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The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request: cder_mpl1p_wp086

Request ID: cder_mpl1p_wp086

Request Description: In this report we describe annual trends in rates of healthcare encounters involving cannabis-related disorders or poisonings, stratified by the legality status of cannabis in each state, US territory, and the District of Columbia.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 13.0.1

Data Source: We distributed this query to 4 Sentinel Data Partners on March 26, 2024. These Data Partners are a subset of the Sentinel Distributed Database and do not include patients from Medicare or Medicaid coverage. The study period included data from 1/1/2017 through 12/31/2022. Please see Appendix A for a list of the dates of available data for each Data Partner.

Study Design: We identified encounters with evidence of cannabis-related disorders or poisonings in the inpatient, outpatient, emergency department, institutional, and any care settings, among individuals aged 18-64 years old. Individuals may contribute more than one valid encounter to the analysis. Annual trends of cannabis-related disorders or poisonings are described, stratified by legality status and among those 18-25, 26-44, and 45-64 years old. We ascertained four legality categories based on the most recent information on patients' state of residence: adult and medical, medical, illegal, and unknown (please see Appendix D for a list of states by year and legality status). Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown. In a sensitivity analysis, we defined an additional Uncertain category, for encounters in which the most recent postal date available based on patients' residence was observed after the encounter date for cannabis-related disorders or poisonings. We estimated annual rates of cannabis-related disorders or poisoning (calculated using patients or episodes with cannabis disorders per 10,000 eligible member-years) by four legal status groups (adult and medical, medical, illegal, unknown) and legal status*age groups described above. Additionally, we estimated annual trends of cannabis disorders or poisoning (calculated using patients or episodes with cannabis disorders per 10,000 eligible member-years) by five legal status groups (adult and medical, medical, illegal, unknown, uncertain) and legal status groups*age groups. This is a Type 1 Plus analysis in the Query Request Package (QRP) documentation.

Events of Interest: We defined events of interest as any cannabis-related disorder or poisoning evaluated separately in the inpatient, emergency department, outpatient, institutional, and any care setting. The date of the qualifying encounter was defined as the index date. We identified our events of interest using International Classification of diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. Please see Appendix B for the ICD-10-CM codes used to identify cohort-defining events of interest.

Cohort Eligibility Criteria: We required members to be continuously enrolled in health plans with medical coverage in the 183 days prior to their index date (encounter for cannabis-related disorder or poisoning), during which a gap in coverage of up to 45 days was allowed. Encounters occurring in individuals 18-64 years old, male or female sex, were included. Additionally, encounters for cannabis disorders or poisonings in the emergency department care setting were excluded if there was evidence of a cannabis disorder or poisoning in inpatient care setting in the subsequent 3 days. The following age-groups were defined: 18-25, 26-44, and 45-64 years.

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Limitations: Algorithms used to define cannabis related disorders or poisonings and legality status based on patients' most recent residence could be imperfect; thus, it is possible that there may be misclassification.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

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**Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module***

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded.

Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

**Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module***

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
Any Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	904	4,662	927,433	709,251.3	9.75 (9.11, 10.38)	50.27 (48.83, 51.71)	12.75 (11.94, 13.60)
2018	771	5,014	1,079,361	792,796.8	7.14 (6.64, 7.65)	46.45 (45.17, 47.74)	9.73 (9.06, 10.44)
2019	690	2,965	1,227,763	935,863.9	5.62 (5.20, 6.04)	24.15 (23.28, 25.02)	7.37 (6.84, 7.94)
2020	471	2,157	1,333,603	1,066,651.6	3.53 (3.21, 3.85)	16.17 (15.49, 16.86)	4.42 (4.03, 4.83)
2021	423	1,639	1,314,514	1,105,276.5	3.22 (2.91, 3.52)	12.47 (11.87, 13.07)	3.83 (3.48, 4.21)
2022	374	1,236	1,329,554	1,046,870.3	2.81 (2.53, 3.10)	9.30 (8.78, 9.81)	3.57 (3.23, 3.95)
<i>Medical</i>							
2017	66,344	353,309	17,482,534	13,621,611.9	37.95 (37.66, 38.24)	202.09 (201.43, 202.75)	48.70 (48.34, 49.08)
2018	77,312	402,748	18,044,366	14,154,879.3	42.85 (42.54, 43.15)	223.20 (222.52, 223.88)	54.62 (54.23, 55.00)
2019	91,648	445,747	19,793,179	15,309,704.6	46.30 (46.00, 46.60)	225.20 (224.55, 225.86)	59.86 (59.48, 60.25)
2020	87,947	417,764	18,023,925	14,510,040.4	48.79 (48.47, 49.12)	231.78 (231.09, 232.48)	60.61 (60.21, 61.01)
2021	104,786	473,210	18,516,480	14,923,488.0	56.59 (56.25, 56.93)	255.56 (254.84, 256.28)	70.22 (69.79, 70.64)
2022	76,387	284,169	12,082,088	9,430,719.3	63.22 (62.78, 63.67)	235.20 (234.34, 236.05)	81.00 (80.43, 81.57)
<i>Illegal</i>							
2017	57,604	260,217	18,598,350	14,602,635.4	30.97 (30.72, 31.23)	139.91 (139.38, 140.45)	39.45 (39.13, 39.77)
2018	60,926	270,496	17,548,721	13,895,770.2	34.72 (34.44, 34.99)	154.14 (153.56, 154.72)	43.84 (43.50, 44.19)
2019	60,570	259,303	15,585,517	12,385,801.5	38.86 (38.55, 39.17)	166.37 (165.74, 167.01)	48.90 (48.51, 49.29)
2020	66,721	300,927	15,249,882	12,165,617.3	43.75 (43.42, 44.08)	197.33 (196.63, 198.03)	54.84 (54.43, 55.26)
2021	68,228	342,655	12,664,656	10,075,562.5	53.87 (53.47, 54.28)	270.56 (269.67, 271.45)	67.72 (67.21, 68.23)
2022	72,095	372,920	12,632,579	9,798,931.9	57.07 (56.66, 57.49)	295.20 (294.27, 296.14)	73.57 (73.04, 74.11)
<i>Adult and Medical</i>							
2017	30,356	145,470	8,129,218	6,356,871.4	37.34 (36.92, 37.76)	178.95 (178.04, 179.86)	47.75 (47.22, 48.29)
2018	32,909	149,825	7,809,692	6,166,868.0	42.14 (41.68, 42.59)	191.84 (190.88, 192.81)	53.36 (52.79, 53.94)

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2019	39,813	170,749	8,461,832	6,675,285.8	47.05 (46.59, 47.51)	201.79 (200.84, 202.73)	59.64 (59.06, 60.23)
2020	48,366	211,426	9,761,687	7,783,039.0	49.55 (49.11, 49.99)	216.59 (215.67, 217.50)	62.14 (61.59, 62.70)
2021	61,191	253,239	10,679,518	8,469,903.7	57.30 (56.84, 57.75)	237.13 (236.21, 238.04)	72.25 (71.68, 72.82)
2022	108,073	489,177	18,016,295	14,121,098.3	59.99 (59.63, 60.34)	271.52 (270.77, 272.27)	76.53 (76.08, 76.99)
Emergency Department Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	214	240	927,433	709,251.3	2.31 (2.00, 2.62)	2.59 (2.26, 2.92)	3.02 (2.64, 3.45)
2018	180	214	1,079,361	792,796.8	1.67 (1.42, 1.91)	1.98 (1.72, 2.25)	2.27 (1.96, 2.63)
2019	177	221	1,227,763	935,863.9	1.44 (1.23, 1.65)	1.80 (1.56, 2.04)	1.89 (1.63, 2.19)
2020	116	159	1,333,603	1,066,651.6	0.87 (0.71, 1.03)	1.19 (1.01, 1.38)	1.09 (0.91, 1.30)
2021	103	150	1,314,514	1,105,276.5	0.78 (0.63, 0.93)	1.14 (0.96, 1.32)	0.93 (0.77, 1.13)
2022	93	109	1,329,554	1,046,870.3	0.70 (0.56, 0.84)	0.82 (0.67, 0.97)	0.89 (0.72, 1.09)
<i>Medical</i>							
2017	16,363	20,999	17,482,534	13,621,611.9	9.36 (9.22, 9.50)	12.01 (11.85, 12.17)	12.01 (11.83, 12.20)
2018	18,472	23,771	18,044,366	14,154,879.3	10.24 (10.09, 10.38)	13.17 (13.01, 13.34)	13.05 (12.86, 13.24)
2019	20,737	27,284	19,793,179	15,309,704.6	10.48 (10.33, 10.62)	13.78 (13.62, 13.95)	13.55 (13.36, 13.73)
2020	19,576	26,807	18,023,925	14,510,040.4	10.86 (10.71, 11.01)	14.87 (14.70, 15.05)	13.49 (13.30, 13.68)
2021	22,504	30,988	18,516,480	14,923,488.0	12.15 (11.99, 12.31)	16.74 (16.55, 16.92)	15.08 (14.88, 15.28)
2022	17,898	25,229	12,082,088	9,430,719.3	14.81 (14.60, 15.03)	20.88 (20.62, 21.14)	18.98 (18.70, 19.26)
<i>Illegal</i>							
2017	13,608	16,813	18,598,350	14,602,635.4	7.32 (7.19, 7.44)	9.04 (8.90, 9.18)	9.32 (9.16, 9.48)
2018	14,673	18,502	17,548,721	13,895,770.2	8.36 (8.23, 8.50)	10.54 (10.39, 10.70)	10.56 (10.39, 10.73)
2019	14,086	18,491	15,585,517	12,385,801.5	9.04 (8.89, 9.19)	11.86 (11.69, 12.04)	11.37 (11.19, 11.56)
2020	14,615	19,448	15,249,882	12,165,617.3	9.58 (9.43, 9.74)	12.75 (12.57, 12.93)	12.01 (11.82, 12.21)
2021	14,408	19,722	12,664,656	10,075,562.5	11.38 (11.19, 11.56)	15.57 (15.36, 15.79)	14.30 (14.07, 14.54)

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2022	16,019	22,180	12,632,579	9,798,931.9	12.68 (12.48, 12.88)	17.56 (17.33, 17.79)	16.35 (16.10, 16.60)
<i>Adult and Medical</i>							
2017	7,792	9,366	8,129,218	6,356,871.4	9.59 (9.37, 9.80)	11.52 (11.29, 11.75)	12.26 (11.99, 12.53)
2018	7,942	9,540	7,809,692	6,166,868.0	10.17 (9.95, 10.39)	12.22 (11.97, 12.46)	12.88 (12.60, 13.16)
2019	9,155	11,126	8,461,832	6,675,285.8	10.82 (10.60, 11.04)	13.15 (12.90, 13.39)	13.71 (13.44, 14.00)
2020	10,369	13,128	9,761,687	7,783,039.0	10.62 (10.42, 10.83)	13.45 (13.22, 13.68)	13.32 (13.07, 13.58)
2021	11,788	15,647	10,679,518	8,469,903.7	11.04 (10.84, 11.24)	14.65 (14.42, 14.88)	13.92 (13.67, 14.17)
2022	23,552	30,819	18,016,295	14,121,098.3	13.07 (12.91, 13.24)	17.11 (16.92, 17.30)	16.68 (16.47, 16.89)
Inpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	277	333	927,433	709,251.3	2.99 (2.64, 3.34)	3.59 (3.20, 3.98)	3.91 (3.47, 4.39)
2018	220	283	1,079,361	792,796.8	2.04 (1.77, 2.31)	2.62 (2.32, 2.93)	2.77 (2.43, 3.17)
2019	169	195	1,227,763	935,863.9	1.38 (1.17, 1.58)	1.59 (1.37, 1.81)	1.81 (1.55, 2.10)
2020	102	127	1,333,603	1,066,651.6	0.76 (0.62, 0.91)	0.95 (0.79, 1.12)	0.96 (0.79, 1.16)
2021	79	87	1,314,514	1,105,276.5	0.60 (0.47, 0.73)	0.66 (0.52, 0.80)	0.71 (0.57, 0.89)
2022	48	57	1,329,554	1,046,870.3	0.36 (0.26, 0.46)	0.43 (0.32, 0.54)	0.46 (0.35, 0.61)
<i>Medical</i>							
2017	14,356	17,302	17,482,534	13,621,611.9	8.21 (8.08, 8.35)	9.90 (9.75, 10.04)	10.54 (10.37, 10.71)
2018	15,555	18,583	18,044,366	14,154,879.3	8.62 (8.49, 8.76)	10.30 (10.15, 10.45)	10.99 (10.82, 11.16)
2019	18,365	22,280	19,793,179	15,309,704.6	9.28 (9.14, 9.41)	11.26 (11.11, 11.40)	12.00 (11.82, 12.17)
2020	18,231	22,538	18,023,925	14,510,040.4	10.11 (9.97, 10.26)	12.50 (12.34, 12.67)	12.56 (12.38, 12.75)
2021	20,836	25,443	18,516,480	14,923,488.0	11.25 (11.10, 11.41)	13.74 (13.57, 13.91)	13.96 (13.77, 14.15)
2022	13,423	16,211	12,082,088	9,430,719.3	11.11 (10.92, 11.30)	13.42 (13.21, 13.62)	14.23 (13.99, 14.48)
<i>Illegal</i>							
2017	14,419	17,207	18,598,350	14,602,635.4	7.75 (7.63, 7.88)	9.25 (9.11, 9.39)	9.87 (9.71, 10.04)

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2018	14,407	17,206	17,548,721	13,895,770.2	8.21 (8.08, 8.34)	9.80 (9.66, 9.95)	10.37 (10.20, 10.54)
2019	13,999	17,080	15,585,517	12,385,801.5	8.98 (8.83, 9.13)	10.96 (10.79, 11.12)	11.30 (11.12, 11.49)
2020	14,914	18,439	15,249,882	12,165,617.3	9.78 (9.62, 9.94)	12.09 (11.92, 12.27)	12.26 (12.06, 12.46)
2021	14,287	17,688	12,664,656	10,075,562.5	11.28 (11.10, 11.47)	13.97 (13.76, 14.17)	14.18 (13.95, 14.41)
2022	13,028	16,152	12,632,579	9,798,931.9	10.31 (10.14, 10.49)	12.79 (12.59, 12.98)	13.30 (13.07, 13.53)
<i>Adult and Medical</i>							
2017	7,213	8,512	8,129,218	6,356,871.4	8.87 (8.67, 9.08)	10.47 (10.25, 10.69)	11.35 (11.09, 11.61)
2018	6,995	8,356	7,809,692	6,166,868.0	8.96 (8.75, 9.17)	10.70 (10.47, 10.93)	11.34 (11.08, 11.61)
2019	7,907	9,476	8,461,832	6,675,285.8	9.34 (9.14, 9.55)	11.20 (10.97, 11.42)	11.85 (11.59, 12.11)
2020	9,400	11,482	9,761,687	7,783,039.0	9.63 (9.43, 9.82)	11.76 (11.55, 11.98)	12.08 (11.84, 12.32)
2021	11,099	13,461	10,679,518	8,469,903.7	10.39 (10.20, 10.59)	12.60 (12.39, 12.82)	13.10 (12.86, 13.35)
2022	16,292	19,415	18,016,295	14,121,098.3	9.04 (8.90, 9.18)	10.78 (10.62, 10.93)	11.54 (11.36, 11.72)
Outpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	659	4,226	927,433	709,251.3	7.11 (6.56, 7.65)	45.57 (44.20, 46.94)	9.29 (8.61, 10.03)
2018	576	4,617	1,079,361	792,796.8	5.34 (4.90, 5.77)	42.78 (41.54, 44.01)	7.27 (6.70, 7.88)
2019	481	2,626	1,227,763	935,863.9	3.92 (3.57, 4.27)	21.39 (20.57, 22.21)	5.14 (4.70, 5.62)
2020	338	1,920	1,333,603	1,066,651.6	2.53 (2.26, 2.80)	14.40 (13.75, 15.04)	3.17 (2.85, 3.53)
2021	294	1,421	1,314,514	1,105,276.5	2.24 (1.98, 2.49)	10.81 (10.25, 11.37)	2.66 (2.37, 2.98)
2022	267	1,059	1,329,554	1,046,870.3	2.01 (1.77, 2.25)	7.97 (7.49, 8.44)	2.55 (2.26, 2.88)
<i>Medical</i>							
2017	46,200	316,335	17,482,534	13,621,611.9	26.43 (26.19, 26.67)	180.94 (180.32, 181.57)	33.92 (33.61, 34.23)
2018	55,089	361,859	18,044,366	14,154,879.3	30.53 (30.28, 30.78)	200.54 (199.89, 201.19)	38.92 (38.60, 39.25)
2019	66,182	397,212	19,793,179	15,309,704.6	33.44 (33.18, 33.69)	200.68 (200.06, 201.30)	43.23 (42.90, 43.56)
2020	63,187	369,821	18,023,925	14,510,040.4	35.06 (34.78, 35.33)	205.18 (204.53, 205.84)	43.55 (43.21, 43.89)

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2021	77,206	419,602	18,516,480	14,923,488.0	41.70 (41.40, 41.99)	226.61 (225.93, 227.29)	51.73 (51.37, 52.10)
2022	56,262	245,325	12,082,088	9,430,719.3	46.57 (46.18, 46.95)	203.05 (202.25, 203.84)	59.66 (59.17, 60.15)
<i>Illegal</i>							
2017	39,881	228,276	18,598,350	14,602,635.4	21.44 (21.23, 21.65)	122.74 (122.24, 123.24)	27.31 (27.04, 27.58)
2018	42,767	237,109	17,548,721	13,895,770.2	24.37 (24.14, 24.60)	135.11 (134.57, 135.65)	30.78 (30.49, 31.07)
2019	43,030	226,204	15,585,517	12,385,801.5	27.61 (27.35, 27.87)	145.14 (144.54, 145.73)	34.74 (34.41, 35.07)
2020	48,359	265,163	15,249,882	12,165,617.3	31.71 (31.43, 31.99)	173.88 (173.22, 174.53)	39.75 (39.40, 40.11)
2021	50,187	306,759	12,664,656	10,075,562.5	39.63 (39.28, 39.97)	242.22 (241.37, 243.06)	49.81 (49.38, 50.25)
2022	54,233	336,942	12,632,579	9,798,931.9	42.93 (42.57, 43.29)	266.72 (265.84, 267.61)	55.35 (54.88, 55.81)
<i>Adult and Medical</i>							
2017	21,416	130,014	8,129,218	6,356,871.4	26.34 (25.99, 26.70)	159.93 (159.07, 160.80)	33.69 (33.24, 34.14)
2018	24,063	134,216	7,809,692	6,166,868.0	30.81 (30.42, 31.20)	171.86 (170.95, 172.77)	39.02 (38.53, 39.52)
2019	29,791	152,928	8,461,832	6,675,285.8	35.21 (34.81, 35.61)	180.73 (179.83, 181.62)	44.63 (44.12, 45.14)
2020	36,922	189,702	9,761,687	7,783,039.0	37.82 (37.44, 38.21)	194.33 (193.47, 195.20)	47.44 (46.96, 47.93)
2021	47,221	226,476	10,679,518	8,469,903.7	44.22 (43.82, 44.61)	212.07 (211.20, 212.93)	55.75 (55.25, 56.26)
2022	84,593	444,854	18,016,295	14,121,098.3	46.95 (46.64, 47.27)	246.92 (246.20, 247.63)	59.91 (59.50, 60.31)
Institutional Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	13	15	927,433	709,251.3	0.14 (0.06, 0.22)	0.16 (0.08, 0.24)	0.18 (0.11, 0.32)
2018	15	18	1,079,361	792,796.8	0.14 (0.07, 0.21)	0.17 (0.09, 0.24)	0.19 (0.11, 0.31)
2019	20	27	1,227,763	935,863.9	0.16 (0.09, 0.23)	0.22 (0.14, 0.30)	0.21 (0.14, 0.33)
2020	23	26	1,333,603	1,066,651.6	0.17 (0.10, 0.24)	0.19 (0.12, 0.27)	0.22 (0.14, 0.32)
2021	24	26	1,314,514	1,105,276.5	0.18 (0.11, 0.26)	0.20 (0.12, 0.27)	0.22 (0.15, 0.32)
2022	32	40	1,329,554	1,046,870.3	0.24 (0.16, 0.32)	0.30 (0.21, 0.39)	0.31 (0.22, 0.43)
<i>Medical</i>							

Table 1. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2017	4,053	5,034	17,482,534	13,621,611.9	2.32 (2.25, 2.39)	2.88 (2.80, 2.96)	2.98 (2.89, 3.07)
2018	4,656	5,836	18,044,366	14,154,879.3	2.58 (2.51, 2.65)	3.23 (3.15, 3.32)	3.29 (3.20, 3.39)
2019	5,683	7,340	19,793,179	15,309,704.6	2.87 (2.80, 2.95)	3.71 (3.62, 3.79)	3.71 (3.62, 3.81)
2020	5,429	6,996	18,023,925	14,510,040.4	3.01 (2.93, 3.09)	3.88 (3.79, 3.97)	3.74 (3.64, 3.84)
2021	5,900	7,613	18,516,480	14,923,488.0	3.19 (3.11, 3.27)	4.11 (4.02, 4.20)	3.95 (3.85, 4.06)
2022	3,955	5,065	12,082,088	9,430,719.3	3.27 (3.17, 3.38)	4.19 (4.08, 4.31)	4.19 (4.07, 4.33)
<i>Illegal</i>							
2017	3,383	4,107	18,598,350	14,602,635.4	1.82 (1.76, 1.88)	2.21 (2.14, 2.28)	2.32 (2.24, 2.40)
2018	3,527	4,362	17,548,721	13,895,770.2	2.01 (1.94, 2.08)	2.49 (2.41, 2.56)	2.54 (2.46, 2.62)
2019	3,228	4,026	15,585,517	12,385,801.5	2.07 (2.00, 2.14)	2.58 (2.50, 2.66)	2.61 (2.52, 2.70)
2020	3,873	4,886	15,249,882	12,165,617.3	2.54 (2.46, 2.62)	3.20 (3.11, 3.29)	3.18 (3.08, 3.29)
2021	3,980	5,054	12,664,656	10,075,562.5	3.14 (3.04, 3.24)	3.99 (3.88, 4.10)	3.95 (3.83, 4.07)
2022	3,775	4,912	12,632,579	9,798,931.9	2.99 (2.89, 3.08)	3.89 (3.78, 4.00)	3.85 (3.73, 3.98)
<i>Adult and Medical</i>							
2017	1,360	1,670	8,129,218	6,356,871.4	1.67 (1.58, 1.76)	2.05 (1.96, 2.15)	2.14 (2.03, 2.26)
2018	1,323	1,754	7,809,692	6,166,868.0	1.69 (1.60, 1.79)	2.25 (2.14, 2.35)	2.15 (2.03, 2.26)
2019	1,588	2,069	8,461,832	6,675,285.8	1.88 (1.78, 1.97)	2.45 (2.34, 2.55)	2.38 (2.26, 2.50)
2020	2,112	2,779	9,761,687	7,783,039.0	2.16 (2.07, 2.26)	2.85 (2.74, 2.95)	2.71 (2.60, 2.83)
2021	2,863	3,625	10,679,518	8,469,903.7	2.68 (2.58, 2.78)	3.39 (3.28, 3.50)	3.38 (3.26, 3.51)
2022	4,599	5,793	18,016,295	14,121,098.3	2.55 (2.48, 2.63)	3.22 (3.13, 3.30)	3.26 (3.16, 3.35)

¹Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

*Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown.

