Supplementary

Appendix table 1. CEUS LI-RADS classification (version 2017)

Classification	Arterial Phase Hyperenhancement	Washout ^a (Yes/No)
	(APHE) (Yes/No)	
LR-1		
Any nodule size	Definitely benign arterial phase pattern ^b	No
LR-2		
<1 cm	Iso-enhancement	No
LR-3		
<1 cm	Yes, but not special APHE ^c	No
<2 cm	No	No or late and mild washout
≥2 cm	No	No
LR-4		
<1 cm	Yes, but not special APHE	Late and mild washout
≥1 cm	Yes, but not special APHE	No
≥2 cm	No	Late and mild washout
LR-5		
≥1 cm	Yes, but not special APHE	Late and mild washout
LR-M		
Any nodule size	Yes (rim-like)	Yes
		(early, <60 seconds OR
		marked within 120 seconds)
LR-TIV	Tissue enhancing in the vein	

LI-RADS: Liver Imaging Report and Data System, CEUS: Contrast-enhanced ultrasound, APHE: Arterial Phase Hyperenhancement

^a Washout means hypo-enhancement in the portal and late phase

^b benign arterial phase pattern such as cyst, hemangioma, focal fatty deposition/ sparing and so on.

^c special APHE such as rim or peripheral discontinuous globular hyperenhancement in the arterial phase.