



PDMP Brief – Q2 2019 – St. Charles County

The St. Louis County Prescription Drug Monitoring Program (PDMP) monitors the prescribing and dispensing of schedule II-IV controlled substances to assist in the identification and prevention of prescription drug misuse and abuse. The program’s goals are to 1) improve controlled substance prescribing, 2) inform clinical practice, and 3) reduce the number of people who misuse, abuse, or overdose.

The St. Louis County PDMP launched on April 25, 2017, with 14 jurisdictions participating in the initial implementation. Saint Louis County Department of Public Health (DPH) operates the PDMP on behalf of all participating jurisdictions. As of June 30, 2019, 72 jurisdictions have enacted legislation to participate in the St. Louis County PDMP.

As of 06/30/2019, there are over 15,000 approved users within the system. Figure 1 represents approved user counts for the total PDMP by quarter as well as the average number of patient searches performed per day. System utilization has increased as both the number of approved users and participating jurisdictions have increased. In Q2 2019, over 7,600 patient searches were performed daily by healthcare providers. Increasing utilization of the PDMP is a continued focus of DPH.

Figure 1. PDMP registration and utilization by quarter.

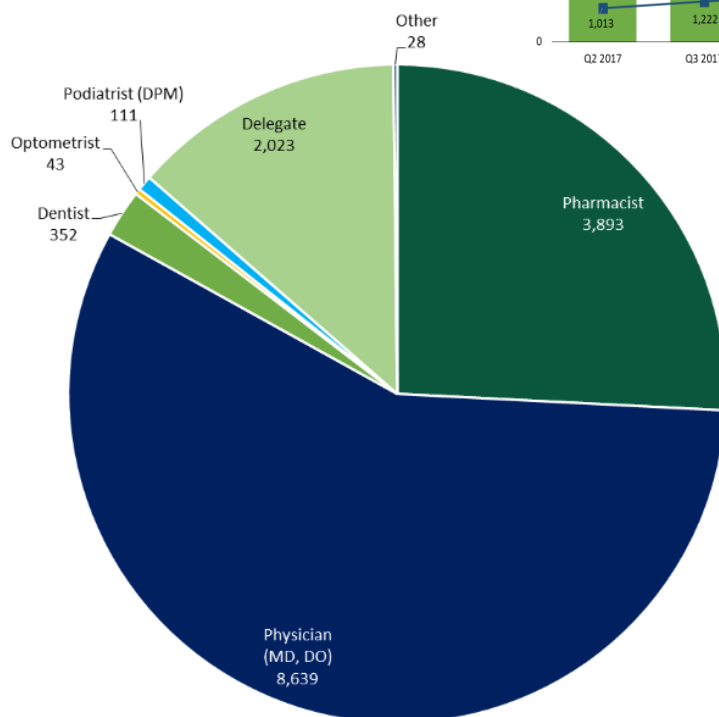
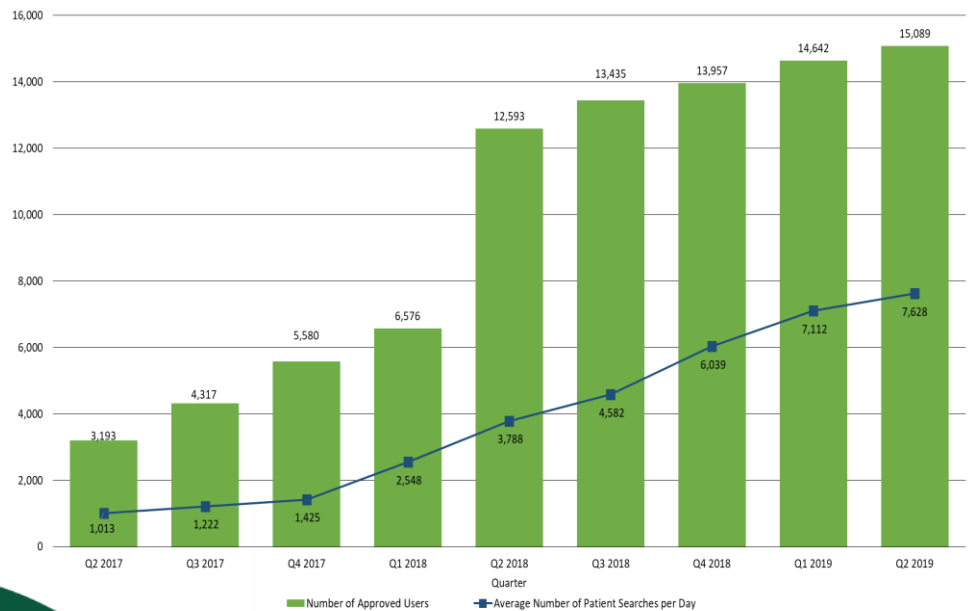


Figure 2. PDMP approved user counts by user role.

Figure 2 represents approved users by role. As of 06/30/19, there were more than 15,000 approved users in the PDMP. The increase in users in Q2 2018 was a result of mass provider registration; mass registration is where a health system, hospital, medical group, or healthcare practice can bulk register their healthcare providers in the PDMP.

62% of PDMP users are prescribers (physicians, dentists, optometrists, and podiatrists).

27% of users are pharmacists.

