Summary of Investigation Results lodinated contrast media, etc.

July 20, 2022

Non-proprietary name

See Attachment

Brand name (Marketing authorization holder)

See Attachment

Indications

See Attachment

Summary of revisions

d. lopamidol, f. lohexol, l. lomeprol

"Acute coronary syndrome accompanying allergic reaction" should be added to the Clinically Significant Adverse Reactions section.

Investigation results and background of the revision

Cases of acute coronary syndrome accompanying allergic reaction reported in Japan for iodinated contrast media or preparations containing the same active ingredients were evaluated. Cases for which a causal relationship between the drug and event was reasonably possible have been reported in Japan. As a result of consultation with expert advisors, MHLW/PMDA concluded that revision of Precautions of iopamidol, iohexol, and iomeprol was necessary. On the other hand, based on the status of data collection, etc., revision of Precautions of the other products was concluded to be unnecessary since no evidence exists to support the necessity of uniform precautions for all the iodinated contrast media, etc.

Number of cases and patient mortalities of acute coronary syndrome associated with allergic reaction reported in Japan during the previous 3 fiscal years*

- a. Sodium amidotrizoate and meglumine amidotrizoate
 No cases have been reported to date.
- b. Sodium amidotrizoate and meglumine amidotrizoate
 No cases have been reported to date.
- c. lotrolan

No cases have been reported to date.

d. lopamidol

A total of 14 cases have been reported to date (including 2 cases for which a causal relationship between the drug and event was reasonably possible).

A total of 2 patient mortalities have been reported to date. (A causal relationship between the drug and death subsequent to the event could not be established for any of these cases.)

e. Meglumine iotroxate

No cases have been reported to date.

f. lohexol

A total of 6 cases have been reported to date (including 4 cases for which a causal relationship between the drug and event was reasonably possible).

No patient mortalities have been reported to date.

g. lodixanol

No cases have been reported to date.

h. loversol

A total of 2 cases have been reported to date. (A causal relationship between the drug and event could not be established for any of these cases.)

No patient mortalities have been reported to date.

i. Ethyl ester of iodinated poppy-seed oil fatty acid

1 case has been reported to date. (A causal relationship between the drug and event could not be established for this case.)

1 instance of patient mortality has been reported to date. (A causal relationship between the drug and death subsequent to the event could not be established for this case.)

j. lodine addition products of the ethylesters of the fatty acids obtained from poppyseed oil No cases have been reported to date.

k. lopromide

1 case has been reported to date. (A causal relationship between the drug and event could not be established for this case.)

No patient mortalities have been reported to date.

I. Iomeprol

A total of 2 cases have been reported to date. (A causal relationship between the drug and event was reasonably possible for these cases.)

No patient mortalities have been reported to date.

*Serious cases identified as involving MedDRA SMQ "Ischaemic heart disease (SMQ)" (broad) reported to PMDA and non-serious cases identified as involving MedDRA SMQ "Ischaemic heart disease (SMQ)" (broad) informed by MAHs were added up. The possibility of a causal relationship with the drugs was evaluated for those cases in which both the hypersensitivity symptoms at the onset of adverse reactions and information on the evaluation of coronary arteries could be confirmed by the clinical courses.

The expert advisors present at the Expert Discussion regarding the current investigation were nominated based on their conflict of interest declarations concerning the relevant products, pursuant to the "Rules for Convening Expert Discussions, etc., by the Pharmaceuticals and Medical Devices Agency" (PMDA Administrative Rule No. 20-8, dated December 25, 2008).

Attachment

	Non-proprietary	Brand name	Marketing authorization holder	Indications
	name			
a.	Sodium	Urografin Injection 60%	Bayer Yakuhin Ltd.	Retrograde urography, endoscopic
	amidotrizoate			retrograde
	and meglumine			cholangiopancreatography,
	amidotrizoate			percutaneous transhepatic
				cholangiography, arthrography
		Urografin Injection 76%		Sialography
b.		Gastrografin for	Bayer Yakuhin Ltd.	Contrastography of the
		oral/enema use		gastrointestinal tract
				Contrastography of gastrointestinal
				tract in the following conditions
				Suspected stenosis
				Acute haemorrhage
				Risk of perforation (gastrointestinal
				ulcer, diverticulum)
				Any other acute symptoms that



	Non-proprietary	Brand name	Marketing authorization holder	Indications
	name			
				require surgery
				Post operation of gastric and
				intestinal resection (risk of
				perforation, risk of anastomotic
				leakage)
				Contrastography of foreign bodies
				and ulcer before endoscopy
				Gastrointestinal fistulography
				Contrastography of upper GI in
				computer-assisted tomography
C.	lotrolan	Isovist injection 240	Bayer Yakuhin Ltd.	Myelography
				Ventriculography, cisternography,
				myelography in computer-assisted
				tomography
				Arthrography
		Isovist injection 300		Hysterosalpingography
				Arthrography



