallowed with liquid and should not be chewed.	
54		
55	<b>4.3 Contraindications</b>	
56	[PRODUCT NAME] is contraindicated in patients with a known	
57	hypersensitivity to tramadol, paracetamol or other opioids such	
58	as codeine.	

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59	It is also contraindicated in cases of severe liver function	[Ref. 1.3.1.2: std-1, page 2, line 17-22]
60	impairment and in acute intoxication with alcohol, hypnotics,	
61	centrally acting analgesics, opioids or psychotropic medicines.	
62	It should not be administered to patients who are receiving	
63	monoamine oxidase inhibitors or within two weeks of their	
64	withdrawal.	
65	[PRODUCT NAME] must not be used for narcotic withdrawal	
66	treatment.	
67	[PRODUCT NAME] should not be given to patients with	
68	respiratory depression especially in the presence of cyanosis	
69	and excessive bronchial secretions.	[Ref. 1.3.1.2: std-1, page 3, line 1-5]
70	[PRODUCT NAME] should not be given to patients with	
71	increased intracranial pressure or central nervous system	
72	depression due to head injury or cerebral disease.	
73		
74	<b>4.4 Special warnings and precautions for use</b>	
75	<b>This product contains paracetamol, which may be fatal</b>	
76	<b>in overdose.</b>	
77	<b>In the event of overdosage or suspected overdose and</b>	
78	<b>notwithstanding the fact that the person may be</b>	
79	<b>asymptomatic, the nearest doctor, hospital or Poison</b>	

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80	<b>Centre must be contacted immediately.</b>	
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82	Dosages in excess of those recommended may cause severe	
83	liver damage. Patients suffering from liver or kidney disease	
84	should take paracetamol containing medicines under medical	
85	supervision.	
86	Tramadol may only be taken with special care in opioid	
87	dependence, reduced level of consciousness of uncertain	
88	origin, disorders of the respiratory function and increased	
89	intracranial pressure.	
90		
91	<b>Seizures:</b>	
92	Seizures have been reported in patients receiving tramadol at	
93	dosages within the recommended dosage range. The risk of	
94	seizures is enhanced in patients exceeding the recommended	
95	dose, or in patients taking tricyclic anti-depressants or other	
96	tricyclic compounds e.g. promethazine, selective serotonin	
97	reuptake inhibitors, MAO-inhibitors and neuroleptics. The risk	
98	of seizures may also be increased in patients with epilepsy,	
99	with a history of seizures or in patients with a recognised risk	
100	for seizures e.g. drug and alcohol withdrawal, intracranial	
101	infections, head trauma, metabolic disorders and naloxone	
102		

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103	administration with tramadol overdose. Patients known to suffer	[Ref. 1.3.1.2: std-1, page 3. Line 6-21]
104	from cerebral convulsions should be carefully monitored during	
105	treatment with tramadol.	
106		
107	<b>CYP2D6 ultra-rapid metabolism of tramadol:</b>	
108	Patients who are CYP2D6 ultra-rapid metabolisers may convert	
109	tramadol to its active metabolite (M1) more rapidly and	
110	completely than other patients. This rapid conversion may lead	
111	to higher than expected serum M1 levels which could lead to	
112	an increased risk of respiratory depression. Alternative	
113	medication, dose reduction and/or increased monitoring for	
114	signs of tramadol overdose, such as respiratory depression is	
115	recommended in patients known to be CYP2D6 ultra-rapid	
116	metabolisers.	
117		
118	<b>Drug Abuse and Dependence:</b>	
119	Tramadol has a dependence potential and tolerance, psychic	
120	and physical dependence of the morphinetype ( $\mu$ opioid) may	
121	develop with long-term use. The medicine has been associated	
122	with craving, drug-seeking behaviour and tolerance	
123	development. Cases of abuse and dependence on tramadol	
124	have been reported. Tramadol should not be used in opioid-	

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125	dependent patients. Tramadol can reinstate physical	
126	dependence in patients that have been previously dependent	
127	or chronically using other opioids. In patients with a tendency to	
128	drug abuse, a history of drug dependence or who are	
129	chronically using opioids, treatment with tramadol is not	
130	recommended.	
131		
132	<b>Withdrawal:</b>	
133	Withdrawal symptoms may occur if [PRODUCT NAME] is	
134	discontinued abruptly. Panic attacks, severe anxiety,	
135	hallucinations, paraesthesia, tinnitus, and unusual CNS	
136	symptoms have also been reported with abrupt discontinuation	
137	of tramadol hydrochloride. Clinical experience suggests that	
138	withdrawal symptoms may be relieved by tapering the	
139	medication.	
140		
141	<b>Serious skin reactions:</b>	
142	Serious skin reactions such as acute generalised	
143	exanthematous pustulosis (AGEP), Stevens-Johnson	[Ref. 1.3.1.2: std-1, page 4. Line 1-21]
144	syndrome (SJS), and toxic epidermal necrolysis (TEN), have	
145	been reported in patients receiving paracetamol. Patients	
146	should be informed about the signs of serious skin reactions,	

