Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Frovatriptan 2.5mg Film-coated Tablets

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 2.5 mg of frovatriptan (as frovatriptan succinate monohydrate).

Excipient(s) with known effect: Contains approximately 107 mg of lactose per tablet. For the full list of excipients, see section 6.1.

3 PHARMACEUTICAL FORM

Film-coated tablet (tablet).

Round white to off-white film-coated tablet, plain on both sides.

4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Acute treatment of the headache phase of migraine attacks with or without aura. Frovatriptan is indicated in adults.

4.2 Posology and method of administration

Posology

Frovatriptan should be taken as early as possible after the onset of a migraine attack but it is also effective when taken at a later stage. Frovatriptan should not be used prophylactically.

If a patient does not respond to the first dose of frovatriptan, a second dose should not be taken for the same attack, since no benefit has been shown.

Frovatriptan may be used for subsequent migraine attacks.

Adults (18-65 years of age)

The recommended dose of frovatriptan is 2.5 mg.

If the migraine recurs after initial relief, a second dose may be taken, providing there is an interval of at least 2 hours between the two doses.

The total daily dose should not exceed 5 mg per day.

Paediatric population (under 18 years)

The safety and efficacy of Frovatriptan in children and adolescents aged below the age of 18 years have not been established. Therefore, its use in this age group is not recommended. No data are available.

Elderly (over 65 years)

10 November 2022 CRN00D79W Page 1 of 9

Frovatriptan data in patients over 65 years remain limited. Therefore, its use in this category of patients is not recommended.

Renal Impairment

No dosage adjustment is required in patients with renal impairment (see section 5.2).

Hepatic Impairment

No dosage adjustment is required in patients with mild to moderate hepatic impairment (see <u>section 5.2</u>). Frovatriptan is contraindicated in patients with severe hepatic impairment (<u>see section 4.3</u>).

Method of administration

Oral use.

The tablets should be swallowed whole with water.

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
- Patients with a history of myocardial infarction, ischaemic heart disease, coronary vasospasm (e.g. Prinzmetal's angina), peripheral vascular disease, patients presenting with symptoms or signs compatible with ischaemic heart disease.
- Moderately severe or severe hypertension, uncontrolled mild hypertension.
- Previous cerebrovascular accident (CVA) or transient ischaemic attack (TIA).
- Severe hepatic impairment (Child-Pugh C).

4.4 Special warnings and precautions for use

Frovatriptan should only be used where a clear diagnosis of migraine has been established.

Frovatriptan is not indicated for the management of hemiplegic, basilar or ophthalmoplegic migraine.

As with other treatments of migraine attack, it is necessary to exclude other, potentially serious, neurological conditions before treating the headache of patients without a previous diagnosis of migraine, or migraine patients presenting with atypical symptoms. It should be noted that migraineurs present an increased risk of certain cerebral vascular events (e.g., CVA or TIA).

The safety and efficacy of frovatriptan administered during the aura phase, before the headache phase of migraine, has not been established.

As for other 5-HT $_1$ receptor agonists, frovatriptan must not be administered to patients at risk of coronary artery disease (CAD), including heavy smokers or users of nicotine substitution therapy without a prior cardiovascular evaluation (see section 4.3). Specific attention should be given to post- menopausal women and men over 40 years of age presenting with these risk factors.

However, cardiac evaluations may not identify every patient who has cardiac disease. In very rare cases, serious cardiac events have occurred in patients with no underlying cardio-vascular disease when taking $5-HT_1$ receptor agonists.

10 November 2022 CRN00D79W Page 2 of 9

Frovatriptan administration can be associated with transient symptoms including chest pain or tightness which may be intense and involve the throat (see section 4.8).

Where such symptoms are thought to indicate ischaemic heart disease no further doses of frovatriptan should be taken and additional investigations should be carried out.

Patients should be informed of the early signs and symptoms of hypersensitivity reactions including cutaneous disorders, angioedema and anaphylaxis (see section 4.8). In case of serious allergic/hypersensitivity reactions, frovatriptan treatment should be discontinued immediately and it should not be administered again.

