# A NEW SYRINGE -

IN PLASTIC





AVAILABLE IN ALL FORMATS

### **TECHNICAL INFORMATIONS**

PRODUCT DESCRIPTION	CODE
PFS Plastic syringe 10 ml	XXXX
PFS Plastic syringe 15 ml	XXXX
PFS Plastic syringe 20 ml	XXXX
StarClip Kit	XXXX

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If you need more informations, feel free to contact your sales representative

Optistar Elite Contrast Delivery System is a medical device intended for use by qualified healthcare professionals. It is intended to inject MR contrast media and flushing solutions into a patient's vascular system to obtain diagnostic images when used in conjunction with Magnetic Resonance (MR) Imaging equipment. For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations -

DOTAREM 0.5 mmol/mL, solution for injection. Composition: For 100 mL of solution: active ingredient: Gadoteric Acid 27.932 g corresponding to: DOTA 20.246 g corresponding to gadolinium oxide 9.062 g. Indications (\*): Medicinal product for diagnostic use only: Magnetic Resonance Imaging for cerebral and spinal disease, diseases of the vertebral column, and other whole-body pathologie (including angiography). Dotarem should be used only when diagnostic information is essential and not available with unenhanced magnetic resonance imaging (MRI). Posology and method of administration: The recommended dose is 0.1 mmol/kg, i.e. 0.2 mL/kg in adults and children. The lowest dose that provides sufficient enhancement for diagnostic purposes should be used. The dose should be calculated based on the patient's body weight, and should not exceed the recommended dose per kilogram of body weight detailed in this section. In angiography, depe results of the examination being performed, a second injection may be administered during the same session if necessary. Angiography with Gadoteric acid is not recomm years). In Encephalic and spinal MBI, in some exceptional cases, as in the confirmation of isolated metastasis or the detection of leptomeningeal tumours, a second injection of 0.2 mmol/kg may improve tumor characterisation and facilitate therapeutic decision making. For patients with impaired renal function and paediatric population (0-18 years) more than one dose should not be used during a scan, injections should not be repeated unless the interval between injections is at least 7 days. The product must be administered by strict intravenous injection. Depending on the amount of gadoteric acid to be given to the child, it is preferable to use gadoteric acid vials with a single use syringe of a volume adapted to this amount in order to have a better precision of the injected volume. In neonates and infants the required dose should be administered by hand. Contraindications: Hypersensitivity to gadoteric acid, to meglumine or to any medicinal products confaining gadolinium. Special warnings and precautions for use: Dotarem must not be administered by subarachnoid (or epidural) injection. The usual precaution measures for MRI examination should godolinium: special writing and precision in experiments of precision in experiments o equipment should be available for immediate use. Hypersensitivity reactions can be aggravated in patients on betablockers and particularly in the presence of bronchial asthma. These patients may be refractory to standard treatment of hypersensitivity reactions with beta agonists. Impaired renal function: Prior to administration of gadoteric acid, it is recommended that all patients are screened for renal dysfunction by obtaining laboratory tests. There have been reports of Nephrogenic Systemic Fibrosis (NSF) associated with use of some gadolinium-containing contrast agents in patients with severe renal impairment (GFR < 30 ml/min/1.73 m2). As there is a possibility that NSF may occur with Dotarem, it should only be used in these patients after careful consideration. CNS disorders: As with other contrast agents containing gadolinium, special precautions should be taken in patients with a low seizure threshold. Precautionary measures, e.g. close monitoring, should be taken. All equipment and drugs necessary to counter any convulsions which may occur must be made ready for use beforehand. Interactions with other medi other forms of interaction: No interactions with other medicinal products have been observed. Formal drug interaction studies have not been carried out. Fertility, pregnancy and lactation: after administration of gadoteric acid. should be at the discretion of the doctor and lactating mother. Effects on ability to drive and use machines: No studies on the effects on the ability to drive and use machines have been performed. Ambulant patients while driving vehicles or operating machinery should take into account that nausea may incidentally occur. Undesirable effects: Uncommon (≥1/1000 to <1/100): hypersensitivity, headache, dysgeusia, dizziness, somnolence, paraesthesia (including burning sensation), hypertension, hypertension, nausea, abdominal pain, rash feeling but feeling cold astheria injection site reactions (extravasation pain discomfort pedema inflammation coldness). Pare (>1/1000) to <1/1000) anxiety presyncope evelid edema palpitations, sneezing, throat tightness, vomiting, diarrhea, salivary hypersecretion, Urticaria, pruritus, hyperhidrosis, chest pain, chills. Very rare (<1/10 000): anaphylactic reaction, anaphylactic reaction, agitation, coma, convulsion, syncope, tremor, parosmia, conjunctivitis, ocular hyperaemia, vision blurred, lacrimation increased, tachycardia, cardiac arrest, arrhythmia, bradycardia, flushing, pallor, vasodilatation, hot flush, cough, dyspnoea, nasal congestion, respiratory arrest, bronchospasm, throat irritation, larvngospasm, pharyngeal gedema, dry throat, pulmonary gedema, masking-paner, resolutation recording organization countries and a separation present and a separation present and a separative present paners. Personal present paners are separative present present paners and present pres recording of the gadolinium contrast agent used. The dose used should also be recorded. If electronic patient records are used, the name of the product, the batch number and the dose should be entered into the patient record. Pharmacolines: Pharmacolines: Pharmacolines are used to find the patient record. Pharmacolines: Pharmacolines: Pharmacolines are used to find the patient record. Pharmacolines: Pharmaco