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147	and use of [PRODUCT NAME] should be discontinued at the	
148	first appearance of skin rash or any other sign of	
149	hypersensitivity.	
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151	<b>Precautions – general:</b>	
152	Do not co-administer [PRODUCT NAME] with other tramadol	
153	or paracetamol containing medicines.	
154		
155	<b>Use with alcohol:</b>	
156	[PRODUCT NAME] should not be taken with alcohol containing	
157	beverages.	
158		
159	<b>Use with CNS depressants:</b>	
160	The administration of [PRODUCT NAME] concurrently with	
161	central nervous system (CNS) depressants such as alcohol,	
162	opioids, anaesthetic agents, phenothiazines, tranquilisers or	
163	sedative hypnotics is likely to intensify and prolong CNS	
164	effects.	
165		
166	<b>Use in renal disease:</b>	
167	[PRODUCT NAME] should be used with caution in patients	
168	with impaired renal function and in patients prone to convulsive	



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169	disorders or in shock.	
170		
171	<b>Hyponatraemia:</b>	
172	Hyponatraemia has been reported with the use of [PRODUCT	
173	NAME], usually in patients with predisposing risk factors, such	
174	as elderly patients and/or patients using concomitant	
175	medications that may cause hyponatraemia. This	
176	hyponatraemia appeared to be the result of the syndrome of	
177	inappropriate antidiuretic hormone secretion (SIADH) and	
178	resolved with discontinuation of [PRODUCT NAME] and	
179	appropriate treatment (e.g. fluid restriction). During [PRODUCT	[Ref. 1.3.1.2: std-1, page 5. Line 1-21]
180	NAME] treatment, monitoring for signs and symptoms of	
181	hyponatraemia is recommended for patients with predisposing	
182	risk factors.	
183		
184	<b>Sleep-related breathing disorders</b>	
185	Opioids can cause sleep-related breathing disorders including	
186	central sleep apnoea (CSA) and sleep-related hypoxemia.	[Ref. 1.3.1.2: std-2, page 2. Line 33-36]
187	Opioid use increases the risk of CSA in a dose-dependent	
188	fashion. In patients who present with CSA, consider decreasing	
189	the total opioid dosage.	
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191	<b>Use in general anaesthesia</b>	
192	In one study, use of tramadol during general anaesthesia with	
193	enflurane and nitrous oxide was reported to enhance intra-	
194	operative recall. Until further information is available, use of	[Ref. 1.3.1.2: std-2, page 3. Line 3-5]
195	tramadol during light planes of anaesthesia should be avoided.	
196		
197	<b>4.5 Interaction with other medicinal products and other</b>	
198	<b>forms of interaction</b>	
199	[PRODUCT NAME] must not be combined with a MAO-	
200	inhibitor, or within 14 days of discontinuation of it, as	
201	potentiation of serotonergic and noradrenergic effects may	
202	result (see Section 4.3).	
203		
204	Concomitant administration of [PRODUCT NAME] and	
205	carbamazepine may cause significantly decreased tramadol	
206	and M1 concentrations. Patients receiving carbamazepine may	
207	have significantly reduced analgesic effect from the tramadol	
208	component of [PRODUCT NAME].	
209		
210	Concomitant administration with inhibitors of CYP2D6 such as	
211	fluoxetine, paroxetine, quinidine and amitriptyline could result in	

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212	some inhibition of the metabolism of tramadol.	
213		
214	Simultaneous administration with cimetidine is associated with	
215	clinically insignificant changes in serum concentrations of	
216	tramadol. Therefore, no alteration of the [PRODUCT NAME]	
217	dosage regimen is recommended for patients receiving chronic	
218	cimetidine therapy.	
219		
220	Post-marketing surveillance of tramadol has revealed rare	
221	reports of digoxin toxicity and rare alterations of warfarin effect	
222	including elevation of prothrombin times.	
223	Periodic evaluation of prothrombin time / INR should be	
224	performed when [PRODUCT NAME] is administered	
225	concurrently with warfarin like compounds, due to reports of	[Ref. 1.3.1.2: std-1,
226	increased prothrombin time / INR in some patients.	page 6, line 5-19]
227		
228	Concomitant administration of diflunisal and paracetamol	
229	produces a 50 % increase in paracetamol plasma levels in	[Ref. 1.3.1.2: std-1,
230	normal volunteers. [PRODUCT NAME] should be used	page 7, line 1-3]
231	cautiously and patients should be monitored carefully.	
232		
233	<b>Concomitant use is not recommended with:</b>	

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- **Alcohol**

Alcohol increases the sedative effect of opioid analgesics.