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
Any Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	32,157	219,955	3,205,934	2,282,796.9	100.30 (99.21, 101.40)	686.09 (683.32, 688.85)	140.87 (139.34, 142.41)
26-44 years	20,172	87,354	7,051,773	5,123,916.0	28.61 (28.21, 29.00)	123.88 (123.06, 124.69)	39.37 (38.83, 39.92)
45-64 years	14,386	46,000	7,812,327	6,214,898.9	18.41 (18.11, 18.72)	58.88 (58.34, 59.42)	23.15 (22.77, 23.53)
<i>Unknown, 2017</i>							
18-25 years	604	3,574	241,229	155,979.5	25.04 (23.04, 27.03)	148.16 (143.34, 152.98)	38.72 (35.75, 41.94)
26-44 years	201	772	445,108	328,431.6	4.52 (3.89, 5.14)	17.34 (16.12, 18.57)	6.12 (5.33, 7.03)
45-64 years	108	316	279,826	224,840.2	3.86 (3.13, 4.59)	11.29 (10.05, 12.54)	4.80 (3.98, 5.80)
<i>Adult and Medical, 2017</i>							
18-25 years	13,027	84,819	1,559,265	1,110,937.5	83.55 (82.12, 84.97)	543.97 (540.41, 547.53)	117.26 (115.26, 119.29)
26-44 years	10,345	41,613	3,490,292	2,540,167.0	29.64 (29.07, 30.21)	119.22 (118.09, 120.36)	40.73 (39.95, 41.52)
45-64 years	7,116	19,038	3,364,295	2,705,766.8	21.15 (20.66, 21.64)	56.59 (55.79, 57.39)	26.30 (25.70, 26.92)
<i>Illegal, 2017</i>							
18-25 years	27,560	160,896	3,349,767	2,392,007.3	82.27 (81.31, 83.24)	480.32 (478.03, 482.61)	115.22 (113.86, 116.59)
26-44 years	18,045	64,838	7,645,679	5,596,327.2	23.60 (23.26, 23.95)	84.80 (84.15, 85.45)	32.24 (31.78, 32.72)
45-64 years	12,270	34,483	8,233,721	6,614,300.9	14.90 (14.64, 15.17)	41.88 (41.44, 42.32)	18.55 (18.23, 18.88)
<i>Unknown, 2018</i>							
18-25 years	476	3,636	250,799	157,379.7	18.98 (17.28, 20.68)	144.98 (140.30, 149.65)	30.25 (27.65, 33.09)
26-44 years	193	970	506,429	367,917.5	3.81 (3.27, 4.35)	19.15 (17.95, 20.36)	5.25 (4.56, 6.04)
45-64 years	115	408	364,069	267,499.6	3.16 (2.58, 3.74)	11.21 (10.12, 12.29)	4.30 (3.58, 5.16)
<i>Adult and Medical, 2018</i>							
18-25 years	13,513	82,874	1,520,745	1,092,813.8	88.86 (87.37, 90.35)	544.96 (541.35, 548.56)	123.65 (121.59, 125.76)
26-44 years	11,573	45,113	3,405,792	2,495,606.3	33.98 (33.36, 34.60)	132.46 (131.25, 133.67)	46.37 (45.54, 47.23)
45-64 years	7,961	21,838	3,159,669	2,578,447.9	25.20 (24.64, 25.75)	69.11 (68.20, 70.03)	30.88 (30.20, 31.56)

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<i>Medical, 2018</i>							
18-25 years	34,780	235,895	3,321,830	2,383,686.7	104.70 (103.61, 105.80)	710.14 (707.37, 712.90)	145.91 (144.38, 147.45)
26-44 years	24,825	109,851	7,319,331	5,339,818.5	33.92 (33.50, 34.34)	150.08 (149.20, 150.96)	46.49 (45.92, 47.07)
45-64 years	18,157	57,002	8,003,931	6,431,374.1	22.69 (22.36, 23.01)	71.22 (70.63, 71.80)	28.23 (27.82, 28.65)
<i>Illegal, 2018</i>							
18-25 years	27,595	160,525	3,181,300	2,289,187.7	86.74 (85.72, 87.76)	504.59 (502.18, 506.99)	120.54 (119.13, 121.98)
26-44 years	19,733	71,459	7,258,019	5,346,445.8	27.19 (26.81, 27.57)	98.46 (97.74, 99.17)	36.91 (36.40, 37.43)
45-64 years	13,856	38,512	7,703,258	6,260,136.7	17.99 (17.69, 18.29)	49.99 (49.50, 50.49)	22.13 (21.77, 22.51)
<i>Adult and Medical, 2019</i>							
18-25 years	15,431	88,420	1,631,206	1,172,536.4	94.60 (93.11, 96.08)	542.05 (538.58, 545.53)	131.60 (129.54, 133.70)
26-44 years	14,627	55,924	3,692,763	2,706,736.9	39.61 (38.97, 40.25)	151.44 (150.20, 152.69)	54.04 (53.17, 54.92)
45-64 years	9,921	26,405	3,435,683	2,796,012.5	28.88 (28.31, 29.44)	76.86 (75.93, 77.78)	35.48 (34.79, 36.19)
<i>Illegal, 2019</i>							
18-25 years	25,373	139,385	2,800,659	2,031,879.9	90.60 (89.49, 91.71)	497.69 (495.14, 500.23)	124.87 (123.35, 126.42)
26-44 years	20,415	75,708	6,431,894	4,757,235.5	31.74 (31.31, 32.17)	117.71 (116.87, 118.54)	42.91 (42.33, 43.51)
45-64 years	15,103	44,210	6,881,061	5,596,686.1	21.95 (21.60, 22.30)	64.25 (63.65, 64.85)	26.99 (26.56, 27.42)
<i>Unknown, 2019</i>							
18-25 years	395	1,854	278,056	173,873.7	14.21 (12.81, 15.61)	66.68 (63.65, 69.70)	22.72 (20.58, 25.07)
26-44 years	201	842	574,646	429,912.6	3.50 (3.01, 3.98)	14.65 (13.66, 15.64)	4.68 (4.07, 5.37)
45-64 years	102	269	421,751	332,077.5	2.42 (1.95, 2.89)	6.38 (5.62, 7.14)	3.07 (2.53, 3.73)
<i>Medical, 2019</i>							
18-25 years	37,791	238,378	3,666,828	2,608,739.0	103.06 (102.03, 104.10)	650.09 (647.57, 652.62)	144.86 (143.41, 146.33)
26-44 years	31,081	133,995	8,057,266	5,819,311.7	38.58 (38.15, 39.00)	166.30 (165.42, 167.19)	53.41 (52.82, 54.01)
45-64 years	23,281	73,374	8,717,828	6,881,653.9	26.71 (26.36, 27.05)	84.17 (83.56, 84.77)	33.83 (33.40, 34.27)
<i>Illegal, 2020</i>							
18-25 years	25,832	138,999	2,726,742	1,996,511.7	94.74 (93.59, 95.89)	509.76 (507.15, 512.37)	129.39 (127.82, 130.97)

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26-44 years	24,009	105,782	6,275,331	4,681,223.0	38.26 (37.78, 38.74)	168.57 (167.56, 169.58)	51.29 (50.64, 51.94)
45-64 years	17,241	56,146	6,761,109	5,487,882.6	25.50 (25.12, 25.88)	83.04 (82.36, 83.73)	31.42 (30.95, 31.89)
<i>Adult and Medical, 2020</i>							
18-25 years	18,214	102,717	1,849,272	1,342,298.1	98.49 (97.07, 99.92)	555.45 (552.14, 558.75)	135.69 (133.74, 137.68)
26-44 years	18,356	73,703	4,260,118	3,175,431.9	43.09 (42.47, 43.71)	173.01 (171.77, 174.25)	57.81 (56.98, 58.65)
45-64 years	12,042	35,006	3,994,448	3,265,309.0	30.15 (29.61, 30.68)	87.64 (86.72, 88.55)	36.88 (36.23, 37.54)
<i>Medical, 2020</i>							
18-25 years	34,043	204,391	3,312,185	2,439,709.4	102.78 (101.69, 103.87)	617.09 (614.50, 619.68)	139.54 (138.06, 141.03)
26-44 years	30,801	136,420	7,330,376	5,520,643.7	42.02 (41.55, 42.49)	186.10 (185.12, 187.08)	55.79 (55.17, 56.42)
45-64 years	23,644	76,953	7,990,853	6,549,687.3	29.59 (29.21, 29.97)	96.30 (95.62, 96.98)	36.10 (35.64, 36.56)
<i>Unknown, 2020</i>							
18-25 years	279	1,359	301,275	205,620.5	9.26 (8.17, 10.35)	45.11 (42.72, 47.50)	13.57 (12.07, 15.26)
26-44 years	136	634	620,646	482,623.8	2.19 (1.82, 2.56)	10.22 (9.42, 11.01)	2.82 (2.38, 3.33)
45-64 years	56	164	462,833	378,407.3	1.21 (0.89, 1.53)	3.54 (3.00, 4.09)	1.48 (1.14, 1.92)
<i>Unknown, 2021</i>							
18-25 years	238	1,137	294,790	210,714.1	8.07 (7.05, 9.10)	38.57 (36.33, 40.81)	11.29 (9.95, 12.83)
26-44 years	121	349	607,082	499,065.3	1.99 (1.64, 2.35)	5.75 (5.15, 6.35)	2.42 (2.03, 2.90)
45-64 years	70	153	466,080	395,497.1	1.50 (1.15, 1.85)	3.28 (2.76, 3.80)	1.77 (1.40, 2.24)
<i>Adult and Medical, 2021</i>							
18-25 years	21,779	116,077	1,980,125	1,428,079.9	109.99 (108.54, 111.44)	586.21 (582.94, 589.48)	152.51 (150.49, 154.54)
26-44 years	23,578	91,875	4,681,881	3,459,259.0	50.36 (49.72, 51.00)	196.24 (194.98, 197.49)	68.16 (67.29, 69.03)
45-64 years	16,153	45,287	4,387,687	3,582,564.9	36.81 (36.25, 37.38)	103.21 (102.27, 104.16)	45.09 (44.40, 45.79)
<i>Medical, 2021</i>							
18-25 years	37,613	210,600	3,278,400	2,427,524.5	114.73 (113.58, 115.88)	642.39 (639.73, 645.04)	154.94 (153.39, 156.52)
26-44 years	37,712	162,743	7,547,654	5,656,349.3	49.97 (49.46, 50.47)	215.62 (214.58, 216.66)	66.67 (66.00, 67.35)
45-64 years	30,042	99,867	8,310,431	6,839,614.2	36.15 (35.74, 36.56)	120.17 (119.43, 120.91)	43.92 (43.43, 44.42)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Illegal, 2021</i>							
18-25 years	23,711	124,563	2,278,085	1,664,850.4	104.08 (102.77, 105.40)	546.79 (543.84, 549.74)	142.42 (140.62, 144.25)
26-44 years	26,532	149,046	5,230,422	3,875,940.8	50.73 (50.12, 51.34)	284.96 (283.53, 286.39)	68.45 (67.63, 69.28)
45-64 years	18,392	69,046	5,582,868	4,534,771.3	32.94 (32.47, 33.42)	123.67 (122.76, 124.59)	40.56 (39.98, 41.15)
<i>Illegal, 2022</i>							
18-25 years	23,693	123,036	2,278,524	1,630,459.8	103.98 (102.67, 105.30)	539.98 (537.05, 542.92)	145.31 (143.48, 147.18)
26-44 years	28,229	167,345	5,276,587	3,778,572.0	53.50 (52.88, 54.12)	317.15 (315.65, 318.64)	74.71 (73.84, 75.58)
45-64 years	20,613	82,539	5,502,557	4,389,900.1	37.46 (36.95, 37.97)	150.00 (148.99, 151.02)	46.96 (46.32, 47.60)
<i>Adult and Medical, 2022</i>							
18-25 years	37,276	209,267	3,293,873	2,373,090.0	113.17 (112.03, 114.31)	635.32 (632.69, 637.96)	157.08 (155.49, 158.68)
26-44 years	42,321	185,909	7,852,693	5,679,877.7	53.89 (53.38, 54.41)	236.75 (235.68, 237.81)	74.51 (73.80, 75.22)
45-64 years	29,110	94,001	7,487,901	6,068,130.7	38.88 (38.43, 39.32)	125.54 (124.74, 126.33)	47.97 (47.42, 48.53)
<i>Medical, 2022</i>							
18-25 years	23,467	112,782	2,116,103	1,528,303.5	110.90 (109.49, 112.31)	532.97 (529.94, 536.00)	153.55 (151.60, 155.53)
26-44 years	27,727	100,496	4,885,097	3,520,022.2	56.76 (56.09, 57.42)	205.72 (204.46, 206.98)	78.77 (77.85, 79.70)
45-64 years	25,586	70,891	5,476,055	4,382,393.6	46.72 (46.15, 47.29)	129.46 (128.51, 130.40)	58.38 (57.67, 59.10)
<i>Unknown, 2022</i>							
18-25 years	177	626	311,502	205,581.4	5.68 (4.85, 6.52)	20.10 (18.52, 21.67)	8.61 (7.43, 9.98)
26-44 years	129	407	598,996	462,118.2	2.15 (1.78, 2.53)	6.79 (6.13, 7.45)	2.79 (2.35, 3.32)
45-64 years	74	203	469,029	379,170.7	1.58 (1.22, 1.94)	4.33 (3.73, 4.92)	1.95 (1.55, 2.45)
Emergency Department Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	7,987	9,999	3,205,934	2,282,796.9	24.91 (24.37, 25.46)	31.19 (30.58, 31.80)	34.99 (34.23, 35.76)
26-44 years	5,098	6,446	7,051,773	5,123,916.0	7.23 (7.03, 7.43)	9.14 (8.92, 9.36)	9.95 (9.68, 10.23)
45-64 years	3,288	4,554	7,812,327	6,214,898.9	4.21 (4.06, 4.35)	5.83 (5.66, 6.00)	5.29 (5.11, 5.47)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Unknown, 2017</i>							
18-25 years	138	154	241,229	155,979.5	5.72 (4.77, 6.67)	6.38 (5.38, 7.39)	8.85 (7.49, 10.45)
26-44 years	53	58	445,108	328,431.6	1.19 (0.87, 1.51)	1.30 (0.97, 1.64)	1.61 (1.23, 2.11)
45-64 years	23	28	279,826	224,840.2	0.82 (0.49, 1.16)	1.00 (0.63, 1.37)	1.02 (0.68, 1.54)
<i>Adult and Medical, 2017</i>							
18-25 years	3,450	4,063	1,559,265	1,110,937.5	22.13 (21.39, 22.86)	26.06 (25.26, 26.86)	31.05 (30.04, 32.11)
26-44 years	2,655	3,166	3,490,292	2,540,167.0	7.61 (7.32, 7.90)	9.07 (8.76, 9.39)	10.45 (10.06, 10.86)
45-64 years	1,691	2,137	3,364,295	2,705,766.8	5.03 (4.79, 5.27)	6.35 (6.08, 6.62)	6.25 (5.96, 6.55)
<i>Illegal, 2017</i>							
18-25 years	6,345	7,664	3,349,767	2,392,007.3	18.94 (18.48, 19.41)	22.88 (22.37, 23.39)	26.53 (25.88, 27.19)
26-44 years	4,471	5,430	7,645,679	5,596,327.2	5.85 (5.68, 6.02)	7.10 (6.91, 7.29)	7.99 (7.76, 8.23)
45-64 years	2,802	3,719	8,233,721	6,614,300.9	3.40 (3.28, 3.53)	4.52 (4.37, 4.66)	4.24 (4.08, 4.40)
<i>Unknown, 2018</i>							
18-25 years	100	122	250,799	157,379.7	3.99 (3.21, 4.77)	4.86 (4.00, 5.73)	6.35 (5.22, 7.73)
26-44 years	53	62	506,429	367,917.5	1.05 (0.76, 1.33)	1.22 (0.92, 1.53)	1.44 (1.10, 1.89)
45-64 years	27	30	364,069	267,499.6	0.74 (0.46, 1.02)	0.82 (0.53, 1.12)	1.01 (0.69, 1.47)
<i>Adult and Medical, 2018</i>							
18-25 years	3,400	4,057	1,520,745	1,092,813.8	22.36 (21.61, 23.11)	26.68 (25.86, 27.50)	31.11 (30.08, 32.18)
26-44 years	2,800	3,335	3,405,792	2,495,606.3	8.22 (7.92, 8.53)	9.79 (9.46, 10.12)	11.22 (10.81, 11.64)
45-64 years	1,746	2,148	3,159,669	2,578,447.9	5.53 (5.27, 5.79)	6.80 (6.51, 7.09)	6.77 (6.46, 7.10)
<i>Medical, 2018</i>							
18-25 years	8,587	10,758	3,321,830	2,383,686.7	25.85 (25.30, 26.40)	32.39 (31.77, 33.00)	36.02 (35.27, 36.79)
26-44 years	5,924	7,495	7,319,331	5,339,818.5	8.09 (7.89, 8.30)	10.24 (10.01, 10.47)	11.09 (10.82, 11.38)
45-64 years	3,973	5,518	8,003,931	6,431,374.1	4.96 (4.81, 5.12)	6.89 (6.71, 7.08)	6.18 (5.99, 6.37)
<i>Illegal, 2018</i>							
18-25 years	6,558	7,938	3,181,300	2,289,187.7	20.61 (20.12, 21.11)	24.95 (24.40, 25.50)	28.65 (27.96, 29.35)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	5,065	6,304	7,258,019	5,346,445.8	6.98 (6.79, 7.17)	8.69 (8.47, 8.90)	9.47 (9.22, 9.74)
45-64 years	3,058	4,260	7,703,258	6,260,136.7	3.97 (3.83, 4.11)	5.53 (5.36, 5.70)	4.88 (4.71, 5.06)
<i>Adult and Medical, 2019</i>							
18-25 years	3,810	4,513	1,631,206	1,172,536.4	23.36 (22.62, 24.10)	27.67 (26.86, 28.47)	32.49 (31.48, 33.54)
26-44 years	3,246	3,883	3,692,763	2,706,736.9	8.79 (8.49, 9.09)	10.52 (10.18, 10.85)	11.99 (11.59, 12.41)
45-64 years	2,106	2,730	3,435,683	2,796,012.5	6.13 (5.87, 6.39)	7.95 (7.65, 8.24)	7.53 (7.22, 7.86)
<i>Illegal, 2019</i>							
18-25 years	5,942	7,250	2,800,659	2,031,879.9	21.22 (20.68, 21.76)	25.89 (25.29, 26.48)	29.24 (28.51, 30.00)
26-44 years	4,765	6,089	6,431,894	4,757,235.5	7.41 (7.20, 7.62)	9.47 (9.23, 9.70)	10.02 (9.74, 10.30)
45-64 years	3,398	5,152	6,881,061	5,596,686.1	4.94 (4.77, 5.10)	7.49 (7.28, 7.69)	6.07 (5.87, 6.28)
<i>Unknown, 2019</i>							
18-25 years	110	138	278,056	173,873.7	3.96 (3.22, 4.70)	4.96 (4.14, 5.79)	6.33 (5.25, 7.63)
26-44 years	46	59	574,646	429,912.6	0.80 (0.57, 1.03)	1.03 (0.76, 1.29)	1.07 (0.80, 1.43)
45-64 years	21	24	421,751	332,077.5	0.50 (0.28, 0.71)	0.57 (0.34, 0.80)	0.63 (0.41, 0.97)
<i>Medical, 2019</i>							
18-25 years	8,935	11,275	3,666,828	2,608,739.0	24.37 (23.86, 24.87)	30.75 (30.18, 31.32)	34.25 (33.55, 34.97)
26-44 years	6,897	8,701	8,057,266	5,819,311.7	8.56 (8.36, 8.76)	10.80 (10.57, 11.03)	11.85 (11.58, 12.13)
45-64 years	4,922	7,308	8,717,828	6,881,653.9	5.65 (5.49, 5.80)	8.38 (8.19, 8.57)	7.15 (6.96, 7.35)
<i>Illegal, 2020</i>							
18-25 years	6,006	7,401	2,726,742	1,996,511.7	22.03 (21.47, 22.58)	27.14 (26.52, 27.76)	30.08 (29.33, 30.85)
26-44 years	5,145	6,720	6,275,331	4,681,223.0	8.20 (7.97, 8.42)	10.71 (10.45, 10.96)	10.99 (10.69, 11.30)
45-64 years	3,477	5,327	6,761,109	5,487,882.6	5.14 (4.97, 5.31)	7.88 (7.67, 8.09)	6.34 (6.13, 6.55)
<i>Adult and Medical, 2020</i>							
18-25 years	4,113	5,051	1,849,272	1,342,298.1	22.24 (21.56, 22.92)	27.31 (26.56, 28.07)	30.64 (29.72, 31.59)
26-44 years	3,880	4,841	4,260,118	3,175,431.9	9.11 (8.82, 9.39)	11.36 (11.04, 11.68)	12.22 (11.84, 12.61)
45-64 years	2,381	3,236	3,994,448	3,265,309.0	5.96 (5.72, 6.20)	8.10 (7.82, 8.38)	7.29 (7.00, 7.59)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Medical, 2020</i>							
18-25 years	8,083	10,499	3,312,185	2,439,709.4	24.40 (23.87, 24.94)	31.70 (31.09, 32.30)	33.13 (32.42, 33.86)
26-44 years	6,702	8,819	7,330,376	5,520,643.7	9.14 (8.92, 9.36)	12.03 (11.78, 12.28)	12.14 (11.85, 12.43)
45-64 years	4,807	7,489	7,990,853	6,549,687.3	6.02 (5.85, 6.19)	9.37 (9.16, 9.58)	7.34 (7.13, 7.55)
<i>Unknown, 2020</i>							
18-25 years	76	102	301,275	205,620.5	2.52 (1.96, 3.09)	3.39 (2.73, 4.04)	3.70 (2.95, 4.63)
26-44 years	*****	*****	*****	*****	0.53 (0.35, 0.71)	0.81 (0.58, 1.03)	0.68 (0.49, 0.96)
45-64 years	*****	*****	*****	*****	0.15 (0.04, 0.26)	0.15 (0.04, 0.26)	0.18 (0.09, 0.39)
<i>Unknown, 2021</i>							
18-25 years	59	79	294,790	210,714.1	2.00 (1.49, 2.51)	2.68 (2.09, 3.27)	2.80 (2.17, 3.61)
26-44 years	27	50	607,082	499,065.3	0.44 (0.28, 0.61)	0.82 (0.60, 1.05)	0.54 (0.37, 0.79)
45-64 years	17	21	466,080	395,497.1	0.36 (0.19, 0.54)	0.45 (0.26, 0.64)	0.43 (0.27, 0.69)
<i>Adult and Medical, 2021</i>							
18-25 years	4,524	5,671	1,980,125	1,428,079.9	22.85 (22.18, 23.51)	28.64 (27.90, 29.38)	31.68 (30.77, 32.62)
26-44 years	4,332	5,630	4,681,881	3,459,259.0	9.25 (8.98, 9.53)	12.03 (11.71, 12.34)	12.52 (12.16, 12.90)
45-64 years	2,943	4,346	4,387,687	3,582,564.9	6.71 (6.47, 6.95)	9.90 (9.61, 10.20)	8.21 (7.92, 8.52)
<i>Medical, 2021</i>							
18-25 years	8,604	11,133	3,278,400	2,427,524.5	26.24 (25.69, 26.80)	33.96 (33.33, 34.59)	35.44 (34.70, 36.20)
26-44 years	7,930	10,518	7,547,654	5,656,349.3	10.51 (10.28, 10.74)	13.94 (13.67, 14.20)	14.02 (13.71, 14.33)
45-64 years	5,991	9,337	8,310,431	6,839,614.2	7.21 (7.03, 7.39)	11.24 (11.01, 11.46)	8.76 (8.54, 8.98)
<i>Illegal, 2021</i>							
18-25 years	5,244	6,601	2,278,085	1,664,850.4	23.02 (22.40, 23.64)	28.98 (28.28, 29.67)	31.50 (30.66, 32.36)
26-44 years	5,366	7,079	5,230,422	3,875,940.8	10.26 (9.98, 10.53)	13.53 (13.22, 13.85)	13.84 (13.48, 14.22)
45-64 years	3,810	6,042	5,582,868	4,534,771.3	6.82 (6.61, 7.04)	10.82 (10.55, 11.10)	8.40 (8.14, 8.67)
<i>Illegal, 2022</i>							
18-25 years	5,484	6,814	2,278,524	1,630,459.8	24.07 (23.43, 24.70)	29.91 (29.20, 30.61)	33.63 (32.76, 34.54)