Additional information on the PDMP can be found at www.stlouisco.com/PDMP or by contacting DPH at PDMP.DPH@stlouisco.com or 314-615-0522.



Opioid Dispensations

Across all age groups, opioids were the most frequently prescribed schedule II-IV controlled substance drug type. Opioids comprise ~40% of all controlled substances dispensed. Hydrocodone, oxycodone, and tramadol were the three most frequently prescribed opioids (over 82% of opioid prescriptions).

St. Charles County’s opioid dispensation rate was 653.4 per 1,000 population which is not significantly different than the total system (658.2 per 1,000 population).

Figure 3. Opioid dispensation rates per 1,000 by patient location.

Figure 3 represents opioid dispensation rates per 1,000 population for each jurisdiction compared to the total system. Jurisdictions were categorized as either higher, lower, or not different than the overall dispensation rate based on statistical significance at $\alpha = .05$.

*Rates represent projected annual rates based on one quarter of data.

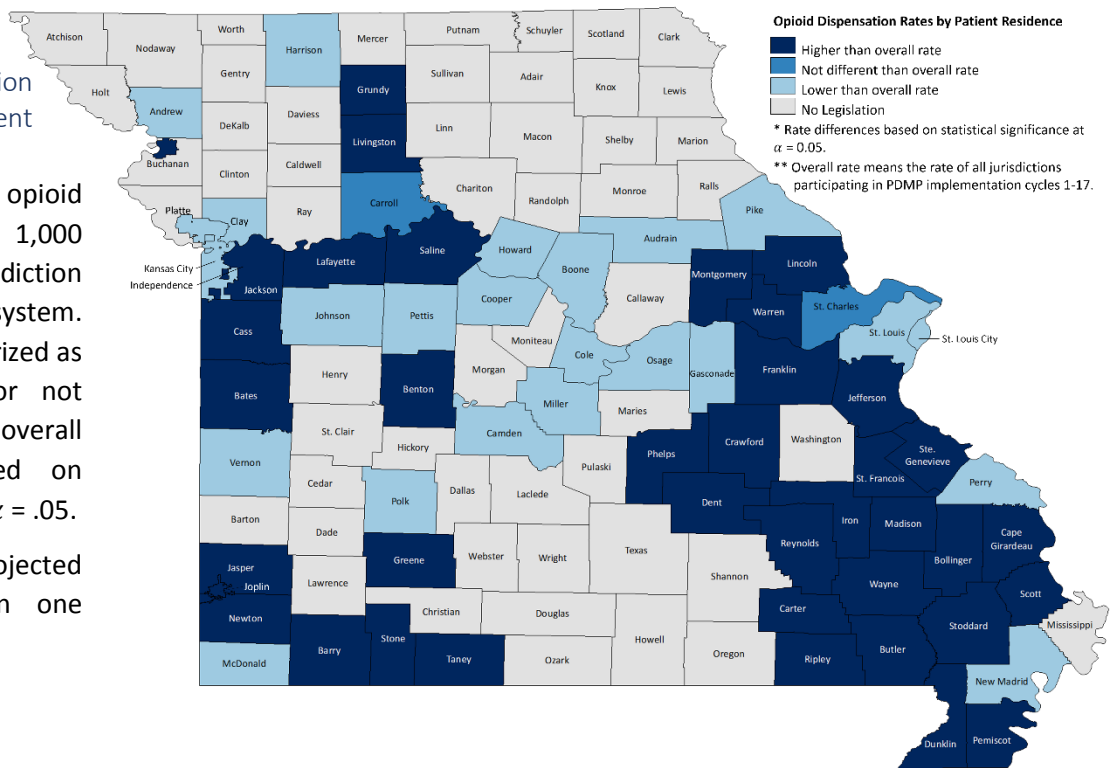
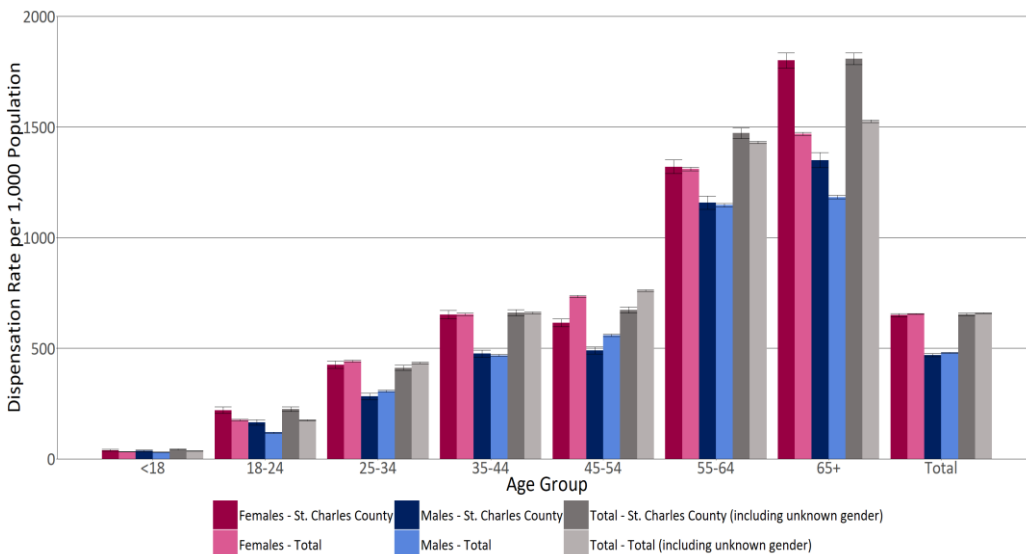


Figure 4. Opioid dispensation rates per 1,000 by age and gender.