The effect on alertness can make driving of vehicles and the use of machines dangerous.

Avoid intake of alcoholic drinks and of medicines containing alcohol.

- **Opioid agonists-antagonists (buprenorphine, nalbuphine, pentazocine)**

Decrease of the analgesic effect by competitive blocking effect at the receptors, with the risk of occurrence of withdrawal syndrome.

**Concomitant use which needs to be taken into consideration:**

- Tramadol can induce convulsions and increase the potential for selective serotonin reuptake inhibitors (SSRIs) serotonin-norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants, antipsychotics and seizure threshold lowering medicines (such as bupropion, mirtazapine, tetrahydrocannabinol) to cause

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256	convulsions.	
257		
258	<ul style="list-style-type: none"> <li>• Concomitant therapeutic use of tramadol and</li> </ul>	
259	serotonergic medicines such as selective serotonin re-	
260	uptake inhibitors (SSRIs) serotonin-norepinephrine	
261	reuptake inhibitors (SNRIs), MAO inhibitors (see section	
262	4.3), tricyclic antidepressants and mirtazapine may	
263	cause serotonin toxicity.	
264	Serotonin syndrome is likely when one of the following	
265	is observed:	
266	<ul style="list-style-type: none"> <li>○ Spontaneous clonus</li> </ul>	
267	<ul style="list-style-type: none"> <li>○ Inducible or ocular clonus with agitation or</li> </ul>	
268	diaphoresis	
269	<ul style="list-style-type: none"> <li>○ Tremor and hyperreflexia</li> </ul>	
270	<ul style="list-style-type: none"> <li>○ Hypertonia and body temperature &gt; 38 °C and</li> </ul>	
271	inducible or ocular clonus.	
272	Withdrawal of the serotonergic medicines usually brings	
273	about a rapid improvement. Treatment depends on the	
274	type and severity of the symptoms.	
275		
276	<ul style="list-style-type: none"> <li>• Other opioid derivatives (including antitussive</li> </ul>	
277	medicines and substitutive treatments).	

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278	Increased risk of respiratory depression which can be	
279	fatal in cases of overdose.	
280		
281	<ul style="list-style-type: none"> <li>Other central nervous system depressants, such as</li> </ul>	
282	other opioid derivatives (including antitussive medicines	
283	and substitutive treatments), other anxiolytics,	
284	hypnotics, sedative antidepressants, sedative	
285	antihistamines, neuroleptics, centrally-acting	
286	antihypertensive medicines, thalidomide and baclofen.	[Ref. 1.3.1.2: std-2, page 3, line 20-50]
287	These medicines can cause increased central	
288	depression. The effect on alertness can make driving of	
289	vehicles and the use of machines dangerous.	
290		
291	<ul style="list-style-type: none"> <li>Sedating medicines such as benzodiazepines or related</li> </ul>	
292	substances:	
293	The concomitant use of opioids with sedative medicines	
294	such as benzodiazepines or related medicines	
295	increases the risk of sedation, respiratory depression,	
296	coma and death because of additive CNS depressant	
297	effects. The dose and duration of the concomitant use	
298	should be limited (see section 4.4).	
299		

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300	<ul style="list-style-type: none"> <li>In a limited number of studies the pre- or postoperative application of the antiemetic 5-HT<sub>3</sub> antagonist ondansetron increased the requirement of tramadol in patients with postoperative pain.</li> </ul>	[Ref. 1.3.1.2: std-2, page 4, line 1-8]
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302		
303		
304		
305	<b>4.6 Fertility, pregnancy and lactation</b>	[Ref. 1.3.1.2: std-1, page 7, line 5-6]
306	Safe use in pregnancy and lactation has not been established.	
307	[PRODUCT NAME] is not recommended for pregnant mothers	
308	because tramadol has been shown to cross the placenta.	
309		
310	<b><i>Pregnancy</i></b>	
311	Since [PRODUCT NAME] is a fixed combination of active	
312	ingredients including tramadol, it should not be used during	
313	pregnancy.	
314	<ul style="list-style-type: none"> <li>Data regarding paracetamol:</li> </ul>	
315	Epidemiological studies in human pregnancy have	
316	shown no ill effects due to paracetamol used in the	
317	recommended dosages.	
318	<ul style="list-style-type: none"> <li>Data regarding tramadol:</li> </ul>	
319	Tramadol should not be used during pregnancy as	
320	there is inadequate evidence available to assess the	