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26-44 years	5,883	7,970	5,276,587	3,778,572.0	11.15 (10.86, 11.43)	15.10 (14.77, 15.44)	15.57 (15.18, 15.97)
45-64 years	4,668	7,396	5,502,557	4,389,900.1	8.48 (8.24, 8.73)	13.44 (13.13, 13.75)	10.63 (10.33, 10.94)
<i>Adult and Medical, 2022</i>							
18-25 years	8,711	11,052	3,293,873	2,373,090.0	26.45 (25.89, 27.00)	33.55 (32.93, 34.18)	36.71 (35.94, 37.49)
26-44 years	8,668	11,013	7,852,693	5,679,877.7	11.04 (10.81, 11.27)	14.02 (13.76, 14.29)	15.26 (14.94, 15.59)
45-64 years	6,188	8,754	7,487,901	6,068,130.7	8.26 (8.06, 8.47)	11.69 (11.45, 11.94)	10.20 (9.95, 10.45)
<i>Medical, 2022</i>							
18-25 years	5,630	7,225	2,116,103	1,528,303.5	26.61 (25.91, 27.30)	34.14 (33.36, 34.93)	36.84 (35.89, 37.81)
26-44 years	6,508	8,814	4,885,097	3,520,022.2	13.32 (13.00, 13.65)	18.04 (17.67, 18.42)	18.49 (18.04, 18.94)
45-64 years	5,774	9,190	5,476,055	4,382,393.6	10.54 (10.27, 10.82)	16.78 (16.44, 17.12)	13.18 (12.84, 13.52)
<i>Unknown, 2022</i>							
18-25 years	42	52	311,502	205,581.4	1.35 (0.94, 1.76)	1.67 (1.22, 2.12)	2.04 (1.51, 2.76)
26-44 years	37	39	598,996	462,118.2	0.62 (0.42, 0.82)	0.65 (0.45, 0.86)	0.80 (0.58, 1.11)
45-64 years	14	18	469,029	379,170.7	0.30 (0.14, 0.45)	0.38 (0.21, 0.56)	0.37 (0.22, 0.62)
Inpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	6,710	8,460	3,205,934	2,282,796.9	20.93 (20.43, 21.43)	26.39 (25.83, 26.95)	29.39 (28.70, 30.11)
26-44 years	4,189	4,880	7,051,773	5,123,916.0	5.94 (5.76, 6.12)	6.92 (6.73, 7.11)	8.18 (7.93, 8.43)
45-64 years	3,482	3,962	7,812,327	6,214,898.9	4.46 (4.31, 4.61)	5.07 (4.91, 5.23)	5.60 (5.42, 5.79)
<i>Unknown, 2017</i>							
18-25 years	178	223	241,229	155,979.5	7.38 (6.30, 8.46)	9.24 (8.03, 10.46)	11.41 (9.85, 13.22)
26-44 years	62	71	445,108	328,431.6	1.39 (1.05, 1.74)	1.60 (1.22, 1.97)	1.89 (1.47, 2.42)
45-64 years	37	39	279,826	224,840.2	1.32 (0.90, 1.75)	1.39 (0.96, 1.83)	1.65 (1.19, 2.27)
<i>Adult and Medical, 2017</i>							
18-25 years	3,080	3,776	1,559,265	1,110,937.5	19.75 (19.06, 20.45)	24.22 (23.45, 24.99)	27.72 (26.76, 28.72)

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	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	2,293	2,710	3,490,292	2,540,167.0	6.57 (6.30, 6.84)	7.76 (7.47, 8.06)	9.03 (8.66, 9.40)
45-64 years	1,851	2,026	3,364,295	2,705,766.8	5.50 (5.25, 5.75)	6.02 (5.76, 6.28)	6.84 (6.54, 7.16)
<i>Illegal, 2017</i>							
18-25 years	7,118	8,813	3,349,767	2,392,007.3	21.25 (20.76, 21.74)	26.31 (25.76, 26.86)	29.76 (29.07, 30.46)
26-44 years	4,223	4,894	7,645,679	5,596,327.2	5.52 (5.36, 5.69)	6.40 (6.22, 6.58)	7.55 (7.32, 7.78)
45-64 years	3,095	3,500	8,233,721	6,614,300.9	3.76 (3.63, 3.89)	4.25 (4.11, 4.39)	4.68 (4.52, 4.85)
<i>Unknown, 2018</i>							
18-25 years	134	178	250,799	157,379.7	5.34 (4.44, 6.25)	7.10 (6.06, 8.14)	8.51 (7.19, 10.09)
26-44 years	53	67	506,429	367,917.5	1.05 (0.76, 1.33)	1.32 (1.01, 1.64)	1.44 (1.10, 1.89)
45-64 years	33	38	364,069	267,499.6	0.91 (0.60, 1.22)	1.04 (0.71, 1.38)	1.23 (0.88, 1.74)
<i>Adult and Medical, 2018</i>							
18-25 years	2,884	3,660	1,520,745	1,092,813.8	18.96 (18.27, 19.66)	24.07 (23.29, 24.85)	26.39 (25.44, 27.37)
26-44 years	2,277	2,652	3,405,792	2,495,606.3	6.69 (6.41, 6.96)	7.79 (7.49, 8.08)	9.12 (8.76, 9.51)
45-64 years	1,842	2,044	3,159,669	2,578,447.9	5.83 (5.56, 6.10)	6.47 (6.19, 6.75)	7.14 (6.82, 7.48)
<i>Medical, 2018</i>							
18-25 years	6,697	8,286	3,321,830	2,383,686.7	20.16 (19.68, 20.64)	24.94 (24.41, 25.48)	28.10 (27.43, 28.78)
26-44 years	4,767	5,559	7,319,331	5,339,818.5	6.51 (6.33, 6.70)	7.59 (7.40, 7.79)	8.93 (8.68, 9.18)
45-64 years	4,110	4,738	8,003,931	6,431,374.1	5.13 (4.98, 5.29)	5.92 (5.75, 6.09)	6.39 (6.20, 6.59)
<i>Illegal, 2018</i>							
18-25 years	6,736	8,421	3,181,300	2,289,187.7	21.17 (20.67, 21.68)	26.47 (25.91, 27.03)	29.43 (28.73, 30.14)
26-44 years	4,290	4,861	7,258,019	5,346,445.8	5.91 (5.73, 6.09)	6.70 (6.51, 6.89)	8.02 (7.79, 8.27)
45-64 years	3,391	3,924	7,703,258	6,260,136.7	4.40 (4.25, 4.55)	5.09 (4.93, 5.25)	5.42 (5.24, 5.60)
<i>Adult and Medical, 2019</i>							
18-25 years	2,996	3,789	1,631,206	1,172,536.4	18.37 (17.71, 19.02)	23.23 (22.49, 23.97)	25.55 (24.65, 26.48)
26-44 years	2,694	3,131	3,692,763	2,706,736.9	7.30 (7.02, 7.57)	8.48 (8.18, 8.78)	9.95 (9.58, 10.34)
45-64 years	2,226	2,556	3,435,683	2,796,012.5	6.48 (6.21, 6.75)	7.44 (7.15, 7.73)	7.96 (7.64, 8.30)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Illegal, 2019</i>							
18-25 years	5,959	7,568	2,800,659	2,031,879.9	21.28 (20.74, 21.82)	27.02 (26.41, 27.63)	29.33 (28.59, 30.08)
26-44 years	4,286	5,080	6,431,894	4,757,235.5	6.66 (6.46, 6.86)	7.90 (7.68, 8.12)	9.01 (8.74, 9.28)
45-64 years	3,775	4,432	6,881,061	5,596,686.1	5.49 (5.31, 5.66)	6.44 (6.25, 6.63)	6.75 (6.53, 6.96)
<i>Unknown, 2019</i>							
18-25 years	91	105	278,056	173,873.7	3.27 (2.60, 3.95)	3.78 (3.05, 4.50)	5.23 (4.26, 6.43)
26-44 years	46	53	574,646	429,912.6	0.80 (0.57, 1.03)	0.92 (0.67, 1.17)	1.07 (0.80, 1.43)
45-64 years	33	37	421,751	332,077.5	0.78 (0.52, 1.05)	0.88 (0.59, 1.16)	0.99 (0.71, 1.40)
<i>Medical, 2019</i>							
18-25 years	7,188	9,194	3,666,828	2,608,739.0	19.60 (19.15, 20.06)	25.07 (24.56, 25.59)	27.55 (26.92, 28.20)
26-44 years	5,831	6,870	8,057,266	5,819,311.7	7.24 (7.05, 7.42)	8.53 (8.32, 8.73)	10.02 (9.77, 10.28)
45-64 years	5,367	6,216	8,717,828	6,881,653.9	6.16 (5.99, 6.32)	7.13 (6.95, 7.31)	7.80 (7.59, 8.01)
<i>Illegal, 2020</i>							
18-25 years	6,097	7,843	2,726,742	1,996,511.7	22.36 (21.80, 22.92)	28.76 (28.13, 29.40)	30.54 (29.78, 31.31)
26-44 years	4,725	5,699	6,275,331	4,681,223.0	7.53 (7.31, 7.74)	9.08 (8.85, 9.32)	10.09 (9.81, 10.39)
45-64 years	4,106	4,897	6,761,109	5,487,882.6	6.07 (5.89, 6.26)	7.24 (7.04, 7.45)	7.48 (7.26, 7.71)
<i>Adult and Medical, 2020</i>							
18-25 years	3,616	4,681	1,849,272	1,342,298.1	19.55 (18.92, 20.19)	25.31 (24.59, 26.04)	26.94 (26.07, 27.83)
26-44 years	3,267	3,916	4,260,118	3,175,431.9	7.67 (7.41, 7.93)	9.19 (8.90, 9.48)	10.29 (9.94, 10.65)
45-64 years	2,533	2,885	3,994,448	3,265,309.0	6.34 (6.09, 6.59)	7.22 (6.96, 7.49)	7.76 (7.46, 8.07)
<i>Medical, 2020</i>							
18-25 years	6,926	9,042	3,312,185	2,439,709.4	20.91 (20.42, 21.40)	27.30 (26.74, 27.86)	28.39 (27.73, 29.07)
26-44 years	5,976	7,198	7,330,376	5,520,643.7	8.15 (7.95, 8.36)	9.82 (9.59, 10.05)	10.82 (10.55, 11.10)
45-64 years	5,352	6,298	7,990,853	6,549,687.3	6.70 (6.52, 6.88)	7.88 (7.69, 8.08)	8.17 (7.96, 8.39)
<i>Unknown, 2020</i>							
18-25 years	54	72	301,275	205,620.5	1.79 (1.31, 2.27)	2.39 (1.84, 2.94)	2.63 (2.01, 3.43)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	32	36	620,646	482,623.8	0.52 (0.34, 0.69)	0.58 (0.39, 0.77)	0.66 (0.47, 0.94)
45-64 years	16	19	462,833	378,407.3	0.35 (0.18, 0.52)	0.41 (0.23, 0.60)	0.42 (0.26, 0.69)
<i>Unknown, 2021</i>							
18-25 years	45	51	294,790	210,714.1	1.53 (1.08, 1.97)	1.73 (1.26, 2.20)	2.14 (1.59, 2.86)
26-44 years	16	18	607,082	499,065.3	0.26 (0.13, 0.39)	0.30 (0.16, 0.43)	0.32 (0.20, 0.52)
45-64 years	18	18	466,080	395,497.1	0.39 (0.21, 0.56)	0.39 (0.21, 0.56)	0.46 (0.29, 0.72)
<i>Adult and Medical, 2021</i>							
18-25 years	3,951	5,017	1,980,125	1,428,079.9	19.95 (19.33, 20.57)	25.34 (24.64, 26.04)	27.67 (26.82, 28.54)
26-44 years	3,922	4,626	4,681,881	3,459,259.0	8.38 (8.11, 8.64)	9.88 (9.60, 10.17)	11.34 (10.99, 11.70)
45-64 years	3,239	3,818	4,387,687	3,582,564.9	7.38 (7.13, 7.64)	8.70 (8.43, 8.98)	9.04 (8.73, 9.36)
<i>Medical, 2021</i>							
18-25 years	7,336	9,346	3,278,400	2,427,524.5	22.38 (21.87, 22.89)	28.51 (27.93, 29.08)	30.22 (29.54, 30.92)
26-44 years	6,910	8,267	7,547,654	5,656,349.3	9.16 (8.94, 9.37)	10.95 (10.72, 11.19)	12.22 (11.93, 12.51)
45-64 years	6,608	7,830	8,310,431	6,839,614.2	7.95 (7.76, 8.14)	9.42 (9.21, 9.63)	9.66 (9.43, 9.90)
<i>Illegal, 2021</i>							
18-25 years	5,430	6,954	2,278,085	1,664,850.4	23.84 (23.20, 24.47)	30.53 (29.81, 31.24)	32.62 (31.76, 33.49)
26-44 years	4,715	5,732	5,230,422	3,875,940.8	9.01 (8.76, 9.27)	10.96 (10.68, 11.24)	12.16 (11.82, 12.52)
45-64 years	4,160	5,002	5,582,868	4,534,771.3	7.45 (7.23, 7.68)	8.96 (8.71, 9.21)	9.17 (8.90, 9.46)
<i>Illegal, 2022</i>							
18-25 years	4,829	6,164	2,278,524	1,630,459.8	21.19 (20.60, 21.79)	27.05 (26.38, 27.73)	29.62 (28.79, 30.46)
26-44 years	4,308	5,228	5,276,587	3,778,572.0	8.16 (7.92, 8.41)	9.91 (9.64, 10.18)	11.40 (11.07, 11.75)
45-64 years	3,913	4,760	5,502,557	4,389,900.1	7.11 (6.89, 7.33)	8.65 (8.40, 8.90)	8.91 (8.64, 9.20)
<i>Adult and Medical, 2022</i>							
18-25 years	5,868	7,264	3,293,873	2,373,090.0	17.81 (17.36, 18.27)	22.05 (21.55, 22.56)	24.73 (24.10, 25.37)
26-44 years	5,743	6,745	7,852,693	5,679,877.7	7.31 (7.12, 7.50)	8.59 (8.38, 8.79)	10.11 (9.85, 10.38)
45-64 years	4,700	5,406	7,487,901	6,068,130.7	6.28 (6.10, 6.46)	7.22 (7.03, 7.41)	7.75 (7.53, 7.97)

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	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Medical, 2022</i>							
18-25 years	4,278	5,328	2,116,103	1,528,303.5	20.22 (19.61, 20.82)	25.18 (24.50, 25.85)	27.99 (27.17, 28.84)
26-44 years	4,574	5,442	4,885,097	3,520,022.2	9.36 (9.09, 9.63)	11.14 (10.84, 11.44)	12.99 (12.62, 13.38)
45-64 years	4,584	5,441	5,476,055	4,382,393.6	8.37 (8.13, 8.61)	9.94 (9.67, 10.20)	10.46 (10.16, 10.77)
<i>Unknown, 2022</i>							
18-25 years	21	26	311,502	205,581.4	0.67 (0.39, 0.96)	0.83 (0.51, 1.16)	1.02 (0.67, 1.57)
26-44 years	*****	*****	*****	*****	0.28 (0.15, 0.42)	0.32 (0.17, 0.46)	0.37 (0.23, 0.59)
45-64 years	*****	*****	*****	*****	0.21 (0.08, 0.35)	0.26 (0.11, 0.40)	0.26 (0.14, 0.49)
Outpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	23,392	201,747	3,205,934	2,282,796.9	72.96 (72.03, 73.90)	629.29 (626.63, 631.95)	102.47 (101.17, 103.79)
26-44 years	13,747	76,762	7,051,773	5,123,916.0	19.49 (19.17, 19.82)	108.85 (108.09, 109.62)	26.83 (26.38, 27.28)
45-64 years	9,372	37,826	7,812,327	6,214,898.9	12.00 (11.75, 12.24)	48.42 (47.93, 48.91)	15.08 (14.78, 15.39)
<i>Unknown, 2017</i>							
18-25 years	469	3,294	241,229	155,979.5	19.44 (17.68, 21.20)	136.55 (131.92, 141.18)	30.07 (27.47, 32.92)
26-44 years	136	674	445,108	328,431.6	3.06 (2.54, 3.57)	15.14 (14.00, 16.28)	4.14 (3.50, 4.90)
45-64 years	63	258	279,826	224,840.2	2.25 (1.70, 2.81)	9.22 (8.10, 10.34)	2.80 (2.19, 3.59)
<i>Adult and Medical, 2017</i>							
18-25 years	9,495	77,926	1,559,265	1,110,937.5	60.89 (59.67, 62.12)	499.76 (496.34, 503.18)	85.47 (83.77, 87.20)
26-44 years	7,274	36,603	3,490,292	2,540,167.0	20.84 (20.36, 21.32)	104.87 (103.80, 105.94)	28.64 (27.99, 29.30)
45-64 years	4,763	15,485	3,364,295	2,705,766.8	14.16 (13.76, 14.56)	46.03 (45.30, 46.75)	17.60 (17.11, 18.11)
<i>Illegal, 2017</i>							
18-25 years	19,772	145,141	3,349,767	2,392,007.3	59.03 (58.20, 59.85)	433.29 (431.11, 435.47)	82.66 (81.51, 83.82)
26-44 years	12,363	55,530	7,645,679	5,596,327.2	16.17 (15.89, 16.45)	72.63 (72.03, 73.23)	22.09 (21.71, 22.48)
45-64 years	7,975	27,605	8,233,721	6,614,300.9	9.69 (9.47, 9.90)	33.53 (33.13, 33.92)	12.06 (11.80, 12.32)