Opioid dispensation rates increase as patient age increases.

Females received higher rates of opioid prescriptions than males across all age groups as displayed in Figure 4.

Across both genders, St. Charles County residents aged 65+ received the highest rates of opioids compared to all other age groups – more than 1.8 opioid prescriptions per St. Charles County resident aged 65+.



Table 1a. Opioid dispensation rates per 1,000 population by jurisdiction, age, and gender; jurisdictions A-J.

Opioids	<18		18-24		25-34		35-44		45-54		55-64		65+		Total	
Jurisdiction	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI
Andrew County	23.1 (13.8, 32.3)		158.5 (115.4, 201.6)		340.9 (288.4, 393.4)		633.4 (566.9, 699.8)		648.8 (588.0, 709.7)		1021.0 (939.0, 1103.0)		1409.9 (1320.0, 1499.8)		593.4 (570.4, 616.3)	
Female	19.9 (7.6, 32.2)		139.2 (82.3, 196.1)		235.5 (174.4, 296.7)		461.4 (381.2, 541.6)		486.0 (411.9, 560.2)		880.4 (772.1, 988.7)		1373.6 (1255.9, 1491.3)		528.1 (497.7, 558.5)	
Male	26.0 (12.4, 39.7)		135.2 (78.7, 191.7)		278.7 (210.9, 346.4)		573.0 (483.6, 662.3)		515.0 (438.0, 591.9)		884.0 (776.7, 991.2)		1067.4 (948.3, 1186.4)		470.3 (441.2, 499.5)	
Audrain County	35.8 (26.5, 45.1)		184.9 (147.9, 221.9)		459.9 (413.3, 506.5)		541.4 (489.7, 593.0)		678.7 (624.8, 732.6)		1201.7 (1123.8, 1279.7)		1245.8 (1177.4, 1314.3)		586.5 (567.7, 605.3)	
Female	44.4 (29.3, 59.5)		225.1 (170.4, 279.8)		465.9 (405.3, 526.5)		575.9 (505.4, 646.5)		832.6 (750.8, 914.4)		1237.4 (1127.4, 1347.4)		1285.4 (1194.6, 1376.3)		650.8 (623.8, 677.8)	
Male	25.9 (15.1, 36.7)		130.2 (83.6, 176.7)		417.2 (347.1, 487.3)		495.5 (420.1, 570.9)		503.3 (435.4, 571.2)		1158.0 (1047.9, 1268.1)		1187.5 (1083.6, 1291.3)		505.8 (480.2, 531.5)	
Barry County	33.8 (26.0, 41.5)		190.8 (158.0, 223.6)		542.1 (494.5, 589.8)		528.0 (484.0, 572.1)		798.9 (751.0, 846.9)		1360.2 (1294.0, 1426.3)		1370.8 (1312.8, 1428.7)		684.3 (667.1, 701.5)	
Female	36.9 (25.3, 48.5)		252.5 (197.8, 307.2)		601.3 (530.7, 671.9)		600.7 (534.5, 666.8)		904.0 (831.1, 976.9)		1388.0 (1294.0, 1482.0)		1469.3 (1387.8, 1550.7)		757.7 (737.3, 778.1)	
Male	29.9 (19.7, 40.1)		131.8 (94.1, 169.5)		470.5 (407.3, 533.6)		446.6 (389.1, 504.0)		687.5 (625.2, 749.9)		1323.2 (1230.3, 1416.0)		1232.9 (1151.6, 1314.2)		601.2 (578.4, 624.1)	
Bates County	26.3 (16.6, 36.1)		263.4 (206.0, 320.8)		501.3 (437.0, 565.7)		752.2 (675.8, 829.0)		797.6 (729.1, 866.0)		1608.5 (1671.7, 1696.0)		1608.5 (1518.0, 1699.0)		795.4 (768.6, 822.1)	
Female	23.3 (10.1, 36.4)		251.7 (171.6, 331.7)		440.1 (354.3, 525.9)		969.7 (844.9, 1094.5)		1000.8 (892.5, 1109.1)		1761.9 (1604.4, 1919.4)		1733.8 (1608.5, 1859.1)		892.4 (852.6, 932.2)	
Male	25.5 (12.2, 38.9)		223.6 (149.5, 297.7)		522.8 (430.4, 615.2)		452.0 (386.7, 535.3)		534.6 (455.1, 614.0)		1693.7 (1534.3, 1853.0)		1386.8 (1259.8, 1513.8)		642.8 (608.5, 677.1)	
Benton County	29.1 (17.7, 40.5)		174.4 (124.5, 224.3)		610.2 (527.5, 693.0)		692.9 (617.7, 768.1)		1041.9 (967.4, 1116.3)		1560.9 (1477.7, 1644.2)		1585.1 (1514.8, 1655.3)		979.6 (951.5, 1007.7)	
