

Table S1 Additionally extracted variables from the included studies

Authors	Study design	Surgery	Time frame	Segmentation of skeletal muscle area (software, Hounsfield-Unit threshold)	Embolization material	Reported outcome
Araki <i>et al.</i> , 2023 (30)	Retrospective	Every patient underwent surgery (unclear which)	CT imaging 30 days prior to surgery	SYNAPSE VINCNET, not defined	Gelatin sponge and Lipiodol followed by coil embolization	Median values with range, converted to mean and SD
Arntz <i>et al.</i> , 2024 (26)	Retrospective	64 patients underwent resection	Unclear CT imaging date	Osirix Lite v12.0.2, -30 to 150 HU	polyvinyl alcohol particles (300–500 nm) and coils; Segment IV embolization in 5 patients	Median values with interquartile ranges, converted to mean and SD
Baby <i>et al.</i> , 2025 (31)	Retrospective	Right sided hepatectomy (17.5%). Extended right hepatectomy (35%)	Median time between CT imaging and PVE was 30 days	3D slicer, not defined	3:1 mixture of n-butyl-2-cyanoacrylate (Histoacryl, Braun, Germany) and iodized oil (Lipiodol)	Median values with interquartile ranges, converted to mean and SD
Denbo <i>et al.</i> , 2021 (32)	Retrospective	Right hepatectomy	4 weeks after PVE	Osirix MD V 7.0.4, -30 to 150 HU	tris-acryl microspheres ranging in size from 100 to 700 μ m and coils.	Median values with range, converted to mean and SD
Heil <i>et al.</i> , 2022 (33)	Retrospective, multi-center (n=8)	224 patients underwent resection (predominantly right sided resection)	25 days between embolization and CT volumetry	OsiriX MD V 11.0.2, -30 to 150 HU	Different embolization materials (N-butyl-cyanoacrylate in 96 cases, coils and microspheres in 128 cases, others were rare)	Median values with interquartile range, converted to mean and SD
Huang <i>et al.</i> , 2023 (34)	Retrospective	Every patient underwent right hepatic lobectomy	Unclear CT imaging date	Not reported, -29 to 150 HU	Right sided only, not specified which technique	Mean values with SD
Schulze-Hagen <i>et al.</i> , 2020 (35)	Retrospective	Right sided hepatectomy (38)	Unclear CT imaging date	3D slicer, not defined	3:1 mixture of n-butyl-2-cyanoacrylate (Histoacryl, Braun, Germany) and iodized oil (Lipiodol)	Mean values with SD

BMI, body mass index; CCC, cholangiocellular carcinoma; CRLM, colorectal liver metastasis; CT, computed tomography; HCC, hepatocellular carcinoma; IQR, interquartile range; SMI, skeletal muscle index.