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321	safety of tramadol in pregnant women. Tramadol	
322	administered before or during birth does not affect	
323	uterine contractility. In neonates it may induce changes	
324	in the respiratory rate which are usually not clinically	
325	relevant. Long-term treatment during pregnancy may	
326	lead to withdrawal symptoms in the newborn after birth,	
327	as a consequence of habituation.	
328	<b><i>Breastfeeding:</i></b>	
329	Since [PRODUCT NAME] is a fixed combination of active	
330	ingredients including tramadol, it should not be ingested during	
331	breastfeeding.	
332	<ul style="list-style-type: none"> <li>• Data regarding paracetamol:</li> </ul>	
333	Paracetamol is excreted in breast milk but not in a	
334	clinically significant amount. Available published data	
335	do not contraindicate breastfeeding by women using	
336	single ingredient medicines containing only	
337	paracetamol.	
338	<ul style="list-style-type: none"> <li>• Data regarding tramadol:</li> </ul>	
339	Approximately 0.1 % of the maternal dose of tramadol	
340	is excreted in breast milk. In the immediate post-partum	
341	period, for maternal oral daily dosage up to 400 mg, this	
342	corresponds to a mean amount of tramadol ingested by	



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343	breast-fed infants of 3 % of the maternal weight-	[Ref. 1.3.1.2: std-2, page 4, line 10-36]
344	adjusted dosage. For this reason tramadol should not	
345	be used during lactation or alternatively, breastfeeding	
346	should be discontinued during treatment with tramadol.	
346	Discontinuation of breastfeeding is generally not	
348	necessary following a single dose of tramadol.	
349	<b><i>Fertility</i></b>	
350	Post marketing surveillance does not suggest an effect of	
351	tramadol on fertility.	
352	Animal studies did not show an effect of tramadol on fertility.	
353	No study on fertility was accomplished with the combination of	
354	tramadol and paracetamol.	
355		
356	<b>4.7 Effects on ability to drive and use machines</b>	[Ref. 1.3.1.2: std-1, page 6, line 1-3]
357	[PRODUCT NAME] may affect reactions to the extent that	
358	driving ability and the ability to operate machinery may be	
359	impaired. This applies particularly in conjunction with other	
360	psychotropic medicines including alcohol.	
361		
362	<b>4.8 Undesirable effects</b>	