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<i>Unknown, 2018</i>							
18-25 years	373	3,399	250,799	157,379.7	14.87 (13.36, 16.38)	135.53 (131.00, 140.05)	23.70 (21.41, 26.23)
26-44 years	133	862	506,429	367,917.5	2.63 (2.18, 3.07)	17.02 (15.89, 18.16)	3.61 (3.05, 4.28)
45-64 years	82	356	364,069	267,499.6	2.25 (1.76, 2.74)	9.78 (8.76, 10.79)	3.07 (2.47, 3.81)
<i>Adult and Medical, 2018</i>							
18-25 years	10,141	75,912	1,520,745	1,092,813.8	66.68 (65.39, 67.98)	499.18 (495.72, 502.64)	92.80 (91.01, 94.62)
26-44 years	8,447	40,040	3,405,792	2,495,606.3	24.80 (24.27, 25.33)	117.56 (116.42, 118.71)	33.85 (33.13, 34.58)
45-64 years	5,591	18,264	3,159,669	2,578,447.9	17.69 (17.23, 18.16)	57.80 (56.97, 58.64)	21.68 (21.12, 22.26)
<i>Medical, 2018</i>							
18-25 years	25,757	217,084	3,321,830	2,383,686.7	77.54 (76.60, 78.48)	653.51 (650.85, 656.17)	108.06 (106.74, 109.38)
26-44 years	17,537	97,582	7,319,331	5,339,818.5	23.96 (23.61, 24.31)	133.32 (132.49, 134.15)	32.84 (32.36, 33.33)
45-64 years	12,196	47,193	8,003,931	6,431,374.1	15.24 (14.97, 15.51)	58.96 (58.43, 59.49)	18.96 (18.63, 19.30)
<i>Illegal, 2018</i>							
18-25 years	20,050	145,070	3,181,300	2,289,187.7	63.02 (62.15, 63.89)	456.01 (453.72, 458.30)	87.59 (86.38, 88.81)
26-44 years	13,690	61,341	7,258,019	5,346,445.8	18.86 (18.55, 19.18)	84.51 (83.85, 85.18)	25.61 (25.18, 26.04)
45-64 years	9,250	30,698	7,703,258	6,260,136.7	12.01 (11.76, 12.25)	39.85 (39.41, 40.30)	14.78 (14.48, 15.08)
<i>Adult and Medical, 2019</i>							
18-25 years	11,920	81,226	1,631,206	1,172,536.4	73.07 (71.77, 74.38)	497.95 (494.61, 501.29)	101.66 (99.85, 103.50)
26-44 years	10,984	49,860	3,692,763	2,706,736.9	29.74 (29.19, 30.30)	135.02 (133.84, 136.20)	40.58 (39.83, 41.35)
45-64 years	7,025	21,842	3,435,683	2,796,012.5	20.45 (19.97, 20.92)	63.57 (62.73, 64.41)	25.13 (24.54, 25.72)
<i>Illegal, 2019</i>							
18-25 years	18,612	125,580	2,800,659	2,031,879.9	66.46 (65.50, 67.41)	448.39 (445.97, 450.82)	91.60 (90.29, 92.93)
26-44 years	14,732	65,619	6,431,894	4,757,235.5	22.90 (22.54, 23.27)	102.02 (101.24, 102.80)	30.97 (30.47, 31.47)
45-64 years	9,963	35,005	6,881,061	5,596,686.1	14.48 (14.19, 14.76)	50.87 (50.34, 51.40)	17.80 (17.46, 18.15)
<i>Unknown, 2019</i>							
18-25 years	285	1,661	278,056	173,873.7	10.25 (9.06, 11.44)	59.74 (56.87, 62.60)	16.39 (14.59, 18.41)

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26-44 years	140	747	574,646	429,912.6	2.44 (2.03, 2.84)	13.00 (12.07, 13.93)	3.26 (2.76, 3.84)
45-64 years	61	218	421,751	332,077.5	1.45 (1.08, 1.81)	5.17 (4.48, 5.85)	1.84 (1.43, 2.36)
<i>Medical, 2019</i>							
18-25 years	28,286	217,939	3,666,828	2,608,739.0	77.14 (76.24, 78.04)	594.35 (591.93, 596.77)	108.43 (107.17, 109.70)
26-44 years	22,568	119,040	8,057,266	5,819,311.7	28.01 (27.64, 28.37)	147.74 (146.91, 148.58)	38.78 (38.28, 39.29)
45-64 years	15,758	60,233	8,717,828	6,881,653.9	18.08 (17.79, 18.36)	69.09 (68.54, 69.64)	22.90 (22.54, 23.26)
<i>Illegal, 2020</i>							
18-25 years	19,017	124,887	2,726,742	1,996,511.7	69.74 (68.75, 70.73)	458.01 (455.53, 460.49)	95.25 (93.91, 96.61)
26-44 years	17,830	94,175	6,275,331	4,681,223.0	28.41 (28.00, 28.83)	150.07 (149.12, 151.02)	38.09 (37.53, 38.65)
45-64 years	11,830	46,101	6,761,109	5,487,882.6	17.50 (17.18, 17.81)	68.19 (67.57, 68.81)	21.56 (21.17, 21.95)
<i>Adult and Medical, 2020</i>							
18-25 years	14,185	93,991	1,849,272	1,342,298.1	76.71 (75.45, 77.96)	508.26 (505.09, 511.43)	105.68 (103.95, 107.43)
26-44 years	14,113	66,125	4,260,118	3,175,431.9	33.13 (32.58, 33.67)	155.22 (154.04, 156.39)	44.44 (43.72, 45.18)
45-64 years	8,836	29,586	3,994,448	3,265,309.0	22.12 (21.66, 22.58)	74.07 (73.23, 74.91)	27.06 (26.50, 27.63)
<i>Medical, 2020</i>							
18-25 years	25,279	185,301	3,312,185	2,439,709.4	76.32 (75.38, 77.26)	559.45 (556.98, 561.93)	103.61 (102.35, 104.90)
26-44 years	22,269	121,076	7,330,376	5,520,643.7	30.38 (29.98, 30.78)	165.17 (164.25, 166.09)	40.34 (39.81, 40.87)
45-64 years	16,111	63,444	7,990,853	6,549,687.3	20.16 (19.85, 20.47)	79.40 (78.78, 80.01)	24.60 (24.22, 24.98)
<i>Unknown, 2020</i>							
18-25 years	205	1,208	301,275	205,620.5	6.80 (5.87, 7.74)	40.10 (37.84, 42.35)	9.97 (8.69, 11.43)
26-44 years	94	573	620,646	482,623.8	1.51 (1.21, 1.82)	9.23 (8.48, 9.99)	1.95 (1.59, 2.38)
45-64 years	39	139	462,833	378,407.3	0.84 (0.58, 1.11)	3.00 (2.50, 3.50)	1.03 (0.75, 1.41)
<i>Unknown, 2021</i>							
18-25 years	166	1,010	294,790	210,714.1	5.63 (4.77, 6.49)	34.26 (32.15, 36.37)	7.88 (6.77, 9.17)
26-44 years	90	293	607,082	499,065.3	1.48 (1.18, 1.79)	4.83 (4.27, 5.38)	1.80 (1.47, 2.22)
45-64 years	44	118	466,080	395,497.1	0.94 (0.67, 1.22)	2.53 (2.08, 2.99)	1.11 (0.83, 1.49)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Adult and Medical, 2021</i>							
18-25 years	17,174	106,331	1,980,125	1,428,079.9	86.73 (85.44, 88.02)	536.99 (533.85, 540.13)	120.26 (118.47, 122.07)
26-44 years	18,375	82,570	4,681,881	3,459,259.0	39.25 (38.68, 39.81)	176.36 (175.17, 177.55)	53.12 (52.36, 53.89)
45-64 years	11,953	37,575	4,387,687	3,582,564.9	27.24 (26.75, 27.73)	85.64 (84.78, 86.50)	33.36 (32.77, 33.97)
<i>Medical, 2021</i>							
18-25 years	28,483	191,249	3,278,400	2,427,524.5	86.88 (85.88, 87.89)	583.36 (580.82, 585.90)	117.33 (115.98, 118.70)
26-44 years	28,105	144,993	7,547,654	5,656,349.3	37.24 (36.80, 37.67)	192.10 (191.12, 193.08)	49.69 (49.11, 50.27)
45-64 years	21,135	83,360	8,310,431	6,839,614.2	25.43 (25.09, 25.77)	100.31 (99.63, 100.99)	30.90 (30.49, 31.32)
<i>Illegal, 2021</i>							
18-25 years	17,677	111,966	2,278,085	1,664,850.4	77.60 (76.46, 78.74)	491.49 (488.68, 494.30)	106.18 (104.62, 107.75)
26-44 years	20,143	136,663	5,230,422	3,875,940.8	38.51 (37.98, 39.04)	261.28 (259.92, 262.65)	51.97 (51.26, 52.69)
45-64 years	12,713	58,130	5,582,868	4,534,771.3	22.77 (22.38, 23.17)	104.12 (103.28, 104.96)	28.03 (27.55, 28.53)
<i>Illegal, 2022</i>							
18-25 years	17,942	111,244	2,278,524	1,630,459.8	78.74 (77.60, 79.89)	488.23 (485.43, 491.03)	110.04 (108.44, 111.66)
26-44 years	21,961	154,895	5,276,587	3,778,572.0	41.62 (41.07, 42.17)	293.55 (292.11, 294.99)	58.12 (57.36, 58.89)
45-64 years	14,707	70,803	5,502,557	4,389,900.1	26.73 (26.30, 27.16)	128.67 (127.73, 129.61)	33.50 (32.96, 34.05)
<i>Adult and Medical, 2022</i>							
18-25 years	29,651	193,127	3,293,873	2,373,090.0	90.02 (89.00, 91.04)	586.32 (583.78, 588.86)	124.95 (123.53, 126.38)
26-44 years	33,570	170,389	7,852,693	5,679,877.7	42.75 (42.29, 43.21)	216.98 (215.96, 218.00)	59.10 (58.47, 59.74)
45-64 years	21,942	81,338	7,487,901	6,068,130.7	29.30 (28.92, 29.69)	108.63 (107.88, 109.37)	36.16 (35.68, 36.64)
<i>Medical, 2022</i>							
18-25 years	17,736	101,228	2,116,103	1,528,303.5	83.81 (82.59, 85.04)	478.37 (475.49, 481.25)	116.05 (114.35, 117.77)
26-44 years	20,600	87,276	4,885,097	3,520,022.2	42.17 (41.59, 42.74)	178.66 (177.48, 179.83)	58.52 (57.73, 59.33)
45-64 years	18,269	56,821	5,476,055	4,382,393.6	33.36 (32.88, 33.84)	103.76 (102.91, 104.61)	41.69 (41.09, 42.30)
<i>Unknown, 2022</i>							
18-25 years	125	532	311,502	205,581.4	4.01 (3.31, 4.72)	17.08 (15.63, 18.53)	6.08 (5.10, 7.25)

Table 2. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	97	356	598,996	462,118.2	1.62 (1.30, 1.94)	5.94 (5.33, 6.56)	2.10 (1.72, 2.56)
45-64 years	50	171	469,029	379,170.7	1.07 (0.77, 1.36)	3.65 (3.10, 4.19)	1.32 (1.00, 1.74)
Institutional Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	2,328	2,995	3,205,934	2,282,796.9	7.26 (6.97, 7.56)	9.34 (9.01, 9.68)	10.20 (9.79, 10.62)
26-44 years	1,006	1,195	7,051,773	5,123,916.0	1.43 (1.34, 1.51)	1.69 (1.60, 1.79)	1.96 (1.85, 2.09)
45-64 years	727	844	7,812,327	6,214,898.9	0.93 (0.86, 1.00)	1.08 (1.01, 1.15)	1.17 (1.09, 1.26)
<i>Unknown, 2017</i>							
18-25 years	*****	*****	*****	*****	0.33 (0.10, 0.56)	0.41 (0.16, 0.67)	0.51 (0.26, 1.03)
26-44 years	*****	*****	*****	*****	0.07 (-0.01, 0.14)	0.07 (-0.01, 0.14)	0.09 (0.03, 0.28)
45-64 years	*****	*****	*****	*****	0.07 (-0.03, 0.17)	0.07 (-0.03, 0.17)	0.09 (0.02, 0.36)
<i>Adult and Medical, 2017</i>							
18-25 years	729	934	1,559,265	1,110,937.5	4.68 (4.34, 5.01)	5.99 (5.61, 6.37)	6.56 (6.10, 7.06)
26-44 years	419	487	3,490,292	2,540,167.0	1.20 (1.09, 1.32)	1.40 (1.27, 1.52)	1.65 (1.50, 1.82)
45-64 years	215	249	3,364,295	2,705,766.8	0.64 (0.55, 0.72)	0.74 (0.65, 0.83)	0.79 (0.70, 0.91)
<i>Illegal, 2017</i>							
18-25 years	1,802	2,249	3,349,767	2,392,007.3	5.38 (5.13, 5.63)	6.71 (6.44, 6.99)	7.53 (7.19, 7.89)
26-44 years	841	993	7,645,679	5,596,327.2	1.10 (1.03, 1.17)	1.30 (1.22, 1.38)	1.50 (1.40, 1.61)
45-64 years	747	865	8,233,721	6,614,300.9	0.91 (0.84, 0.97)	1.05 (0.98, 1.12)	1.13 (1.05, 1.21)
<i>Unknown, 2018</i>							
18-25 years	*****	*****	*****	*****	0.56 (0.27, 0.85)	0.60 (0.30, 0.90)	0.89 (0.53, 1.50)
26-44 years	*****	*****	*****	*****	0.02 (-0.02, 0.06)	0.06 (-0.01, 0.13)	0.03 (0.00, 0.19)
45-64 years	0	0	364,069	267,499.6	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
<i>Adult and Medical, 2018</i>							
18-25 years	716	1,009	1,520,745	1,092,813.8	4.71 (4.36, 5.05)	6.63 (6.23, 7.04)	6.55 (6.09, 7.05)

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26-44 years	383	482	3,405,792	2,495,606.3	1.12 (1.01, 1.24)	1.42 (1.29, 1.54)	1.53 (1.39, 1.70)
45-64 years	227	263	3,159,669	2,578,447.9	0.72 (0.62, 0.81)	0.83 (0.73, 0.93)	0.88 (0.77, 1.00)
<i>Medical, 2018</i>							
18-25 years	2,531	3,282	3,321,830	2,383,686.7	7.62 (7.32, 7.92)	9.88 (9.54, 10.22)	10.62 (10.21, 11.04)
26-44 years	1,200	1,454	7,319,331	5,339,818.5	1.64 (1.55, 1.73)	1.99 (1.88, 2.09)	2.25 (2.12, 2.38)
45-64 years	935	1,100	8,003,931	6,431,374.1	1.17 (1.09, 1.24)	1.37 (1.29, 1.46)	1.45 (1.36, 1.55)
<i>Illegal, 2018</i>							
18-25 years	1,740	2,227	3,181,300	2,289,187.7	5.47 (5.21, 5.73)	7.00 (6.71, 7.29)	7.60 (7.25, 7.97)
26-44 years	987	1,186	7,258,019	5,346,445.8	1.36 (1.28, 1.44)	1.63 (1.54, 1.73)	1.85 (1.73, 1.96)
45-64 years	802	949	7,703,258	6,260,136.7	1.04 (0.97, 1.11)	1.23 (1.15, 1.31)	1.28 (1.20, 1.37)
<i>Adult and Medical, 2019</i>							
18-25 years	713	1,000	1,631,206	1,172,536.4	4.37 (4.05, 4.69)	6.13 (5.75, 6.51)	6.08 (5.65, 6.54)
26-44 years	541	670	3,692,763	2,706,736.9	1.47 (1.34, 1.59)	1.81 (1.68, 1.95)	2.00 (1.84, 2.17)
45-64 years	337	399	3,435,683	2,796,012.5	0.98 (0.88, 1.09)	1.16 (1.05, 1.28)	1.21 (1.08, 1.34)
<i>Illegal, 2019</i>							
18-25 years	1,453	1,853	2,800,659	2,031,879.9	5.19 (4.92, 5.45)	6.62 (6.32, 6.92)	7.15 (6.79, 7.53)
26-44 years	926	1,150	6,431,894	4,757,235.5	1.44 (1.35, 1.53)	1.79 (1.68, 1.89)	1.95 (1.83, 2.08)
45-64 years	851	1,023	6,881,061	5,596,686.1	1.24 (1.15, 1.32)	1.49 (1.40, 1.58)	1.52 (1.42, 1.63)
<i>Unknown, 2019</i>							
18-25 years	*****	*****	*****	*****	0.54 (0.27, 0.81)	0.76 (0.43, 1.08)	0.86 (0.52, 1.43)
26-44 years	*****	*****	*****	*****	0.05 (-0.01, 0.11)	0.07 (0.00, 0.14)	0.07 (0.02, 0.22)
45-64 years	*****	*****	*****	*****	0.05 (-0.02, 0.11)	0.05 (-0.02, 0.11)	0.06 (0.02, 0.24)
<i>Medical, 2019</i>							
18-25 years	2,783	3,776	3,666,828	2,608,739.0	7.59 (7.31, 7.87)	10.30 (9.97, 10.63)	10.67 (10.28, 11.07)
26-44 years	1,674	2,076	8,057,266	5,819,311.7	2.08 (1.98, 2.18)	2.58 (2.47, 2.69)	2.88 (2.74, 3.02)
45-64 years	1,240	1,488	8,717,828	6,881,653.9	1.42 (1.34, 1.50)	1.71 (1.62, 1.79)	1.80 (1.70, 1.91)

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<i>Illegal, 2020</i>							
18-25 years	1,541	1,992	2,726,742	1,996,511.7	5.65 (5.37, 5.93)	7.31 (6.98, 7.63)	7.72 (7.34, 8.11)
26-44 years	1,318	1,626	6,275,331	4,681,223.0	2.10 (1.99, 2.21)	2.59 (2.47, 2.72)	2.82 (2.67, 2.97)
45-64 years	1,018	1,268	6,761,109	5,487,882.6	1.51 (1.41, 1.60)	1.88 (1.77, 1.98)	1.85 (1.74, 1.97)
<i>Adult and Medical, 2020</i>							
18-25 years	910	1,267	1,849,272	1,342,298.1	4.92 (4.60, 5.24)	6.85 (6.47, 7.23)	6.78 (6.35, 7.23)
26-44 years	715	908	4,260,118	3,175,431.9	1.68 (1.56, 1.80)	2.13 (1.99, 2.27)	2.25 (2.09, 2.42)
45-64 years	491	604	3,994,448	3,265,309.0	1.23 (1.12, 1.34)	1.51 (1.39, 1.63)	1.50 (1.38, 1.64)
<i>Medical, 2020</i>							
18-25 years	2,403	3,251	3,312,185	2,439,709.4	7.26 (6.97, 7.55)	9.82 (9.48, 10.15)	9.85 (9.46, 10.25)
26-44 years	1,693	2,119	7,330,376	5,520,643.7	2.31 (2.20, 2.42)	2.89 (2.77, 3.01)	3.07 (2.92, 3.22)
45-64 years	1,350	1,626	7,990,853	6,549,687.3	1.69 (1.60, 1.78)	2.03 (1.94, 2.13)	2.06 (1.95, 2.17)
<i>Unknown, 2020</i>							
18-25 years	*****	*****	*****	*****	0.60 (0.32, 0.87)	0.70 (0.40, 1.00)	0.88 (0.55, 1.39)
26-44 years	*****	*****	*****	*****	0.05 (-0.01, 0.10)	0.05 (-0.01, 0.10)	0.06 (0.02, 0.19)
45-64 years	*****	*****	*****	*****	0.04 (-0.02, 0.10)	0.04 (-0.02, 0.10)	0.05 (0.01, 0.21)
<i>Unknown, 2021</i>							
18-25 years	*****	*****	*****	*****	0.58 (0.30, 0.85)	0.61 (0.33, 0.89)	0.81 (0.50, 1.30)
26-44 years	*****	*****	*****	*****	0.05 (-0.01, 0.11)	0.05 (-0.01, 0.11)	0.06 (0.02, 0.19)
45-64 years	*****	*****	*****	*****	0.09 (0.00, 0.17)	0.11 (0.01, 0.20)	0.10 (0.04, 0.27)
<i>Adult and Medical, 2021</i>							
18-25 years	1,173	1,527	1,980,125	1,428,079.9	5.92 (5.58, 6.26)	7.71 (7.32, 8.10)	8.21 (7.76, 8.70)
26-44 years	974	1,199	4,681,881	3,459,259.0	2.08 (1.95, 2.21)	2.56 (2.42, 2.71)	2.82 (2.64, 3.00)
45-64 years	725	899	4,387,687	3,582,564.9	1.65 (1.53, 1.77)	2.05 (1.91, 2.18)	2.02 (1.88, 2.18)
<i>Medical, 2021</i>							
18-25 years	2,347	3,084	3,278,400	2,427,524.5	7.16 (6.87, 7.45)	9.41 (9.08, 9.74)	9.67 (9.28, 10.07)

