Supplemental material

Supplemental Table 1: Antibiotic adverse event definitions

|  |  |  |
| --- | --- | --- |
|  | **ICD9** | **ICD10** (encompasses ~3 months of time period for current study). |
| ***C. difficile* infection definition** | 00845 | A047 |
| **Allergy definition (any of the below)1,2** | | |
| Dermatitis due to drug | 6930 | L27.0 L27.1 |
| Allergic urticaria | 708 | L50 |
| Angioneurotic edema | 9951 | T78.3XXA |
| Unspecified allergic reaction | 995.3 | T78.40XA |
| Unspecified adverse effect of drug medicinal and biological substance not elsewhere classified | 995.2 | T50.905A |
| Rash | 782.1 | R21 |
| Specified pruritis | 698.8 | L298 |
| Unspecified pruritis | 698.9 | L299 |
| **Anaphylaxis definition**  This is the only row that contributes to anaphylaxis definition but is also included in the allergy composite definition | 9950 | T78.2XXA |

**ED visit definition:**

· Provider group code: 110 111 114

· Revenue code 0450 0451 0452 0456 0459 0637 0981

· Standard provider code: 220 428

· Place of service code: 23

· Provided service code: 10120 10220 10320 10420 10520 12220 20120 20220 21120 21220 22120 22320 30120 30220 30320 30420 30520 30620 31120 31220 31320 31420 31520 31620

**1.** Saff RR, Camargo CA, Jr., Clark S, Rudders SA, Long AA, Banerji A. Utility of ICD-9-CM Codes for Identification of Allergic Drug Reactions. *J Allergy Clin Immunol Pract* 2016;4:114-119 e111.

**2.** Saff RR, Li Y, Santhanakrishnan N, et al. Identification of Inpatient Allergic Drug Reactions Using ICD-9-CM Codes. *J Allergy Clin Immunol Pract* 2019;7:259-264 e251.

Supplemental Table 2: Individual adverse events stratified by amoxicillin, clindamycin, or other antibiotics

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Number of events** | **Total follow-up time,**  **person-years** | **Incidence rate**  **Per 1000 person-days** | **95% CI** | | **Risk differences**  **Per 1000 person-days** | **95% CI** | |
| CDI | | | | | | | | |
| Amoxicillin | 7 | 3509.12 | 0.0051 | 0.0014 | 0.0095 | Reference | Reference | |
| Clindamycin | 3 | 841.81 | 0.0106 | 0.0012 | 0.0208 | 0.0043 | -0.0074 | 0.0160 |
| Others | 4 | 868.06 | 0.0133 | 0.0003 | 0.0249 | 0.0072 | -0.0058 | 0.0201 |
| Allergy | | | | | | | | |
| Amoxicillin | 198 | 3505.09 | 0.1545 | 0.1349 | 0.1746 | Reference | Reference | |
| Clindamycin | 64 | 840.84 | 0.2098 | 0.1631 | 0.2540 | 0.0538 | 0.0042 | 0.1034 |
| Others | 57 | 867.07 | 0.1800 | 0.1378 | 0.2224 | 0.0253 | -0.0214 | 0.0721 |
| Anaphylaxis | | | | | | | | |
| Amoxicillin | 1 | 3509.12 | 0.0008 | 0.0007 | 0.0023 | Reference | Reference | |
| Clindamycin | 2 | 841.81 | 0.0065 | 0.0025 | 0.0155 | 0.0057 | -0.0034 | 0.0148 |
| Others | 2 | 868.06 | 0.0063 | 0.0024 | 0.0150 | 0.0055 | -0.0033 | 0.0144 |
| ED visit | | | | | | | | |
| Amoxicillin | 1032 | 3488.28 | 0.8104 | 0.7611 | 0.8600 | Reference | Reference | |
| Clindamycin | 327 | 836.81 | 1.0705 | 0.9546 | 1.1866 | 0.2601 | 0.1340 | 0.3861 |
| Others | 270 | 862.91 | 0.8579 | 0.7550 | 0.9595 | 0.0467 | -0.0668 | 0.1602 |