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| --- | --- | --- | --- |
| Preoperative Characteristics | Odds Ratio; p-value | | |
|  | DIED | LOS | anastomotic\_leak |
| AGE | 3.23; < 0.001 | 1.86; < 0.001 | 0.80; 0.205 |
| APRDRG\_Risk\_Mortality | 53.71; < 0.001 | 10.53; < 0.001 | 17.78; < 0.001 |
| APRDRG\_Severity | 37.72; < 0.001 | 15.67; < 0.001 | 27.88; < 0.001 |
| ZIPINC\_QRTL | 1.15; 0.452 | 1.36; < 0.001 | 1.34; 0.103 |
| lap | 0.82; 1.000 | 1.07; 0.727 | 1.15; 0.781 |
| sex\_0.0 | 1.60; 0.004 | 1.46; < 0.001 | 1.58; 0.006 |
| sex\_1.0 | 0.63; 0.005 | 0.69; < 0.001 | 0.63; 0.006 |
| sex\_nan |  |  |  |
| payer\_1.0 | 3.51; < 0.001 | 1.69; < 0.001 | 0.75; 0.092 |
| payer\_2.0 | 1.08; 0.811 | 1.18; 0.247 | 2.36; 0.014 |
| payer\_3.0 | 0.25; < 0.001 | 0.56; < 0.001 | 0.98; 0.931 |
| payer\_4.0 | 0.62; 1.000 | 1.02; 0.896 | 2.69; 0.068 |
| payer\_5.0 |  |  |  |
| payer\_6.0 | 0.37; 0.528 | 0.62; 0.053 | 2.01; 0.114 |
| payer\_nan |  |  |  |
| race\_1.0 | 0.95; 0.797 | 0.93; 0.190 | 0.89; 0.541 |
| race\_2.0 | 0.76; 0.466 | 1.12; 0.215 | 0.97; 1.000 |
| race\_3.0 | 0.97; 1.000 | 0.92; 0.574 | 1.48; 0.236 |
| race\_4.0 | 0.40; 0.524 | 0.67; 0.114 | 0.84; 1.000 |
| race\_5.0 |  |  |  |
| race\_6.0 | 1.15; 0.748 | 0.95; 0.919 | 1.20; 0.742 |
| race\_nan | 1.22; 0.334 | 1.13; 0.086 | 1.03; 0.913 |
| transfer\_0.0 | 0.73; 0.080 | 0.71; < 0.001 | 2.42; < 0.001 |
| transfer\_1.0 |  |  |  |
| transfer\_2.0 |  |  |  |
| transfer\_nan | 1.21; 0.306 | 1.36; < 0.001 | 0.43; < 0.001 |
| Rheumatic disease | 1.56; 0.336 | 0.99; 1.000 | 0.79; 1.000 |
| Metastatic solid tumour | 1.39; 0.080 | 1.89; < 0.001 | 1.92; < 0.001 |
| AIDS/HIV |  |  |  |
| Renal disease | 5.52; < 0.001 | 2.32; < 0.001 | 2.06; 0.008 |
| Diabetes with chronic complication |  |  |  |
| Congestive heart failure | 5.53; < 0.001 | 3.73; < 0.001 | 1.67; 0.063 |
| Peptic ulcer disease |  |  |  |
| Peripheral vascular disease | 2.49; 0.003 | 1.54; < 0.001 | 1.04; 0.831 |
| Dementia |  |  |  |
| Hemiplegia or paraplegia |  |  |  |
| Diabetes without chronic complication |  |  |  |
| Chronic pulmonary disease | 1.76; 0.004 | 1.66; < 0.001 | 0.98; 1.000 |
| Any malignancy, including lymphoma and leukaemia, except malignant neoplasm of skin | 1.74; 0.004 | 1.67; < 0.001 | 1.01; 1.000 |
| Mild liver disease | 4.53; < 0.001 | 1.03; 0.833 | 1.11; 0.663 |
| Moderate or severe liver disease |  |  |  |
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