

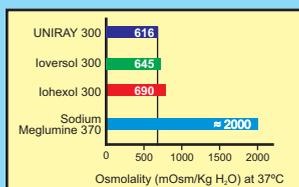
UNIRAY

IOPAMIDOL INJECTION USP

Low Osmolar Non-Ionic Contrast Media

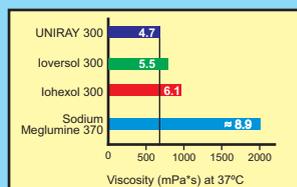
- Excellent general and systemic tolerability.
- Low incidences of adverse reactions.
- Reduced risk of neurotoxicity.
- Good endothelial tolerance.
- Minimal effect on cardiovascular system.
- Reduced pain during intra-arterial procedures.
- Usage convenience.

Comparative Osmolality

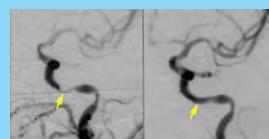


Lesser the Osmotic Pressure exerted by a contrast medium, better is the tolerance. High Osmolality is associated not only with pain and discomfort in injection but also with effects on the Haemodynamic System.

Comparative Viscosity



Lesser Viscosity in a contrast medium leads to lesser Haemodynamic changes. Low Viscosity ensures not only less pain and heat sensation but also ease of administration resulting in better patient compliance.



Cerebral Angioplasty: Stenosis of intracranial segment of left internal carotid artery before (left) and after (right) balloon angioplasty.



Translumbar aortography: The wall of the abdominal aorta is irregular, the lumen is narrow below the origin of the renal arteries. Occlusion of the common iliac artery is visible on the right (arrow). The open collaterals point to an earlier occlusion.



Brain meningioma. Middle fossa meningioma. Contrast-enhanced CT scan depicts a dense, enhancing mass.

COMPOSITION	UNIRAY 300	UNIRAY 370
Iopamidol	61.2 %	75.5 %
Iodine Concentration	300 mg/ml	370 mg/ml
pH	7 ± 0.5	7 ± 0.5
Viscosity (mPa*s)		
@ 37°C	4.7	9.4
@ 20°C	8.8	20.9
Osmolality (mOsm/g H ₂ O)		
@ 37°C	0.62	0.8

Painless ... Smooth ... Reliable



DOSAGE AND ADMINISTRATION

General

It is desirable that solution of radiopaque diagnostic agents for intravascular use be at body temperature when injected. In the event that crystallization of the medium has occurred, place the vial in hot (60° - 100°C) water for about five

minutes, then shake gently to obtain a clear solution. Cool to body temperature before use. Discard vial without use if solids persist. Patient should be well hydrated prior to and following UNIRAY administration.

INDICATIONS	UNIRAY 300	UNIRAY 370
NEURORADIOLOGY Myelographic, Cisternography	5 - 15 ml
ANGIOGRAPHY Cerebral Arteriography Coronary Arteriography & Ventriculography Thoracic aortography, Abdominal aortography & Angiocardiography Selective Visceral Arteriography & Aortography Peripheral Arteriography Digital Subtraction Angiography Venography Paediatric Angiocardiography	8 - 12 ml (bolus) Depending on examination 40 - 50 ml Depending on examination 30 - 50 ml 2 - 10 ml (bolus) 1 - 1.2 ml/kg body weight Depending on examination 10 - 50 ml Depending on examination Upto 2 years, 10 ml - 15 ml 2 - 9 years, 15 ml - 30 ml
UROGRAPHY Excretory Urography Paediatric Excretory Urography	50 ml rapid i.v. Injection 1 ml/kg - 4 ml/kg body weight	40 ml by rapid i.v. Injection
COMPUTED TOMOGRAPHY Head Body Paediatric Computed Tomography	100 - 200 ml 100 - 200 ml 1 ml/kg - 3 ml/kg body weight	Equivalent doses may be used
OTHER PROCEDURES Arthrography & Fistulography	Depending on examination

CONTRAINDICATIONS : There are no contraindication, except Waldenstrom's macroglobulinemia, multiple myeloma, severe liver and kidney diseases.

HOW SUPPLIED : UNIRAY 300 : Single dose Vials of 10ml, 20ml, 50 ml & 100ml

UNIRAY 370 : Single dose Vials of 20ml, 50ml & 100ml

STORAGE : Store at controlled room temperature 20°C to 30°C. Do not freeze, Protect from direct sunlight and secondary X-rays.

Inspect container for particulate matter before use. Discard unused portion.