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GRAFICA - FOTOCOMPOSIZIONE

Via G. Tartini, 2 - 20158 - MILANO

AZIENDA CERTIFICATA UNI EN ISO 9001:2015

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Versione interna: 01

Impianto di proprietà della:



Bracco s.p.a. via E. Folli, 50 - 20134 Milano - Italy

patheon

by Thermo Fisher Scientific

Patheon Italia S.p.A. viale G.B. Stucchi, 110 - 20900 Monza (MB) - Italy

Cliente: BRACCO s.p.a.

Prodotto: IOPAMIRO (INDONESIA)

SPECIFICA RIFERIMENTO: SF0003 IS+P	Materiale: Istruzione	Codice Patheon: 000000	Codice Patheon superato: 256785	Codice Bracco: CI003L04	Codice Bracco superato: CI003L03
Dimensioni: 150x560 mm	Stesa ☒	Piegata ☒	Bobina ☐	Pre taglio ☐	CODICE LAETUS
Colori n°:	Black				
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Modifica rispetto la versione precedente: SAFETY UPDATE AND DELETION OF STRENGTHS/PACK SIZES NO MORE REGISTERED

Packaging Development	Data Emissione	Data Obsolescenza	Status

I colori su questa prova sono approssimativi, questa è una stampa a 600 dpi ottenuta con colori a base acqua CMYK. Definizione e colori non riflettono il risultato finale della produzione stampa.

FRONTE - Font size heading c.19.5 - Font size subheading c.10 - Font size main text c.8.5 - Font size line-spacing 11

SENSO MACCHINA LETTURA CODICE

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lopamiro®

lopamidol

The product lopamiro (lopamidol) was discovered and developed in the research laboratories of Bracco (Milan - Italy). Chemically the substance is: (S)-N,N'-bis [2-hydroxy-1-(hydroxymethyl)-ethyl]-2,4,6-triiodo-5-lactamido-isophtalamide.

lopamiro is a x-ray contrast medium of the new generation of non ionic compounds, which are water soluble because the molecular structure incorporates hydrophilic groups. This new class of contrast media differs significantly from other compounds currently used in connection with radiological procedures, all of which are soluble only when the radiopaque molecule is ionised by forming a salt with sodium and/or meglumine.

While such products are remarkably well tolerated, their aqueous solutions show an inherently high osmolality and this is responsible for a number of side effects that may occur after administration. The discovery of non ionic contrast agents has afforded, along with a sizable reduction of general toxicity, a considerable improvement in local and tissue tolerability, even by the more delicate structures of the human body such as vascular endothelia and the central nervous system. The product is available as preconstituted solution in four different concentrations, with the following physical properties:

Concentration		Viscosity mPa.s		Relative density d ²⁰ ₄	Osmometric values at 37°C		pH
mg iodine/ ml	g iopamidol/ 100ml	20°C	37°C		Osmolality (osmol.kg-1)	Osmotic pressure (atm)	
300	61.2	8.8	4.7	1.33	0.616	15.7	7 ± 0.5
370	75.5	20.9	9.4	1.41	0.796	20.3	7 ± 0.5

The low osmotic pressure of solutions, the nonionic nature of the molecule and its inherently low chemotoxicity contribute to the exceptionally good local and systemic tolerability of lopamiro. The favourable results of extended biological and clinical investigations confirm the suitability of lopamiro as a contrast medium for intrathecal, intra-arterial and intravenous administration.

INDICATIONS

NEURORADIOLOGY: myeloradiculography, cisternography and ventriculography.

ANGIOGRAPHY: cerebral arteriography, coronary arteriography, thoracic aortography, abdominal aortography, angiocardiology, selective visceral arteriography, peripheral arteriography, venography, digital subtraction angiography (DSA), DSA of cerebral arteries, DSA of peripheral arteries, DSA of abdominal arteries.

UROGRAPHY: intravenous urography.

CONTRAST ENHANCEMENT IN CT SCANNING. ARTHROGRAPHY. FISTULOGRAPHY.

CONTRAINDICATIONS

There are no definite or absolute contraindications to the use of lopamiro, with the possible exception of Waldenström's macroglobulinemia, multiple myeloma, and severe liver and kidney diseases.

GENERAL WARNINGS AND SIDE EFFECTS

The use of organic iodine compounds may cause untoward side effects and manifestations of anaphylaxis.

The symptoms include nausea, vomiting, widespread erythema, generalized heat sensation, headache, coryza or laryngeal edema, fever, sweating, asthenia, dizziness, pallor, dyspnoea and moderate hypotension. Skin reactions may occur in the form of various types of rash or diffuse blister formation.