Female	28.8 (12.5, 45.1)		286.3 (194.0, 378.5)		710.7 (584.1, 837.4)		815.8 (701.6, 930.0)		1071.4 (963.5, 1179.2)		1448.8 (1336.9, 1560.7)		1688.6 (1586.6, 1790.6)		1026.5 (985.8, 1067.2)	
Male	20.4 (7.1, 33.6)		71.3 (27.1, 115.5)		458.6 (357.5, 559.8)		508.1 (416.1, 600.2)		859.1 (764.5, 953.6)		1570.1 (1450.4, 1689.8)		1394.4 (1300.8, 1488.1)		857.1 (819.9, 894.2)	
Bollinger County	48.0 (32.1, 63.9)		192.3 (135.7, 247.8)		449.0 (375.4, 522.6)		609.5 (538.9, 688.1)		932.9 (847.1, 1018.6)		1560.9 (1544.1, 1790.4)		1470.6 (1365.9, 1575.4)		767.1 (732.6, 798.0)	
Female	50.7 (27.3, 74.2)		159.3 (87.7, 231.0)		443.7 (338.3, 549.2)		555.3 (450.5, 660.0)		900.6 (864.5, 1116.7)		1593.3 (1422.7, 1764.0)		1527.5 (1438.0, 1737.1)		788.9 (744.6, 833.2)	
Male	45.4 (23.8, 67.0)		191.7 (113.3, 270.0)		399.4 (303.0, 495.8)		612.5 (498.5, 725.4)		804.8 (693.3, 916.4)		1617.9 (1446.7, 1789.1)		1227.3 (1087.7, 1366.9)		684.7 (643.2, 725.9)	
Boone County	25.6 (22.2, 29.0)		86.0 (79.7, 92.2)		390.5 (374.9, 406.1)		671.9 (648.4, 695.5)		715.7 (692.1, 739.3)		1239.0 (1204.6, 1273.4)		1695.3 (1653.8, 1736.9)		526.7 (519.6, 533.8)	
Female	25.2 (20.4, 30.0)		93.6 (86.4, 102.6)		440.9 (417.3, 464.4)		760.2 (725.2, 795.3)		797.2 (762.8, 831.5)		1267.7 (1219.5, 1315.9)		1839.9 (1782.7, 1897.1)		591.8 (581.4, 602.2)	
Male	24.6 (19.9, 29.2)		75.1 (66.6, 83.5)		314.1 (294.5, 333.8)		553.1 (522.6, 583.7)		594.7 (563.6, 625.8)		1179.4 (1131.0, 1227.8)		1437.5 (1378.8, 1496.1)		428.6 (427.4, 441.1)	
Butler County	38.1 (30.4, 45.8)		284.7 (249.0, 319.9)		732.6 (685.2, 780.0)		1100.2 (1043.0, 1157.5)		1196.0 (1141.7, 1250.2)		1817.3 (1746.8, 1887.9)		1556.0 (1498.6, 1613.3)		927.5 (903.9, 945.8)	
Female	38.7 (27.6, 49.8)		312.0 (260.0, 364.1)		770.1 (703.3, 836.9)		1111.9 (1031.4, 1192.4)		1204.1 (1128.2, 1280.0)		1771.1 (1674.8, 1867.4)		1531.8 (1456.2, 1607.4)		950.8 (925.2, 976.5)	
Male	33.3 (23.6, 43.7)		151.3 (115.4, 187.6)		484.1 (428.0, 540.2)		837.4 (766.0, 908.9)		845.6 (780.2, 911.1)		1439.7 (1348.7, 1530.7)		1076.6 (1004.1, 1149.1)		654.3 (632.2, 676.4)	
Camden County	12.9 (8.0, 17.7)		104.1 (88.5, 120.8)		192.2 (165.4, 219.0)		269.3 (238.8, 299.8)		243.2 (219.9, 266.6)		402.9 (374.8, 431.0)		586.5 (555.8, 617.3)		291.1 (281.0, 301.2)	
Female	11.7 (5.1, 18.3)		154.1 (112.6, 195.5)		219.5 (178.8, 260.2)		300.7 (255.2, 346.1)		272.9 (238.1, 307.7)		367.4 (330.4, 404.5)		676.7 (630.1, 723.2)		319.9 (305.0, 334.8)	
Male	12.2 (5.6, 18.8)		51.8 (28.5, 75.1)		143.8 (111.0, 176.5)		219.4 (180.3, 258.5)		188.1 (158.8, 217.3)		390.5 (350.5, 430.5)		458.0 (419.4, 496.5)		236.7 (223.8, 249.6)	
Cape Girardeau County	48.7 (42.0, 55.4)		128.4 (114.7, 142.1)		496.2 (467.9, 524.5)		771.3 (734.7, 807.9)		740.7 (707.6, 773.8)		1382.6 (1333.9, 1431.4)		1742.3 (1692.6, 1792.0)		695.7 (683.8, 707.6)	
Female	43.7 (34.7, 52.8)		125.3 (106.6, 144.0)		507.1 (466.5, 547.7)		693.3 (644.5, 742.0)		751.5 (704.7, 798.3)		1381.9 (1314.1, 1449.8)		1720.1 (1655.3, 1784.9)		709.9 (693.2, 726.7)	
