Primperan® 10 mg / 2 ml Solution for injection in ampoules

Metoclopramide hydrochloride anhydrous

1. NAME OF THE MEDICINAL PRODUCT

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

for one 2 ml ampoule.

Excipients: sodium.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Primperan 10 mg/2 ml solution for injection in ampoules is indicated for

prevention of post-operative nausea and vomiting, - symptomatic treatment of nausea and vomiting, including nausea and

vomiting induced by migraine attacks,

— prevention of radiotherapy-induced nausea and vomiting.

Pediatric population
Primperan 10 mg/2 ml solution for injection in ampoules is indicated in children aged 1 to 18 years for:

— prevention of delayed chemotherapy-induced nausea and vomiting as

second-line option

prevention of post-operative nausea and vomiting as a second-line

4.2. Posology and method of administration
The solution can be administered by the intravenous or intramuscular

The intravenous doses must be administered as a slow bolus (for at least

All indications (adults)

A single 10 mg dose is recommended for the prevention of post-operative nausea and vomiting.
The recommended dose for the symptomatic treatment of nausea and

vomiting, including nausea and vomiting induced by migraine attacks and for the prevention of radiotherapy-induced nausea and vomiting is 10 mg, 1 to 3 times daily. The maximum recommended daily dose is 30

mg or 0.5 mg/kg. Treatment duration when administering by injection should be as short as possible and a switch to administration via oral or rectal route should

be instituted as quickly as possible.

All indications (children from 1 to 18 years of age)
The recommended dose is 0.1 to 0.15 mg/kg, 1 to 3 times daily, by intravenous route. The maximum daily dose is 0.5 mg/kg

Age	Bodyweight	Dose	Frequency
1-3 years	10-14 kg	1 mg	up to 3 times a day
3-5 years	15-19 kg	2 mg	up to 3 times a day
5-9 years	20-29 kg	2.5 mg	up to 3 times a day
9-18 years	30-60 kg	5 mg	up to 3 times a day
15-18 years	over 60 kg	10 mg	up to 3 times a day

For the prevention of delayed chemotherapy-induced nausea and vomiting, the maximum treatment duration is 5 days.
For the prevention of post-operative nausea and vomiting, the maximum treatment duration is 48 hours.

Frequency of administrationAn interval of at least 6 hours should be left between two doses, even if vomiting or rejection of the dose occurs (see section 4.4).

Special populations
Elderly subjects
In elderly subjects, a dose reduction should be considered, taking into

account kidney and liver function and overall frailty. <u>Kidney failure</u>
In patients with end-stage kidney failure (creatinine clearance ≤ 15

ml/min), the daily dose should be reduced by 75%. In patients with moderate to severe kidney failure (creatinine clearance between 15 and 60 ml/min), the dose should be reduced by 50% (see

In patients with severe liver failure, the dose should be reduced by 50% (see section 5.2).

Other pharmaceutical forms may be more suitable for use in this patient

Pediatric population
Metoclopramide is contraindicated in children aged less than one year (see section 4.3).

4.3. Contraindications-Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

In Section 6.1.
Gastrointestinal hemorrhage, mechanical obstruction or gastrointestinal perforation, in which the stimulation of gastrointestinal motility is a risk.
-Known history of neuroleptic- or metoclopramide-induced tardive

-Epilepsy (increase in the frequency and intensity of seizures)
-Parkinson's disease.

-Confirmed or suspected pheochromocytoma, due to the risk of episodes of severe hypertension
-In combination with levodopa or dopamine agonists (see section4.5).

-Known history of methemoglobinemia with metoclopramide or NADH-cytochrome b5 reductase deficiency. -In children under one year of age due to the increased risk of

extrapyramidal disorders (see section 4.4)

4.4. Special warnings and precautions for use

Neurological disorders

Extrapyramidal disorders may occur, particularly in children and young
adults, and/or when high doses are used. These reactions generally occur
at the beginning of treatment, and can occur after a single dose. If extrapyramidal symptoms occur, metoclopramide should be discontinued immediately. These effects are generally completely reversible after treatment discontinuation; however, symptomatic treatment may be required (benzodiazepines in children, and/or anticholinergic antiparkinsonian medicinal products in adults). An interval of at least six hours should be left between each dose (see section 4.2), even if vomiting or rejection of the dose occurs, in order to

avoid overdose.

Long-term treatment with metoclopramide may cause potentially irreversible tardive dyskinesia, particularly in elderly subjects. Treatment should not exceed 3 months because of the risk of tardive dyskinesia (see section 4.8). Treatment must be discontinued if clinical signs of tardive dyskinesia occur.

dyskinesia occur. Neuroleptic malignant syndrome has been described with metoclopra mide in combination with neuroleptics and with metoclopramide monotherapy (see section 4.8). Metoclopramide must be immediately discontinued if symptoms of neuroleptic malignant syndrome develop and appropriate treatment should be initiated.

