Supplement-Table 3 Subgroup analysis of the risk factors for death and transplant organ complication-related hospitalization (TOH) in patients without recurrent CDI associated hospitalization

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|  | Risk for death1 | Risk for TOH2 |
|  | HR (95% CI) | P value | OR (95% CI) | P value |
| Age group (years) | Reference: 18-34 | Reference: 18-34 |
| 35-44 | 1.29 (0.72-2.32) | 0.393 | 0.71 (0.57-0.88) | 0.002 |
| 45-54 | 1.12 (0.65-1.92) | 0.680 | 0.71 (0.59-0.87) | 0.001 |
| 55-64 | 1.89 (1.14-3.13) | 0.013 | 0.83 (0.68-1.00) | 0.050 |
| Gender | Reference: Male |  | Reference: Male |  |
| Female | 0.92 (0.72-1.17) | 0.468 | 1.12 (1.00-1.26) | 0.056 |
| Charlson index | Reference: 1-2 | Reference: 1-2 |
| 3-4 | 1.78 (1.25-2.55) | 0.002 | 1.01 (0.86-1.19) | 0.878 |
| ≥5 | 1.93 (1.29-2.91) | 0.002 | 1.06 (0.86-1.31) | 0.568 |
| Transplant organ | Reference: Kidney | Reference: Kidney |
| Heart | 7.85 (5.18-11.92) | <0.001 | 1.77 (1.43-2.19) | <0.001 |
| Liver | 4.98 (3.42-7.27) | <0.001 | 1.44 (1.21-1.72) | <0.001 |
| Lung | 13.40 (8.02-22.38) | <0.001 | 3.34 (2.35-4.74) | <0.001 |
| Multiple organs | 10.62 (7.14-15.81) | <0.001 | 2.81 (2.21-3.57) | <0.001 |
| Transplant year | Reference: 2008 | Reference: 2008 |
| 2009 | 1.24 (0.85-1.80) | 0.271 | 0.88 (0.72-1.08) | 0.220 |
| 2010 | 1.04 (0.70-1.53) | 0.861 | 1.00 (0.82-1.21) | 0.976 |
| 2011 | 0.80 (0.54-1.18) | 0.255 | 0.98 (0.81-1.18) | 0.832 |
| 2012 | 1.13 (0.78-1.63) | 0.520 | 0.98 (0.81-1.18) | 0.797 |
| 2013 | 0.73 (0.48-1.12) | 0.150 | 0.83 (0.68-1.01) | 0.059 |
| CDI occurrence | Reference: No CDI | Reference: No CDI |
| Early CDI | 1.90 (1.06-3.40) | 0.031 | 2.21 (1.43-3.42) | <0.001 |
| Late CDI | 0.50 (0.16-1.57) | 0.238 | 4.25 (2.72-6.65) | <0.001 |

1.By Cox regression; 2. By logistic regression