It is advised to wait 24 hours following the use of frovatriptan before administering an ergotamine- type medication. At least 24 hours should be elapse after administration of an ergotamine-containing preparation before frovatriptan is given (see sections 4.3 and 4.5).

In case of too frequent use (repeated administration several days in a row corresponding to a misuse of the product), the active substance can accumulate leading to an increase of the side-effects.

Prolonged use of any type of painkiller for headaches can make them worse. If this situation is experienced or suspected, medical advice should be obtained and treatment should be discontinued. The possibility of MOH should be taken into consideration in patients who have frequent or daily headaches despite (or because of) the regular use of headache medications.

Do not exceed the recommended dose of frovatriptan.

Undesirable effects may be more common during concomitant use of triptans (5HT agonists) and herbal preparations containing St John's Wort (*Hypericum perforatum*).

This medicinal product contains lactose, therefore patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Frovatriptan 2.5 mg Film-coated Tablets contains Sodium

This medicine contains less than 1 mmol sodium (23 mg) per dosage unit, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

CONTRAINDICATIONS OF CONCOMITANT USE

Ergotamine and ergotamine derivatives (including methysergide) and other 5-HT1 agonists:

Risks of hypertension and coronary artery constriction due to additive vasospastic effects when used concomitantly for the same migraine attack (see section 4.3).

Effects can be additive. It is recommended to wait at least 24 hours after administration of ergotamine-type medication before administering frovatriptan. Conversely it is recommended to wait 24 hours after frovatriptan administration before administering an ergotamine-type medication (see section 4.4).

CONCOMITANT USE NOT RECOMMENDED:

Monoamine Oxidase Inhibitors:

Frovatriptan is not a substrate for MAO-A; however, a potential risk of serotonin syndrome or hypertension cannot be excluded (see section 5.2).

CONCOMITANT USE REQUIRING CAUTION:

10 November 2022 CRN00D79W Page 3 of 9

Selective serotonin-reuptake inhibitors (citalopram, fluoxetine, fluvoxamine, paroxetine, sertraline):

Potential risk of hypertension, coronary vasoconstriction or serotonin syndrome.

Strict adherence to the recommended dose is an essential factor to prevent this syndrome.

Methylergometrine:

Risks of hypertension, coronary artery constriction.

Fluvoxamine:

Fluvoxamine is a potent inhibitor of cytochrome CYP1A2 and has been shown to increase the blood levels of frovatriptan by 27-49%.

Oral contraceptives:

In female subjects taking oral contraceptives, concentrations of frovatriptan were 30% higher than in females not taking oral contraceptives. No increased incidence in the adverse event profile was reported.

Hypericum perforatum (St. John wort) (oral route):

As with other triptans the risk of the occurence of serotonin syndrome may be increased.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited amount of data from the use of frovatriptan in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown. Frovatriptan is not recommended during pregnancy and in women of childbearing potential not using contraception, unless clearly necessary.

Breast-feeding

It is unknown whether Frovatriptan/metabolites are excreted in human milk. Frovatriptan and/or its metabolites are excreted in the milk of lactating rats with the maximum concentration in milk being four-fold higher than maximum blood levels. A risk to the breastfeeding newborns/infants cannot be excluded. Frovatriptan is not recommended during breast-feeding, unless is clearly needed. In this case, a 24 hours interval must be observed.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed.

Migraine or treatment with frovatriptan may cause somnolence.

Patients should be advised to evaluate their ability to perform complex tasks such as driving during migraine attacks and following administration of frovatriptan.

4.8 Undesirable effects

Frovatriptan has been administered to over 2,700 patients at the recommended dose of 2.5 mg and the most common side effects (<10%) include dizziness, fatigue, paraesthesia, headache and vascular flushing. The undesirable effects reported in clinical trials with frovatriptan were transient, generally mild to moderate and resolved spontaneously.

Some of the symptoms reported as undesirable effects may be associated symptoms of migraine.

The table below shows all the adverse reactions that are considered to be related to treatment with 2.5 mg frovatriptan and showed a greater incidence than with placebo in the 4 placebo controlled trials.