Particular caution should be exercised in patients with underlying neurological disorders, and in patients receiving other centrally-acting

Symptoms of Parkinson's disease may also be exacerbated by

Methemoglobinemia Methemoglobinemia, which could be related to NADH-cytochrome b5 reductase deficiency, has been reported. If this occurs, treatment must be immediately and permanently discontinued, and appropriate measures initiated (such as treatment with methylene blue)

Cardiac disorders Serious cardiovascular undesirable effects, including cases of severe bradycardia, circulatory collapse, cardiac arrest and QT prolongation have been reported during administration of metoclopramide by injection, particularly via the intravenous route (see section 4.8). Particular caution should be exercised when administering metoclopramide, particularly via the intravenous route, in elderly subjects, patients with cardiac conduction disorders (including QT prolongation), patients with electrolyte imbalance, bradycardia, and

patients taking other drugs known to prolong QT interval.

The intravenous injection must be given as a slow bolus (of at least 3 minutes' duration) in order to reduce the risk of undesirable effects (e.g.

Kidney or liver failure In patients with kidney failure or severe liver failure, a dose reduction is recommended (see section 4.2).
This medicine contains sodium. The sodium content is less than 1 mmol

per dose, i.e. it is "sodium-free" 4.5. Interaction with other medicinal products and other forms of

Contraindicated combinations
Dopaminergic agonists or levodopa and metoclopramide have a mutual antagonism (see section 4.3).

Inadvisable combinations
Alcohol potentiates the sedative effects of metoclopramide

Combinations to be taken into account

Due to the prokinetic effect of metoclopramide, the absorption of certain drugs may be modified.

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Anticholinergic agents and morphine derivatives

Anticholinergic agents or morphine derivatives and metoclopramide have a mutual antagonism on gastrointestinal motility.

Central nervous system depressants (morphine derivatives, anxiolytics, sedative) H1 antihistamines, sedative antidepressants, barbiturates, clonidine and related

products)
Sedative effects of central nervous system depressants and metoclopramide are potentiated

Metoclopramide may have an additive effect with other neuroleptics on the occurrence of extrapyramidal disorders. Secutionergic agents
The use of metoclopramide with serotonergic drugs such as SSRIs may increase

the risk of serotonin syndrome Metoclopramide may decrease digoxin bioavailability. Close monitoring of

plasma digoxin concentrations is required. Cyclosporin Metoclopramide increases cyclosporin bioavailability (Cmax by 46%, and systemic exposure by 22%). Careful monitoring of plasma cyclosporin concentrations is necessary. The clinical consequences are uncertain. Mivacurium and suxamethonium

Metoclopramide injection may prolong the duration of neuromuscular block by

inhibiting plasma cholinesterase Potent CYP2D6 inhibitors

Increase in the parameters for exposure to metoclopramide when combined with potent CYP2D6 inhibitors, such as fluoxetine and paroxetine. Despite the unknown clinical relevance, adverse effects must be monitored.

4.6. Pregnancy and lactation

Pregnancy
The extensive data on pregnant women (more than 1000 pregnancies) have not indicated any teratogenic or fetotoxic effects. Metoclopramide can be used during pregnancy if necessary. For pharmacological reasons (by analogy with other neuroleptic agents), if metoclopramide is administered at the end of pregnancy, extrapyramidal syndrome in the newborn cannot be ruled out. Metoclopramide must be avoided at the end of pregnancy. If it is used, the neonate must be monitored.

Metoclopramide is excreted in breast milk at low levels. Undesirable effects in the breast-fed baby cannot be ruled out. Metoclopramide is not therefore recommended during breast-feeding. Discontinuation of metoclopramide must be considered in breast-feeding women.

4.7. Effects on ability to drive and use machines

Metoclopramide may cause drowsiness, dizziness, dyskinesia and dystonia which could affect vision and also interfere with the ability to drive and operate

The undesirable effects
The undesirable effects are listed by System-Organ Class. Undesirable effects have been ranked by frequency using the following convention: very common (≥ 1/10); common (≥ 1/10) uncommon (≥ 1/10,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000) and very rare (< 1/10,000), frequency not known (cannot be estimated from the available data).

ystem Organ Class	Frequency	Undesirable effect
lood and lymphat	c system dis	orders
		Methemoglobinemia, possibly due to NADH
		cytochrome b5reductase deficiency,particularly
		in neonates(see section4.4)
		Sulfhemoglobinemia mainly with concomitant administration of high doses of sulfate-
		releasing medicinal products
ardiac disorders		
	Uncommon	Bradycardia, particularly with the intravenous
		forms
	not known	Cardiac arrest, occurring shortly after administration by injection, and possibly
		following on from bradycardia (con coction 4.4)

