

Supplementary Materials

for

Rao GA, Mann JR, Shoaibi A, et al. Azithromycin and levofloxacin use and increased risk of cardiac arrhythmia and death. *Ann Fam Med*. 2014;12(2):121-127.

Supplemental Table. Clinical and Demographic Characteristics of Patients When Prescriptions for Study Antibiotics Were Filled and Were Used for Computation of IPTW				
Characteristic	All patients (N = 1,757,689)	Amoxicillin (n = 979,380)	Azithromycin (n = 594,792)	Levofloxacin (n = 201,798)
Antibiotic indication, No. (%)				
Chronic obstructive pulmonary disease and bronchiectasis	248,126 (14.1)	75,073 (7.7)	144,404 (24.3)	31,987 (15.9)
Pneumonia	17,736 (1.0)	637 (0.1)	11,044 (1.9)	6,655 (3.3)
Other respiratory infection	201,120 (11.4)	119,452 (12.2)	72,522 (12.2)	12,358 (6.1)
Ear-nose-throat infection	515,787 (29.3)	234,815 (24.0)	254,892 (42.9)	32,698 (16.2)
Gastrointestinal infection	967 (0.1)	362 (0.0)	328 (0.1)	336 (0.2)
Genitourinary infection	126,748 (7.2)	51,461 (5.3)	29,147 (4.9)	56,092 (27.8)
Wound infection	41,261 (2.3)	22,087 (2.3)	12,483 (2.1)	7,161 (3.5)
Other serious infection	2,946 (0.2)	1,540 (0.2)	1,185 (0.2)	281 (0.1)
Demographic				
Age, mean (SD), y	56.82 (10.1)	56.53 (9.96)	56.44 (10.33)	59.44 (9.84)
Race, No. (%)				
White or European American	1,248,229 (71.0)	691,399 (70.6)	419,898 (70.6)	149,817 (74.2)
African American	320,405 (18.2)	181,561 (18.5)	108,915 (18.3)	33,044 (16.4)
American Indian or Alaskan native	4,564 (0.3)	2,648 (0.3)	1,670 (0.3)	305 (0.2)
Hawaiian or Pacific Islander	5,211 (0.3)	2,961 (0.3)	2,003 (0.3)	318 (0.2)
Asian	6,606 (0.4)	3,723 (0.4)	2,512 (0.4)	450 (0.2)
Multiracial, combination of white and African American only	36,063 (2.1)	20,464 (2.1)	11,640 (2.0)	4,320 (2.1)
Multiracial, any combination other than just African American and white only	43,842 (2.5)	24,692 (2.5)	13,257 (2.2)	6,644 (3.3)
Unknown	92,769 (5.3)	51,932 (5.3)	34,897 (5.9)	6,900 (3.4)
Male sex, No. (%)	1,556,244 (88.5)	874,698 (89.3)	513,603 (86.4)	183,984 (91.2)

Characteristic, <i>continued</i>	All patients (N = 1,757,689)	Amoxicillin (n = 979,380)	Azithromycin (n = 594,792)	Levofloxacin (n = 201,798)
Body mass index, mean (SD)	31.94 (5.51)	32 (5.49)	32.08 (5.54)	31.13 (5.42)
Hispanic ethnicity, No. (%)	104,381 (5.9)	60,351 (6.2)	31,024 (5.2)	14,511 (7.2)
Smoking status, No. (%)				
Never	390,866 (22.2)	217,115 (22.2)	131,267 (22.1)	47,422 (23.5)
Current	820,760 (46.7)	456,001 (46.6)	286,808 (48.2)	85,580 (42.4)
Former	546,063 (31.1)	306,264 (31.3)	176,717 (29.7)	68,796 (34.1)
Comorbidity, No. (%)				
Chronic obstructive pulmonary disease and bronchiectasis	31,427 (1.8)	10,670 (1.1)	15,943 (2.7)	5,191 (2.6)
Diabetes mellitus with complications	15,591 (0.9)	9,314 (1.0)	4,141 (0.7)	2,288 (1.1)
Diabetes mellitus without complication	58,921 (3.4)	34,073 (3.5)	17,963 (3.0)	7,432 (3.7)
Essential hypertension	85,258 (4.9)	48,858 (5.0)	25,724 (4.3)	11,614 (5.8)
Hypertension with complications and secondary hypertension	1,262 (0.1)	663 (0.1)	400 (0.1)	221 (0.1)
Congestive heart failure; nonhypertensive	7,137 (0.4)	3,545 (0.4)	2,485 (0.4)	1,225 (0.6)
Acute myocardial infarction	445 (0.0)	225 (0.0)	140 (0.0)	89 (0.0)
Cardiac device related	74 (0.0)	35 (0.0)	23 (0.0)	16 (0.0)
Cardiac arrhythmia, atrial fibrillation	8,338 (0.5)	4,640 (0.5)	2,508 (0.4)	1,259 (0.6)
Cardiac arrhythmia, atrial flutter	697 (0.0)	376 (0.0)	244 (0.0)	84 (0.0)
Occlusion or stenosis of precerebral arteries	1,226 (0.1)	682 (0.1)	386 (0.1)	167 (0.1)
Acute cerebrovascular disease	2,578 (0.1)	1,504 (0.2)	675 (0.1)	434 (0.2)
Peripheral and visceral atherosclerosis	4,490 (0.3)	2,611 (0.3)	1,140 (0.2)	787 (0.4)
Transient cerebral ischemia	741 (0.0)	427 (0.0)	213 (0.0)	111 (0.1)
Late effects of cerebrovascular disease	1,060 (0.1)	607 (0.1)	246 (0.0)	252 (0.1)
Other and ill-defined cerebrovascular disease	318 (0.0)	188 (0.0)	76 (0.0)	62 (0.0)
Chronic renal failure	2,810 (0.2)	1,498 (0.2)	860 (0.1)	506 (0.3)
Hepatitis	4,360 (0.2)	2,600 (0.3)	1,324 (0.2)	473 (0.2)
Personality disorders	1,727 (0.1)	986 (0.1)	590 (0.1)	173 (0.1)
Mood disorders	46,392 (2.6)	26,549 (2.7)	15,793 (2.7)	4,511 (2.2)
Drug, No. (%)				
Insulin	25,970 (1.5)	15,020 (1.5)	8,093 (1.4)	3,112 (1.5)
Hypoglycemic, oral	54,285 (3.1)	30,906 (3.2)	16,912 (2.8)	7,043 (3.5)
Antipsychotics	24,830 (1.4)	14,210 (1.5)	8,115 (1.4)	2,775 (1.4)
β -Agonists	38,002 (2.2)	15,653 (1.6)	17,338 (2.9)	5,424 (2.7)
β -Blockers	55,754 (3.2)	31,361 (3.2)	17,989 (3.0)	7,003 (3.5)
Calcium channel blockers	38,886 (2.2)	21,292 (2.2)	12,389 (2.1)	5,730 (2.8)
Digoxin	5,025 (0.3)	2,761 (0.3)	1,353 (0.2)	1,036 (0.5)

