**Supplemental Digital Content**

Supplemental Digital Content 1. Table. Multivariate logistic regression for empiric antibiotics.

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|  | (1) | (2) |
| VARIABLES | Readmitted within 30 days for Any Reason | Readmitted within 30 days for Pneumonia |
| Ceftriaxone | -0.121 | -0.477 |
|  | (0.113) | (43.21) |
| Azithromycin | -0.0255 | 0.0350 |
|  | (0.142) | (0.0538) |
| Ceftriaxone and Azithromycin | 0.130 | 0.444 |
|  | (0.189) | (43.21) |
| Vancomycin | 0.0218 | -0.0459 |
|  | (0.0664) | (0.0507) |
| Piperacillin/Tazobactam | -0.105\* | -0.0187 |
|  | (0.0536) | (0.0325) |
| Tobramycin | 0.312\*\*\* | -0.0528 |
|  | (0.115) | (0.0610) |
| Aztreonam | -0.0403 | 0.137\*\* |
|  | (0.115) | (0.0539) |
| Controls for Patient Characteristics | Yes | Yes |
|  |  |  |
| Observations | 271 | 267 |
| Notes: Robust standard errors are reported in parentheses. Control variables for patient characteristics include gender, age over 65, chronic lung disease, current cancer, comorbidity score, anxiety/depression, hematocrit below 30, instability upon discharge, and organism-antimicrobial mismatch. The smaller sample size for column (2) is due to dropping of bug-drug mismatch, ceftriaxone, ceftriaxone and azithromycin, and vancomycin patients because none of them were readmitted for pneumonia. The coefficients reported for the logistic regression are the marginal effects. \*\*\* and \*\* indicate p-values less than 0.01 and 0.05. |