	Non-proprietary name	Brand name	Marketing authorization holder	Indications
d.	Iopamidol	Iopamiron injection 150,	Bayer Yakuhin Ltd., and the others	Arteriography by digital X-ray
		and the others		method, computer-assisted
				tomography, intravenous urography,
				retrograde urography
		Iopamiron injection 300,		Cerebral angiography, aortography,
		and the others		selective angiography, extremities
				angiography, venography by digital
				X-ray method, arteriography by
				digital X-ray method, computer-
				assisted tomography, intravenous
				urography, retrograde urography
		Iopamiron injection 370,		Angiocardiography (including
		and the others		pulmonary arteriography),
				aortography, selective angiography,
				extremities angiography, venography
				by digital X-ray method,
				arteriography by digital X-ray



Non-proprietary	Brand name	Marketing authorization holder	Indications
name			
			method, computer-assisted
			tomography, intravenous urography
	lopamiron injection 300		Cerebral angiography, aortography,
	syringes, and the others		selective angiography, extremities
			angiography, venography by digital
			X-ray method, arteriography by
			digital X-ray method, computer-
			assisted tomography, intravenous
			urography, retrograde urography
	lopamiron injection 370		Angiocardiography (including
	syringes, and the others		pulmonary arteriography),
			aortography, selective angiography,
			extremities angiography, venography
			by digital X-ray method,
			arteriography by digital X-ray
			method, computer-assisted
			tomography, intravenous urography



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	Non-proprietary	Brand name	Marketing authorization holder	Indications	
	name				
e.	Meglumine	Biliscopin DIC 50	Bayer Yakuhin Ltd.	Cholecystography/cholangiography	
	iotroxate				
f.	lohexol (for	Omnipaque 140	GE Healthcare Pharma Co., Ltd.,	Arteriography by digital X-ray	
	urinary tract,	Injection 50 mL, 220 mL,	and the others	method, computer-assisted	
	blood vessel)	and the others		tomography	
		Omnipaque 240		Extremities angiography, computer-	
		Injection 20 mL, 50 mL,		assisted tomography, intravenous	
		100 mL, and the others		urography	
		Omnipaque 300		Cerebral angiography, selective	
		Injection 20 mL, 50 mL,		angiography, extremities	
		100 mL, 150 mL, and		angiography, arteriography by digital	
		the others		X-ray method, venography by digital	
				X-ray method, computer-assisted	
				tomography, intravenous urography	
		Omnipaque 350		Angiocardiography (including	
		Injection 20 mL, 50 mL,		pulmonary arteriography),	
		100 mL, and the others		aortography, selective angiography,	



Non-proprietary	Brand name	Marketing authorization holder	Indications
name			
			extremities angiography, venography
			by digital X-ray method, computer-
			assisted tomography, intravenous
			urography, angiocardiography of
			pediatrics (including pulmonary
			arteriography)
lohexol (for	Omnipaque 180		Cisternography by computer-
cistern, spinal	Injection 10 mL, and		assisted tomography, myelography
cord)	the others		by computer-assisted tomography
			Lumbar myelography
	Omnipaque 240		Cisternography by computer-
	Injection 10 mL, and		assisted tomography, myelography
	the others		by computer-assisted tomography
			Cervical myelography, thoracic
			myelography, lumbar myelography



Non-proprietary	Brand name	Marketing authorization holder	Indications
name			
	Omnipaque 300		Myelography by computer-assisted
	Injection 10 mL, and		tomography
	the others		Cervical myelography
lohexol (for	Omnipaque 240		Extremities angiography, computer-
urinary tract,	Injection Syringe 100		assisted tomography, intravenous
	mL, and the others		urography



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	blood vessel,	Omnipaque 300	Cerebral angiography, selective
	CT)	Injection Syringe 50 mL,	angiography, extremities
		80 mL, 100 mL, 110 mL,	angiography, arteriography by digital
		125 mL, 150 mL, and	X-ray method, venography by digital
		the others	X-ray method, computer-assisted
			tomography, intravenous urography



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	Non-proprietary	Brand name	Marketing authorization holder	Indications		
	name					
		Omnipaque 350		Angiocardiography (including		
		Injection Syringe 45 mL,		pulmonary arteriography),		
		70 mL, 100 mL, and the		aortography, selective angiography,		
		others		extremities angiography, venography		
				by digital X-ray method, computer-		
				assisted tomography, intravenous		
				urography, angiocardiography of		
				pediatrics (including pulmonary		
				arteriography)		
g.	lodixanol	Visipaque 270 Injection	GE Healthcare Pharma Co., Ltd.,	Cerebral angiography, extremities		
		20 mL, 50 mL, 100 mL	and the others	angiography, retrograde urography,		
				endoscopic retrograde		
				cholangiopancreatography		
		Visipaque 320 Injection		Extremities angiography		
		50 mL, 100 mL				