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26-44 years	1,991	2,597	7,547,654	5,656,349.3	2.64 (2.52, 2.75)	3.44 (3.31, 3.57)	3.52 (3.37, 3.68)
45-64 years	1,578	1,932	8,310,431	6,839,614.2	1.90 (1.81, 1.99)	2.32 (2.22, 2.43)	2.31 (2.20, 2.42)
<i>Illegal, 2021</i>							
18-25 years	1,267	1,619	2,278,085	1,664,850.4	5.56 (5.26, 5.87)	7.11 (6.76, 7.45)	7.61 (7.20, 8.04)
26-44 years	1,576	1,990	5,230,422	3,875,940.8	3.01 (2.86, 3.16)	3.80 (3.64, 3.97)	4.07 (3.87, 4.27)
45-64 years	1,146	1,445	5,582,868	4,534,771.3	2.05 (1.93, 2.17)	2.59 (2.45, 2.72)	2.53 (2.38, 2.68)
<i>Illegal, 2022</i>							
18-25 years	1,223	1,571	2,278,524	1,630,459.8	5.37 (5.07, 5.67)	6.89 (6.55, 7.24)	7.50 (7.09, 7.93)
26-44 years	1,421	1,890	5,276,587	3,778,572.0	2.69 (2.55, 2.83)	3.58 (3.42, 3.74)	3.76 (3.57, 3.96)
45-64 years	1,144	1,451	5,502,557	4,389,900.1	2.08 (1.96, 2.20)	2.64 (2.50, 2.77)	2.61 (2.46, 2.76)
<i>Adult and Medical, 2022</i>							
18-25 years	1,908	2,507	3,293,873	2,373,090.0	5.79 (5.53, 6.05)	7.61 (7.31, 7.91)	8.04 (7.69, 8.41)
26-44 years	1,584	1,961	7,852,693	5,679,877.7	2.02 (1.92, 2.12)	2.50 (2.39, 2.61)	2.79 (2.65, 2.93)
45-64 years	1,115	1,325	7,487,901	6,068,130.7	1.49 (1.40, 1.58)	1.77 (1.67, 1.86)	1.84 (1.73, 1.95)
<i>Medical, 2022</i>							
18-25 years	1,242	1,603	2,116,103	1,528,303.5	5.87 (5.54, 6.20)	7.58 (7.20, 7.95)	8.13 (7.69, 8.59)
26-44 years	1,391	1,803	4,885,097	3,520,022.2	2.85 (2.70, 3.00)	3.69 (3.52, 3.86)	3.95 (3.75, 4.16)
45-64 years	1,327	1,659	5,476,055	4,382,393.6	2.42 (2.29, 2.55)	3.03 (2.88, 3.18)	3.03 (2.87, 3.20)
<i>Unknown, 2022</i>							
18-25 years	20	27	311,502	205,581.4	0.64 (0.36, 0.92)	0.87 (0.54, 1.19)	0.97 (0.63, 1.51)
26-44 years	*****	*****	*****	*****	0.12 (0.03, 0.20)	0.13 (0.04, 0.23)	0.15 (0.07, 0.32)
45-64 years	*****	*****	*****	*****	0.11 (0.01, 0.20)	0.11 (0.01, 0.20)	0.13 (0.05, 0.32)

¹Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

*Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
Any Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	849	4,406	830,415	648,739.5	10.22 (9.54, 10.91)	53.06 (51.50, 54.62)	13.09 (12.24, 14.00)
2018	722	4,877	988,154	728,186.3	7.31 (6.77, 7.84)	49.35 (47.97, 50.74)	9.92 (9.22, 10.67)
2019	629	2,762	1,165,223	886,399.3	5.40 (4.98, 5.82)	23.70 (22.82, 24.59)	7.10 (6.56, 7.67)
2020	424	2,012	1,294,038	1,033,262.5	3.28 (2.96, 3.59)	15.55 (14.87, 16.23)	4.10 (3.73, 4.51)
2021	382	1,374	1,297,115	1,078,875.4	2.94 (2.65, 3.24)	10.59 (10.03, 11.15)	3.54 (3.20, 3.91)
2022	343	1,143	1,323,445	1,039,391.8	2.59 (2.32, 2.87)	8.64 (8.14, 9.14)	3.30 (2.97, 3.67)
<i>Illegal</i>							
2017	45,567	206,547	15,251,671	11,723,086.7	29.88 (29.60, 30.15)	135.43 (134.85, 136.01)	38.87 (38.51, 39.23)
2018	49,247	219,498	14,719,200	11,417,903.8	33.46 (33.16, 33.75)	149.12 (148.50, 149.74)	43.13 (42.75, 43.51)
2019	51,097	217,461	13,569,592	10,562,438.2	37.66 (37.33, 37.98)	160.26 (159.59, 160.92)	48.38 (47.96, 48.80)
2020	59,081	268,395	13,778,645	10,768,901.4	42.88 (42.53, 43.22)	194.79 (194.06, 195.52)	54.86 (54.42, 55.31)
2021	62,741	318,604	11,841,206	9,236,392.3	52.99 (52.57, 53.40)	269.06 (268.14, 269.99)	67.93 (67.40, 68.46)
2022	69,202	360,482	12,337,593	9,389,297.3	56.09 (55.67, 56.51)	292.18 (291.24, 293.12)	73.70 (73.16, 74.25)
<i>Medical</i>							
2017	52,916	284,205	14,320,406	10,885,522.3	36.95 (36.64, 37.27)	198.46 (197.74, 199.18)	48.61 (48.20, 49.03)
2018	62,780	326,796	15,143,159	11,585,305.5	41.46 (41.13, 41.78)	215.80 (215.07, 216.54)	54.19 (53.77, 54.61)
2019	76,433	368,624	17,063,760	12,871,746.7	44.79 (44.48, 45.11)	216.03 (215.34, 216.72)	59.38 (58.96, 59.80)
2020	76,297	359,287	16,173,973	12,687,120.5	47.17 (46.84, 47.51)	222.14 (221.42, 222.86)	60.14 (59.71, 60.57)
2021	95,817	428,643	17,403,158	13,746,156.1	55.06 (54.71, 55.40)	246.30 (245.57, 247.03)	69.70 (69.26, 70.15)
2022	72,867	267,901	11,804,471	9,037,175.7	61.73 (61.28, 62.18)	226.95 (226.10, 227.80)	80.63 (80.05, 81.22)
<i>Uncertain</i>							
2017	31,691	151,738	9,389,205	6,716,224.0	33.75 (33.38, 34.12)	161.61 (160.80, 162.42)	47.19 (46.67, 47.71)

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2018	32,575	153,602	8,522,857	6,034,951.8	38.22 (37.81, 38.64)	180.22 (179.33, 181.12)	53.98 (53.39, 54.57)
2019	31,406	146,188	7,552,875	5,194,403.8	41.58 (41.12, 42.04)	193.55 (192.57, 194.54)	60.46 (59.80, 61.13)
2020	26,418	118,774	6,166,041	4,115,339.8	42.84 (42.33, 43.36)	192.63 (191.54, 193.71)	64.19 (63.42, 64.97)
2021	21,224	92,916	4,432,497	2,720,550.8	47.88 (47.24, 48.53)	209.62 (208.29, 210.96)	78.01 (76.97, 79.07)
2022	12,719	52,722	2,751,966	1,397,988.7	46.22 (45.42, 47.02)	191.58 (189.96, 193.20)	90.98 (89.41, 92.58)
<i>Adult and Medical</i>							
2017	24,833	116,762	6,933,715	5,316,797.5	35.81 (35.37, 36.26)	168.40 (167.44, 169.36)	46.71 (46.13, 47.29)
2018	27,427	123,310	6,766,182	5,243,967.0	40.54 (40.06, 41.01)	182.24 (181.24, 183.25)	52.30 (51.69, 52.92)
2019	34,071	143,729	7,487,613	5,791,667.7	45.50 (45.02, 45.99)	191.96 (190.97, 192.94)	58.83 (58.21, 59.46)
2020	42,479	183,806	8,867,785	6,920,724.2	47.90 (47.45, 48.36)	207.27 (206.34, 208.21)	61.38 (60.80, 61.97)
2021	55,779	229,206	10,036,925	7,792,256.3	55.57 (55.11, 56.03)	228.36 (227.44, 229.29)	71.58 (70.99, 72.18)
2022	103,303	465,254	17,598,848	13,533,766.2	58.70 (58.34, 59.06)	264.37 (263.62, 265.12)	76.33 (75.87, 76.80)
Emergency Department Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	196	218	830,415	648,739.5	2.36 (2.03, 2.69)	2.63 (2.28, 2.97)	3.02 (2.63, 3.48)
2018	167	196	988,154	728,186.3	1.69 (1.43, 1.95)	1.98 (1.71, 2.26)	2.29 (1.97, 2.67)
2019	163	206	1,165,223	886,399.3	1.40 (1.18, 1.61)	1.77 (1.53, 2.01)	1.84 (1.58, 2.14)
2020	108	149	1,294,038	1,033,262.5	0.83 (0.68, 0.99)	1.15 (0.97, 1.34)	1.05 (0.87, 1.26)
2021	95	139	1,297,115	1,078,875.4	0.73 (0.59, 0.88)	1.07 (0.89, 1.25)	0.88 (0.72, 1.08)
2022	89	104	1,323,445	1,039,391.8	0.67 (0.53, 0.81)	0.79 (0.63, 0.94)	0.86 (0.70, 1.05)
<i>Illegal</i>							
2017	10,616	13,295	15,251,671	11,723,086.7	6.96 (6.83, 7.09)	8.72 (8.57, 8.87)	9.06 (8.88, 9.23)
2018	11,683	14,935	14,719,200	11,417,903.8	7.94 (7.79, 8.08)	10.15 (9.98, 10.31)	10.23 (10.05, 10.42)
2019	11,728	15,635	13,569,592	10,562,438.2	8.64 (8.49, 8.80)	11.52 (11.34, 11.70)	11.10 (10.90, 11.31)

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2020	12,751	17,131	13,778,645	10,768,901.4	9.25 (9.09, 9.41)	12.43 (12.25, 12.62)	11.84 (11.64, 12.05)
2021	13,114	18,039	11,841,206	9,236,392.3	11.07 (10.89, 11.26)	15.23 (15.01, 15.46)	14.20 (13.96, 14.44)
2022	15,256	21,150	12,337,593	9,389,297.3	12.37 (12.17, 12.56)	17.14 (16.91, 17.37)	16.25 (15.99, 16.51)
<i>Medical</i>							
2017	12,788	16,588	14,320,406	10,885,522.3	8.93 (8.78, 9.08)	11.58 (11.41, 11.76)	11.75 (11.55, 11.95)
2018	14,847	19,325	15,143,159	11,585,305.5	9.80 (9.65, 9.96)	12.76 (12.58, 12.94)	12.82 (12.61, 13.02)
2019	17,113	22,804	17,063,760	12,871,746.7	10.03 (9.88, 10.18)	13.36 (13.19, 13.54)	13.30 (13.10, 13.50)
2020	16,807	23,239	16,173,973	12,687,120.5	10.39 (10.23, 10.55)	14.37 (14.18, 14.55)	13.25 (13.05, 13.45)
2021	20,440	28,204	17,403,158	13,746,156.1	11.74 (11.58, 11.91)	16.21 (16.02, 16.40)	14.87 (14.67, 15.07)
2022	16,985	24,008	11,804,471	9,037,175.7	14.39 (14.17, 14.60)	20.34 (20.08, 20.60)	18.79 (18.51, 19.08)
<i>Uncertain</i>							
2017	8,008	9,641	9,389,205	6,716,224.0	8.53 (8.34, 8.72)	10.27 (10.06, 10.47)	11.92 (11.67, 12.19)
2018	8,050	9,680	8,522,857	6,034,951.8	9.45 (9.24, 9.65)	11.36 (11.13, 11.58)	13.34 (13.05, 13.63)
2019	7,382	9,013	7,552,875	5,194,403.8	9.77 (9.55, 10.00)	11.93 (11.69, 12.18)	14.21 (13.89, 14.54)
2020	6,021	7,515	6,166,041	4,115,339.8	9.76 (9.52, 10.01)	12.19 (11.91, 12.46)	14.63 (14.27, 15.00)
2021	4,530	5,891	4,432,497	2,720,550.8	10.22 (9.92, 10.52)	13.29 (12.95, 13.63)	16.65 (16.17, 17.14)
2022	2,867	3,713	2,751,966	1,397,988.7	10.42 (10.04, 10.80)	13.49 (13.06, 13.93)	20.51 (19.77, 21.27)
<i>Adult and Medical</i>							
2017	6,394	7,676	6,933,715	5,316,797.5	9.22 (9.00, 9.45)	11.07 (10.82, 11.32)	12.03 (11.73, 12.32)
2018	6,565	7,891	6,766,182	5,243,967.0	9.70 (9.47, 9.94)	11.66 (11.41, 11.92)	12.52 (12.22, 12.83)
2019	7,800	9,464	7,487,613	5,791,667.7	10.42 (10.19, 10.65)	12.64 (12.39, 12.89)	13.47 (13.17, 13.77)
2020	9,037	11,508	8,867,785	6,920,724.2	10.19 (9.98, 10.40)	12.98 (12.74, 13.21)	13.06 (12.79, 13.33)
2021	10,684	14,234	10,036,925	7,792,256.3	10.64 (10.44, 10.85)	14.18 (13.95, 14.41)	13.71 (13.45, 13.97)
2022	22,417	29,362	17,598,848	13,533,766.2	12.74 (12.57, 12.90)	16.68 (16.49, 16.87)	16.56 (16.35, 16.78)
Inpatient Care Setting							

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	265	320	830,415	648,739.5	3.19 (2.81, 3.58)	3.85 (3.43, 4.28)	4.08 (3.62, 4.61)
2018	206	264	988,154	728,186.3	2.08 (1.80, 2.37)	2.67 (2.35, 2.99)	2.83 (2.47, 3.24)
2019	155	178	1,165,223	886,399.3	1.33 (1.12, 1.54)	1.53 (1.30, 1.75)	1.75 (1.49, 2.05)
2020	93	116	1,294,038	1,033,262.5	0.72 (0.57, 0.86)	0.90 (0.73, 1.06)	0.90 (0.73, 1.10)
2021	69	77	1,297,115	1,078,875.4	0.53 (0.41, 0.66)	0.59 (0.46, 0.73)	0.64 (0.51, 0.81)
2022	44	52	1,323,445	1,039,391.8	0.33 (0.23, 0.43)	0.39 (0.29, 0.50)	0.42 (0.32, 0.57)
<i>Illegal</i>							
2017	11,394	13,651	15,251,671	11,723,086.7	7.47 (7.33, 7.61)	8.95 (8.80, 9.10)	9.72 (9.54, 9.90)
2018	11,519	13,788	14,719,200	11,417,903.8	7.83 (7.68, 7.97)	9.37 (9.21, 9.52)	10.09 (9.91, 10.27)
2019	11,851	14,454	13,569,592	10,562,438.2	8.73 (8.58, 8.89)	10.65 (10.48, 10.83)	11.22 (11.02, 11.42)
2020	13,145	16,246	13,778,645	10,768,901.4	9.54 (9.38, 9.70)	11.79 (11.61, 11.97)	12.21 (12.00, 12.42)
2021	13,143	16,256	11,841,206	9,236,392.3	11.10 (10.91, 11.29)	13.73 (13.52, 13.94)	14.23 (13.99, 14.47)
2022	12,496	15,479	12,337,593	9,389,297.3	10.13 (9.95, 10.31)	12.55 (12.35, 12.74)	13.31 (13.08, 13.54)
<i>Medical</i>							
2017	11,345	13,684	14,320,406	10,885,522.3	7.92 (7.78, 8.07)	9.56 (9.40, 9.72)	10.42 (10.23, 10.62)
2018	12,528	15,020	15,143,159	11,585,305.5	8.27 (8.13, 8.42)	9.92 (9.76, 10.08)	10.81 (10.63, 11.00)
2019	15,367	18,684	17,063,760	12,871,746.7	9.01 (8.86, 9.15)	10.95 (10.79, 11.11)	11.94 (11.75, 12.13)
2020	15,815	19,527	16,173,973	12,687,120.5	9.78 (9.63, 9.93)	12.07 (11.90, 12.24)	12.47 (12.27, 12.66)
2021	19,059	23,310	17,403,158	13,746,156.1	10.95 (10.80, 11.11)	13.39 (13.22, 13.57)	13.86 (13.67, 14.06)
2022	12,806	15,443	11,804,471	9,037,175.7	10.85 (10.66, 11.04)	13.08 (12.88, 13.29)	14.17 (13.93, 14.42)
<i>Uncertain</i>							
2017	7,295	8,610	9,389,205	6,716,224.0	7.77 (7.59, 7.95)	9.17 (8.98, 9.36)	10.86 (10.62, 11.11)
2018	7,003	8,259	8,522,857	6,034,951.8	8.22 (8.02, 8.41)	9.69 (9.48, 9.90)	11.60 (11.34, 11.88)

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2019	6,216	7,450	7,552,875	5,194,403.8	8.23 (8.03, 8.43)	9.86 (9.64, 10.09)	11.97 (11.67, 12.27)
2020	5,326	6,595	6,166,041	4,115,339.8	8.64 (8.41, 8.87)	10.70 (10.44, 10.95)	12.94 (12.60, 13.29)
2021	3,920	4,726	4,432,497	2,720,550.8	8.84 (8.57, 9.12)	10.66 (10.36, 10.97)	14.41 (13.96, 14.87)
2022	1,858	2,243	2,751,966	1,397,988.7	6.75 (6.44, 7.06)	8.15 (7.81, 8.49)	13.29 (12.70, 13.91)
<i>Adult and Medical</i>							
2017	5,996	7,089	6,933,715	5,316,797.5	8.65 (8.43, 8.87)	10.22 (9.99, 10.46)	11.28 (11.00, 11.57)
2018	5,955	7,097	6,766,182	5,243,967.0	8.80 (8.58, 9.02)	10.49 (10.25, 10.73)	11.36 (11.07, 11.65)
2019	6,905	8,265	7,487,613	5,791,667.7	9.22 (9.00, 9.44)	11.04 (10.80, 11.28)	11.92 (11.64, 12.21)
2020	8,330	10,102	8,867,785	6,920,724.2	9.39 (9.19, 9.60)	11.39 (11.17, 11.61)	12.04 (11.78, 12.30)
2021	10,165	12,310	10,036,925	7,792,256.3	10.13 (9.93, 10.32)	12.26 (12.05, 12.48)	13.05 (12.79, 13.30)
2022	15,636	18,618	17,598,848	13,533,766.2	8.88 (8.75, 9.02)	10.58 (10.43, 10.73)	11.55 (11.37, 11.74)
Outpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Unknown</i>							
2017	627	4,003	830,415	648,739.5	7.55 (6.96, 8.14)	48.20 (46.72, 49.69)	9.66 (8.94, 10.45)
2018	547	4,515	988,154	728,186.3	5.54 (5.07, 6.00)	45.69 (44.36, 47.02)	7.51 (6.91, 8.17)
2019	441	2,462	1,165,223	886,399.3	3.78 (3.43, 4.14)	21.13 (20.30, 21.96)	4.98 (4.53, 5.46)
2020	306	1,800	1,294,038	1,033,262.5	2.36 (2.10, 2.63)	13.91 (13.27, 14.55)	2.96 (2.65, 3.31)
2021	265	1,180	1,297,115	1,078,875.4	2.04 (1.80, 2.29)	9.10 (8.58, 9.62)	2.46 (2.18, 2.77)
2022	244	981	1,323,445	1,039,391.8	1.84 (1.61, 2.07)	7.41 (6.95, 7.88)	2.35 (2.07, 2.66)
<i>Illegal</i>							
2017	31,599	181,050	15,251,671	11,723,086.7	20.72 (20.49, 20.95)	118.71 (118.16, 119.25)	26.95 (26.66, 27.25)
2018	34,763	192,505	14,719,200	11,417,903.8	23.62 (23.37, 23.87)	130.78 (130.20, 131.37)	30.45 (30.13, 30.77)
2019	36,416	189,457	13,569,592	10,562,438.2	26.84 (26.56, 27.11)	139.62 (138.99, 140.24)	34.48 (34.12, 34.83)
2020	43,042	236,898	13,778,645	10,768,901.4	31.24 (30.94, 31.53)	171.93 (171.24, 172.62)	39.97 (39.59, 40.35)

