Supplemental material

Supplemental Table 1: Antibiotic adverse event definitions

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| --- | --- | --- |
|  | **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  |