Table S1 Cox proportional hazards regression modeling long-term survival (>90 days) with continuous CT body composition results or sarcopenia classification results and adjusting variables as independent variables

Adjusting variables	Long-term survival (>90 days)																	
	Predictors																	
	MRA (per 10 units)			SMI (per 10 units)			Sarcopenia (Prado *et al.*)			Sarcopenia (Martin *et al.*)			SMI <5th percentile (van der Werf *et al.*)			MRA <5th percentile (van der Werf *et al.*)		
	HR	95% CI	P	HR	95% CI	P	HR	95% CI	P	HR	95% CI	P	HR	95% CI	P	HR	95% CI	P
	0.78	0.58–1.05	0.096	0.68	0.47–0.96	0.031	1.01	0.50–2.04	0.983	1.44	0.78–2.64	0.245	1.20	0.68–2.09	0.530	2.68	1.25–5.74	0.011
Malignancy	10.36	1.38–78.04	0.023	9.75	1.30–73.28	0.027	9.83	1.33–72.96	0.025	10.21	1.37–76.00	0.023	7.39	1.00–54.80	0.051	8.39	1.13–62.27	0.038
Extended hemihepatectomy	1.44	0.86–2.42	0.168	1.66	0.98–2.79	0.057	1.51	0.90–2.55	0.119	1.54	0.92–2.56	0.098	1.78	1.05–3.03	0.032	1.73	1.03–2.93	0.040
Surgery time (hours)	1.01	0.90–1.13	0.905	1.01	0.90–1.14	0.830	1.01	0.90–1.14	0.847	1.02	0.91–1.14	0.755	0.97	0.86–1.09	0.601	0.97	0.86–1.09	0.599
Liver tissue quality	1.21	0.74–1.97	0.456	1.34	0.83–2.14	0.228	1.35	0.85–2.15	0.207	1.33	0.83–2.12	0.231	1.32	0.82–2.12	0.249	1.25	0.78–2.00	0.349
Age (per 10 years)	1.17	0.95–1.45	0.144	1.25	1.03–1.53	0.025	1.26	1.03–1.54	0.025	1.25	1.02–1.52	0.028	–	–	–	–	–	–
BMI (per 10 units)	0.68	0.39–1.18	0.171	1.17	0.62–2.20	0.627	0.79	0.44–1.42	0.428	0.90	0.52–1.54	0.693	–	–	–	–	–	–
Gender male	1.02	0.63–1.65	0.948	1.30	0.76–2.21	0.335	–	–	–	–	–	–	–	–	–	–	–	–

HR, hazard ratio; CI, confidence interval; MRA, muscle radiodensity attenuation; SMI, skeletal muscle index; BMI, body mass index.

Table S2 Logistic regression modelling 90-day mortality with continuous CT body composition results or sarcopenia classification results and adjusting variables as independent variables

Adjusting variables	MRA (per 10 units)			SMI (per 10 units)			Sarcopenia (Prado et al.)			Sarcopenia (Martin et al.)			SMI <5th percentile (van der Werf et al.)			MRA <5th percentile (van der Werf et al.)		
	Est.	95% CI	P value	Est.	95% CI	P value	Est.	95% CI	P value	Est.	95% CI	P value	Est.	95% CI	P value	Est.	95% CI	P value
	0.63	0.36–1.12	0.104	1.41	0.74–2.74	0.297	0.63	0.21–2.03	0.425	0.67	0.24–1.91	0.435	0.93	0.25–2.79	0.908	1.52	0.22–6.60	0.615
Malignancy	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Extended hemihepatectomy	1.38	0.50–4.11	0.538	1.22	0.45–3.58	0.700	1.20	0.44–3.50	0.729	1.21	0.45–3.51	0.719	1.09	0.41–3.14	0.866	1.12	0.41–3.23	0.829
Surgery time (hours)	1.11	0.88–1.40	0.382	1.13	0.89–1.44	0.309	1.13	0.89–1.43	0.311	1.13	0.89–1.43	0.315	1.12	0.89–1.41	0.342	1.12	0.88–1.41	0.348
Liver tissue quality	0.41	0.11–1.27	0.153	0.54	0.15–1.63	0.311	0.51	0.14–1.51	0.258	0.52	0.14–1.55	0.277	0.53	0.15–1.53	0.275	0.51	0.14–1.49	0.254
Age (per 10 years)	1.23	0.77–2.05	0.407	1.53	1.00–2.50	0.066	1.51	0.98–2.45	0.074	1.49	0.98–2.41	0.080	–	–	–	–	–	–
BMI (per 10 units)	1.36	0.45–3.80	0.569	1.12	0.31–3.61	0.856	1.31	0.41–3.89	0.637	1.40	0.47–3.95	0.527	–	–	–	–	–	–
Gender male	1.50	0.57–4.18	0.421	0.96	0.31–2.98	0.939	–	–	–	–	–	–	–	–	–	–	–	–

Est., regression estimates; CI, confidence interval; MRA, muscle radiodensity attenuation; SMI, skeletal muscle index; BMI, body mass index.