10 November 2022 CRN00D79W Page 4 of 9

They are listed in decreasing incidence by body-system. Adverse reactions collected in the post-marketing experience are noted with an asterisk *

The frequency is defined using the following convention:

Very common (> 1/10); Common (>1/100, <1/10); Uncommon (>1/1,000, <1/100); Rare (>1/10,000, <1/10,000); Very rare (<1/10,000), Not known (cannot be estimated from the available data).

System organ class	Frequency	Adverse reaction
Blood and the lymphatic system disorders	Rare	Lymphadenopathy
Immune system disorders	Not known	hypersensitivity reactions* (including cutaneous
		disorders), angioedema and anaphylaxis
	Uncommon	Dehydration
Metabolism and nutrition disorders	Rare	Hypoglycaemia
Psychiatric disorders	Uncommon	Anxiety, insomnia, confusional state, nervousness,
		agitation, depression, depersonalisation
	Rare	Abnormal dreams, personality disorder
Nervous system disorders		Dizziness, paraesthesia, headache, somnolence,
	Common	dysaesthesia, hypoaesthesia
	Uncommon	Dysgeusia, tremor, disturbance in attention, lethargy,
		hyperaesthesia, sedation, vertigo, involuntary muscle
		contractions
	Rare	Amnesia, Hypertonia, Hypotonia, hyporeflexia,
		movement disorder
	Common	Visual disturbance
Eye disorders	Uncommon	Eye pain, eye irritation, photophobia
-, c a.so. ac.s	Rare	Night blindness
Ear and labyrinth disorders	Uncommon	Tinnitus, ear pain
	Rare	Ear discomfort, ear disorder, ear pruritus, hyperacusis
Cardiac disorders	Uncommon	Palpitations, tachycardia
	Rare	Bradycardia
	Not known	Myocardial infarction*, Arteriospasm coronary*
	Common	Flushing
Vascular disorders	Uncommon	Peripheral coldness, Hypertension
Respiratory, thoracic and mediastinal disorders	Common	Throat tightness
	Uncommon	Rhinitis, sinusitis, pharingolaringeal pain
	Rare	Epistaxis, hiccups, hyperventilation, respiratory disorder,
		throat irritation
	Common	Nausea, dry-mouth, dyspepsia, abdominal pain
Gastrointestinal disorders	Common	Diarrhea, dysphagia, flatulence, stomach discomfort,
	Uncommon	abdominal distension
		Constipation, eructation, gastroesophageal reflux
	Rare	disease, irritable bowel syndrome, lip blister, lip pain,
		oesophageal spasm, oral mucosal blistering, peptic
		ulcer, salivary gland pain, stomatitis, toothache
Skin and subcutaneous tissue disorders	Common	Hyperhidrosis
	Uncommon	Pruritus
	Rare	Erithema, piloerection, purpura, urticarial
Musculoskeletal and connective tissue disorders	Uncommon	Musculoskeletal stiffness, musculoskeletal pain, pain in
		extremity, back pain, arthralgia
	Uncommon	Pollakiuria, polyuria
Renal and urinary disorders	Rare	Nocturia, renal pain
Reproductive system and breast disorders	Rare	Breast tenderness
General disorders and administration site conditions	Common	Fatigue, chest discomfort
	Uncommon	Chest pain, feeling hot, temperature intolerance, pain,
		asthaenia, thirst, sluggishness, energy increased,
		malaise
	Rare	Pyrexia
Investigations	Rare	Blood bilirubin increased, blood calcium decreased,
10 November 2022 CRN00D79V		Page 5 of 9

10 November 2022 CRN00D79W Page 5 of 9

		urine analysis abnormal
Injury, poisoning and procedural complications	Rare	Bite

In two open long-term clinical studies the observed effects were not different from those listed above.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, website: www.hpra.ie; E-mail: medsafety@hpra.ie.

4.9 Overdose

There is limited data on overdose with frovatriptan tablets. The maximum single oral dose of frovatriptan given to male and female patients with migraine was 40 mg (16 times the recommended clinical dose of 2.5 mg) and the maximum single dose given to healthy male subjects was 100 mg (40 times the recommended clinical dose). Both were not associated with side effects other than those mentioned in section 4.8. However, one post-marketing serious case of coronary vasospasm has been reported, following intake of 4 times the recommended dose of frovatriptan on three consecutive days, in a patient taking migraine prophylactic treatment with a tricyclic antidepressant. The patient recovered.