Characteristic, <i>continued</i>	All patients (N = 1,757,689)	Amoxicillin (n = 979,380)	Azithromycin (n = 594,792)	Levofloxacin (n = 201,798)
Loop diuretic	17,432 (1.0)	9,323 (1.0)	5,334 (0.9)	3,073 (1.5)
Other non-loop diuretic	36,353 (2.1)	20,363 (2.1)	12,031 (2.0)	4,284 (2.1)
Angiotensin-converting enzyme inhibitor	68,332 (3.9)	38,422 (3.9)	21,737 (3.7)	8,873 (4.4)
Angiotensin receptor blocker	9,285 (0.5)	5,233 (0.5)	3,561 (0.6)	601 (0.3)
Antiarrhythmic	2,076 (0.1)	1,169 (0.1)	575 (0.1)	379 (0.2)
Anticoagulant	15,739 (0.9)	8,883 (0.9)	4,397 (0.7)	2,651 (1.3)
Antiplatelet	11,744 (0.7)	6,445 (0.7)	3,955 (0.7)	1,445 (0.7)
Antianginal	17,624 (1.0)	9,380 (1.0)	5,415 (0.9)	3,232 (1.6)
Anti-lipid	91,952 (5.2)	52,006 (5.3)	30,114 (5.1)	10,660 (5.3)
Corticosteroids, systemic	8,982 (0.5)	3,956 (0.4)	3,723 (0.6)	1,427 (0.7)
Laboratory values, mean (SD)				
Albumin (g/dL)	4.07 (0.38)	4.07 (0.37)	4.07 (0.38)	4.02 (0.38)
Alanine transaminase (IU/mL)	31.29 (17.73)	31.51 (17.92)	31.16 (17.69)	30.63 (16.81)
Aspartate transaminase (IU/mL)	26.92 (13.44)	27.05 (13.53)	26.77 (13.31)	26.81 (13.33)
Serum creatinine (mg/dL)	1.05 (0.35)	1.05 (0.35)	1.04 (0.31)	1.1 (0.44)
Hemoglobin A _{1c} (%)	6.81 (0.86)	6.82 (0.89)	6.78 (0.82)	6.82 (0.89)
High-density lipoprotein	43.56 (12.43)	43.35 (12.3)	43.64 (12.72)	44.46 (12.01)
Hemoglobin (g/dL)	14.49 (1.39)	14.5 (1.39)	14.5 (1.37)	14.38 (1.43)
International normalized ratio	1.22 (1.25)	1.21 (1.14)	1.22 (1.38)	1.29 (1.37)
Low-density lipoprotein	107.76 (31.22)	107.75 (31.37)	107.42 (31.44)	108.63 (29.36)
Platelet count (10 ⁹ /L)	241.77 (65.99)	241.49 (65.53)	242.31 (66.01)	241.43 (68.23)
Potassium (mEq/L)	4.25 (0.41)	4.25 (0.41)	4.23 (0.41)	4.29 (0.42)
IPTW = inverse probability treatment weight.				