

SUPPLEMENTARY TABLE 1. Rates* of kratom exposures among persons aged ≥12 years, single- versus multiple-substance exposure, sex, and age group — National Poison Data System, United States, 2015–2025

Year-to-year comparison	Single-substance exposure [†]			Multiple-substance exposure [§]		
	Previous year rate	Next year rate	Adjusted p-value [¶]	Previous year rate	Next year rate	Adjusted p-value [¶]
Overall						
2016 vs 2015	387.6	729.3	<0.001	467.3	900.0	<0.001
2017 vs 2016	729.3	1034.5	<0.001	900.0	1224.9	0.004
2018 vs 2017	1034.5	1756.1	<0.001	1224.9	2179.4	<0.001
2019 vs 2018	1756.1	1857.5	0.286	2179.4	2413.8	0.149
2020 vs 2019	1857.5	1684.2	0.069	2413.8	2549.7	0.428
2021 vs 2020	1684.2	1814.8	0.163	2549.7	2952.6	0.021
2022 vs 2021	1814.8	1640.7	0.066	2952.6	2519.4	0.013
2023 vs 2022	1640.7	1632.2	0.918	2519.4	2957.2	0.013
2024 vs 2023	1632.2	1826.4	0.041	2957.2	3005.8	0.776
2025 vs 2024	1826.4	4044.8	<0.001	3005.8	5441.5	<0.001
Females						
2016 vs 2015	189.7	349.1	0.001	238.9	487.9	0.005
2017 vs 2016	349.1	475.6	0.043	487.9	485.4	0.927
2018 vs 2017	475.6	972.5	<0.001	485.4	1063.4	<0.001
2019 vs 2018	972.5	1024.9	0.815	1063.4	1202.3	0.511
2020 vs 2019	1024.9	809.8	0.018	1202.3	1280.3	0.754
2021 vs 2020	809.8	832.3	0.859	1280.4	1356.2	0.754
2022 vs 2021	832.3	843.1	0.883	1356.2	1200.3	0.511
2023 vs 2022	843.1	801.8	0.815	1200.4	1574.4	0.028
2024 vs 2023	801.8	822.5	0.859	1574.4	1510.9	0.761
2025 vs 2024	822.5	1936.7	<0.001	1510.9	2664.1	<0.001
Males						
2016 vs 2015	708.6	1369.3	<0.001	824.6	1539.0	<0.001
2017 vs 2016	1369.3	1957.2	<0.001	1539.0	2389.1	<0.001
2018 vs 2017	1957.2	3059.6	<0.001	2389.1	3903.0	<0.001
2019 vs 2018	3059.6	3219.2	0.509	3903.0	4282.5	0.296
2020 vs 2019	3219.2	3184.4	0.868	4282.5	4490.9	0.589
2021 vs 2020	3184.4	3620.7	0.042	4490.9	5580.2	0.005
2022 vs 2021	3620.7	3106.4	0.016	5580.2	4689.2	0.024
2023 vs 2022	3106.4	3138.3	0.868	4689.2	5211.5	0.204
2024 vs 2023	3138.3	3659.9	0.016	5211.5	5395.8	0.617
2025 vs 2024	3659.9	7955.3	<0.001	5395.8	9945.4	<0.001
Age group						
12–19 yrs						
2016 vs 2015	170.9	180.9	0.914	199.0	466.1	0.106
2017 vs 2016	180.9	256.0	0.821	466.1	465.3	0.866
2018 vs 2017	256.0	486.6	0.040	465.3	993.5	0.033
2019 vs 2018	486.6	413.0	0.821	993.5	867.2	0.788
2020 vs 2019	413.0	385.5	0.914	867.2	948.5	0.791
2021 vs 2020	385.5	391.6	0.914	948.5	568.3	0.106
2022 vs 2021	391.6	335.1	0.821	568.3	987.3	0.091
2023 vs 2022	335.1	298.0	0.897	987.3	883.6	0.788
2024 vs 2023	298.0	352.1	0.821	883.5	672.6	0.490
2025 vs 2024	352.1	921.2	<0.001	672.6	1757.9	<0.001
20–39 yrs						
2016 vs 2015	786.4	1472.6	<0.001	922.7	1669.9	<0.001
2017 vs 2016	1472.6	2220.3	<0.001	1669.9	2441.2	0.003
2018 vs 2017	2220.3	3268.4	<0.001	2441.2	4048.6	<0.001
2019 vs 2018	3268.4	3623.1	0.182	4048.6	4456.3	0.283

2020 vs 2019	3623.1	3385.4	0.355	4456.3	4633.4	0.613
2021 vs 2020	3385.4	3529.9	0.569	4633.4	5500.8	0.034
2022 vs 2021	3529.9	3047.2	0.047	5500.8	4309.7	0.003
2023 vs 2022	3047.2	2970.8	0.708	4309.7	4935.8	0.118
2024 vs 2023	2970.8	3210.0	0.347	4935.8	5201.0	0.540
2025 vs 2024	3210.0	7004.8	<0.001	5201.0	9211.2	<0.001
40–59 yrs						
2016 vs 2015	384.2	863.3	<0.001	183.1	546.7	0.005
2017 vs 2016	863.3	928.4	0.728	546.7	609.0	0.671
2018 vs 2017	928.4	2123.3	<0.001	609.0	1436.2	<0.001
2019 vs 2018	2123.3	2198.6	0.728	1436.2	1588.3	0.617
2020 vs 2019	2198.6	1778.4	0.071	1588.3	2260.7	0.029
2021 vs 2020	1778.4	2310.7	0.029	2260.7	3067.5	0.029
2022 vs 2021	2310.7	2224.0	0.728	3067.5	2659.7	0.337
2023 vs 2022	2224.0	2378.6	0.696	2659.7	3394.8	0.061
2024 vs 2023	2378.6	2924.7	0.040	3394.8	3616.8	0.617
2025 vs 2024	2924.7	6213.6	<0.001	3616.8	6502.7	<0.001
≥60 yrs						
2016 vs 2015	36.2	70.7	0.722	38.6	144.7	0.436
2017 vs 2016	70.7	308.4	0.002	144.7	241.0	0.481
2018 vs 2017	308.4	569.2	0.034	241.0	395.5	0.436
2019 vs 2018	569.2	549.4	0.895	395.5	709.9	0.436
2020 vs 2019	549.4	508.5	0.895	709.9	503.8	0.436
2021 vs 2020	508.5	539.6	0.895	503.8	547.7	0.806
2022 vs 2021	539.6	585.1	0.900	547.7	705.3	0.481
2023 vs 2022	585.1	599.6	0.900	705.3	1013.5	0.436
2024 vs 2023	599.6	496.0	0.722	1013.5	781.4	0.440
2025 vs 2024	496.0	1561.5	<0.001	781.4	1831.2	<0.001

* Single-substance and multiple-substance kratom exposures per million reported single drug and multiple drug exposures, respectively

†Kratom was the only reported substance

§ Kratom and other substances were reported for the same exposure

¶Year-to-year rate changes were assessed using exact two-sample Poisson tests with Benjamini–Hochberg correction for multiple comparisons.