

Online Supplementary Material

Di Benedetto F, Magistri P, Di Sandro S, et al; Robotic HPB Study Group. Safety and efficacy of robotic vs open liver resection for hepatocellular carcinoma. *JAMA Surg*. Published online November 23, 2022. doi:10.1001/jamasurg.2022.5697

eTable 1. Resection Type Before and After Propensity Score Matching

eTable 2. Multivariable Cox Proportional Hazards Regression for Overall Survival (OS)

eFigure. Overall Survival and Cumulative Incidence of Death Related to Tumor Recurrence After Propensity Score Matching by Type of Surgery Among Patients Within Milan Criteria

This supplemental material has been provided by the authors to give readers additional information about their work

eTable 1. Resection type, before and after propensity score matching

Variable	Level	Before propensity score matching		After propensity score matching	
		Open (N=240)	Robotic (N=158)	Open (N=106)	Robotic (N=106)
Resection type, N (%)	Wedge	60 (25.0)	37 (23.4)	40 (37.7)	19 (17.9)
	Segmentectomy	101 (42.1)	57 (36.1)	39 (36.8)	40 (37.7)
	Bisegmentectomy	28 (11.7)	11 (7.0)	12 (11.3)	6 (5.7)
	Left lateral sectionectomy	12 (5.0)	18 (11.4)	5 (4.7)	16 (15.1)
	Right posterior sectionectomy	0 (0)	9 (5.7)	0 (0)	8 (7.5)
	Left hepatectomy	8 (3.3)	12 (7.6)	1 (0.9)	9 (8.5)
	Right hepatectomy	24 (10.0)	11 (7.0)	6 (5.7)	6 (5.7)
	Extended right hepatectomy	6 (2.5)	1 (0.6)	2 (1.9)	1 (0.9)
	Segmentectomy + Wedge	1 (0.4)	1 (0.6)	1 (0.9)	1 (0.9)
	Left lateral sectionectomy + Wedge	0 (0)	1 (0.6)	0 (0)	0 (0)

eTable 2. Multivariable Cox proportional hazards regression for OS

Variable	Level	Multivariable analysis		
		HR	95% CI	P-value
Surgical approach	Open	Ref.	-	-
	Robotic	0.51	0.26-1.01	0.053
Age, y	+1 y	0.95	0.92-0.98	0.004
BMI, kg/m ²	+1 kg/m ²	0.96	0.91-1.02	0.20
Charlson comorbidity index	+1	1.19	0.95-1.49	0.13
Platelet count, 10 ³ /μL	+10 10 ³ /μL	0.98	0.95-1.02	0.31
IWATE difficulty score	+1	1.01	0.91-1.12	0.84
ERASL-pre score	+1	1.63	1.04-2.58	0.035
CHILD	Child A	Ref.	-	-
	Child B	1.56	0.56-4.37	0.40
Number of nodules	1	Ref.	-	-
	2-3-4	1.40	0.80-2.44	0.24
Grading	+1 G	1.25	0.81-1.92	0.31
Microvascular invasion	No	Ref.	-	-
	Yes	1.39	0.79-2.43	0.25

List of abbreviations: y: years; G: grade.

eFigure. Overall Survival and Cumulative Incidence of Death Related to Tumor Recurrence After Propensity Score Matching by Type of Surgery Among Patients Within Milan Criteria

Overall survival after propensity score matching, by type of surgery, among Milan-In patients (Panel A), and Cumulative incidence of death related to tumor recurrence after propensity score matching, by type of surgery, among Milan-In patients (Panel B)



