

Conventional angiography		
Arteriography of upper extremities	300, 350	Adults ^b
Arteriography of pelvis and lower extremities	300, 350, 400	Adults ^b
Abdominal arteriography	300, 350, 400	Adults ^b
Arteriography of descending aorta	300, 350	Adults ^b
Pulmonary angiography	300, 350, 400	Adults: up to 170 ml
Cerebral angiography	300, 350	Adults: up to 100 ml
Paediatric arteriography	300	Children: up to 130 ml ^a
Interventional arteriography	300, 350, 400	Adults ^b Children ^a
Intraarterial DSA		
Cerebral	300, 350	Adults: 30 - 60 ml for general view; 5 - 10 ml for selective angiography Children ^a
Thoracic	300	Adults ^b : 20 - 25 ml (aorta) repeat if necessary 20 ml (bronchial arteries)
Aortic arch	300, 350	Adults ^c
Abdomen	300	Adults ^c
Aortography	300, 350	Adults ^c
Translumbal aortography	300	Adults ^b
Peripheral arteriography	300	Adults: 5 - 10 ml for selective injections up to 250 ml Children ^a
Interventional	300	Adults: 10-30 ml for selective injections up to 250 ml Children ^a
Angiocardiology	300, 350 ,400	Adults ^b Children: 3-5 ml/kg
Conventional selective coronary arteriography	300, 350, 400	Adults: 4-10 ml per artery, repeat if necessary
ERCP	300	Adults: up to 100 ml
Arthrography	300, 350	Adults: up to 10 ml per injection
Hysterosalpingography	300, 350	Adults: up to 35 ml
Fistulography	300, 350, 400	Adults: up to 100 ml
Discography	300	Adults: up to 4 ml
Galactography	300, 350, 400	Adults: 0.15 - 1.2 ml for injection
Dacryocystography	300, 350, 400	Adults: 2.5 - 8 ml for injection
Sialography	300, 350, 400	Adults: 1 - 3 ml for injection
Retrograde cholangiography	300, 350	Adults: up to 60 ml
Retrograde ureterography	300	Adults: 20 - 100 ml
Retrograde pyelo-ureterography	300	Adults: 10 - 20 ml for injection

^a = According to body weight and age.
^b = Do not exceed 250 ml. Single injection volume depends on the vascular area to be examined.
^c = Do not exceed 350 ml.

Overdosage

Overdosage may lead to life-threatening adverse effects mainly through effects on the pulmonary and cardiovascular system. Treatment of overdosage is directed toward the support of all vital functions and prompt institution of symptomatic therapy. Iomeprol does not bind to plasma or serum proteins and is therefore dialyzable. LD₅₀ values (g iodine/kg) for iomeprol and the respective 95% confidence limits in animals are:

intravenous:	19,9 (19,3 - 20,5) (mouse)	14,5 (13,2 - 16,0) (rat)	>12,5 (dog)
intraperitoneal:	26,1 (23,3 - 29,2) (mouse)	10 (8,9 - 11,3) (rat)	
intracerebral:	1,3 (1,2 - 1,5) (mouse)		
intracisternal:	> 1,2 (rat)		
intracarotid:	5,8 (4,64 - 7,25) (rat)		

Effects on ability to drive or to operate machinery

There is no known effect on the ability to drive or operate machines.

Undesirable effects

Side effects are usually mild to moderate and transient in nature. However, severe and life-threatening reactions sometimes leading to death have been reported. In most cases, reactions occur within minutes of dosing but at times reactions may occur at later time.

Anaphylaxis (anaphylactoid/hypersensitivity reactions) may manifest with various symptoms, and rarely does any one patient develop all the symptoms. Typically, in 1 to 15 min (but rarely after as long as 2 h), the patient complains of feeling abnormal, agitation, flushing, feeling hot, sweating increased, dizziness, lacrimation increased, rhinitis, palpitations, paraesthesia, pruritus, head throbbing, pharyngolaryngeal pain and throat tightness, dysphagia, cough, sneezing, urticaria, erythema, and mild localised oedema or angioedema and dyspnoea owing to tongue and laryngeal oedema and/or laryngospasm manifesting with wheezing and bronchospasm.

Nausea, vomiting, abdominal pain, and diarrhoea are also reported. These reactions, which can occur independently of the dose administered or the route of administration, may represent the first signs of circulatory collapse.

Administration of the contrast medium must be discontinued immediately and, if needed, appropriate specific treatment urgently initiated via venous access.

Severe reactions involving the cardiovascular system, such as vasodilatation, with pronounced hypotension, tachycardia, cyanosis and loss of consciousness progressing to respiratory and/or cardiac arrest may result in death. These events can occur rapidly and require full and aggressive cardio-pulmonary resuscitation.

Primary circulatory collapse can occur as the only and/or initial presentation without respiratory symptoms or without other signs or symptoms outlined above.

The adverse reactions reported in clinical trials among 4,920 adult patients and from post-marketing surveillance are represented in the tables below by frequency and classified by MedDRA system organ class.

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Adult patients involved in clinical trials with intravascular administration of iomeprol were 4,739.

