Supplemental Digital Content 2. Table. Multivariate logistic regression for treatment antibiotics.

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|  | (1) | (2) |
| VARIABLES | Readmitted within 30 days for Any Reason | Readmitted within 30 days for Pneumonia |
| Ceftriaxone | -0.112 |  |
|  | (0.155) |  |
| Azithromycin | 0.152 | 0.0665 |
|  | (0.0982) | (0.0483) |
| Ceftriaxone and Azithromycin | -0.108 |  |
|  | (0.195) |  |
| Vancomycin | -0.115 |  |
|  | (0.102) |  |
| Piperacillin/Tazobactam | -0.0735 | -0.0691 |
|  | (0.0568) | (0.0534) |
| Aztreonam | 0.0121 | 0.135\*\* |
|  | (0.118) | (0.0570) |
| Amoxicillin/Clavulanate | 0.0252 | 0.0912\* |
|   | (0.0809) | (0.0469) |
| Controls for Patient Characteristics | Yes | Yes |
|  |  |  |
| Observations | 271 | 209 |
| 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. |