For current and complete prescribing information refer to the package insert and/or contact your local Guerbet organization

(\*) Indications, presentations and marketing authorization holder may differ from country to country.

Reporting of suspected adverse reactions is important as it helps to continuously assess the benefit-risk balance. Therefore, Guerbet encourages you to report any adverse reactions to your health authorities or to our local Guerbet representative.



# **DOTAREM**®







### A LEADING CONTRAST AGENT WORLDWIDE



The first high stability macrocyclic in the market



Very high stability induced by macrocyclic structure (1)



No visible brain hyperintensities related to dechelated Gd following repeated injections (2)



No confirmed unconfounded cases of Nephrogenic Systemic Fibrosis (3,4,5)



Low rate of acute adverse events (6)



**Optimal performance** in adults and children diagnosis (7)

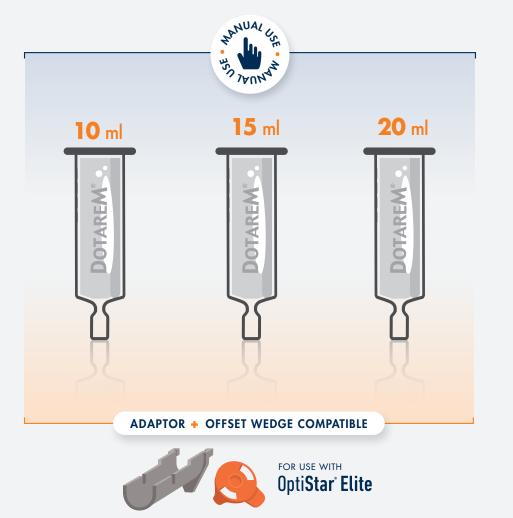




1. Mark Port et al. Biometal (2008) 21:465-490. 2. Radbruch A et al. Radiology. 2017 Jun;283(3):828-836. 3. USA Pl as of August 2018. https://www.accessdata.fda.gov/drugsatfda\_docs/label/2013/204781s000lbl.pdf 4. de Kerviler E et al. Invest Radiol. 2016 Sep;51(9):544-51. 5. Attari H, Cao Y, Elmholdt T, Zhao Y et al. A Systematic Review of 639 Patients with Biopsyconfirmed Nephrogenic Systemic Fibrosis. Radiology 2019; 00:1-11. 6. Dotarem® SmPc. 7. Martin Maurer et al. European Journal of Radiology 81 (2012) 885-890/Csilla Balassy et al. Pediatr Radiol (2015) 45:1831–1841). 8. Data on file

## **3 NEW SOLUTIONS**

TO HELP YOU IN YOUR DAILY JOB



### A NEW TECHNOLOGY STARCLIP

OPTIMIZED FOR THE NEW PLASTIC SYRINGE