Male	43.0 (34.2, 51.9)		73.0 (58.1, 88.0)		384.0 (308.8, 459.2)		674.2 (625.4, 723.0)		545.2 (504.8, 585.7)		1107.8 (1045.2, 1170.5)		1458.1 (1387.8, 1528.4)		538.2 (523.2, 553.2)	
Carroll County	27.4 (13.5, 41.2)		273.3 (192.5, 354.0)		383.8 (346.7, 461.0)		817.6 (719.9, 915.3)		817.6 (719.9, 915.3)		1269.3 (1165.3, 1417.8)		1369.3 (1268.6, 1478.1)		692.0 (658.2, 725.8)	
Female	44.4 (19.3, 69.5)		146.8 (63.7, 229.8)		226.1 (143.8, 308.4)		686.5 (550.6, 822.4)		861.5 (718.8, 1004.3)		1183.7 (1011.8, 1355.7)		1309.4 (1167.7, 1451.1)		673.3 (626.6, 719.9)	
Male	*		302.8 (181.4, 424.0)		201.3 (120.7, 281.8)		301.1 (210.0, 392.1)		468.5 (364.5, 572.4)		876.2 (730.0, 1022.4)		828.8 (700.8, 956.9)		414.5 (377.0, 451.9)	
Carters County	23.8 (8.2, 39.3)		181.8 (109.1, 254.6)		479.3 (372.9, 585.6)		686.3 (567.4, 805.2)		910.6 (788.6, 1032.6)		1533.7 (1366.7, 1700.7)		1426.9 (1381.7, 1572.1)		733.0 (690.6, 775.4)	
Female	*		189.1 (86.3, 291.9)		752.4 (652.0, 942.7)		506.6 (363.3, 649.9)		982.6 (801.4, 1163.8)		1267.4 (1058.2, 1476.6)		1383.5 (1288.5, 1578.7)		712.8 (654.4, 771.2)	
Male	*		110.7 (28.7, 192.7)		204.8 (107.5, 302.2)		806.5 (622.8, 990.3)		766.7 (610.0, 923.3)		1480.0 (1241.6, 1718.4)		1311.2 (1106.7, 1515.7)		656.0 (598.5, 713.4)	
Cass County	37.7 (33.0, 42.4)		228.1 (206.2, 249.7)		420.9 (397.8, 444.1)		678.9 (650.8, 707.0)		807.7 (773.2, 829.1)		1629.8 (1582.8, 1676.7)		1640.5 (1629.3, 1683.8)		701.1 (690.7, 711.5)	
Female	24.1 (18.8, 29.5)		176.1 (148.9, 203.3)		284.8 (258.3, 311.2)		491.9 (458.4, 525.4)		606.5 (571.8, 641.3)		1196.2 (1140.7, 1251.8)		1446.3 (1320.9, 1500.5)		566.4 (535.5, 579.5)	
Male	23.0 (17.9, 28.1)		89.9 (70.2, 107.5)		195.2 (172.5, 217.8)		325.7 (298.3, 353.5)		422.3 (393.0, 451.7)		988.8 (935.9, 1041.8)		1039.7 (987.7, 1091.6)		383.4 (372.4, 394.4)	
Clay County	37.1 (32.6, 41.7)		215.0 (195.6, 234.4)		329.7 (311.7, 347.8)		546.3 (523.1, 569.5)		744.0 (717.3, 770.7)		1348.8 (1307.8, 1389.9)		1660.0 (1614.3, 1705.7)		602.4 (593.2, 611.7)	
Female	25.4 (20.1, 30.8)		161.8 (138.1, 185.6)		250.2 (228.2, 272.2)		427.6 (398.7, 456.4)		555.2 (522.9, 587.6)		964.8 (916.9, 1012.8)		1285.9 (1232.7, 1339.0)		471.2 (459.8, 482.6)	
Male	30.7 (25.0, 36.5)		104.2 (88.5, 123.3)		149.6 (132.2, 166.9)		268.9 (256.9, 304.2)		288.9 (342.1, 395.8)		800.3 (754.4, 846.1)		1011.9 (957.4, 1066.5)		322.1 (315.2, 331.8)	
Cole County	35.9 (30.4, 41.4)		196.7 (175.9, 217.6)		358.9 (336.0, 381.9)		551.8 (523.0, 580.5)		657.3 (627.6, 686.9)		1105.5 (1063.3, 1147.1)		1379.9 (1332.3, 1427.6)		558.3 (547.7, 569.0)	
Female	33.7 (26.1, 41.4)		234.9 (209.0, 267.4)		470.3 (431.0, 509.0)		684.7 (637.5, 732.0)		737.6 (692.6, 782.6)		1414.3 (1350.8, 1477.9)		1530.9 (1468.7, 1593.1)		632.9 (616.8, 649.0)	
Male	32.7 (25.3, 40.2)		143.6 (118.5, 168.7)		237.8 (212.3, 263.2)		382.6 (350.0, 415.2)		529.2 (492.1, 566.3)		991.8 (935.2, 1048.4)		1237.6 (1168.2, 1307.1)		443.1 (429.8, 456.4)	
Cooper County	26.1 (16.1, 36.2)															



