

Supplementary Materials

Sarcopenia predicts major complications after resection for primary hepatocellular carcinoma in compensated cirrhosis.

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Table S1. Association between sarcopenia and complications in different subgroups.

	Outcome: Liver failure (PHLF B or C)					Outcome: Major complication				
	Sarcopenia presence		p-value	SMI (cm ² /m ²)		Sarcopenia presence		p-value	SMI (cm ² /m ²)	
	No	Yes		OR (95%-CI)	OR (95%-CI)	No	Yes		OR (95%-CI)	OR (95%-CI)
Age										
<65 years (n=66)	3/36 (8.33%)	5/30 (16.7%)	0.302	2.200 (0.480-10.087)	0.980 (0.908-1.053)	3/36 (8.3%)	4/30 (13.3%)	0.511	1.692 (0.348-8.238)	0.949 (0.877-1.026)
≥ 65 years (n=92)	2/40 (5%)	4/52 (7.7%)	0.604	1.583 (0.275-9.111)	0.954 (0.859-1.060)	2/41 (4.9%)	4/52 (7.7%)	0.583	1.625 (0.283-9.344)	1.002 (0.929-1.078)
Gender										
Female (n=31)	2/17 (11.8%)	2/14 (14.3%)	0.835	1.25 (0.153-10.226)	1.048 (0.867-1.266)	2/17 (11.8%)	0/14 (0%)	0.185	1 (omitted)	1.267 (0.915-1.754)
Male (n=128)	3/59 (5.1%)	7/68 (10.3%)	0.277	2.142 (0.017-0.171)	0.969 (0.012-11.965)	3/60 (5%)	8/68 (11.8%)	0.173	2.533 (0.640-10.025)	0.947 (0.881-1.017)
Presence of advanced chronic liver disease (n=108)										
LSM <10 kPa (n=25)	0	0	-	-	-	1/13 (7.7%)	0/12 (0%)	0.327	1 (omitted)	1.080 (0.831-1.403)
LSM ≥10 kPa (n=83)	5/40 (12.5%)	9/43 (20.9%)	0.305	1.852 (0.563-6.095)	0.967 (0.909-1.030)	0/40 (0%)	7/43 (16.3%)	0.012	1 (omitted)	0.922 (0.842-1.010)
Portal hypertension presence										
No portal hypertension (n=94)	2/46 (4.4%)	2/48 (4.2%)	0.965	0.965 (0.129-7.089)	0.987 (0.913-1.093)	5/36 (13.9%)	2/31 (6.5%)	0.321	0.428 (0.077-2.239)	1.016 (0.960-1.076)
Portal hypertension (n=64)	3/30 (10%)	7/34 (20.6%)	0.244	0.253 (0.545-9.986)	0.234 (0.046-57.258)	0/41 (0%)	6/51 (11.8%)	0.032	1 (omitted)	0.889 (0.798-0.990)
Liver function										
ALBI grade I (n=89)	1/39 (2.6%)	1/49 (2%)	0.870	0.792 (0.048-13.074)	1.073 (0.916-1.258)	3/40 (7.5%)	3/49 (6.1%)	0.797	0.804 (0.153-4.221)	0.998 (0.912-1.093)
ALBI grade II or III (n=70)	4/37 (10.8%)	8/33 (24.2%)	0.137	2.64 (0.714-9.764)	0.941 (0.874-1.012)	2/37 (5.4%)	5/33 (15.2%)	0.175	3.125 (0.563-17.338)	0.951 (0.871-1.038)
Type of surgery										
Minor hepatectomy (n=119)	5/56 (8.9%)	6/63 (52.9%)	0.911	1.073 (0.309-3.730)	0.967 (0.904-1.034)	2/56 (3.6%)	8/63 (12.7%)	0.073	3.927 (0.797-19.342)	0.957 (9.892-1.027)
Major hepatectomy (n=40)	0/20 (0%)	3/19 (15.8%)	0.064	1 (0.894-1.097)	0.990 (0.894-1.097)	3/21 (14.3%)	0/19 (0%)	0.087	1 (omitted)	1.010 (0.935-1.091)

ALBI: albumin-bilirubin score; CI: confidence interval; LSM: liver stiffness measurement; OR: odds ratio; SMI: skeletal muscle index