Severe cutaneous adverse reactions (SCARs), such Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (Lyell's syndrome or TEN) and acute generalised exanthematous pustulosis (AGEP), which can be life threatening, have been reported in patients administered lopamiro. At the time of initiation, patients should be advised of the signs and symptoms and monitored closely for severe skin reactions. If signs and symptoms suggestive of these reactions appear, further use of lopamiro should be withheld. If the patient has developed a severe cutaneous adverse reaction with the use of lopamiro, lopamiro must not be re-administered in this patient at any time. More severe reactions involving the cardiovascular system such as peripheral vasodilation with pronounced hypotension, tachycardia, dyspnoea, agitation, cyanosis and loss of consciousness, may require emergency treatment. For these reasons the use of organic iodine contrast media must be limited to cases for which the diagnostic procedure is definitely indicated, as suggested by the patient's clinical status with special attention to existing pathology of the cardiovascular, urinary or hepatobiliary system. In particular, contrast media designed for cardioangiographic procedures should be used in hospitals or clinics equipped and staffed for intensive care in emergencies. For other more common diagnostic procedures calling for the use of iodinated contrast media, the public or private institutions, where such procedures take place, should be supplied at all times with all equipment and drugs that experience has shown to be suitable in case of an accident: the Ambu balloon, oxygen bottles, antihistamines, vasopressor drugs, cortisones.

Never mix other drugs with contrast medium solutions. When examining small children or babies, do not limit fluid intake before administering a hypertonic contrast solution; also, correct any existing water and electrolyte imbalance. Pregnant women and patients with hyperthyroidism should receive iodinated contrast media only if the attending physician finds it absolutely necessary. In patients scheduled for thyroid examination with a radioactive iodine tracer, bear in mind that iodine uptake in the thyroid gland will be reduced for several days (sometimes up to 2 weeks) after dosing with an iodinated contrast medium that is eliminated through the kidneys.

Encephalopathy has been reported with the use of lopamidol. This may manifest with symptoms and signs of neurological dysfunction such as headache, visual disturbance, cortical blindness, confusion, seizures, loss of coordination, hemiparesis, aphasia, unconsciousness, coma and cerebral oedema within minutes to hours after administration and generally resolves within days. Factors which increase blood-brain barrier permeability will ease the transfer of contrast media to brain tissue and may lead to possible CNS reactions, for instance encephalopathy. If contrast encephalopathy is suspected, iopamidol should not be re-administered and appropriate medical management should be initiated.

Transient thyroid suppression or hypothyroidism has been observed in children after exposure to iodinated contrast media. Following a diagnostic procedure, this has been more frequently observed in neonates and premature infants and also following procedures associated with higher doses. Neonates may also be exposed via maternal exposure. In neonates, especially preterm infants, who have been exposed to iopamidol, either through the mother during pregnancy or in the neonatal period, it is recommended to monitor thyroid function. If hypothyroidism is detected, the need for treatment should be considered and thyroid function should be monitored until normalised.

During post-marketing surveillance, the following adverse events have been reported after intravascular administration of lopamiro:

Blood and lymphatic system disorders: thrombocytopenia.

Immune system disorders: anaphylaxis, anaphylactoid reaction.

Nervous system disorders: coma, transient ischaemic attack, syncope, depressed level of consciousness or loss of consciousness, convulsion, hemiplegia, contrast induced encephalopathy.

Eye disorders: blindness transient, visual disturbance, conjunctivitis, photophobia.

Cardiac disorders: myocardial ischaemia or infarction, cardiac failure, cardio-respiratory arrest, tachycardia, Kounis syndrome.

Vascular disorders: circulatory collapse or shock.

Respiratory, thoracic and mediastinal disorders: respiratory arrest, respiratory failure, acute respiratory distress syndrome, respiratory distress, apnoea, laryngeal oedema, dyspnoea.

Gastrointestinal disorders: salivary hypersecretion, salivary gland enlargement.

Skin and subcutaneous tissue disorders: face oedema, acute generalised exanthematous pustulosis (AGEP).

Musculoskeletal and connective tissue disorders: musculoskeletal pain, muscular weakness.

General disorders and administration site conditions: rigors, pain, malaise.

Investigations: electrocardiogram change including ST segment depression.

Children: cases of transient neonatal hypothyroidism have been reported with lopamidol in very low birth weight infants.

NEURORADIOLOGY

	Concentration (mg iodine/ml)	Recommended dosage (ml)
Myeloradiculography	300	5-15
Cisternography and ventriculography	300	5-15

Warnings and side effects

In the event of CSF blockade, remove as much of the administered contrast solution as possible. The use of organic iodine contrast media may be contraindicated for patients with a history of epilepsy. Also the presence of blood in the CSF contraindicates the use of lopamiro: in such cases, the operator should carefully assess the need for the diagnostic procedure against possible risk to the patient. Patients receiving treatment with anticonvulsant drugs must continue such treatment before and after the procedure. Should a convulsive seizure develop during the examination, administer diazepam or sodium phenobarbital intravenously.

Neuroleptics must be absolutely avoided because they lower the seizure threshold. The same applies to analgesics, antiemetics, antihistamines and sedatives of the phenothiazine group. Whenever possible, treatment with such drugs should be discontinued at least 48 hours before administration of the contrast medium and not be resumed less than 12 hours after completion of the procedure.

DISETUJUI OLEH BPOM: 02/09/2022

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