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2021	46,312	285,793	11,841,206	9,236,392.3	39.11 (38.76, 39.47)	241.35 (240.48, 242.23)	50.14 (49.69, 50.60)
2022	52,243	326,262	12,337,593	9,389,297.3	42.34 (41.98, 42.71)	264.45 (263.55, 265.34)	55.64 (55.17, 56.12)
<i>Medical</i>							
2017	37,146	254,870	14,320,406	10,885,522.3	25.94 (25.68, 26.20)	177.98 (177.29, 178.66)	34.12 (33.78, 34.47)
2018	44,965	293,697	15,143,159	11,585,305.5	29.69 (29.42, 29.97)	193.95 (193.25, 194.64)	38.81 (38.46, 39.17)
2019	55,241	327,953	17,063,760	12,871,746.7	32.37 (32.10, 32.64)	192.19 (191.54, 192.84)	42.92 (42.56, 43.28)
2020	54,946	317,836	16,173,973	12,687,120.5	33.97 (33.69, 34.26)	196.51 (195.83, 197.19)	43.31 (42.95, 43.67)
2021	70,905	379,983	17,403,158	13,746,156.1	40.74 (40.44, 41.04)	218.34 (217.65, 219.03)	51.58 (51.20, 51.96)
2022	53,815	231,094	11,804,471	9,037,175.7	45.59 (45.20, 45.97)	195.77 (194.98, 196.56)	59.55 (59.05, 60.05)
<i>Uncertain</i>							
2017	21,647	134,651	9,389,205	6,716,224.0	23.06 (22.75, 23.36)	143.41 (142.65, 144.17)	32.23 (31.80, 32.66)
2018	22,673	136,551	8,522,857	6,034,951.8	26.60 (26.26, 26.95)	160.22 (159.37, 161.06)	37.57 (37.08, 38.06)
2019	22,549	130,438	7,552,875	5,194,403.8	29.85 (29.47, 30.24)	172.70 (171.77, 173.63)	43.41 (42.85, 43.98)
2020	18,887	105,046	6,166,041	4,115,339.8	30.63 (30.19, 31.07)	170.36 (169.34, 171.38)	45.89 (45.24, 46.55)
2021	15,303	82,176	4,432,497	2,720,550.8	34.52 (33.98, 35.07)	185.39 (184.14, 186.65)	56.25 (55.37, 57.15)
2022	9,209	46,504	2,751,966	1,397,988.7	33.46 (32.78, 34.15)	168.98 (167.46, 170.51)	65.87 (64.54, 67.23)
<i>Adult and Medical</i>							
2017	17,658	104,277	6,933,715	5,316,797.5	25.47 (25.09, 25.84)	150.39 (149.49, 151.30)	33.21 (32.73, 33.71)
2018	20,227	110,533	6,766,182	5,243,967.0	29.89 (29.48, 30.31)	163.36 (162.41, 164.32)	38.57 (38.04, 39.11)
2019	25,597	128,660	7,487,613	5,791,667.7	34.19 (33.77, 34.60)	171.83 (170.90, 172.76)	44.20 (43.66, 44.74)
2020	32,607	165,026	8,867,785	6,920,724.2	36.77 (36.37, 37.17)	186.10 (185.21, 186.99)	47.12 (46.61, 47.63)
2021	43,249	205,126	10,036,925	7,792,256.3	43.09 (42.68, 43.50)	204.37 (203.50, 205.25)	55.50 (54.98, 56.03)
2022	81,159	423,339	17,598,848	13,533,766.2	46.12 (45.80, 46.43)	240.55 (239.83, 241.27)	59.97 (59.56, 60.38)

Institutional Care Setting

Any cannabis-related disorder or cannabis poisoning

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Unknown</i>							
2017	11	13	830,415	648,739.5	0.13 (0.05, 0.21)	0.16 (0.07, 0.24)	0.17 (0.09, 0.31)
2018	12	15	988,154	728,186.3	0.12 (0.05, 0.19)	0.15 (0.07, 0.23)	0.16 (0.09, 0.29)
2019	13	17	1,165,223	886,399.3	0.11 (0.05, 0.17)	0.15 (0.08, 0.22)	0.15 (0.09, 0.25)
2020	17	20	1,294,038	1,033,262.5	0.13 (0.07, 0.19)	0.15 (0.09, 0.22)	0.16 (0.10, 0.26)
2021	21	22	1,297,115	1,078,875.4	0.16 (0.09, 0.23)	0.17 (0.10, 0.24)	0.19 (0.13, 0.30)
2022	26	34	1,323,445	1,039,391.8	0.20 (0.12, 0.27)	0.26 (0.17, 0.34)	0.25 (0.17, 0.37)
<i>Illegal</i>							
2017	2,888	3,518	15,251,671	11,723,086.7	1.89 (1.82, 1.96)	2.31 (2.23, 2.38)	2.46 (2.38, 2.56)
2018	3,028	3,731	14,719,200	11,417,903.8	2.06 (1.98, 2.13)	2.53 (2.45, 2.62)	2.65 (2.56, 2.75)
2019	2,805	3,493	13,569,592	10,562,438.2	2.07 (1.99, 2.14)	2.57 (2.49, 2.66)	2.66 (2.56, 2.76)
2020	3,492	4,425	13,778,645	10,768,901.4	2.53 (2.45, 2.62)	3.21 (3.12, 3.31)	3.24 (3.14, 3.35)
2021	3,675	4,657	11,841,206	9,236,392.3	3.10 (3.00, 3.20)	3.93 (3.82, 4.05)	3.98 (3.85, 4.11)
2022	3,571	4,642	12,337,593	9,389,297.3	2.89 (2.80, 2.99)	3.76 (3.65, 3.87)	3.80 (3.68, 3.93)
<i>Medical</i>							
2017	3,442	4,274	14,320,406	10,885,522.3	2.40 (2.32, 2.48)	2.98 (2.90, 3.07)	3.16 (3.06, 3.27)
2018	3,911	4,896	15,143,159	11,585,305.5	2.58 (2.50, 2.66)	3.23 (3.14, 3.32)	3.38 (3.27, 3.48)
2019	4,848	6,248	17,063,760	12,871,746.7	2.84 (2.76, 2.92)	3.66 (3.57, 3.75)	3.77 (3.66, 3.87)
2020	4,745	6,101	16,173,973	12,687,120.5	2.93 (2.85, 3.02)	3.77 (3.68, 3.87)	3.74 (3.64, 3.85)
2021	5,354	6,904	17,403,158	13,746,156.1	3.08 (2.99, 3.16)	3.97 (3.87, 4.06)	3.89 (3.79, 4.00)
2022	3,732	4,761	11,804,471	9,037,175.7	3.16 (3.06, 3.26)	4.03 (3.92, 4.15)	4.13 (4.00, 4.26)
<i>Uncertain</i>							
2017	1,399	1,684	9,389,205	6,716,224.0	1.49 (1.41, 1.57)	1.79 (1.71, 1.88)	2.08 (1.98, 2.20)
2018	1,517	1,918	8,522,857	6,034,951.8	1.78 (1.69, 1.87)	2.25 (2.15, 2.35)	2.51 (2.39, 2.64)
2019	1,551	1,994	7,552,875	5,194,403.8	2.05 (1.95, 2.16)	2.64 (2.52, 2.76)	2.99 (2.84, 3.14)

Table 3. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status* and Year - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
2020	1,414	1,757	6,166,041	4,115,339.8	2.29 (2.17, 2.41)	2.85 (2.72, 2.98)	3.44 (3.26, 3.62)
2021	1,207	1,541	4,432,497	2,720,550.8	2.72 (2.57, 2.88)	3.48 (3.30, 3.65)	4.44 (4.19, 4.69)
2022	773	993	2,751,966	1,397,988.7	2.81 (2.61, 3.01)	3.61 (3.38, 3.83)	5.53 (5.15, 5.93)
<i>Adult and Medical</i>							
2017	1,084	1,337	6,933,715	5,316,797.5	1.56 (1.47, 1.66)	1.93 (1.82, 2.03)	2.04 (1.92, 2.16)
2018	1,074	1,410	6,766,182	5,243,967.0	1.59 (1.49, 1.68)	2.08 (1.98, 2.19)	2.05 (1.93, 2.17)
2019	1,319	1,710	7,487,613	5,791,667.7	1.76 (1.67, 1.86)	2.28 (2.18, 2.39)	2.28 (2.16, 2.40)
2020	1,805	2,384	8,867,785	6,920,724.2	2.04 (1.94, 2.13)	2.69 (2.58, 2.80)	2.61 (2.49, 2.73)
2021	2,531	3,194	10,036,925	7,792,256.3	2.52 (2.42, 2.62)	3.18 (3.07, 3.29)	3.25 (3.12, 3.38)
2022	4,277	5,380	17,598,848	13,533,766.2	2.43 (2.36, 2.50)	3.06 (2.98, 3.14)	3.16 (3.07, 3.26)

¹Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

*Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown.

**In the sensitivity analysis, we defined an additional Uncertain category, for encounters in which the most recent postal date available based on patients' residence was observed after the encounter date for cannabis-related disorders or poisonings.

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
Any Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	25,611	178,383	2,539,314	1,765,425.1	100.86 (99.63, 102.09)	702.49 (699.34, 705.63)	145.07 (143.30, 146.86)
26-44 years	15,155	66,781	5,438,941	3,793,258.6	27.86 (27.42, 28.31)	122.78 (121.86, 123.71)	39.95 (39.32, 40.59)
45-64 years	12,455	39,041	6,799,442	5,326,838.6	18.32 (18.00, 18.64)	57.42 (56.85, 57.99)	23.38 (22.97, 23.80)
<i>Illegal, 2017</i>							
18-25 years	21,395	127,913	2,578,271	1,797,021.0	82.98 (81.87, 84.09)	496.12 (493.47, 498.77)	119.06 (117.47, 120.66)
26-44 years	13,677	49,070	5,962,589	4,222,346.8	22.94 (22.55, 23.32)	82.30 (81.57, 83.02)	32.39 (31.85, 32.94)
45-64 years	10,712	29,564	7,198,374	5,703,718.9	14.88 (14.60, 15.16)	41.07 (40.60, 41.54)	18.78 (18.43, 19.14)
<i>Unknown, 2017</i>							
18-25 years	575	3,388	225,886	147,809.3	25.46 (23.38, 27.53)	149.99 (144.97, 155.00)	38.90 (35.85, 42.21)
26-44 years	184	719	384,448	292,860.8	4.79 (4.09, 5.48)	18.70 (17.34, 20.07)	6.28 (5.44, 7.26)
45-64 years	99	299	255,365	208,069.5	3.88 (3.11, 4.64)	11.71 (10.38, 13.04)	4.76 (3.91, 5.79)
<i>Adult and Medical, 2017</i>							
18-25 years	10,522	67,202	1,269,048	884,171.3	82.91 (81.33, 84.49)	529.55 (525.65, 533.44)	119.00 (116.75, 121.30)
26-44 years	8,097	32,632	2,848,334	2,007,845.1	28.43 (27.81, 29.05)	114.57 (113.33, 115.80)	40.33 (39.46, 41.21)
45-64 years	6,323	16,928	3,046,608	2,424,781.0	20.75 (20.24, 21.27)	55.56 (54.73, 56.40)	26.08 (25.44, 26.73)
<i>Uncertain, 2017</i>							
18-25 years	15,563	92,358	2,021,974	1,347,294.6	76.97 (75.76, 78.17)	456.77 (453.89, 459.65)	115.51 (113.71, 117.34)
26-44 years	11,898	45,375	4,838,356	3,272,530.6	24.59 (24.15, 25.03)	93.78 (92.92, 94.64)	36.36 (35.71, 37.02)
45-64 years	4,364	14,005	2,859,243	2,096,398.8	15.26 (14.81, 15.72)	48.98 (48.17, 49.79)	20.82 (20.21, 21.44)
<i>Uncertain, 2018</i>							
18-25 years	14,888	87,348	1,807,479	1,194,797.2	82.37 (81.05, 83.69)	483.26 (480.13, 486.39)	124.61 (122.62, 126.62)
26-44 years	13,014	50,776	4,440,040	2,976,214.3	29.31 (28.81, 29.81)	114.36 (113.37, 115.35)	43.73 (42.98, 44.48)
45-64 years	4,795	15,478	2,568,387	1,863,940.2	18.67 (18.14, 19.20)	60.26 (59.32, 61.21)	25.73 (25.01, 26.46)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Unknown, 2018</i>							
18-25 years	451	3,573	236,453	149,199.3	19.07 (17.31, 20.83)	151.11 (146.19, 156.03)	30.23 (27.56, 33.15)
26-44 years	176	908	451,830	330,488.5	3.90 (3.32, 4.47)	20.10 (18.79, 21.40)	5.33 (4.59, 6.17)
45-64 years	108	396	338,231	248,498.6	3.19 (2.59, 3.80)	11.71 (10.56, 12.86)	4.35 (3.60, 5.25)
<i>Adult and Medical, 2018</i>							
18-25 years	11,241	68,560	1,271,028	895,103.9	88.44 (86.81, 90.07)	539.41 (535.48, 543.33)	125.58 (123.28, 127.93)
26-44 years	9,246	35,926	2,835,678	2,014,973.4	32.61 (31.94, 33.27)	126.69 (125.39, 127.99)	45.89 (44.96, 46.83)
45-64 years	7,056	18,824	2,887,813	2,333,889.7	24.43 (23.86, 25.00)	65.18 (64.26, 66.11)	30.23 (29.54, 30.95)
<i>Medical, 2018</i>							
18-25 years	28,143	192,781	2,712,416	1,901,844.0	103.76 (102.55, 104.96)	710.74 (707.68, 713.79)	147.98 (146.26, 149.72)
26-44 years	19,014	84,418	5,820,439	4,075,192.5	32.67 (32.20, 33.13)	145.04 (144.07, 146.01)	46.66 (46.00, 47.33)
45-64 years	15,997	49,597	7,090,955	5,608,269.1	22.56 (22.21, 22.91)	69.94 (69.33, 70.56)	28.52 (28.09, 28.97)
<i>Illegal, 2018</i>							
18-25 years	22,032	130,668	2,533,792	1,782,123.6	86.95 (85.81, 88.10)	515.70 (512.98, 518.42)	123.63 (122.01, 125.27)
26-44 years	15,198	55,365	5,822,773	4,152,919.4	26.10 (25.69, 26.52)	95.08 (94.30, 95.87)	36.60 (36.02, 37.18)
45-64 years	12,239	33,465	6,834,173	5,482,860.8	17.91 (17.59, 18.23)	48.97 (48.44, 49.49)	22.32 (21.93, 22.72)
<i>Adult and Medical, 2019</i>							
18-25 years	13,144	74,983	1,404,410	989,615.4	93.59 (92.00, 95.18)	533.91 (530.19, 537.63)	132.82 (130.57, 135.11)
26-44 years	11,940	45,018	3,149,090	2,236,806.0	37.92 (37.24, 38.59)	142.96 (141.64, 144.27)	53.38 (52.43, 54.35)
45-64 years	9,120	23,728	3,185,853	2,565,246.2	28.63 (28.04, 29.21)	74.48 (73.54, 75.42)	35.55 (34.83, 36.29)
<i>Uncertain, 2019</i>							
18-25 years	13,356	75,567	1,579,891	1,018,125.4	84.54 (83.11, 85.97)	478.31 (474.98, 481.63)	131.18 (128.98, 133.43)
26-44 years	13,648	54,758	3,991,435	2,608,611.4	34.19 (33.62, 34.77)	137.19 (136.05, 138.33)	52.32 (51.45, 53.20)
45-64 years	4,550	15,863	2,235,417	1,567,667.0	20.35 (19.76, 20.94)	70.96 (69.86, 72.06)	29.02 (28.19, 29.88)
<i>Unknown, 2019</i>							
18-25 years	360	1,737	268,527	167,755.1	13.41 (12.02, 14.79)	64.69 (61.65, 67.72)	21.46 (19.35, 23.80)

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26-44 years	188	810	539,947	403,505.3	3.48 (2.98, 3.98)	15.00 (13.97, 16.03)	4.66 (4.04, 5.38)
45-64 years	89	215	400,970	315,138.9	2.22 (1.76, 2.68)	5.36 (4.65, 6.08)	2.82 (2.29, 3.48)
<i>Medical, 2019</i>							
18-25 years	31,444	198,769	3,089,890	2,149,602.3	101.76 (100.65, 102.88)	643.29 (640.55, 646.02)	146.28 (144.67, 147.90)
26-44 years	24,483	105,001	6,624,629	4,597,469.8	36.96 (36.50, 37.42)	158.50 (157.55, 159.45)	53.25 (52.59, 53.92)
45-64 years	20,929	64,854	7,882,930	6,124,674.6	26.55 (26.19, 26.91)	82.27 (81.64, 82.90)	34.17 (33.71, 34.64)
<i>Illegal, 2019</i>							
18-25 years	21,081	116,981	2,340,762	1,661,930.8	90.06 (88.85, 91.27)	499.76 (496.96, 502.55)	126.85 (125.15, 128.57)
26-44 years	16,482	60,882	5,394,268	3,866,804.2	30.55 (30.09, 31.02)	112.86 (111.97, 113.76)	42.62 (41.98, 43.28)
45-64 years	13,806	39,598	6,271,385	5,033,703.2	22.01 (21.65, 22.38)	63.14 (62.52, 63.76)	27.43 (26.97, 27.89)
<i>Illegal, 2020</i>							
18-25 years	22,498	122,453	2,389,051	1,714,357.4	94.17 (92.95, 95.40)	512.56 (509.76, 515.36)	131.23 (129.53, 132.96)
26-44 years	20,654	93,142	5,502,727	3,981,174.2	37.53 (37.02, 38.05)	169.27 (168.19, 170.34)	51.88 (51.18, 52.59)
45-64 years	16,250	52,800	6,328,938	5,073,369.9	25.68 (25.28, 26.07)	83.43 (82.72, 84.13)	32.03 (31.54, 32.53)
<i>Medical, 2020</i>							
18-25 years	29,347	177,107	2,920,100	2,099,786.4	100.50 (99.36, 101.64)	606.51 (603.77, 609.25)	139.76 (138.17, 141.37)
26-44 years	25,595	112,082	6,341,177	4,586,353.5	40.36 (39.87, 40.86)	176.75 (175.73, 177.78)	55.81 (55.13, 56.49)
45-64 years	21,821	70,098	7,434,079	6,000,980.6	29.35 (28.96, 29.74)	94.29 (93.60, 94.99)	36.36 (35.88, 36.85)
<i>Adult and Medical, 2020</i>							
18-25 years	16,020	89,865	1,643,808	1,171,386.9	97.46 (95.95, 98.96)	546.69 (543.21, 550.16)	136.76 (134.66, 138.90)
26-44 years	15,401	61,731	3,749,586	2,699,724.3	41.07 (40.43, 41.72)	164.63 (163.35, 165.92)	57.05 (56.15, 57.95)
45-64 years	11,264	32,210	3,771,078	3,049,613.0	29.87 (29.32, 30.42)	85.41 (84.48, 86.34)	36.94 (36.26, 37.62)
<i>Unknown, 2020</i>							
18-25 years	252	1,279	293,258	200,377.6	8.59 (7.53, 9.65)	43.61 (41.23, 46.00)	12.58 (11.12, 14.23)
26-44 years	124	580	601,201	466,288.0	2.06 (1.70, 2.43)	9.65 (8.86, 10.43)	2.66 (2.23, 3.17)
45-64 years	48	153	449,150	366,597.0	1.07 (0.77, 1.37)	3.41 (2.87, 3.95)	1.31 (0.99, 1.74)