There is no specific antidote for frovatriptan. The elimination half-life of frovatriptan is approximately 26 hours (see section 5.2).

The effects of haemodialysis or peritoneal dialysis on serum concentrations of frovatriptan are unknown.

Treatment

In case of overdose with frovatriptan, the patient should be monitored closely for at least 48 hours and be given any necessary supportive therapy.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: analgesics selective (5-HT1) agonists

ATC code: N02CC07

Frovatriptan is a selective agonist for 5-HT receptors, which shows high affinity for $5-HT_{1B}$ and $5-HT_{1D}$ binding sites in radioligand assays and exhibits potent agonist effects at $5-HT_{1B}$ and $5-HT_{1D}$ receptors in functional bioassays. It exhibits marked selectivity for $5-HT_{1B/1D}$ receptors and has no significant affinity for $5-HT_2$, $5-HT_3$, $5-HT_4$, $5-HT_6$, α -adrenoreceptors, or histamine receptors.

Frovatriptan has no significant affinity for benzodiazepine binding sites.

Frovatriptan is believed to act selectively on extracerebral, intracranial arteries to inhibit the excessive dilatation of these vessels in migraine. At clinically relevant concentrations, frovatriptan produced constriction of human isolated cerebral arteries with little or no effect on isolated human coronary arteries.

The clinical efficacy of frovatriptan for treatment of migraine headache and accompanying symptoms was investigated in three multicenter placebo-controlled studies. In these studies, frovatriptan 2.5 mg was consistently superior to placebo in terms of headache response at 2- and 4-hours post-dosing and time to first response. Pain relief (reduction from moderate-or severe headache to no or mild pain) after 2 hours was 37-46% for frovatriptan and 21-27% for placebo.

Complete pain relief after 2 hours was 9-14% for frovatriptan and 2-3% for placebo. Maximum efficacy with frovatriptan is reached in 4 hours.

In a clinical study comparing frovatriptan 2.5 mg with sumatriptan 100 mg, the efficacy of frovatriptan 2.5 mg was slightly lower than that of sumatriptan 100 mg at 2 hours and 4 hours. The frequency of undesirable events was slightly lower with

10 November 2022 CRN00D79W Page 6 of 9

frovatriptan 2.5 mg compared to sumatriptan 100 mg. No study comparing frovatriptan 2.5 mg and sumatriptan 50 mg has been carried out.

In elderly subjects in good health, transient changes in systolic arterial pressure (within normal limits) have been observed in some subjects, following a single oral dose of frovatriptan 2.5 mg.

5.2 Pharmacokinetic properties

Absorption

After administration of a single oral 2.5 mg dose to healthy subjects, the mean maximum blood concentration of frovatriptan (C_{max}), reached between 2 and 4 hours, was 4.2 ng/mL in males and 7.0 ng/mL in females. The mean area under the curve (AUC) was 42.9 and 94.0 ng.h/mL for males and females respectively.

The oral bioavailability was 22% in males and 30% in females. The pharmacokinetics of frovatriptan were similar between healthy subjects and migraine patients and there was no difference in pharmacokinetic parameters in the patients during a migraine attack or between attacks.

Frovatriptan displayed generally linear pharmacokinetics over the dose range used in clinical studies (1 mg to 40 mg). Food had no significant effect on the bioavailability of frovatriptan, but delayed t_{max} slightly by approximately 1 hour.

Distribution

The steady state volume of distribution of frovatriptan following intravenous administration of 0.8 mg was 4.2 L/kg in males and 3.0 L/kg in females.

Binding of frovatriptan to serum proteins was low (approximately 15%). Reversible binding to blood cells at steady state was approximately 60% with no difference between males and females. The blood: plasma ratio was about 2:1 at equilibrium.

Biotransformation

Following oral administration of radiolabelled frovatriptan 2.5 mg to healthy male subjects, 32% of the dose was recovered in urine and 62% in faeces. Radiolabelled compounds excreted in urine were unchanged frovatriptan, hydroxy frovatriptan, N-acetyl desmethyl frovatriptan, and desmethyl frovatriptan, together with several other minor metabolites. Desmethyl frovatriptan had about 3-fold lower affinity at 5-HT₁ receptors than the parent compound. N-acetyl desmethyl frovatriptan had negligible affinity at 5-HT₁ receptors. The activity of other metabolites has not been studied.