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363	<b>System Organ</b>	<b>Adverse reaction</b>	<b>Frequency</b>	[Ref. 1.3.1.2: std-1, page 9, line 15]  [Ref. 1.3.1.2: std-1, page 10, line 7]  [Ref. 1.3.1.2: std-1, page 9, line 5] [Ref. 1.3.1.2: std-1, page 10, line 15]
364	<b>Class</b>			
365	<b>Blood and lymphatic system disorders</b>	Anaemia	Less	
366			frequent	
367	<b>Immune system disorders</b>	Hypersensitivity	Less	
368		reactions including anaphylaxis	frequent	
369	<b>Metabolism and nutrition disorders</b>	Weight decrease	Less	[Ref. 1.3.1.2: std-1, page 9, line 5] [Ref. 1.3.1.2: std-1, page 10, line 15]
370		Hypoglycaemia	frequent	
371	<b>Psychiatric disorders</b>	Anorexia, anxiety,	Frequent	
372		confusion, euphoria,		
373		insomnia, nervousness		
374		Amnesia,	Less	
375		depersonalisation,	frequent	[Ref. 1.3.1.2: std-1, page 9, line 8-14]
376		depression, drug		
377		abuse, emotional		
378		lability, hallucination,		
379		impotence, bad		
380		dreams, abnormal		
381		thinking		
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385	<b>Nervous system disorders</b>	Cognitive dysfunction,	Frequency	[Ref. 1.3.1.2: std-1, page 10, line 8]
386		suicidal tendency	unknown	
387		Dizziness,	Frequent	
388		somnolence,		[Ref. 1.3.1.2: std-1, page 8, line 18-23]
389		headache, tremor		
390		Ataxia, convulsions,	Less	
391		hypertonia, migraine,	frequent	
392		aggravated migraine,		
393		involuntary muscle		
394		contractions,		
395	<b>Eye disorders:</b>	paraesthesia, stupor,		[Ref. 1.3.1.2: std-1, page 10, line 13]
396		vertigo		
397		Delirium, speech	Frequency	[Ref. 1.3.1.2: std-1, page 9, line 22]
398	<b>Ear and labyrinth disorders</b>	disorder	unknown	
399		Abnormal vision	Less	[Ref. 1.3.1.2: std-1, page 10, line 13]
400			frequent	
401	<b>Ear and labyrinth disorders</b>	Miosis, mydriasis	Frequency	[Ref. 1.3.1.2: std-1, page 9; line 2]
402			unknown	
403	<b>Ear and labyrinth disorders</b>	Tinnitus	Less	[Ref. 1.3.1.2: std-1, page 9; line 2]
404			frequent	
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407	<b>Cardiac disorders</b>	Dysrhythmia,	Less	[Ref. 1.3.1.2: std-1, page 8, line 14-15]
408		palpitation, tachycardia	frequent	
409	<b>Vascular disorders</b>	Hypertension,	Less	[Ref. 1.3.1.2: std-1, page 8, line 12-13]
410		aggravated	frequent	
411		hypertension,		
412		hypotension		
413		Orthostatic	Frequency	[Ref. 1.3.1.2: std-1, page 10, line 7]
414		hypotension	unknown	
415	<b>Respiratory, thoracic and mediastinal disorders</b>	Dyspnoea	Less	[Ref. 1.3.1.2: std-1, page 9, line 17]
416			frequent	
417				
418	<b>Gastrointestinal disorders</b>	Nausea, abdominal	Frequent	[Ref. 1.3.1.2: std-2, page 5, line 18-19]
419		pain, constipation,		
420		diarrhoea, dyspepsia,		
421		flatulence, vomiting,		
422		dry mouth		
423		Dysphagia, melaena,	Less	[Ref. 1.3.1.2: std-1, page 8, line 24-25]
424		tongue oedema	frequent	
425	<b>Hepatobiliary disorders:</b>	Liver test	Less	[Ref. 1.3.1.2: std-1, page 8, line 16]
426		abnormalities	frequent	
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429		Hepatitis		[Ref. 1.3.1.2: std-1, page 10, line 8]
430				
431	<b>Renal and urinary disorders</b>	Albuminuria,	Less	[Ref. 1.3.1.2: std-1, page 9, line 19-21]
432		micturition disorder,	frequent	
433		oliguria, urinary		
434		retention		
435	<b>Skin and subcutaneous tissue disorder</b>	Pruritus, rash,	Frequent	
436		increased sweating		
437		Urticaria, Steven	Less	[Ref. 1.3.1.2: std-1, page 10, line 7-8]
438		Johnson	frequent	
439		Syndrome/Toxic		
440		epidermal necrolysis		
441		(TENS)		
442	<b>General disorders and administrative site conditions</b>	Asthenia, fatigue,	Frequent:	[Ref. 1.3.1.2: std-1, page 10, line 1-2]
443		hot flushes		
444				
445		Chest pain, rigors,	Less	[Ref. 1.3.1.2: std-1, page 10, line 8-9]
446		syncope, withdrawal	frequent	
447		syndrome		
448	<b>Investigations</b>	Elevated creatinine,	Frequency	
449		hyponatraemia, SIADH	unknown	
450		(Syndrome of		

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	inappropriate  antidiuretic hormone  secretion)  Increased  transaminases	
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[Ref. 1.3.1.2: std-1,  
page 10, line 16]

[Ref. 1.3.1.2: std-2,  
page 5, line 24]

Serotonin syndrome (whose symptoms may include fever,  
excitation, shivering and agitation) has been reported with  
tramadol when used concomitantly with other serotonergic  
agents such as SSRIs and MAO inhibitors. Post – marketing  
experience with the use of tramadol containing medicines  
included reports of delirium, miosis, mydriasis, and speech  
disorder, and reports of movement disorder. Post-marketing  
surveillance of tramadol has revealed rare alterations of  
warfarin effect, including elevation of prothrombin times. Cases  
of hypoglycaemia have been reported.

Cases of hyponatraemia and/or SIADH have been reported in  
patients taking tramadol, usually in patients with predisposing  
risk factors, such as the elderly or those using concomitant  
medicines that may cause hyponatraemia.

[Ref. 1.3.1.2: std-1,  
page 10, line 16-18]