			Liorms
		Frequency	Cardiac arrest, occurring shortly after
		not known	administration by injection, and possibly
			following on from bradycardia (see section 4.4
			atrioventricular block, sinus arrest particularly
.			with the intravenous route; QT interval
t			prolongation on ECG; torsades de pointes
	Endocrine disorders	*	g
			Amenorrhea, hyperprolactinemia
		Rare	Galactorrhea
		Frequency	Gynecomastia
.		not known	·
1	Gastrointestinal disorders		
		Common	Diarrhea
General disorders and administration site conditions		ation site conditions	
			Asthenia
	Immune system dis	orders	
			Hypersensitivity
			Anaphylactic reaction (including anaphylactic
			shock)particularly with the intravenous route
S	ervous system disorders		
		Very	Drowsiness
		common	

		common	
			Extrapyramidal disorders (particularly in
			children and young adults and/or when the
			recommended dose is exceeded, even
			following administration of a single dose) (see
			section 4.4), parkinsonism, akathisia
			Dystonia, dyskinesia, consciousness disorders
r			Seizures, especially in epileptic patients
			Tardive dyskinesia which may be persistent,
			during or after long-term treatment,
			particularly in elderly patients (see section 4.4),
			neuroleptic malignant syndrome (see section
			4.4)
	Psychiatric disorder		
			Depression with mild to severe symptoms
			including suicidal ideation
		Uncommon	Hallucination
		Rare	Confusional state
	Vascular disorders		
P			Hypotension, particularly with the intravenous
C			forms.

	not known	Transient increase in blood pressure, shock, syncope after use of the injection form. Hypertensive crisis in patients with pheochromocytoma (see section 4.3)		
		ng-term treatment in relation to		
hyperprolactinemia (amenorrhea, galactorrhea, gynecomastia).				
The following effects, sometimes in combination, usually occur when high				
laces are used.				

usses are used:

Extrapyramidal symptoms: acute dystonia and dyskinesia, parkinsonisr akathisia, including after administration of a single dose of the medicinal

product, particularly in children and young adults (see section 4.4). Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorization 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.

4.9. Overdose

<u>Symptoms</u> Extrapyramidal symptoms, drowsiness, consciousness disorders, confusion, allucinations, hypertensive crisis and even cardiorespiratory arrest may occur.

Management of overdose: Treatment of extrapyramidal symptoms, whether or not related to overdose, is only symptomatic (benzodiazepines in children, and/or anticholinergic antiparkinsonian medicinal products in adults).

Symptomatic treatment and continuous monitoring of cardiovascular and

respiratory function should be implemented, depending on clinical condition 5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic propertiesPharmacotherapeutic group: **PROPULSIVES**ATC Code: A03FA01

(A: Alimentary tract and metabolism)
Metoclopramide is a dopaminergic antagonist neuroleptic. It prevents vomiting by blocking dopamine sites.

5.2. Pharmacokinetic properties

Metoclopramide is extensively distributed in tissue. The volume of distribution is 2.2 to 3.4 l/kg. Plasma protein binding is low. The drug crosses the placental barrier and is excreted in breast-milk. Metabolism

sulfoconjugated form

Metoclopramide is mainly excreted in the urine in the unbound or

Kidney failureMetoclopramide clearance is reduced by up to 70% in patients

The elimination half–life is 5 to 6 hours. The half-life increases

with severe kidney failure, whereas the plasma elimination half-life is increased (approximately 10 hours for a creatinine clearance of 10-50 ml/minute, and 15 hours for a creatinine clearance of <10 ml/minute)

Liver failure
Accumulation of metoclopramide has been observed in patients with cirrhosis of the liver, associated with a 50%

reduction in plasma clearance. 5.3. Preclinical safety data

6 PHARMACEUTICAL PARTICULARS

in patients with kidney or liver failure

<u>6.1. List of excipients</u> Sodium chloride, water for injection

6.2 Incompatibilities

Because of the lack of compatibility studies, this medicinal product must not be mixed with other medicines

After opening: the product must be used immediately

6.4. Special precautions for storage Refere to the outer pack 6.5 Nature and contents of container
Type I colorless glass ampoule containing 2ml. Box of 3,6,12 or

6.6 Special precautions for disposal and other handling

No special requirements.

7 MARKETING AUTHORIZATION HOLDER SANOFI-AVENTIS FRANCE

82, avenue Raspail 94250 Gentilly

France

8 . MARKETING AUTHORIZATION NUMBER(S) 318257-9: 2 ml in (colorless glass) ampoule, box of 3 (not marketed)

322026-8: 2 ml in (colorless glass) ampoule, box of 6 (not 308616-6:2 ml in (colorless glass) ampoule, box of 12 551753-5:2 ml in (colorless glass) ampoule, box of 60 (not marketed)

9. DATE OF FIRST AUTHORIZATION/RENEWAL OF THE

AUTHORIZATION

10 . DATE OF REVISION OF THE TEXT

12. INSTRUCTIONS FOR PREPARATION OF RADIOPHARMACEUTICALS

GENERAL CLASSIFICATION FOR PRESCRIPTION AND SUPPLY

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