Table 1b. Opioid dispensation rates per 1,000 population by jurisdiction, age, and gender; jurisdictions K-Z.

Jurisdiction	<18		18-24		25-34		35-44		45-54		55-64		65+		Total	
	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI
Kansas City	34.1	(31.9, 36.2)	16.70	(15.9, 17.4)	336.3	(328.0, 344.6)	558.4	(546.5, 570.2)	684.0	(671.3, 696.7)	1350.7	(1330.5, 1370.9)	1428.6	(1407.8, 1449.4)	557.3	(553.0, 561.6)
Female	20.2	(17.8, 22.6)	11.9	(10.6, 128.1)	251.9	(241.9, 262.0)	386.3	(372.4, 400.3)	481.4	(466.4, 496.4)	934.4	(911.2, 957.6)	1005.0	(982.2, 1027.7)	406.3	(401.1, 411.4)
Male	24.5	(21.9, 27.1)	70.7	(67.7, 77.8)	149.7	(141.8, 157.6)	347.1	(334.2, 360.0)	768.3	(746.1, 790.4)	1316.7	(1285.3, 1348.1)	811.6	(787.1, 836.0)	282.0	(277.6, 286.4)
Lafayette County	36.6	(28.4, 44.9)	230.3	(193.7, 266.9)	525.8	(478.8, 572.8)	719.6	(667.7, 771.5)	928.4	(876.0, 980.9)	1587.7	(1510.7, 1664.8)	1229.5	(1178.8, 1288.1)	715.4	(697.2, 733.5)
Female	27.2	(16.9, 37.4)	202.1	(152.5, 251.6)	547.3	(479.3, 615.2)	641.1	(572.7, 709.5)	835.0	(764.2, 905.9)	1208.2	(1114.3, 1302.0)	1034.6	(962.6, 1106.6)	625.3	(601.4, 648.3)
Male	34.2	(23.0, 45.3)	134.0	(95.3, 172.7)	261.0	(214.3, 307.7)	458.2	(398.9, 517.6)	576.0	(517.9, 634.1)	1132.0	(1038.7, 1225.3)	774.0	(704.0, 844.0)	477.8	(427.4, 528.3)
Lincoln County	50.8	(43.5, 58.1)	290.6	(258.3, 322.9)	591.9	(555.7, 628.2)	808.7	(816.3, 902.5)	1082.7	(1038.0, 1127.5)	2286.4	(2207.6, 2365.3)	2032.5	(1958.6, 2106.5)	847.6	(851.6, 868.3)
Female	50.9	(40.4, 61.4)	348.5	(298.7, 398.3)	654.2	(600.9, 707.6)	1002.6	(936.0, 1069.2)	1180.1	(1113.7, 1246.6)	2307.5	(2196.1, 2419.0)	2096.1	(1993.8, 2198.4)	940.9	(917.5, 964.3)
Male	49.1	(39.9, 59.1)	195.9	(158.3, 233.6)	473.7	(427.3, 520.1)	648.2	(600.8, 701.5)	887.3	(830.3, 944.3)	2077.3	(1970.4, 2184.2)	1862.6	(1758.4, 1966.8)	728.6	(708.0, 749.0)
Livingston County	37.2	(24.1, 50.4)	224.7	(170.5, 278.9)	329.0	(277.7, 380.3)	499.5	(436.4, 562.5)	820.2	(743.5, 896.9)	1477.5	(1369.1, 1585.9)	1527.1	(1435.0, 1619.2)	712.1	(685.2, 738.9)
Female	45.5	(25.0, 66.0)	333.3	(241.8, 424.8)	300.2	(236.7, 363.6)	511.9	(428.6, 592.5)	877.8	(771.9, 983.7)	1546.9	(1394.5, 1699.2)	1683.7	(1556.8, 1810.6)	780.1	(742.3, 817.9)
Male	28.9	(12.6, 45.3)	106.6	(52.6, 160.5)	356.1	(272.1, 440.2)	461.7	(367.4, 556.1)	720.7	(612.0, 829.3)	1359.7	(1208.1, 1511.3)	1286.2	(1155.7, 1416.7)	611.1	(573.9, 648.2)
Madison County	53.2	(36.5, 69.9)	206.5	(183.4, 303.6)	750.2	(667.7, 842.6)	1002.9	(897.8, 1107.9)	1127.6	(1096.6, 1296.8)	2331.8	(2177.9, 2485.7)	1856.9	(1742.2, 1971.7)	1028.0	(992.0, 1063.9)
Female	62.2	(36.2, 88.2)	322.5	(224.9, 420.0)	919.4	(774.2, 1064.6)	966.3	(821.9, 1110.7)	1413.8	(1260.8, 1566.8)	2293.9	(2079.8, 2508.0)	2123.1	(1958.4, 2287.9)	1156.2	(1102.7, 1209.6)
Male	42.2	(21.5, 62.9)	147.9	(81.4, 214.3)	559.6	(447.1, 672.2)	1011.7	(860.9, 1162.5)	926.1	(800.9, 1051.4)	2295.7	(2077.9, 2513.4)	1454.9	(1302.3, 1607.1)	859.4	(812.5, 906.3)
