Supplement-Table 2 Subgroup analysis for transplant organ related hospitalization in patients who survived the complete follow-up period \*

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|  | OR (95% CI) | P value |
| Age group (years) | Reference: 18-34 | |
| 35-44 | 0.69 (0.55-0.86) | 0.001 |
| 45-54 | 0.71 (0.58-0.86) | 0.001 |
| 55-64 | 0.81 (0.67-0.98) | 0.033 |
| Gender | Reference: Male |  |
| Female | 1.14 (1.01-1.28) | 0.035 |
| Charlson index | Reference: 1-2 | |
| 3-4 | 1.03 (0.88-1.22) | 0.709 |
| ≥5 | 1.10 (0.89-1.37) | 0.385 |
| Transplant organ | Reference: Kidney | |
| Heart | 1.85 (1.49-2.31) | <0.001 |
| Liver | 1.43 (1.20-1.72) | <0.001 |
| Lung | 2.95 (2.02-4.31) | <0.001 |
| Multiple organs | 2.70 (2.08-3.50) | <0.001 |
| Transplant year | Reference: 2008 | |
| 2009 | 0.90 (0.73-1.11) | 0.310 |
| 2010 | 1.05 (0.86-1.29) | 0.612 |
| 2011 | 1.05 (0.87-1.27) | 0.625 |
| 2012 | 1.06 (0.87-1.29) | 0.551 |
| 2013 | 0.86 (0.70-1.06) | 0.163 |
| CDI occurrence | Reference: No CDI | |
| Early CDI | 2.13 (1.36-3.34) | 0.001 |
| Late CDI | 4.04 (2.61-6.26) | <0.001 |

\*By logistic regression; CDI: *Clostridium difficile* infection