Supplemental Online Content

Turri G, Martinelli L, Rega D et al. Predictors of recurrence after curative surgery for stage I colon cancer. Retrospective cohort analysis of the Italian Society of Surgical Oncology Colorectal Cancer Network Collaborative Group.

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Site of Decumence	NI (9/)	Treatment of recurrence (%)				
Site of Recurrence	IN (70)	СНТ	RT	Surgery	Missing	
Liver	35 (43.8%)	9 (25.7%)	1 (2.9%)	18 (51.4%)	7 (20.0%)	
Lung	13 (16.3%)	5 (38.5%)	1 (7.7%)	3 (23.1%)	4 (30.8%)	
Locoregional/Anastomosis	8 (10.0%)	0 (0.0%)	0 (0.0%)	7 (87.5%)	1 (12.5%)	
Peritoneal/Ovary	2 (2.5%)	0 (0.0%)	0 (0.0%)	2 (100.0%)	0 (0.0%)	
Multiple Sites	8 (10.0%)	6 (75.0%)	0 (0.0%)	1 (12.5%)	1 (12.5%)	
Other/Unknown	14 (17.5%)	1 (7.1%)	1 (7.1%)	7 (50.0%)	5 (35.7%)	

Supplementary Table 2. Influence of individual, tumor and surgical characteristics on tumor recurrence in the first 2 years of follow-up. Hazard ratios and p values were obtained by univariable and multivariable Cox regression model.

Characteristics	Unadjusted Haz. Ratio	Unadjusted p-	Adjusted Haz. ratio	Adjusted p-
Characteristics	[95% conf. interval]	value	[95% conf. interval]	value
Gender (Women vs Men)	0.66 (0.36-1.18)	0.162	0.73 (0.36.1.48)	0.382
Age	0.80 (0.56-1.14)	0.223	0.98 (0.95-1.02)	0.357
Charlson index				
Score<4	1 (reference)		1 (reference)	
Score>4	1.16 (0.65-2.09)	0.614	0.96 (0.40-2.27)	0.919
Missing	1.15 (0.34-3.87)	0.817	0.51 (0.13-2.04)	0.340
pT (pT2 vs pT1)	4.43 (1.88-10.41)	0.001	2.84 (1.05-7.71)	0.040
Tumor diameter				
≤20 mm	1 (reference)		1 (reference)	
21-30 mm	3.09 (0.97-9.84)	0.057	2.47 (0.60-10.15)	0.209
31-40 mm	3.08 (0.93-10.22)	0.066	3.24 (0.90-12.97)	0.097
>40 mm	5.41 (1.74-16-77)	0.003	5.73 (1.51-21.78)	0.010
Missing	3.32 (1.09-10.07)	0.034	2.65 (0.67-10.53)	0.166
LVI (Yes vs No)	2.37 (1.22-4.61)	0.011	2.38 (1.15-4.91)	0.019
CEA level (>5 vs ≤5)	2.58 (1.22-5.44)	0.013	3.19 (1.28-7.95)	0.013
Missing	1.03 (0.54-1.96)	0.926	1.11 (0.49-2.53)	0.800
Nodes Retrieved >12 (Yes vs No)	0.62 (0.33-1.19)	0.150	0.31 (0.15-0.65)	0.002
Type of resection Partial	2.99 (1.34-6.66)	0.007	1.47 (0.34-6.44)	0.607

Supplementary Table 3. Collinearity Diagnostics of variables included in multivariable proportional hazards Cox model. Low variance inflation factors are indicative of absence of multicollinearity in out multivariable model.

Variable	VIF
Gender	1.01
Age	1.27
Charlson index	1.26
рТ	1.05
Tumor diameter	1.05
LVI	1.01
CEA	1.03
Nodes retrieved	1.04
Type of resection	1.01

Supplementary Figure 1. PRISMA flow-chart illustrating data collection and selection.



Supplementary Figure 2. Kaplan-Meier estimates of OS for patients with and without colorectal cancer recurrence (p<0.001).



Supplementary Figure 3. Kaplan Meier estimates of RFS for patients with pT1 vs. pT2 colorectal cancer (p=0.006).



Supplementary Figure 4. Hazard rates of colorectal cancer recurrence for patients with pT1 vs pT2 colorectal cancer.