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	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Uncertain, 2020</i>							
18-25 years	10,747	56,762	1,273,559	798,231.5	84.39 (82.80, 85.97)	445.70 (442.11, 449.28)	134.64 (132.11, 137.20)
26-44 years	12,080	49,004	3,324,226	2,126,382.5	36.34 (35.69, 36.99)	147.41 (146.12, 148.71)	56.81 (55.81, 57.83)
45-64 years	3,727	13,008	1,773,744	1,190,725.7	21.01 (20.34, 21.69)	73.34 (72.08, 74.59)	31.30 (30.31, 32.32)
<i>Illegal, 2021</i>							
18-25 years	21,539	113,767	2,088,007	1,498,409.7	103.16 (101.79, 104.53)	544.86 (541.78, 547.94)	143.75 (141.84, 145.68)
26-44 years	23,926	138,054	4,791,718	3,450,962.7	49.93 (49.30, 50.56)	288.11 (286.61, 289.61)	69.33 (68.46, 70.22)
45-64 years	17,644	66,783	5,344,257	4,287,019.9	33.01 (32.53, 33.50)	124.96 (124.02, 125.90)	41.16 (40.55, 41.77)
<i>Medical, 2021</i>							
18-25 years	34,344	191,633	3,037,369	2,211,513.0	113.07 (111.88, 114.26)	630.92 (628.18, 633.65)	155.30 (153.66, 156.95)
26-44 years	33,450	142,961	6,940,754	5,040,224.3	48.19 (47.68, 48.71)	205.97 (204.92, 207.03)	66.37 (65.66, 67.08)
45-64 years	28,558	94,049	7,985,546	6,494,418.8	35.76 (35.35, 36.18)	117.77 (117.03, 118.52)	43.97 (43.47, 44.49)
<i>Uncertain, 2021</i>							
18-25 years	7,835	40,190	897,959	515,517.5	87.25 (85.33, 89.18)	447.57 (443.29, 451.85)	151.98 (148.65, 155.39)
26-44 years	10,330	42,091	2,444,288	1,432,975.0	42.26 (41.45, 43.08)	172.20 (170.57, 173.83)	72.09 (70.71, 73.49)
45-64 years	3,171	10,635	1,231,183	772,058.3	25.76 (24.86, 26.65)	86.38 (84.75, 88.01)	41.07 (39.67, 42.53)
<i>Adult and Medical, 2021</i>							
18-25 years	19,900	105,853	1,834,943	1,300,122.7	108.45 (106.95, 109.95)	576.87 (573.50, 580.25)	153.06 (150.95, 155.20)
26-44 years	20,800	80,601	4,308,288	3,079,850.4	48.28 (47.62, 48.93)	187.08 (185.80, 188.36)	67.54 (66.62, 68.46)
45-64 years	15,362	42,752	4,226,936	3,412,283.3	36.34 (35.77, 36.92)	101.14 (100.19, 102.10)	45.02 (44.31, 45.74)
<i>Unknown, 2021</i>							
18-25 years	216	934	290,039	205,606.1	7.45 (6.45, 8.44)	32.20 (30.14, 34.26)	10.51 (9.19, 12.00)
26-44 years	106	306	598,501	486,602.0	1.77 (1.43, 2.11)	5.11 (4.54, 5.69)	2.18 (1.80, 2.64)
45-64 years	66	134	460,660	386,667.3	1.43 (1.09, 1.78)	2.91 (2.42, 3.40)	1.71 (1.34, 2.17)
<i>Medical, 2022</i>							
18-25 years	22,300	106,439	2,050,607	1,455,316.2	108.75 (107.33, 110.17)	519.06 (516.02, 522.10)	153.23 (151.23, 155.26)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	25,992	92,467	4,733,884	3,318,748.3	54.91 (54.24, 55.57)	195.33 (194.08, 196.58)	78.32 (77.37, 79.28)
45-64 years	24,940	68,995	5,393,514	4,263,111.3	46.24 (45.67, 46.81)	127.92 (126.97, 128.87)	58.50 (57.78, 59.23)
<i>Illegal, 2022</i>							
18-25 years	22,621	117,830	2,203,347	1,548,566.2	102.67 (101.34, 104.00)	534.78 (531.81, 537.75)	146.08 (144.19, 147.99)
26-44 years	26,795	161,516	5,111,315	3,563,235.0	52.42 (51.80, 53.05)	316.00 (314.48, 317.51)	75.20 (74.30, 76.10)
45-64 years	20,206	81,136	5,423,996	4,277,496.1	37.25 (36.74, 37.77)	149.59 (148.57, 150.61)	47.24 (46.59, 47.89)
<i>Adult and Medical, 2022</i>							
18-25 years	35,732	200,690	3,189,322	2,259,513.7	112.04 (110.88, 113.19)	629.26 (626.59, 631.92)	158.14 (156.51, 159.79)
26-44 years	39,767	173,590	7,601,211	5,342,813.2	52.32 (51.80, 52.83)	228.37 (227.31, 229.43)	74.43 (73.70, 75.17)
45-64 years	28,398	90,974	7,391,165	5,931,439.2	38.42 (37.98, 38.87)	123.08 (122.29, 123.88)	47.88 (47.32, 48.44)
<i>Unknown, 2022</i>							
18-25 years	157	558	309,439	204,053.5	5.07 (4.28, 5.87)	18.03 (16.54, 19.53)	7.69 (6.58, 9.00)
26-44 years	119	386	596,338	458,686.5	2.00 (1.64, 2.35)	6.47 (5.83, 7.12)	2.59 (2.17, 3.11)
45-64 years	71	199	467,298	376,651.8	1.52 (1.17, 1.87)	4.26 (3.67, 4.85)	1.89 (1.49, 2.38)
<i>Uncertain, 2022</i>							
18-25 years	4,251	20,194	557,647	269,985.1	76.23 (73.95, 78.51)	362.13 (357.23, 367.03)	157.45 (152.79, 162.26)
26-44 years	6,540	26,198	1,543,277	757,107.0	42.38 (41.35, 43.40)	169.76 (167.72, 171.79)	86.38 (84.31, 88.50)
45-64 years	2,000	6,330	731,418	370,896.7	27.34 (26.15, 28.54)	86.54 (84.42, 88.67)	53.92 (51.61, 56.34)
Emergency Department Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	6,259	7,862	2,539,314	1,765,425.1	24.65 (24.04, 25.26)	30.96 (30.28, 31.64)	35.45 (34.59, 36.34)
26-44 years	3,725	4,802	5,438,941	3,793,258.6	6.85 (6.63, 7.07)	8.83 (8.58, 9.08)	9.82 (9.51, 10.14)
45-64 years	2,810	3,924	6,799,442	5,326,838.6	4.13 (3.98, 4.29)	5.77 (5.59, 5.95)	5.28 (5.08, 5.47)
<i>Illegal, 2017</i>							
18-25 years	4,877	5,921	2,578,271	1,797,021.0	18.92 (18.39, 19.45)	22.97 (22.38, 23.55)	27.14 (26.39, 27.91)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	3,329	4,093	5,962,589	4,222,346.8	5.58 (5.39, 5.77)	6.86 (6.65, 7.07)	7.88 (7.62, 8.16)
45-64 years	2,419	3,281	7,198,374	5,703,718.9	3.36 (3.23, 3.49)	4.56 (4.40, 4.71)	4.24 (4.08, 4.41)
<i>Unknown, 2017</i>							
18-25 years	132	146	225,886	147,809.3	5.84 (4.85, 6.84)	6.46 (5.42, 7.51)	8.93 (7.53, 10.59)
26-44 years	44	47	384,448	292,860.8	1.14 (0.81, 1.48)	1.22 (0.87, 1.57)	1.50 (1.12, 2.02)
45-64 years	20	25	255,365	208,069.5	0.78 (0.44, 1.13)	0.98 (0.60, 1.36)	0.96 (0.62, 1.49)
<i>Adult and Medical, 2017</i>							
18-25 years	2,815	3,304	1,269,048	884,171.3	22.18 (21.36, 23.00)	26.04 (25.15, 26.92)	31.84 (30.68, 33.04)
26-44 years	2,071	2,480	2,848,334	2,007,845.1	7.27 (6.96, 7.58)	8.71 (8.36, 9.05)	10.31 (9.88, 10.77)
45-64 years	1,512	1,892	3,046,608	2,424,781.0	4.96 (4.71, 5.21)	6.21 (5.93, 6.49)	6.24 (5.93, 6.56)
<i>Uncertain, 2017</i>							
18-25 years	3,850	4,647	2,021,974	1,347,294.6	19.04 (18.44, 19.64)	22.98 (22.32, 23.64)	28.58 (27.69, 29.49)
26-44 years	3,120	3,678	4,838,356	3,272,530.6	6.45 (6.22, 6.67)	7.60 (7.36, 7.85)	9.53 (9.21, 9.87)
45-64 years	1,043	1,316	2,859,243	2,096,398.8	3.65 (3.43, 3.87)	4.60 (4.35, 4.85)	4.98 (4.68, 5.29)
<i>Uncertain, 2018</i>							
18-25 years	3,752	4,532	1,807,479	1,194,797.2	20.76 (20.09, 21.42)	25.07 (24.34, 25.80)	31.40 (30.41, 32.42)
26-44 years	3,179	3,779	4,440,040	2,976,214.3	7.16 (6.91, 7.41)	8.51 (8.24, 8.78)	10.68 (10.32, 11.06)
45-64 years	1,122	1,369	2,568,387	1,863,940.2	4.37 (4.11, 4.62)	5.33 (5.05, 5.61)	6.02 (5.68, 6.38)
<i>Unknown, 2018</i>							
18-25 years	96	115	236,453	149,199.3	4.06 (3.25, 4.87)	4.86 (3.97, 5.75)	6.43 (5.27, 7.86)
26-44 years	48	55	451,830	330,488.5	1.06 (0.76, 1.36)	1.22 (0.90, 1.54)	1.45 (1.09, 1.93)
45-64 years	23	26	338,231	248,498.6	0.68 (0.40, 0.96)	0.77 (0.47, 1.06)	0.93 (0.62, 1.39)
<i>Adult and Medical, 2018</i>							
18-25 years	2,816	3,352	1,271,028	895,103.9	22.16 (21.34, 22.97)	26.37 (25.48, 27.26)	31.46 (30.32, 32.64)
26-44 years	2,208	2,634	2,835,678	2,014,973.4	7.79 (7.46, 8.11)	9.29 (8.93, 9.64)	10.96 (10.51, 11.42)
45-64 years	1,544	1,905	2,887,813	2,333,889.7	5.35 (5.08, 5.61)	6.60 (6.30, 6.89)	6.62 (6.29, 6.95)

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<i>Medical, 2018</i>							
18-25 years	6,829	8,574	2,712,416	1,901,844.0	25.18 (24.58, 25.77)	31.61 (30.94, 32.28)	35.91 (35.07, 36.77)
26-44 years	4,554	5,863	5,820,439	4,075,192.5	7.82 (7.60, 8.05)	10.07 (9.82, 10.33)	11.17 (10.86, 11.50)
45-64 years	3,473	4,888	7,090,955	5,608,269.1	4.90 (4.73, 5.06)	6.89 (6.70, 7.09)	6.19 (5.99, 6.40)
<i>Illegal, 2018</i>							
18-25 years	5,168	6,302	2,533,792	1,782,123.6	20.40 (19.84, 20.95)	24.87 (24.26, 25.49)	29.00 (28.22, 29.80)
26-44 years	3,869	4,865	5,822,773	4,152,919.4	6.64 (6.44, 6.85)	8.36 (8.12, 8.59)	9.32 (9.03, 9.61)
45-64 years	2,653	3,768	6,834,173	5,482,860.8	3.88 (3.73, 4.03)	5.51 (5.34, 5.69)	4.84 (4.66, 5.03)
<i>Adult and Medical, 2019</i>							
18-25 years	3,232	3,824	1,404,410	989,615.4	23.01 (22.22, 23.81)	27.23 (26.37, 28.09)	32.66 (31.55, 33.80)
26-44 years	2,653	3,145	3,149,090	2,236,806.0	8.42 (8.10, 8.75)	9.99 (9.64, 10.34)	11.86 (11.42, 12.32)
45-64 years	1,921	2,495	3,185,853	2,565,246.2	6.03 (5.76, 6.30)	7.83 (7.52, 8.14)	7.49 (7.16, 7.83)
<i>Uncertain, 2019</i>							
18-25 years	3,240	3,908	1,579,891	1,018,125.4	20.51 (19.80, 21.21)	24.74 (23.96, 25.51)	31.82 (30.75, 32.94)
26-44 years	3,099	3,795	3,991,435	2,608,611.4	7.76 (7.49, 8.04)	9.51 (9.21, 9.81)	11.88 (11.47, 12.31)
45-64 years	1,048	1,310	2,235,417	1,567,667.0	4.69 (4.40, 4.97)	5.86 (5.54, 6.18)	6.69 (6.29, 7.10)
<i>Unknown, 2019</i>							
18-25 years	100	127	268,527	167,755.1	3.72 (2.99, 4.45)	4.73 (3.91, 5.55)	5.96 (4.90, 7.25)
26-44 years	45	58	539,947	403,505.3	0.83 (0.59, 1.08)	1.07 (0.80, 1.35)	1.12 (0.83, 1.49)
45-64 years	18	21	400,970	315,138.9	0.45 (0.24, 0.66)	0.52 (0.30, 0.75)	0.57 (0.36, 0.91)
<i>Medical, 2019</i>							
18-25 years	7,371	9,347	3,089,890	2,149,602.3	23.86 (23.31, 24.40)	30.25 (29.64, 30.86)	34.29 (33.52, 35.08)
26-44 years	5,380	6,845	6,624,629	4,597,469.8	8.12 (7.90, 8.34)	10.33 (10.09, 10.58)	11.70 (11.39, 12.02)
45-64 years	4,378	6,612	7,882,930	6,124,674.6	5.55 (5.39, 5.72)	8.39 (8.19, 8.59)	7.15 (6.94, 7.36)
<i>Illegal, 2019</i>							
18-25 years	4,868	5,970	2,340,762	1,661,930.8	20.80 (20.21, 21.38)	25.50 (24.86, 26.15)	29.29 (28.48, 30.13)

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26-44 years	3,791	4,889	5,394,268	3,866,804.2	7.03 (6.80, 7.25)	9.06 (8.81, 9.32)	9.80 (9.50, 10.12)
45-64 years	3,084	4,776	6,271,385	5,033,703.2	4.92 (4.74, 5.09)	7.62 (7.40, 7.83)	6.13 (5.91, 6.35)
<i>Illegal, 2020</i>							
18-25 years	5,158	6,345	2,389,051	1,714,357.4	21.59 (21.00, 22.18)	26.56 (25.91, 27.21)	30.09 (29.28, 30.92)
26-44 years	4,341	5,729	5,502,727	3,981,174.2	7.89 (7.65, 8.12)	10.41 (10.14, 10.68)	10.90 (10.58, 11.23)
45-64 years	3,261	5,057	6,328,938	5,073,369.9	5.15 (4.98, 5.33)	7.99 (7.77, 8.21)	6.43 (6.21, 6.65)
<i>Medical, 2020</i>							
18-25 years	6,915	8,955	2,920,100	2,099,786.4	23.68 (23.12, 24.24)	30.67 (30.03, 31.30)	32.93 (32.16, 33.72)
26-44 years	5,486	7,314	6,341,177	4,586,353.5	8.65 (8.42, 8.88)	11.53 (11.27, 11.80)	11.96 (11.65, 12.28)
45-64 years	4,419	6,970	7,434,079	6,000,980.6	5.94 (5.77, 6.12)	9.38 (9.16, 9.60)	7.36 (7.15, 7.58)
<i>Adult and Medical, 2020</i>							
18-25 years	3,609	4,449	1,643,808	1,171,386.9	21.96 (21.24, 22.67)	27.07 (26.27, 27.86)	30.81 (29.82, 31.83)
26-44 years	3,231	4,057	3,749,586	2,699,724.3	8.62 (8.32, 8.91)	10.82 (10.49, 11.15)	11.97 (11.56, 12.39)
45-64 years	2,201	3,002	3,771,078	3,049,613.0	5.84 (5.59, 6.08)	7.96 (7.68, 8.25)	7.22 (6.92, 7.53)
<i>Unknown, 2020</i>							
18-25 years	71	95	293,258	200,377.6	2.42 (1.86, 2.98)	3.24 (2.59, 3.89)	3.54 (2.81, 4.47)
26-44 years	*****	*****	*****	*****	0.52 (0.33, 0.70)	0.80 (0.57, 1.02)	0.66 (0.47, 0.95)
45-64 years	*****	*****	*****	*****	0.13 (0.03, 0.24)	0.13 (0.03, 0.24)	0.16 (0.07, 0.36)
<i>Uncertain, 2020</i>							
18-25 years	2,551	3,209	1,273,559	798,231.5	20.03 (19.25, 20.81)	25.20 (24.33, 26.07)	31.96 (30.74, 33.22)
26-44 years	2,690	3,282	3,324,226	2,126,382.5	8.09 (7.79, 8.40)	9.87 (9.54, 10.21)	12.65 (12.18, 13.14)
45-64 years	787	1,024	1,773,744	1,190,725.7	4.44 (4.13, 4.75)	5.77 (5.42, 6.13)	6.61 (6.16, 7.09)
<i>Illegal, 2021</i>							
18-25 years	4,724	5,925	2,088,007	1,498,409.7	22.62 (21.98, 23.27)	28.38 (27.65, 29.10)	31.53 (30.64, 32.44)
26-44 years	4,771	6,318	4,791,718	3,450,962.7	9.96 (9.67, 10.24)	13.19 (12.86, 13.51)	13.83 (13.44, 14.22)
45-64 years	3,629	5,796	5,344,257	4,287,019.9	6.79 (6.57, 7.01)	10.85 (10.57, 11.12)	8.47 (8.19, 8.75)

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<i>Medical, 2021</i>							
18-25 years	7,823	10,124	3,037,369	2,211,513.0	25.76 (25.19, 26.33)	33.33 (32.68, 33.98)	35.37 (34.60, 36.17)
26-44 years	7,001	9,257	6,940,754	5,040,224.3	10.09 (9.85, 10.32)	13.34 (13.07, 13.61)	13.89 (13.57, 14.22)
45-64 years	5,637	8,823	7,985,546	6,494,418.8	7.06 (6.87, 7.24)	11.05 (10.82, 11.28)	8.68 (8.46, 8.91)
<i>Uncertain, 2021</i>							
18-25 years	1,733	2,202	897,959	515,517.5	19.30 (18.39, 20.21)	24.52 (23.50, 25.55)	33.62 (32.07, 35.24)
26-44 years	2,100	2,715	2,444,288	1,432,975.0	8.59 (8.22, 8.96)	11.11 (10.69, 11.53)	14.65 (14.04, 15.30)
45-64 years	700	974	1,231,183	772,058.3	5.69 (5.26, 6.11)	7.91 (7.41, 8.41)	9.07 (8.42, 9.76)
<i>Adult and Medical, 2021</i>							
18-25 years	4,130	5,162	1,834,943	1,300,122.7	22.51 (21.82, 23.19)	28.13 (27.37, 28.90)	31.77 (30.81, 32.75)
26-44 years	3,782	4,940	4,308,288	3,079,850.4	8.78 (8.50, 9.06)	11.47 (11.15, 11.79)	12.28 (11.89, 12.68)
45-64 years	2,781	4,132	4,226,936	3,412,283.3	6.58 (6.33, 6.82)	9.78 (9.48, 10.07)	8.15 (7.85, 8.46)
<i>Unknown, 2021</i>							
18-25 years	52	71	290,039	205,606.1	1.79 (1.31, 2.28)	2.45 (1.88, 3.02)	2.53 (1.93, 3.32)
26-44 years	26	47	598,501	486,602.0	0.43 (0.27, 0.60)	0.79 (0.56, 1.01)	0.53 (0.36, 0.78)
45-64 years	17	21	460,660	386,667.3	0.37 (0.19, 0.54)	0.46 (0.26, 0.65)	0.44 (0.27, 0.71)
<i>Medical, 2022</i>							
18-25 years	5,331	6,829	2,050,607	1,455,316.2	26.00 (25.30, 26.69)	33.30 (32.51, 34.09)	36.63 (35.66, 37.63)
26-44 years	6,085	8,247	4,733,884	3,318,748.3	12.85 (12.53, 13.18)	17.42 (17.05, 17.80)	18.34 (17.88, 18.80)
45-64 years	5,582	8,932	5,393,514	4,263,111.3	10.35 (10.08, 10.62)	16.56 (16.22, 16.90)	13.09 (12.75, 13.44)
<i>Illegal, 2022</i>							
18-25 years	5,198	6,412	2,203,347	1,548,566.2	23.59 (22.95, 24.23)	29.10 (28.39, 29.81)	33.57 (32.67, 34.49)
26-44 years	5,527	7,502	5,111,315	3,563,235.0	10.81 (10.53, 11.10)	14.68 (14.35, 15.01)	15.51 (15.11, 15.93)
45-64 years	4,546	7,236	5,423,996	4,277,496.1	8.38 (8.14, 8.62)	13.34 (13.03, 13.65)	10.63 (10.32, 10.94)
<i>Adult and Medical, 2022</i>							
18-25 years	8,299	10,530	3,189,322	2,259,513.7	26.02 (25.46, 26.58)	33.02 (32.39, 33.65)	36.73 (35.95, 37.53)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	8,106	10,300	7,601,211	5,342,813.2	10.66 (10.43, 10.90)	13.55 (13.29, 13.81)	15.17 (14.85, 15.51)
45-64 years	6,026	8,532	7,391,165	5,931,439.2	8.15 (7.95, 8.36)	11.54 (11.30, 11.79)	10.16 (9.91, 10.42)
<i>Unknown, 2022</i>							
18-25 years	39	48	309,439	204,053.5	1.26 (0.86, 1.66)	1.55 (1.11, 1.99)	1.91 (1.40, 2.62)
26-44 years	37	39	596,338	458,686.5	0.62 (0.42, 0.82)	0.65 (0.45, 0.86)	0.81 (0.58, 1.11)
45-64 years	13	17	467,298	376,651.8	0.28 (0.13, 0.43)	0.36 (0.19, 0.54)	0.35 (0.20, 0.59)
<i>Uncertain, 2022</i>							
18-25 years	1,019	1,324	557,647	269,985.1	18.27 (17.15, 19.39)	23.74 (22.47, 25.02)	37.74 (35.50, 40.13)
26-44 years	1,365	1,748	1,543,277	757,107.0	8.84 (8.38, 9.31)	11.33 (10.80, 11.86)	18.03 (17.10, 19.01)
45-64 years	485	641	731,418	370,896.7	6.63 (6.04, 7.22)	8.76 (8.09, 9.44)	13.08 (11.96, 14.29)
Inpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	5,249	6,613	2,539,314	1,765,425.1	20.67 (20.11, 21.23)	26.04 (25.42, 26.67)	29.73 (28.94, 30.55)
26-44 years	3,155	3,700	5,438,941	3,793,258.6	5.80 (5.60, 6.00)	6.80 (6.58, 7.02)	8.32 (8.03, 8.61)
45-64 years	2,959	3,371	6,799,442	5,326,838.6	4.35 (4.20, 4.51)	4.96 (4.79, 5.13)	5.55 (5.36, 5.76)
<i>Illegal, 2017</i>							
18-25 years	5,508	6,869	2,578,271	1,797,021.0	21.36 (20.80, 21.93)	26.64 (26.01, 27.27)	30.65 (29.85, 31.47)
26-44 years	3,214	3,752	5,962,589	4,222,346.8	5.39 (5.20, 5.58)	6.29 (6.09, 6.49)	7.61 (7.35, 7.88)
45-64 years	2,686	3,030	7,198,374	5,703,718.9	3.73 (3.59, 3.87)	4.21 (4.06, 4.36)	4.71 (4.53, 4.89)
<i>Unknown, 2017</i>							
18-25 years	171	215	225,886	147,809.3	7.57 (6.44, 8.70)	9.52 (8.25, 10.79)	11.57 (9.96, 13.44)
26-44 years	60	69	384,448	292,860.8	1.56 (1.17, 1.96)	1.79 (1.37, 2.22)	2.05 (1.59, 2.64)
45-64 years	34	36	255,365	208,069.5	1.33 (0.88, 1.78)	1.41 (0.95, 1.87)	1.63 (1.17, 2.29)
<i>Adult and Medical, 2017</i>							
18-25 years	2,533	3,107	1,269,048	884,171.3	19.96 (19.18, 20.74)	24.48 (23.62, 25.34)	28.65 (27.55, 29.79)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	1,828	2,182	2,848,334	2,007,845.1	6.42 (6.12, 6.71)	7.66 (7.34, 7.98)	9.10 (8.70, 9.53)
45-64 years	1,645	1,800	3,046,608	2,424,781.0	5.40 (5.14, 5.66)	5.91 (5.64, 6.18)	6.78 (6.46, 7.12)
<i>Uncertain, 2017</i>							
18-25 years	3,641	4,468	2,021,974	1,347,294.6	18.01 (17.42, 18.59)	22.10 (21.45, 22.74)	27.02 (26.16, 27.92)
26-44 years	2,519	2,852	4,838,356	3,272,530.6	5.21 (5.00, 5.41)	5.89 (5.68, 6.11)	7.70 (7.40, 8.00)
45-64 years	1,145	1,290	2,859,243	2,096,398.8	4.00 (3.77, 4.24)	4.51 (4.27, 4.76)	5.46 (5.15, 5.79)
<i>Uncertain, 2018</i>							
18-25 years	3,150	3,880	1,807,479	1,194,797.2	17.43 (16.82, 18.04)	21.47 (20.79, 22.14)	26.36 (25.46, 27.30)
26-44 years	2,650	3,020	4,440,040	2,976,214.3	5.97 (5.74, 6.20)	6.80 (6.56, 7.04)	8.90 (8.57, 9.25)
45-64 years	1,208	1,359	2,568,387	1,863,940.2	4.70 (4.44, 4.97)	5.29 (5.01, 5.57)	6.48 (6.13, 6.86)
<i>Unknown, 2018</i>							
18-25 years	126	166	236,453	149,199.3	5.33 (4.40, 6.26)	7.02 (5.95, 8.09)	8.45 (7.09, 10.06)
26-44 years	48	62	451,830	330,488.5	1.06 (0.76, 1.36)	1.37 (1.03, 1.71)	1.45 (1.09, 1.93)
45-64 years	32	36	338,231	248,498.6	0.95 (0.62, 1.27)	1.06 (0.72, 1.41)	1.29 (0.91, 1.82)
<i>Adult and Medical, 2018</i>							
18-25 years	2,453	3,119	1,271,028	895,103.9	19.30 (18.54, 20.06)	24.54 (23.68, 25.40)	27.40 (26.34, 28.51)
26-44 years	1,875	2,177	2,835,678	2,014,973.4	6.61 (6.31, 6.91)	7.68 (7.35, 8.00)	9.31 (8.89, 9.74)
45-64 years	1,632	1,801	2,887,813	2,333,889.7	5.65 (5.38, 5.93)	6.24 (5.95, 6.52)	6.99 (6.66, 7.34)
<i>Medical, 2018</i>							
18-25 years	5,432	6,742	2,712,416	1,901,844.0	20.03 (19.49, 20.56)	24.86 (24.26, 25.45)	28.56 (27.81, 29.33)
26-44 years	3,567	4,170	5,820,439	4,075,192.5	6.13 (5.93, 6.33)	7.16 (6.95, 7.38)	8.75 (8.47, 9.04)
45-64 years	3,545	4,108	7,090,955	5,608,269.1	5.00 (4.83, 5.16)	5.79 (5.62, 5.97)	6.32 (6.12, 6.53)
<i>Illegal, 2018</i>							
18-25 years	5,307	6,638	2,533,792	1,782,123.6	20.94 (20.38, 21.51)	26.20 (25.57, 26.83)	29.78 (28.99, 30.59)
26-44 years	3,259	3,710	5,822,773	4,152,919.4	5.60 (5.40, 5.79)	6.37 (6.17, 6.58)	7.85 (7.58, 8.12)
45-64 years	2,962	3,440	6,834,173	5,482,860.8	4.33 (4.18, 4.49)	5.03 (4.87, 5.20)	5.40 (5.21, 5.60)

