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Where, Which Agents and How They're Used





COUNTRY	PRODUCT	APPROVED USES	NOTES
Australia	DEFINITY®	LVO / EBD, liver, kidney	
Austria	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Belgium	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Bulgaria	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Canada	DEFINITY®	LVO / EBD, liver, kidney	Abdominal imaging including gynecological applications; some off-label studies including bowel and the carotid artery.
	 Sulphur Hexafluoride	LVO / EBD and diagnostic assessment of vessels	Not marketed in Canada
Cyprus	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	

China		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	Used especially for liver and kidney
Czech Republic		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	Left ventricular pacification / endocardial border definition (LVO / EDB)	
Denmark		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Ecuador		No approval policy	Situation may change soon.
Estonia		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Finland		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	Left ventricular opacification / endocardial border definition (LVO / EDB)	
France		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	Left ventricular opacification / endocardial border definition (LVO / EDB)	
Germany		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	

Greece		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Hong Kong		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	
Hungary		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Iceland		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	
India		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	
	DEFINITY®	LVO / EBD, liver, kidney	
Ireland		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Israel	DEFINITY®	LVO / EBD, liver, kidney	
Italy		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU; Used widely to enhance diagnostic performance whenever appropriate, except where contraindicated (liver, spleen, pancreas, gallbladder, kidneys, gut, bladder, vessels, soft tissues)
Japan	SONAZOID	Focal liver lesions; Focal breast lesions	

Latvia		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Lithuania		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Luxembourg		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Malta		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Mexico	DEFINITY®	LVO / EBD, liver, kidney	
Netherlands		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU; used in - Anesthesiology and Cardiology (every procedure except within 7 days of an Acute coronary syndrome, mostly used in Stress echo); Hepatology: suspicion of liver tumors and/or hemangiomas; Vascular medicine: improvement of 2D B -mode imaging. vascularity in approval phase e.g. vasa vasorum.
	Optison™	LVO / EBD	
New Zealand	DEFINITY®	LVO / EBD, liver, kidney	
Norway		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	

Poland	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Portugal	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Romania	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Singapore	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	
	DEFINITY®	LVO / EBD.	
Slovakia	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Slovenia	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
South Korea	 Sulphur Hexafluoride	LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	
	DEFINITY®	LVO / EBD.	

Spain		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU; Approved for liver diseases but being used also in biliary tract diseases, in pancreas disorders and in liver or pancreatic transplant. Also for kidney, bladder and vascular pathology.
	Optison™	LVO / EBD	
Sweden		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
Switzerland		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EFSUMB CEUS guidelines
United Arab Emirates	DEFINITY®	LVO / EBD.	
United Kingdom		LVO / EBD, breast, liver, portal vein, extracranial carotid, peripheral arteries (macrovascular and microvascular)	EU
	Optison™	LVO / EBD	
USA	Optison™	LVO / EBD	
	DEFINITY®	LVO / EBD	