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473	Allergic reactions (primarily skin rash) or reports of	<p>[Ref. 1.3.1.2: std-1, page 11, line 3-6]</p>          <p>Professional Information Guideline 2.16_Jul19_v2</p>
474	hypersensitivity secondary to paracetamol are rare and	
475	generally controlled by discontinuation of the medicine, and	
476	when necessary, symptomatic treatment. There have been	
477	several reports that suggest that paracetamol may produce	
478	hypoprothrombinemia when administered with warfarin like	
479	compounds. In other studies, prothrombin time did not change.	
480		
481	<b><u>Reporting of suspected adverse reactions</u></b>	
482	Reporting suspected adverse reactions after authorisation of	
483	the medicine is important. It allows continued monitoring of the	
484	benefit/risk balance of the medicine. Healthcare professionals	
485	are asked to report any suspected adverse reactions to	
486	SAHPRA via the “ <b>6.04 Adverse Medicine Reaction</b>	
487	<b>Reporting Form</b> ”, found online under SAHPRA's publications:	
488	<a href="https://www.sahpra.org.za/Publications/Index/8">https://www.sahpra.org.za/Publications/Index/8</a> .	
489	<b>4.9 Overdose:</b>	
490	The clinical presentation of overdosage may include the signs	
491	and symptoms of tramadol toxicity, paracetamol toxicity or	
492	both.	
493	<b>Tramadol</b>	

## PROPOSED ANNOTATED PROFESSIONAL INFORMATION

494	The initial symptoms of tramadol overdosage may include	
495	respiratory depression and/or seizures.	
496	Primary attention should be given to maintaining adequate	
497	ventilation along with general supportive treatment. While	
498	naloxone will reverse some, but not all symptoms caused by	
499	overdosage, the risk of seizures is also increased with	
500	naloxone administration. Treatment of restlessness and / or	
501	convulsions is symptomatic and supportive (benzodiazepines /	
502	barbiturates).	
503		
504	Tramadol is minimally eliminated from the serum by	
505	haemodialysis or haemofiltration. Treatment of acute	
506	intoxication with TRAMACET with haemodialysis or	
507	haemofiltration alone is therefore not suitable for detoxification.	
508		
509	<b>Paracetamol</b>	
510	<b>Prompt treatment is essential.</b> In the event of an overdosage,	
511	consult a doctor immediately, or take the person to a hospital	
512	directly. A delay in starting treatment may mean that antidote is	
513	given too late to be effective. Evidence of liver damage is often	
514	delayed until after the time for effective treatment has lapsed.	
515	Susceptibility to paracetamol toxicity is increased in patients	



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516	who have taken repeated high doses (greater than 5 -10 g/day)	
517	of paracetamol for several days, in chronic alcoholism, chronic	
518	liver disease, AIDS, malnutrition, and with the use of medicines	
519	that induce liver microsomal oxidation such as barbiturates,	
520	isoniazid, rifampicin, phenytoin and carbamazepine.	
521		
522	Symptoms of paracetamol overdosage in the first 24 hours	
523	include pallor, nausea, vomiting, anorexia and possibly	
524	abdominal pain. Mild symptoms during the first two days of	
525	acute poisoning do not reflect the potential seriousness of the	
526	overdosage.	
527		
528	Liver damage may become apparent 12 to 48 hours or later	
529	after ingestion, initially by elevation of the serum transaminase	
530	and lactic dehydrogenase activity, increased serum bilirubin	
531	concentration and prolongation of the prothrombin time. Liver	
532	damage may lead to encephalopathy, coma and death.	
533		
534	Acute renal failure with acute tubular necrosis may develop	
535	even in the absence of severe liver damage. Abnormalities of	
536	glucose metabolism and metabolic acidosis may occur.	
537	Cardiac arrhythmias have been reported.	

## PROPOSED ANNOTATED PROFESSIONAL INFORMATION

### **Treatment for paracetamol overdose:**

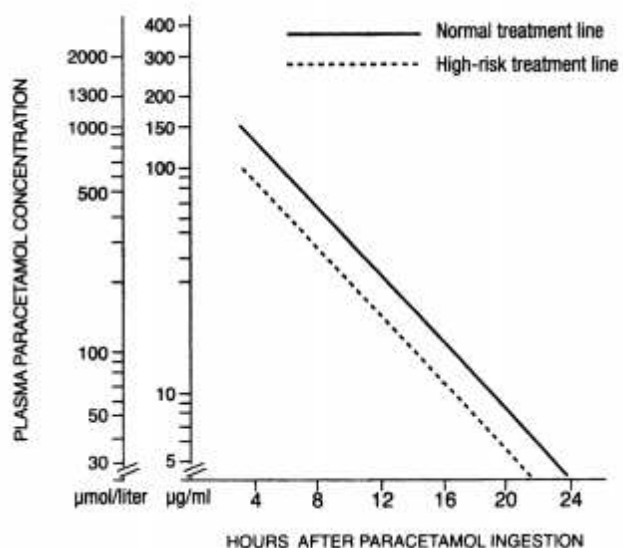
Although evidence is limited it is recommended that any adult person who has ingested 5 - 10 grams or more of paracetamol (or a child who has had more than 140 mg/kg) within the preceding four hours, should have the stomach emptied by lavage (emesis may be adequate for children) and a single dose of 50 g activated charcoal given via the lavage tube. Ingestion of amounts of paracetamol smaller than this may require treatment in patients susceptible to paracetamol poisoning (see above). In patients who are stuporose or comatose endotracheal intubation should precede gastric lavage in order to avoid aspiration.

