

Supplementary Table 4. risk factors of depression according to survival period in rectal cancer patients

| | Survived more than 5 years | | | | Survived less than 5 years | | | |
|---|----------------------------|--------|------|------|----------------------------|--------|------|------|
| | HR | 95% CI | P>z | | HR | 95% CI | P>z | |
| Female | 1.21 | 1.15 | 1.26 | 0.00 | 1.19 | 1.07 | 1.32 | 0.00 |
| Age (Ref., 20s) | | | | 0.14 | | | | |
| 30s | 0.67 | 0.40 | 1.13 | 0.39 | 1.55 | 0.37 | 6.47 | 0.55 |
| 40s | 0.80 | 0.49 | 1.32 | 0.93 | 1.33 | 0.33 | 5.38 | 0.69 |
| 50s | 0.98 | 0.60 | 1.60 | 0.46 | 1.36 | 0.34 | 5.47 | 0.66 |
| 60s | 1.20 | 0.74 | 1.97 | 0.09 | 1.18 | 0.29 | 4.74 | 0.82 |
| 70s | 1.53 | 0.93 | 2.50 | 0.09 | 1.27 | 0.32 | 5.09 | 0.74 |
| 80s | 1.55 | 0.94 | 2.55 | | 1.04 | 0.26 | 4.20 | 0.96 |
| Type (Ref., no stoma) | | | | 0.31 | | | | |
| Temporary stoma | 1.01 | 0.87 | 1.17 | | 0.87 | 0.56 | 1.36 | 0.54 |
| Permanent stoma | 1.09 | 0.92 | 1.29 | 0.00 | 0.79 | 0.50 | 1.27 | 0.33 |
| Previous depression (Ref., none) | | | | 0.64 | | | | |
| Prior to 1 year before index surgery | 2.41 | 2.27 | 2.55 | 0.34 | 2.11 | 1.85 | 2.41 | 0.00 |
| Radiotherapy (Ref., none) | | | | | | | | |
| Preoperative | 0.98 | 0.91 | 1.06 | 0.12 | 1.04 | 0.87 | 1.23 | 0.68 |
| Postoperative | 1.05 | 0.95 | 1.15 | 0.43 | 1.27 | 1.05 | 1.55 | 0.02 |
| No. of stoma-making surgeries (Ref., never) | | | | | | | | |
| Once | 0.89 | 0.76 | 1.03 | 0.00 | 1.25 | 0.80 | 1.96 | 0.33 |
| Twice | 1.08 | 0.89 | 1.32 | 0.03 | 1.45 | 0.90 | 2.36 | 0.13 |
| More than 3 times | 1.42 | 0.98 | 2.05 | 0.06 | 2.27 | 1.22 | 4.22 | 0.01 |
| Socioeconomic status (Ref., 16–20 quartile) | | | | | | | | |
| Medicaid | 1.59 | 1.44 | 1.76 | 0.67 | 1.08 | 0.88 | 1.32 | 0.46 |
| 1–5 quartile | 1.07 | 1.01 | 1.14 | 0.05 | 1.01 | 0.87 | 1.17 | 0.89 |
| 6–10 quartile | 1.06 | 1.00 | 1.13 | 0.77 | 0.96 | 0.83 | 1.12 | 0.63 |
| 11–15 quartile | 1.05 | 0.99 | 1.12 | 0.00 | 0.94 | 0.82 | 1.08 | 0.36 |
| Missing | 1.01 | 0.86 | 1.18 | 0.27 | 0.81 | 0.54 | 1.21 | 0.31 |
| Myocardial infarction | 1.10 | 0.72 | 1.67 | 0.40 | 0.56 | 0.21 | 1.50 | 0.25 |
| Congestive heart failure | 1.45 | 1.01 | 2.10 | 0.10 | 1.12 | 0.61 | 2.04 | 0.72 |
| Peripheral vascular disease | 0.94 | 0.60 | 1.47 | 0.21 | 1.01 | 0.42 | 2.43 | 0.99 |
| Cerebrovascular disease | 1.49 | 1.23 | 1.79 | 0.06 | 1.43 | 1.01 | 2.02 | 0.04 |
| Dementia | 0.68 | 0.34 | 1.36 | 0.12 | 0.78 | 0.37 | 1.65 | 0.51 |
| Chronic pulmonary disease | 1.17 | 0.98 | 1.41 | 0.64 | 1.12 | 0.80 | 1.56 | 0.51 |
| Rheumatic disease | 1.38 | 0.65 | 2.89 | 0.17 | 0.76 | 0.11 | 5.40 | 0.78 |
| Peptic ulcer disease | 1.16 | 0.97 | 1.38 | 0.37 | 1.12 | 0.76 | 1.66 | 0.56 |
| Mild liver disease | 1.17 | 0.92 | 1.49 | 0.60 | 1.11 | 0.70 | 1.75 | 0.66 |
| Diabetes without chronic complication | 1.13 | 1.00 | 1.28 | – | 1.10 | 0.85 | 1.42 | 0.46 |
| Diabetes with chronic complication | 1.25 | 0.94 | 1.64 | | 1.11 | 0.70 | 1.76 | 0.66 |
| Hemiplegia or paraplegia | 1.14 | 0.66 | 1.98 | | 0.95 | 0.44 | 2.02 | 0.88 |
| Renal disease | 0.66 | 0.36 | 1.19 | | 0.99 | 0.51 | 1.93 | 0.98 |
| Moderate or severe liver disease | 0.41 | 0.06 | 2.89 | | 0.00 | 0.00 | – | 1.00 |
| Metastatic solid tumor | 0.96 | 0.83 | 1.11 | | 1.03 | 0.84 | 1.27 | 0.78 |
| AIDS/HIV | 0.00 | – | – | | 1.00 | | | |

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