

Supplementary Table 3. Risk factors for depression in rectal cancer patients with and without radiation therapy before and after surgery

Variable	No radiotherapy			Preoperative radiotherapy			Postoperative radiotherapy				
	HR	95% CI	P>z	HR	95% CI	P>z	HR	95% CI	P>z		
Female sex	1.19	1.14	0.00	1.11	0.97	1.27	0.11	1.34	1.13	1.59	0.00
Age (ref. 20s)			0.96								
30s	0.99	0.54	0.73	0.63	0.19	2.14	0.46	0.12	0.03	0.46	0.00
40s	1.10	0.62	0.36	0.57	0.18	1.80	0.34	0.15	0.05	0.47	0.00
50s	1.31	0.74	0.11	0.66	0.21	2.07	0.48	0.17	0.06	0.54	0.00
60s	1.58	0.90	0.02	0.77	0.25	2.40	0.65	0.18	0.06	0.57	0.00
70s	2.02	1.15	0.02	0.93	0.30	2.90	0.90	0.24	0.08	0.77	0.02
80s	1.99	1.12		0.91	0.28	2.96	0.88	0.19	0.05	0.70	0.01
Type(ref. no stoma)			0.45								
Temporary stoma	0.98	0.84		1.04	0.72	1.50	0.85	1.52	0.78	2.96	0.21
Permanent stoma	1.07	0.90	0.00	1.27	0.84	1.91	0.25	1.59	0.77	3.30	0.21
Previous depression (ref. none)			0.42								
Prior to 1 year before index surgery	2.34	2.21	0.08	2.32	1.96	2.74	0.00	2.32	1.83	2.94	0.00
Number of stoma-making surgeries (ref. never)			0.00								
Once	0.94	0.80		0.94	0.66	1.34	0.75	0.70	0.35	1.38	0.30
Twice	1.20	0.98	0.00	1.33	0.87	2.03	0.18	0.79	0.35	1.78	0.57
More than 3 times	1.75	1.24	0.03	1.98	1.00	3.93	0.05	0.91	0.28	2.98	0.88
Socioeconomic status (ref. 16~20 quartile)			0.23								
Medicaid	1.52	1.38	0.95	1.73	1.28	2.32	0.00	1.06	0.69	1.62	0.79
1–5 quartile	1.07	1.01	0.62	1.06	0.88	1.28	0.53	1.02	0.80	1.30	0.89
6–10 quartile	1.05	0.98	0.09	1.10	0.91	1.32	0.33	0.97	0.76	1.24	0.82
11–15 quartile	1.04	0.98	1.00	1.06	0.90	1.26	0.48	0.97	0.77	1.22	0.81
Missing	0.99	0.84	0.00	0.93	0.59	1.47	0.76	0.81	0.42	1.53	0.51
Myocardial infarction	0.89	0.57	0.02	2.18	0.90	5.26	0.08	0.62	0.09	4.48	0.64
Congestive heart failure	1.33	0.96	0.34	1.98	0.74	5.31	0.17	0.00	–	–	–
Peripheral vascular disease	1.00	0.65	0.05	0.30	0.04	2.12	0.23	1.82	0.43	7.69	0.42
Cerebrovascular disease	1.54	1.29	0.04	1.50	0.91	2.45	0.11	0.96	0.30	3.05	0.94
Dementia	0.71	0.41	0.01	1.11	0.28	4.47	0.89	0.00	–	–	–
Chronic pulmonary disease	1.22	1.03	0.03	0.92	0.54	1.56	0.75	1.09	0.45	2.65	0.85
Rheumatic disease	1.43	0.68	0.62	0.00	–	–	–	2.41	0.34	17.33	0.38
Peptic ulcer disease	1.19	1.00	0.39	1.00	0.65	1.55	0.99	0.69	0.22	2.16	0.53
Mild liver disease	1.27	1.01	0.22	0.92	0.49	1.72	0.80	0.88	0.28	2.74	0.82
Diabetes without chronic complication	1.18	1.04	0.26	0.95	0.73	1.25	0.73	1.33	0.78	2.30	0.30
Diabetes with chronic complication	1.33	1.04	–	0.75	0.33	1.69	0.49	2.14	0.50	9.19	0.31
Hemiplegia or paraplegia	0.88	0.52	1.47	3.81	1.32	11.06	0.01	3.57	0.57	22.35	0.17
Renal disease	0.81	0.50	1.31	0.78	0.19	3.17	0.73	2.16	0.30	15.57	0.45
Moderate or severe liver disease	0.29	0.04	2.06	0.00	–	–	–	1.00			
Metastatic solid tumor	1.08	0.94	1.24	1.01	0.78	1.31	0.95	1.39	0.80	2.42	0.24
AIDS/HIV	0.00	–	–	1.00				1.00			

HR, hazard ratio; CI, confidence interval; Ref, reference; AIDS, acquired immune deficiency syndrome; HIV, human immunodeficiency virus.