**N-acetylcysteine** should be administered to all cases of suspected overdose as soon as possible preferably within eight hours of overdose, although treatment up to 36 hours after ingestion may still be of benefit, especially if more than 150 mg/kg of paracetamol was taken. An initial dose of 150 mg/kg N-acetylcysteine in 200 mL dextrose injection given **intravenously** over 15 minutes, followed by an infusion of 50 mg/kg in 500 mL dextrose injection over the next four hours,

## PROPOSED ANNOTATED PROFESSIONAL INFORMATION

560	and then 100 mg/kg in 1000 mL dextrose injection over the	
561	next sixteen hours. <b>The volume of intravenous fluid should</b>	
562	<b>be modified for children.</b>	
563		
564	Although the oral formulation is not the treatment of choice,	
564	140 mg/kg dissolved in water may be administered initially,	
565	followed by 70 mg/kg every four hours for seventeen doses.	
566		
567	A plasma paracetamol level should be determined four hours	
568	after ingestion in all cases of suspected overdose. Levels	
569	done before four hours, unless high may be misleading.	
570	Patients at risk of liver damage, and hence requiring continued	
571	treatment with N-acetylcysteine, can be identified according to	
572	their plasma paracetamol level. The plasma paracetamol level	
573	can be plotted against time since ingestion in the normogram	
574	below.	
575		

## PROPOSED ANNOTATED PROFESSIONAL INFORMATION



Source: Goodman & Gilman's The Pharmacological Basis of  
Therapeutics, 11th Ed.

Those whose plasma paracetamol levels are above the "normal treatment line", should continue N-acetylcysteine treatment with 100 mg/kg IV over sixteen hours repeatedly until recovery. Patients with increased susceptibility to liver damage as identified above, should continue treatment if concentrations are above the "high risk treatment line". Prothrombin index correlates best with survival.

Monitor all patients with significant ingestions for at least ninety six hours.

[Ref. 1.3.1.2: std-1, page 11, line 8-22, page 12, line 1-23, page 13, line 1-14, page 14, line 1-3]

PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
596	<b>5. PHARMACOLOGICAL PROPERTIES</b>	
597	<b>5.1 Pharmacodynamic properties</b>	
598	Pharmacological classification: A.2.9. Other analgesics	[Ref. 1.3.1.2: std-1, page 1, line 11]
599	ATC Code: N02A J 13	
600	Tramadol is a centrally acting synthetic analgesic compound	[Ref. 1.3.1.2: std-1, page 1, line 14-17]
601	whose analgesic profile can be attributed to the binding of	
602	parent and O-demethylated (M1) metabolite to $\mu$ -opioid	
603	receptors as well as the weak inhibition of neuronal re-uptake	
604	of noradrenaline and serotonin. Paracetamol also has centrally	
605	acting analgesic effects.	
606		
607	<b>5.2 Pharmacokinetic properties</b>	
608	<b>Absorption:</b>	
609	Tramadol is well absorbed after oral administration, reaching	[Ref. 1.3.1.2: std-1, page 1, line 20-21, page 2, line 1-3]
610	peak activity in 2 to 3 hours. The mean absolute bioavailability	
611	of a single 100 mg oral dose is approximately 75 %, increasing	
612	to approximately 90 % with multiple dosing. Oral absorption of	
613	paracetamol following administration of TRAMACET gives a	
614	peak plasma concentration of paracetamol within one hour and	
615	is not affected by co-administration with tramadol.	
616	<b>Distribution:</b>	

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617	Tramadol has a high tissue affinity ( $V_d \sim 203 \pm 40$ l). It has a	
618	plasma protein binding of about 20 %.	
619	Paracetamol appears to be widely distributed throughout most	
620	body tissues except fat. Its apparent volume of distribution is	
621	about 0.9 l/kg. A relative small portion (-20 %) of paracetamol	[Ref. 1.3.1.2: std-2, page8, line 1-4]
622	is bound to plasma proteins.	
623	<b>Biotransformation:</b>	
624	Tramadol and paracetamol are both extensively metabolised in	
625	the liver.	
626	<b>Elimination:</b>	
627	Approximately 30 % of tramadol is excreted unchanged in the	
628	urine. Tramadol and its metabolites are eliminated primarily by	
629	the kidneys. The plasma elimination half-lives of tramadol and	
630	its M1 metabolite are approximately 6 and 7 hours respectively.	
631	Paracetamol is eliminated from the body primarily by formation	
632	of glucuronide and sulfate conjugates in a dose-dependent	
633	manner. The half-life of paracetamol is about 2-3 hours in	[Ref. 1.3.1.2: std-1, page 2, line 4-12]
634	adults. Less than 9 % of paracetamol is excreted unchanged in	
635	the urine.	
636		
637	<b>5.3 Preclinical safety data</b>	
638	No preclinical study has been performed with the fixed	