McDonald County	30.3	(21.8, 38.7)	168.9	(132.3, 205.5)	332.5	(289.3, 375.6)	517.9	(466.5, 569.2)	758.3	(699.6, 816.9)	1271.3	(1185.1, 1357.6)	1447.9	(1360.1, 1535.7)	567.0	(547.6, 586.4)
Female	24.3	(13.4, 35.2)	20.9	(146.9, 264.5)	419.7	(350.9, 488.4)	590.5	(512, 668.2)	822.5	(792.3, 972.7)	1347.5	(1222.0, 1473.0)	1583.3	(1457.5, 1709.2)	647.5	(618.0, 677.0)
Male	34.7	(22.4, 47.3)	136.2	(91.1, 181.3)	240.6	(188.8, 297.3)	443.9	(376.9, 510.8)	621.8	(547.4, 696.3)	1139.8	(1024.1, 1255.5)	1285.0	(1164.1, 1405.9)	477.1	(452.1, 502.2)
Miller County	22.6	(14.9, 29.9)	110.5	(80.4, 140.5)	259.4	(221.4, 297.4)	374.2	(330.6, 417.8)	534.8	(487.7, 580.0)	988.6	(919.3, 1057.8)	1009.3	(945.8, 1072.7)	475.5	(440.5, 474.4)
Female	24.6	(13.2, 36.0)	156.6	(105.5, 207.8)	301.7	(243.7, 359.6)	460.2	(391.8, 528.6)	551.5	(483.8, 619.2)	1074.9	(973.2, 1176.6)	1122.5	(1032.1, 1213.0)	523.3	(497.7, 548.9)
Male	20.3	(10.4, 30.3)	62.3	(30.7, 93.8)	214.3	(165.5, 263.2)	288.3	(234.2, 342.4)	418.2	(354.7, 583.8)	883.1	(790.2, 978.0)	842.3	(756.2, 928.5)	383.8	(361.8, 405.8)
Montgomery County	35.1	(23.3, 48.8)	258.2	(190.0, 326.5)	506.6	(425.0, 584.1)	789.3	(620.3, 798.3)	789.3	(710.5, 868.2)	1567.5	(1445.6, 1696.3)	1420.8	(1323.1, 1518.6)	768.7	(727.9, 789.6)
Female	26.8	(9.3, 44.3)	410.3	(283.1, 537.4)	557.7	(444.4, 671.1)	855.8	(714.6, 699.1)	906.5	(815.5, 1025.5)	1757.0	(1572.1, 1941.8)	1504.7	(1375.5, 1638.9)	873.5	(826.6, 920.3)
Male	39.8	(19.6, 59.9)	129.9	(64.1, 195.6)	449.9	(344.1, 550.3)	546.7	(438.5, 657.0)	641.2	(540.2, 742.1)	1363.7	(1205.1, 1522.4)	1313.4	(1170.5, 1455.3)	631.6	(591.8, 671.4)
New Madrid County	21.3	(12.8, 29.8)	102.4	(70.3, 134.6)	378.2	(326.5, 430.0)	581.2	(515.5, 642.9)	730.7	(667.9, 793.6)	1210.5	(1124.5, 1296.4)	1396.4	(1312.4, 1480.3)	623.1	(600.7, 645.6)
Female	29.0	(14.8, 43.2)	137.0	(84.4, 189.7)	489.1	(379.1, 461.5)	620.9	(530.9, 710.8)	837.1	(744.1, 930.2)	1296.6	(1173.2, 1420.1)	1451.0	(1324.7, 1563.4)	695.4	(662.4, 728.0)
Male	10.4	(2.1, 18.7)	52.4	(19.9, 84.8)	288.2	(222.5, 353.9)	424.7	(349.9, 499.4)	531.4	(453.7, 609.0)	1018.2	(904.5, 1131.9)	1167.4	(1049.0, 1285.9)	472.1	(443.9, 500.3)
Newton County	37.9	(31.7, 44.2)	205.3	(180.5, 230.2)	497.8	(463.3, 532.2)	705.8	(667.9, 744.6)	885.3	(845.2, 923.5)	1638.0	(1579.1, 1697.2)	1735.1	(1609.3, 1790.0)	768.1	(753.8, 782.3)
Female	42.3	(32.6, 51.9)	246.6	(207.9, 285.3)	473.3	(424.0, 520.7)	761.5	(704.6, 818.4)	918.5	(861.2, 975.8)	1816.3	(1728.8, 1903.8)	1818.2	(1743.1, 1893.3)	846.1	(825.1, 867.2)
Male	33.5	(25.4, 41.6)	146.5	(117.1, 176.0)	482.6	(436.6, 530.6)	561.2	(512.4, 610.3)	776.7	(723.3, 844.1)	1364.5	(1278.6, 1440.9)	1555.2	(1476.9, 1633.4)	639.1	(620.7, 657.6)
Osage County	22.1	(12.2, 32.1)	166.8	(122.3, 211.3)	278.1	(224.9, 331.3)	290.5	(240.7, 340.2)	499.9	(392.7, 507.1)	1037.1	(938.6, 1135.6)	1070.8	(981.8, 1159.8)	440.7	(418.6, 462.8)