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	name		S S	
h.	loversol	Optiray 240 Injection	Guerbet Japan KK	Computer-assisted tomography
		Syringe 100 mL		
		Optiray 320 Injection		Cerebral angiography, aortography,
		Syringe 75 mL, 100 mL,		selective angiography, extremities
				angiography, arteriography by digital
				X-ray method, venography by digital
				X-ray method, computer-assisted
				tomography, intravenous urography
		Optiray 350 Injection		Angiocardiography, aortography,
		Syringe 100 mL		selective angiography, abdominal
				computer-assisted tomography
		Optiray 350 Injection		Abdominal computer-assisted
		Syringe 135 mL		tomography
		Optiray 320 Injection 20		Cerebral angiography, aortography,
		mL, 50 mL, 100 mL		selective angiography, extremities
				angiography, arteriography by digital
				X-ray method, venography by digital



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	Non-proprietary	Brand name	Marketing authorization holder	Indications	
	name				
				X-ray method, computer-assisted	
				tomography, intravenous urography	
		Optiray 350 Injection 20		Angiocardiography, aortography,	
		mL, 50 mL, 100 mL		selective angiography, abdominal	
				computer-assisted tomography	
i.	Ethyl ester of	Lipiodol 480 inj. 10 mL	Guerbet Japan KK	Lymphangiography,	
	iodinated			hysterosalpingography,preparation of	
	poppy-seed oil			drugs or medical devices	
	fatty acid				
j.	lodine addition	Miripla Suspension	Sumitomo Pharma Co., Ltd.	Suspension of Miripla for Intra-	
	products of the	Vehicle 4 mL		arterial Injection 70 mg	
	ethylesters of				
	the fatty acids				
	obtained from				
	poppyseed oil				



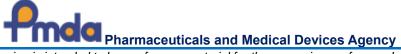
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	Non-proprietary	Brand name	Marketing authorization holder	Indications	
	name				
k.	lopromide	Proscope 300 Syringe	Alfresa Pharma Corporation, and	Cerebral angiography, thoracic	
		50 mL, 80 mL, 100 mL,	the others	angiography, abdominal	
		and the others		angiography, extremities	
				angiography, venography by digital	
				X-ray method, arteriography by	
				digital X-ray method, computer-	
				assisted tomography, intravenous	
				urography	
		Proscope 370 Syringe		Angiocardiography, thoracic	
		50 mL, 80 mL, 100 mL,		angiography, abdominal	
		and the others		angiography, extremities	
				angiography, venography by digital	
				X-ray method, arteriography by	
				digital X-ray method, computer-	
				assisted tomography, intravenous	
				urography	



Non-proprietary	Brand name	Marketing authorization holder	Indications
name			
	Proscope 300 Injection		Cerebral angiography, thoracic
	20 mL, 50 mL, 100 mL,		angiography, abdominal
	and the others		angiography, extremities
			angiography, venography by digita
			X-ray method, arteriography by
			digital X-ray method, computer-
			assisted tomography, intravenous
			urography
	Proscope 370 Injection		Angiocardiography, thoracic
	20 mL, 50 mL, 100 mL		angiography, abdominal
	and the others		angiography, extremities
			angiography, venography by digita
			X-ray method, arteriography by
			digital X-ray method, computer-
			assisted tomography, intravenous
			urography



	Non-proprietary	Brand name	Marketing authorization holder	Indications
	name			
I.	Iomeprol	Iomeron 300 injection 20	Bracco-Eisai Co.,Ltd.	Cerebral angiography, thoracic
		mL, 50 mL, 100 mL, and		angiography, abdominal
		the others		angiography, extremities
				angiography, venography by digital
				X-ray method, arteriography by
				digital X-ray method, computer-
				assisted tomography, intravenous
				urography
		Iomeron 350 injection 20		Angio cardiography, thoracic
		mL, 50 mL, 100 mL		angiography, abdominal
				angiography, extremities
				angiography, venography by digital
				X-ray method, arteriography by
				digital X-ray method, computer-
				assisted tomography, intravenous
				urography



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	Non-proprietary	Brand name	Marketing authorization holder	Indications				
	name							
		Iomeron 400 injection 50		Angio cardiography, thoracic				
		mL, 100 mL		angiography, abdominal				
				angiography, intravenous urography				
		Iomeron 300 syringe 50		Computer-assisted tomography,				
		mL, 75 mL, 100 mL		intravenous urography, cerebral				
				angiography, thoracic angiography,				
				abdominal angiography, extremities				
				angiography, venography by digital				
				X-ray method, arteriography by				
				digital X-ray method				
		lomeron 350 syringe 50		Computer-assisted tomography,				
		mL, 75 mL, 100 mL, 135		intravenous urography, angio				
		mL		cardiography, thoracic angiography,				
				abdominal angiography, extremities				
				angiography, venography by digital				
				X-ray method, arteriography by				
				digital X-ray method				

