

Supplementary table 1. Patient characteristics in 322 colorectal cancer patients

	n (%)	HR ¹	95% CI	p value
Gender				
Female	155 (48)			
Male	167 (52)	1,05	0.72-1.53	0,806
Age				
<= 66.9	161			
> 66.9	161	1,84	1.25-2.70	0,001
Stage				
I	55 (17)			
II	97 (30)	3,30	0.96-11.4	0,059
III	110 (34)	10,4	3.24-33.3	< 0.001
IV	60 (19)	27,6	8.52-89.7	< 0.001
Histologic type				
Non-mucinous adenocarcinoma	295 (91)			
Mucinous adenocarcinoma	26 (8)	1,10	0.56-2.18	0,780
Missing	1 (1)			
Location				
Right colon	90			
Left colon	64	1,40	0.80-2.47	0,244
Rectum	168 (52)	1,44	0.90-2.32	0,131

Abbreviations: HR = hazard ratio; 95% CI = 95% confidence interval

¹First subgroup used as reference group

Supplementary table 2. Biomarker statistics for 322 colorectal cancer patients

Biomarker	Median	IQR	Range
CEA ¹	3,2	1.5-10	0-10000
CA125	6,4	4.1-10	0-1300
CA242	9,0	3.8-29	0-23000
CA19-9	16	9.8-39	5.2-15000

Units in U/ml

¹units for CEA in ng/ml

Abbreviation: IQR = interquartile range,

CEA = carcinoembryonic antigen,

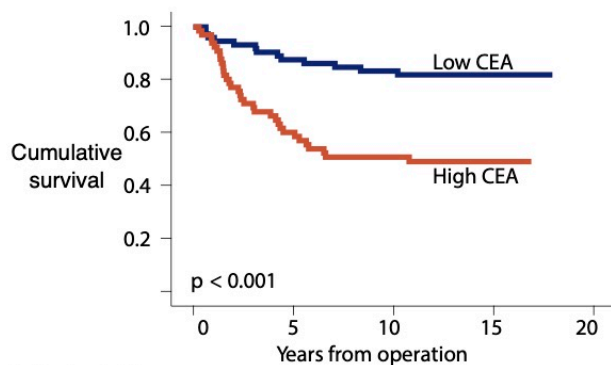
CA125 = cancer antigen 125,

CA242 = carbohydrate antigen 242,

CA19-9 = carbohydrate antigen 19-9

Supplementary figure 1

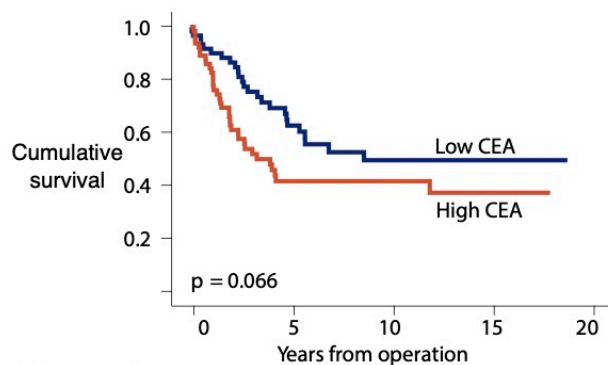
A. Age under 67



Patients at risk

Low CEA	83	69	65	61
High CEA	77	46	36	33

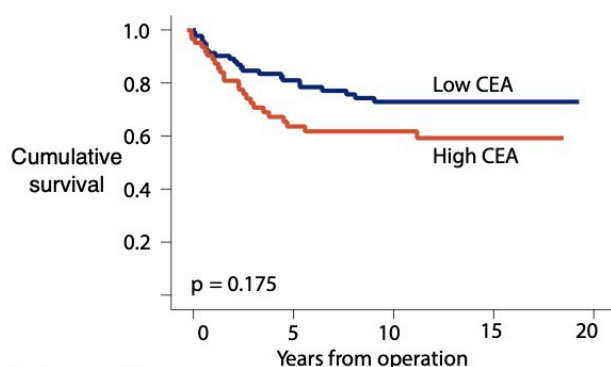
B. Age over 67



Patients at risk

Low CEA	76	37	21	11
High CEA	84	27	16	9

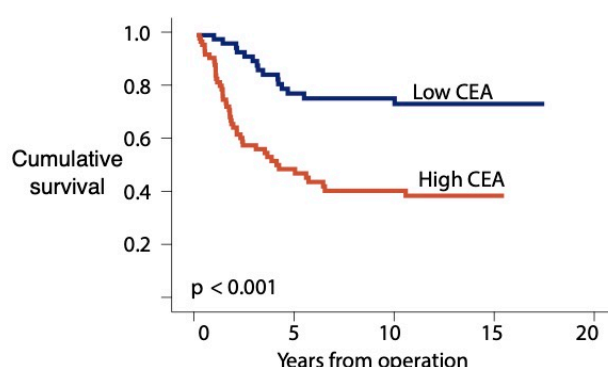
C. Colon



Patients at risk

Low CEA	84	57	43	37
High CEA	68	36	26	18

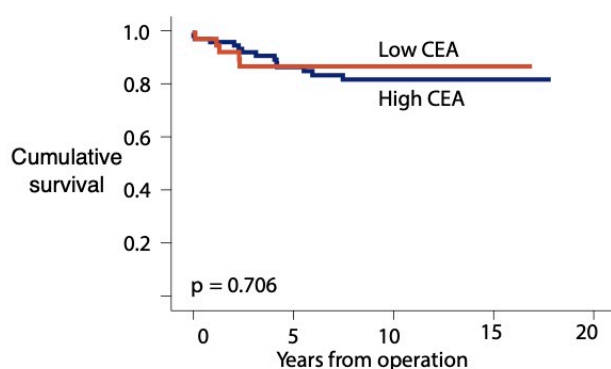
D. Rectum



Patients at risk

Low CEA	75	49	43	35
High CEA	93	25	20	16

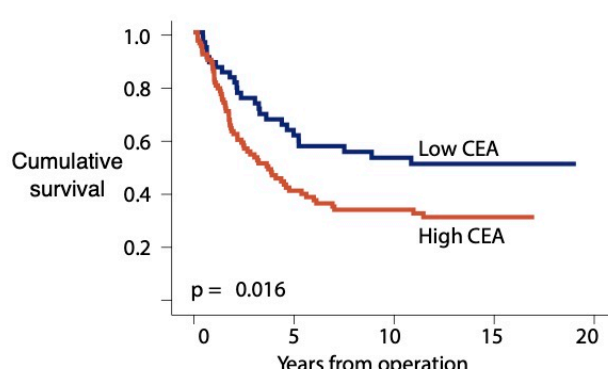
E. Stages I and II



Patients at risk

Low CEA	100	72	60	51
High CEA	52	30	22	17

F. Stages III and IV



Patients at risk

Low CEA	59	34	26	21
High CEA	109	40	28	24

Supplementary Figure 1. Disease-specific survival (DSS) according to the Kaplan-Meier log-rank test of CEA subgroups. The cohort was dichotomized based on the CEA median. (A) CEA levels for patients <67 and (B) 67 years old. (C) CEA levels for colon cancer and (D) rectum cancer. (E) CEA levels for stages I-II and (F) stages III-IV.