Female	31.2	(14.2, 48.1)	268.8	(171.1, 360.6)	327.7	(243.4, 412.0)	438.9	(351.6, 526.3)	455.7	(371.3, 540.2)	1012.8	(871.7, 1153.9)	1035.9	(917.9, 1153.9)	484.8	(451.3, 518.9)
Male	13.6	(2.7, 24.5)	104.5	(59.8, 149.2)	229.4	(161.3, 295.7)	139.1	(90.9, 187.3)	434.2	(357.5, 511.0)	1054.6	(917.4, 1191.8)	1092.1	(958.0, 1226.1)	393.4	(364.5, 422.4)
Pemisco County	39.7	(28.7, 50.7)	216.1	(170.7, 261.6)	657.1	(587.5, 726.6)	960.8	(877.8, 1043.8)	1328.1	(1238.7, 1417.5)	2343.8	(2215.1, 2477.4)	1919.0	(1814.0, 2023.7)	963.9	(935.5, 992.3)
Female	50.1	(32.4, 67.7)	252.4	(184.4, 320.3)	715.7	(617.0, 814.4)	1148.5	(1022.5, 1274.6)	1393.7	(1266.6, 1520.7)	2258.1	(2083.6, 2433.7)	1891.0	(1755.3, 2026.7)	1023.3	(982.9, 1063.8)
Male	26.6	(14.0, 39.2)	170.2	(112.9, 229.9)	575.6	(479.6, 671.6)	770.2	(616.7, 923.7)	1159.2	(1128.5, 1379.3)	2395.4	(2207.0, 2582.8)	1933.6	(1770.4, 2096.9)	882.2	(842.8, 921.7)
Perry County	37.0	(26.0, 47.9)	222.2	(174.1, 270.3)	360.6	(311.2, 410.0)	537.0	(478.2, 596.0)	685.2	(528.3, 642.2)	1034.1	(951.8, 1116.3)	1071.6	(997.0, 1146.2)	517.8	(497.4, 538.6)
Female	27.8	(14.2, 41.4)	222.9	(152.9, 292.8)	376.1	(303.8, 448.4)	490.6	(410.4, 571.0)	548.9	(564.9, 734.7)	1277.3	(1147.5, 1407.0)	1062.4	(963.9, 1160.9)	562.6	(530.4, 596.3)
Male	45.6	(28.7, 62.4)	211.3	(146.6, 276.0)	315.1	(250.7, 379.5)	505.8	(425.6, 585.9)	607.0	(426.3, 575.1)	784.4	(683.8, 885.4)	1043.1	(931.0, 1155.1)	445.1	(418.4, 472.0)
Pettis County	26.7	(20.5, 32.9)	203.2	(175.2, 231.2)	436.8	(401.3, 472.2)	599.6	(556.5, 642.7)	673.6	(632.5, 714.7)	1230.7	(1168.1, 1293.3)	1333.5	(1271.1, 1391.0)	586.0	(571.4, 600.6)
Female	28.6	(19.5, 37.7)	175.1	(137.0, 209.9)	414.4	(365.3, 463.6)	578.4	(513.3, 638.5)	535.4	(483.3, 587.4)	1110.8	(1027.0, 1194.7)	1182.4	(1111.1, 1253.8)	538.5	(519.2, 558.5)
Male	19.0	(11.7, 26.3)	121.9	(91.0, 152.6)	226.3	(190.5, 262.2)	355.3	(305.8, 402.2)	496.3	(446.6, 546.0)	864.2	(789.7, 938.7)	1019.0	(914.9, 1086.1)	391.6	(374.5, 408.6)
Phelps County	27.4	(20.8, 33.9)	94.1	(80.4, 107.7)	524.1	(486.0, 562.3)	831.3	(779.7, 882.9)	920.3	(872.2, 968.3)	1734.9	(1661.6, 1808.1)	1592.3	(1529.3, 1655.4)	707.6	(692.1, 723.1)
Female	31.8	(21.6, 42.1)	138.7	(110.8, 166.6)	631.9	(579.9, 692.9)	898.3	(822.6, 974.0)	964.1	(895.5, 1022.7)	1856.8	(1750.9, 1962.9)	1631.2	(1545.8, 1716.6)	822.0	(797.8, 846.2)
Male	22.6	(14.4, 30.8)	68.2	(53.8, 82.6)	422.6	(375.4, 469.7)	757.2	(687.5, 829.6)	874.0	(806.6, 941.0)	1600.7	(1500.0, 1701.3)	1535.9	(1442.7, 1629.0)	599.0	(580.1, 619.6)
Pike County	24.3	(14.8, 33.9)	192.0	(148.9, 235.2)	296.1	(250.3, 338.3)	626.0	(561.7, 690.3)	760.5	(697.0, 824.0)	1236.6	(1145.2, 1328.0)	1270.9	(1188.6, 1353.2)	608.3	(585.9, 630.8)
Female	20.2	(7.7, 32.7)	274.8	(194.5, 355.1)	516.0	(424.1, 607.9)	878.6	(756.5, 1000.7)	1140.1	(1021.3, 1258.9)	1413.9	(1272.9, 1555.0)	1468.1	(1347.6, 1588.7)	805.6	(767.2, 840.1)
Male	28.2	(13.9, 42.5)	133.6	(86.6, 180.7)	156.6	(116.6, 19										