The results of in vitro studies have provided strong evidence that CYP1A2 is the cytochrome P450 isoenzyme primarily involved in the metabolism of frovatriptan. Frovatriptan does not inhibit or induce CYP1A2 in vitro.

Frovatriptan is not an inhibitor of human monoamine oxidase (MAO) enzymes or cytochrome P450 isozymes and therefore has little potential for drug-drug interactions (see section 4.5).

Frovatriptan is not a substrate for MAO.

Elimination

The elimination of frovatriptan is biphasic with a distribution phase prevailing between 2 and 6 hours. Mean systemic clearance was 216 and 132 mL/min in males and females, respectively. Renal clearance accounted for 38% (82 mL/min) and 49% (65 mL/min) of total clearance in males and females, respectively. The terminal elimination half-life is approximately 26 hours, irrespective of the sex of the subjects, however the terminal elimination phase only becomes dominant after about 12 hours.

Gender

AUC and C_{max} values for frovatriptan are lower (by approximately 50%) in males than in females. This is due, at least in part, to the concomitant use of oral contraceptives. Based on the efficacy or safety of the 2.5 mg dose in clinical use, dosage adjustment with respect to gender is not necessary (see section 4.2).

Elderly

In healthy elderly subjects (65 to 77 years) AUC is increased by 73% in males and by 22% in females, compared to younger subjects (18 to 37 years). There was no difference in t_{max} or $t_{1/2}$ between the two populations (see section 4.2).

Renal Impairment

10 November 2022 CRN00D79W Page 7 of 9

Systemic exposure to frovatriptan and its $t_{1/2}$ were not significantly different in male and female subjects with renal impairment (creatinine clearance 16 - 73 mL/min), compared to that in healthy subjects.

Hepatic Impairment

Following oral administration in male and female subjects aged 44 to 57, with mild or moderate hepatic impairment (Child-Pugh grades A and B), mean blood concentrations of frovatriptan were within the range observed in healthy young and elderly subjects. There is no pharmacokinetic or clinical experience with frovatriptan in subjects with severe hepatic impairment (see section 4.3).

5.3 Preclinical safety data

During toxicity studies after single or repeated administration, preclinical effects were only observed at exposure levels in excess of the maximum exposure level in man.

Standard genotoxicity studies did not reveal a clinically relevant genotoxic potential of frovatriptan. Frovatriptan was foetotoxic in rats, but in rabbits foetotoxicity was observed only at maternally toxic dose levels.

Frovatriptan was not potentially carcinogenic in standard rodent carcinogenicity studies and in p53 (+/-) mouse studies at exposures considerably higher than anticipated in humans.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core
Silicified Microcrystalline cellulose
Lactose
Silicon dioxide
Sodium starch glycolate, Type A
Magnesium stearate

Film coat
Hypromellose (E464)
Lactose monohydrate
Macrogol 3350 (E1521)
Triacetin
Titanium dioxide (E171)

6.2 Incompatibilities

Not applicable

6.3 Shelf life

30 months

6.4 Special precautions for storage

Do not store above 30°C

6.5 Nature and contents of container

Frovatriptan 2.5 mg Film-coated Tablets are packed in blister strips formed from PVC/PE/PCTFE white opaque copolymer: Al lidding foil blisters

Pack sizes: 1, 2, 3, 4, 6 and 12 tablets.

10 November 2022 CRN00D79W Page 8 of 9

Not all pack sizes may be marketed

6.6 Special precautions for disposal and other handling

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7 MARKETING AUTHORISATION HOLDER

Chanelle Medical Unlimited Company Loughrea Co. Galway Ireland

8 MARKETING AUTHORISATION NUMBER

PA0688/027/001

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 19th July 2013 Date of last renewal: 2nd July 2018

10 DATE OF REVISION OF THE TEXT

November 2022

10 November 2022 CRN00D79W Page 9 of 9