## PROPOSED ANNOTATED PROFESSIONAL INFORMATION

639	combination (tramadol and paracetamol) to evaluate its	
640	carcinogenic or mutagenic effects or its effects on fertility.	
641	No teratogenic effect that can be attributed to the medicine has	
642	been observed in the progeny of rats treated orally with the	
643	combination tramadol/paracetamol.	
644	The combination tramadol/paracetamol has proven to be	
645	embryotoxic and foetotoxic in the rat at matemo-toxic dose	
646	(50/434 mg/kg tramadol/paracetamol), i.e., 8.3 times the	
647	maximum therapeutic dose in man. No teratogenic effect has	
648	been observed at this dose. The toxicity to the embryo and the	
649	foetus results in a decreased foetal weight and an increase in	
650	supernumerary ribs. Lower doses, causing less severe	
651	matemo-toxic effect (10/87 and 25/217 mg/kg	
652	tramadol/paracetamol) did not result in toxic effects in the	
653	embryo or the foetus.	
654	Results of standard mutagenicity tests did not reveal a potential	
655	genotoxic risk for tramadol in man.	
656	Results of carcinogenicity tests do not suggest a potential risk	
657	of tramadol for man.	
658	Animal studies with tramadol revealed, at very high doses,	
659	effects on organ development, ossification and neonatal	
660	mortality, associated with matemotoxicity. Fertility reproductive	

PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
661	performance and development of offspring were unaffected.	[Ref. 1.3.1.2: std-2, page 8, line 24-42]
662	Tramadol crosses the placenta. Male and female fertility was	
663	not affected.	
664	Extensive investigations showed no evidence of a relevant	
665	genotoxic risk of paracetamol at therapeutic (i.e. non-toxic)	
666	doses.	
667	Long-term studies in rats and mice yielded no evidence of	
668	relevant tumorigenic effects at non-hepatotoxic dosages of	
669	paracetamol.	
670	Animal studies and extensive human experience to date yield	
671	no evidence of reproductive toxicity.	
672		
673	<b>6 PHARMACEUTICAL PARTICULARS</b>	[Sec.3.2.P.1]
674	<b>6.1 List of excipients</b>	
675	Magnesium stearate, maize starch, microcrystalline cellulose,	
676	pregelatinised starch, sodium starch glycolate, Opadry yellow	
677	coating containing hypromellose, iron oxide yellow, titanium	
678	dioxide and triacetin.	
679		



PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
680	<b>6.2 Incompatibilities</b>	
681	Not applicable	
682		
683	<b>6.3 Shelf life</b>	
684	3 years (proposed)	[Sec. 3.2.P.8.1]
685		
686	<b>6.4 Special precautions for storage</b>	
687	Store at or below 25 °C.	[Sec. 3.2.P.8]
688	Protect from light and moisture.	
689	Store in the original package/container.	
690	Keep the blister in the carton until required for use	
691		
692	<b>6.5 Nature and contents of container</b>	
693	[PRODUCT NAME] is packed in a blister comprising of plain	[Sec.3.2.P.7]
694	aluminium foil with VMCH coating and white opaque PVC film	
695	or in a blister comprising of plain aluminium foil with VMCH	
696	coating and white opaque PVC/PVdC film placed in a carton	
697	along with a patient information leaflet.	

PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
698	Pack sizes: 30 and 60 tablets	
699	Not all pack sizes may be marketed.	
700		
701	<b>6.6 Special precautions for disposal</b>	
702	No special requirements.	
703		
704	<b>7 HOLDER OF CERTIFICATE OF REGISTRATION</b>	
705	Oethmaan Biosims (Pty) Ltd	
706	207A Sherwood House	
707	Greenacres Office Park	
708	c/o Victory and Rustenberg Roads	
709	Victory Park	
710	Johannesburg	
711	2195	
712		
713	<b>8 REGISTRATION NUMBER(S):</b>	
714	To be allocated	
715		

PROPOSED ANNOTATED PROFESSIONAL INFORMATION		
716	<b>9 DATE OF FIRST AUTHORISATION</b>	
717	Date of registration: To be advised	
718		
719	<b>10 DATE OF REVISION OF THE TEXT</b>	
720	Not applicable	