Adults

System Organ Class	Adverse Reactions			
	Clinical Trials			Post-marketing Surveillance
	Common (≥1/100 to <1/10)	Uncommon (≥1/1000 to <1/100)	Rare (≥1/10,000 to <1/1000)	Frequency unknown*
Blood and lymphatic system disorders				Thrombocytopenia, Haemolytic anaemia
Immune system disorders				Anaphylactoid reaction
Psychiatric disorders				Anxiety, Confusional state
Nervous system disorders		Dizziness, Headache	Presyncope	Coma, Transient ischaemic attack, Paralysis, Syncope, Convulsion, Loss of consciousness, Dysarthria, Paraesthesia, Amnesia, Somnolence, Taste abnormality, Contrast induced encephalopathy***
Eye disorders				Blindness transient, Visual disturbance, Conjunctivitis, Lacrimation increased, Photopsia
Cardiac disorders			Bradycardia, Tachycardia, Extrasystoles	Cardiac arrest, Myocardial infarction, Cardiac failure, Angina pectoris, Arrhythmia, Ventricular or atrial fibrillation, Atrioventricular block, Cyanosis
Vascular disorders		Hypertension	Hypotension	Circulatory collapse or shock, Flushing, Pallor
Respiratory, thoracic and mediastinal disorders		Dyspnoea		Respiratory arrest, Acute respiratory distress syndrome (ARDS), Pulmonary oedema, Laryngeal oedema, Pharyngeal oedema, Bronchospasm, Asthma, Cough, Pharynx discomfort, Laryngeal discomfort, Rhinitis, Dysphonia
Gastrointestinal disorders		Vomiting, Nausea		Diarrhoea, Abdominal pain, Salivary hypersecretion, Dysphagia, Salivary gland enlargement
Skin and subcutaneous tissue disorders		Erythema, Urticaria, Pruritus	Rash	Acute generalized exanthematous pustulosis, Angioedema, Sweating increased
Musculoskeletal and connective tissue disorder			Back pain	Arthralgia
Renal and urinary disorders				Acute kidney injury
General disorders and administration site conditions	Feeling hot	Chest pain, Injection site warmth and pain	Asthenia, Rigors, Pyrexia	Injection site reaction**, Coldness local, Malaise, Thirst
Investigations			Blood creatinine increased	Electrocardiogram ST segment elevation, Electrocardiogram abnormal

* Since the reactions were not observed during clinical trials with 4739 patients, best estimate is that their relative occurrence is rare (≥1/10,000 to <1/1000).
The most appropriate MedDRA term is used to describe a certain reaction and its symptoms and related conditions.
** Injection site reactions comprise injection site pain and swelling. In the majority of cases they are due to extravasation of contrast medium. These reactions are usually transient and result in recovery without sequelae. Cases of extravasation with inflammation, skin necrosis and even development of compartment syndrome have been reported.
*** Encephalopathy 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, brain oedema.

Coronary artery thrombosis and coronary artery embolism have been reported as a complication of coronary catheterization procedures.

Vasospasm and consequent ischaemia have been observed during intra-arterial injections of contrast medium, in particular after coronary and cerebral angiography often procedurally related and possibly triggered by the tip of the catheter or excess catheter pressure.

As with other iodinated contrast media, very rare cases of mucocutaneous syndromes, including Stevens-Johnson syndrome, toxic epidermal necrolysis (Lyell syndrome) and erythema multiforme, have been reported following the administration of iomeprol injection.

Paediatric patients

There is limited experience with paediatric patients. The clinical trial paediatric safety database comprises 184 patients. The iomeprol safety profile is similar in children and adults. Transient hypothyroidism may occur in neonates when exposed to iomeprol, especially in preterm or low birth weight neonates.

Administration to body cavities

After injection of an iodinated contrast media in body cavities, contrast media are slowly absorbed from the area of administration into systemic circulation and subsequently cleared by renal elimination.

Blood amylase increased is common following ERCP. Very rare cases of pancreatitis have been described.

The reactions reported in cases of arthrography and fistulography usually represent irritative manifestations superimposed on pre-existing conditions of tissue inflammation.

Hypersensitivity reactions are rare, generally mild and in the form of skin reactions. However, the possibility of severe anaphylactoid reactions cannot be excluded.

As with other iodinated contrast media, pelvic pain and malaise may occur after hysterosalpingography

Storage

Store below 30°C. Protect from light.

Although the sensitivity of iomeprol to X-rays is low, it is advisable to store the product out of reach of ionizing radiation.

Single use. Bottles containing contrast media solution are not intended for the withdrawal of multiple doses. The rubber stopper should never be pierced more than once. The use of proper withdrawal cannulas for piercing the stopper and drawing up the contrast medium is recommended. The contrast medium should not be drawn into the syringe until immediately before use. Solutions not used in one examination session must be discarded.

How supplied

IOMERON	300	350	400
50 ml Bottles	X	X	X
100 ml Bottles	X	X	X

DO NOT USE BEYOND EXPIRY DATE STATED ON THE LABEL.

NOT ALL STRENGTHS/VOLUMES ARE AVAILABLE IN ALL COUNTRIES.

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