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<i>Adult and Medical, 2019</i>							
18-25 years	2,601	3,277	1,404,410	989,615.4	18.52 (17.81, 19.23)	23.33 (22.54, 24.13)	26.28 (25.29, 27.31)
26-44 years	2,243	2,617	3,149,090	2,236,806.0	7.12 (6.83, 7.42)	8.31 (7.99, 8.63)	10.03 (9.62, 10.45)
45-64 years	2,068	2,371	3,185,853	2,565,246.2	6.49 (6.21, 6.77)	7.44 (7.14, 7.74)	8.06 (7.72, 8.42)
<i>Uncertain, 2019</i>							
18-25 years	2,651	3,360	1,579,891	1,018,125.4	16.78 (16.14, 17.42)	21.27 (20.55, 21.99)	26.04 (25.07, 27.05)
26-44 years	2,484	2,844	3,991,435	2,608,611.4	6.22 (5.98, 6.47)	7.13 (6.86, 7.39)	9.52 (9.16, 9.90)
45-64 years	1,089	1,246	2,235,417	1,567,667.0	4.87 (4.58, 5.16)	5.57 (5.26, 5.88)	6.95 (6.55, 7.37)
<i>Unknown, 2019</i>							
18-25 years	83	95	268,527	167,755.1	3.09 (2.43, 3.76)	3.54 (2.83, 4.25)	4.95 (3.99, 6.14)
26-44 years	44	51	539,947	403,505.3	0.81 (0.57, 1.06)	0.94 (0.69, 1.20)	1.09 (0.81, 1.47)
45-64 years	29	32	400,970	315,138.9	0.72 (0.46, 0.99)	0.80 (0.52, 1.07)	0.92 (0.64, 1.32)
<i>Medical, 2019</i>							
18-25 years	5,961	7,643	3,089,890	2,149,602.3	19.29 (18.80, 19.78)	24.74 (24.18, 25.29)	27.73 (27.04, 28.44)
26-44 years	4,620	5,467	6,624,629	4,597,469.8	6.97 (6.77, 7.18)	8.25 (8.03, 8.47)	10.05 (9.76, 10.34)
45-64 years	4,802	5,574	7,882,930	6,124,674.6	6.09 (5.92, 6.26)	7.07 (6.89, 7.26)	7.84 (7.62, 8.07)
<i>Illegal, 2019</i>							
18-25 years	4,963	6,281	2,340,762	1,661,930.8	21.20 (20.61, 21.79)	26.83 (26.17, 27.50)	29.86 (29.04, 30.71)
26-44 years	3,488	4,155	5,394,268	3,866,804.2	6.47 (6.25, 6.68)	7.70 (7.47, 7.94)	9.02 (8.73, 9.32)
45-64 years	3,419	4,018	6,271,385	5,033,703.2	5.45 (5.27, 5.63)	6.41 (6.21, 6.60)	6.79 (6.57, 7.02)
<i>Illegal, 2020</i>							
18-25 years	5,282	6,780	2,389,051	1,714,357.4	22.11 (21.51, 22.70)	28.38 (27.70, 29.05)	30.81 (29.99, 31.65)
26-44 years	4,029	4,873	5,502,727	3,981,174.2	7.32 (7.10, 7.55)	8.86 (8.61, 9.10)	10.12 (9.81, 10.44)
45-64 years	3,847	4,593	6,328,938	5,073,369.9	6.08 (5.89, 6.27)	7.26 (7.05, 7.47)	7.58 (7.35, 7.83)
<i>Medical, 2020</i>							
18-25 years	5,922	7,698	2,920,100	2,099,786.4	20.28 (19.76, 20.80)	26.36 (25.77, 26.95)	28.20 (27.49, 28.93)

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26-44 years	4,997	6,019	6,341,177	4,586,353.5	7.88 (7.66, 8.10)	9.49 (9.25, 9.73)	10.90 (10.60, 11.20)
45-64 years	4,916	5,810	7,434,079	6,000,980.6	6.61 (6.43, 6.80)	7.82 (7.61, 8.02)	8.19 (7.97, 8.42)
<i>Adult and Medical, 2020</i>							
18-25 years	3,182	4,122	1,643,808	1,171,386.9	19.36 (18.69, 20.03)	25.08 (24.31, 25.84)	27.16 (26.24, 28.12)
26-44 years	2,798	3,299	3,749,586	2,699,724.3	7.46 (7.19, 7.74)	8.80 (8.50, 9.10)	10.36 (9.99, 10.76)
45-64 years	2,361	2,681	3,771,078	3,049,613.0	6.26 (6.01, 6.51)	7.11 (6.84, 7.38)	7.74 (7.44, 8.06)
<i>Unknown, 2020</i>							
18-25 years	48	64	293,258	200,377.6	1.64 (1.17, 2.10)	2.18 (1.65, 2.72)	2.40 (1.81, 3.18)
26-44 years	30	34	601,201	466,288.0	0.50 (0.32, 0.68)	0.57 (0.38, 0.76)	0.64 (0.45, 0.92)
45-64 years	15	18	449,150	366,597.0	0.33 (0.16, 0.50)	0.40 (0.22, 0.59)	0.41 (0.25, 0.68)
<i>Uncertain, 2020</i>							
18-25 years	2,288	2,974	1,273,559	798,231.5	17.97 (17.23, 18.70)	23.35 (22.51, 24.19)	28.66 (27.51, 29.86)
26-44 years	2,171	2,624	3,324,226	2,126,382.5	6.53 (6.26, 6.81)	7.89 (7.59, 8.20)	10.21 (9.79, 10.65)
45-64 years	872	997	1,773,744	1,190,725.7	4.92 (4.59, 5.24)	5.62 (5.27, 5.97)	7.32 (6.85, 7.83)
<i>Illegal, 2021</i>							
18-25 years	4,960	6,332	2,088,007	1,498,409.7	23.75 (23.09, 24.42)	30.33 (29.58, 31.07)	33.10 (32.19, 34.04)
26-44 years	4,231	5,142	4,791,718	3,450,962.7	8.83 (8.56, 9.10)	10.73 (10.44, 11.02)	12.26 (11.90, 12.64)
45-64 years	3,967	4,782	5,344,257	4,287,019.9	7.42 (7.19, 7.65)	8.95 (8.69, 9.20)	9.25 (8.97, 9.55)
<i>Medical, 2021</i>							
18-25 years	6,698	8,532	3,037,369	2,211,513.0	22.05 (21.52, 22.58)	28.09 (27.49, 28.69)	30.29 (29.57, 31.02)
26-44 years	6,115	7,337	6,940,754	5,040,224.3	8.81 (8.59, 9.03)	10.57 (10.33, 10.81)	12.13 (11.83, 12.44)
45-64 years	6,264	7,441	7,985,546	6,494,418.8	7.84 (7.65, 8.04)	9.32 (9.11, 9.53)	9.65 (9.41, 9.89)
<i>Uncertain, 2021</i>							
18-25 years	1,466	1,846	897,959	515,517.5	16.33 (15.49, 17.16)	20.56 (19.62, 21.49)	28.44 (27.02, 29.93)
26-44 years	1,719	2,054	2,444,288	1,432,975.0	7.03 (6.70, 7.37)	8.40 (8.04, 8.77)	12.00 (11.44, 12.58)
45-64 years	738	826	1,231,183	772,058.3	5.99 (5.56, 6.43)	6.71 (6.25, 7.17)	9.56 (8.89, 10.27)

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<i>Adult and Medical, 2021</i>							
18-25 years	3,626	4,611	1,834,943	1,300,122.7	19.76 (19.12, 20.40)	25.13 (24.40, 25.85)	27.89 (27.00, 28.81)
26-44 years	3,503	4,096	4,308,288	3,079,850.4	8.13 (7.86, 8.40)	9.51 (9.22, 9.80)	11.37 (11.00, 11.76)
45-64 years	3,047	3,603	4,226,936	3,412,283.3	7.21 (6.95, 7.46)	8.52 (8.25, 8.80)	8.93 (8.62, 9.25)
<i>Unknown, 2021</i>							
18-25 years	41	47	290,039	205,606.1	1.41 (0.98, 1.85)	1.62 (1.16, 2.08)	1.99 (1.47, 2.71)
26-44 years	12	14	598,501	486,602.0	0.20 (0.09, 0.31)	0.23 (0.11, 0.36)	0.25 (0.14, 0.43)
45-64 years	16	16	460,660	386,667.3	0.35 (0.18, 0.52)	0.35 (0.18, 0.52)	0.41 (0.25, 0.68)
<i>Medical, 2022</i>							
18-25 years	4,077	5,062	2,050,607	1,455,316.2	19.88 (19.27, 20.49)	24.69 (24.01, 25.36)	28.01 (27.17, 28.89)
26-44 years	4,271	5,071	4,733,884	3,318,748.3	9.02 (8.75, 9.29)	10.71 (10.42, 11.01)	12.87 (12.49, 13.26)
45-64 years	4,470	5,310	5,393,514	4,263,111.3	8.29 (8.04, 8.53)	9.85 (9.58, 10.11)	10.49 (10.18, 10.80)
<i>Illegal, 2022</i>							
18-25 years	4,630	5,890	2,203,347	1,548,566.2	21.01 (20.41, 21.62)	26.73 (26.05, 27.41)	29.90 (29.05, 30.77)
26-44 years	4,060	4,930	5,111,315	3,563,235.0	7.94 (7.70, 8.19)	9.65 (9.38, 9.91)	11.39 (11.05, 11.75)
45-64 years	3,826	4,659	5,423,996	4,277,496.1	7.05 (6.83, 7.28)	8.59 (8.34, 8.84)	8.94 (8.67, 9.23)
<i>Adult and Medical, 2022</i>							
18-25 years	5,652	6,987	3,189,322	2,259,513.7	17.72 (17.26, 18.18)	21.91 (21.39, 22.42)	25.01 (24.37, 25.67)
26-44 years	5,428	6,364	7,601,211	5,342,813.2	7.14 (6.95, 7.33)	8.37 (8.17, 8.58)	10.16 (9.89, 10.43)
45-64 years	4,575	5,267	7,391,165	5,931,439.2	6.19 (6.01, 6.37)	7.13 (6.93, 7.32)	7.71 (7.49, 7.94)
<i>Unknown, 2022</i>							
18-25 years	18	23	309,439	204,053.5	0.58 (0.31, 0.85)	0.74 (0.44, 1.05)	0.88 (0.56, 1.40)
26-44 years	*****	*****	*****	*****	0.27 (0.14, 0.40)	0.29 (0.15, 0.42)	0.35 (0.21, 0.57)
45-64 years	*****	*****	*****	*****	0.21 (0.08, 0.35)	0.26 (0.11, 0.40)	0.27 (0.14, 0.49)
<i>Uncertain, 2022</i>							
18-25 years	642	820	557,647	269,985.1	11.51 (10.62, 12.40)	14.70 (13.70, 15.71)	23.78 (22.01, 25.69)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	883	1,052	1,543,277	757,107.0	5.72 (5.34, 6.10)	6.82 (6.40, 7.23)	11.66 (10.92, 12.46)
45-64 years	336	371	731,418	370,896.7	4.59 (4.10, 5.08)	5.07 (4.56, 5.59)	9.06 (8.14, 10.08)
Outpatient Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	18,796	164,037	2,539,314	1,765,425.1	74.02 (72.97, 75.07)	645.99 (642.97, 649.01)	106.47 (104.96, 108.00)
26-44 years	10,457	58,813	5,438,941	3,793,258.6	19.23 (18.86, 19.59)	108.13 (107.26, 109.00)	27.57 (27.04, 28.10)
45-64 years	8,152	32,020	6,799,442	5,326,838.6	11.99 (11.73, 12.25)	47.09 (46.58, 47.61)	15.30 (14.98, 15.64)
<i>Illegal, 2017</i>							
18-25 years	15,399	115,620	2,578,271	1,797,021.0	59.73 (58.79, 60.67)	448.44 (445.91, 450.97)	85.69 (84.35, 87.06)
26-44 years	9,415	41,932	5,962,589	4,222,346.8	15.79 (15.47, 16.11)	70.33 (69.65, 71.00)	22.30 (21.85, 22.75)
45-64 years	6,966	23,498	7,198,374	5,703,718.9	9.68 (9.45, 9.90)	32.64 (32.23, 33.06)	12.21 (11.93, 12.50)
<i>Unknown, 2017</i>							
18-25 years	449	3,122	225,886	147,809.3	19.88 (18.04, 21.71)	138.21 (133.40, 143.03)	30.38 (27.69, 33.32)
26-44 years	128	634	384,448	292,860.8	3.33 (2.75, 3.91)	16.49 (15.21, 17.77)	4.37 (3.68, 5.20)
45-64 years	59	247	255,365	208,069.5	2.31 (1.72, 2.90)	9.67 (8.47, 10.88)	2.84 (2.20, 3.66)
<i>Adult and Medical, 2017</i>							
18-25 years	7,707	61,681	1,269,048	884,171.3	60.73 (59.38, 62.08)	486.04 (482.30, 489.78)	87.17 (85.24, 89.13)
26-44 years	5,779	28,774	2,848,334	2,007,845.1	20.29 (19.77, 20.81)	101.02 (99.86, 102.18)	28.78 (28.05, 29.53)
45-64 years	4,269	13,822	3,046,608	2,424,781.0	14.01 (13.59, 14.43)	45.37 (44.61, 46.12)	17.61 (17.09, 18.14)
<i>Uncertain, 2017</i>							
18-25 years	11,026	83,648	2,021,974	1,347,294.6	54.53 (53.52, 55.55)	413.69 (410.95, 416.44)	81.84 (80.32, 83.38)
26-44 years	7,944	39,416	4,838,356	3,272,530.6	16.42 (16.06, 16.78)	81.47 (80.66, 82.27)	24.27 (23.75, 24.81)
45-64 years	2,790	11,587	2,859,243	2,096,398.8	9.76 (9.40, 10.12)	40.52 (39.79, 41.26)	13.31 (12.82, 13.81)
<i>Uncertain, 2018</i>							
18-25 years	10,658	79,146	1,807,479	1,194,797.2	58.97 (57.85, 60.08)	437.88 (434.90, 440.86)	89.20 (87.53, 90.91)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	8,975	44,473	4,440,040	2,976,214.3	20.21 (19.80, 20.63)	100.16 (99.24, 101.09)	30.16 (29.54, 30.79)
45-64 years	3,147	12,932	2,568,387	1,863,940.2	12.25 (11.82, 12.68)	50.35 (49.49, 51.22)	16.88 (16.30, 17.48)
<i>Unknown, 2018</i>							
18-25 years	361	3,356	236,453	149,199.3	15.27 (13.69, 16.84)	141.93 (137.16, 146.70)	24.20 (21.82, 26.83)
26-44 years	121	811	451,830	330,488.5	2.68 (2.20, 3.16)	17.95 (16.71, 19.18)	3.66 (3.06, 4.38)
45-64 years	77	348	338,231	248,498.6	2.28 (1.77, 2.78)	10.29 (9.21, 11.37)	3.10 (2.48, 3.87)
<i>Adult and Medical, 2018</i>							
18-25 years	8,498	62,838	1,271,028	895,103.9	66.86 (65.44, 68.28)	494.39 (490.62, 498.16)	94.94 (92.94, 96.98)
26-44 years	6,840	31,975	2,835,678	2,014,973.4	24.12 (23.55, 24.69)	112.76 (111.53, 113.99)	33.95 (33.15, 34.76)
45-64 years	4,986	15,720	2,887,813	2,333,889.7	17.27 (16.79, 17.74)	54.44 (53.59, 55.28)	21.36 (20.78, 21.96)
<i>Medical, 2018</i>							
18-25 years	20,957	177,679	2,712,416	1,901,844.0	77.26 (76.22, 78.31)	655.06 (652.11, 658.00)	110.19 (108.71, 111.70)
26-44 years	13,544	75,044	5,820,439	4,075,192.5	23.27 (22.88, 23.66)	128.93 (128.02, 129.85)	33.24 (32.68, 33.80)
45-64 years	10,798	40,974	7,090,955	5,608,269.1	15.23 (14.94, 15.51)	57.78 (57.23, 58.34)	19.25 (18.89, 19.62)
<i>Illegal, 2018</i>							
18-25 years	16,168	118,446	2,533,792	1,782,123.6	63.81 (62.83, 64.79)	467.47 (464.87, 470.06)	90.72 (89.34, 92.13)
26-44 years	10,597	47,522	5,822,773	4,152,919.4	18.20 (17.85, 18.55)	81.61 (80.88, 82.34)	25.52 (25.04, 26.01)
45-64 years	8,190	26,537	6,834,173	5,482,860.8	11.98 (11.72, 12.24)	38.83 (38.36, 39.30)	14.94 (14.62, 15.26)
<i>Adult and Medical, 2019</i>							
18-25 years	10,210	68,933	1,404,410	989,615.4	72.70 (71.29, 74.10)	490.83 (487.26, 494.41)	103.17 (101.19, 105.19)
26-44 years	9,030	40,170	3,149,090	2,236,806.0	28.67 (28.08, 29.27)	127.56 (126.32, 128.80)	40.37 (39.55, 41.21)
45-64 years	6,467	19,557	3,185,853	2,565,246.2	20.30 (19.80, 20.79)	61.39 (60.53, 62.24)	25.21 (24.60, 25.83)
<i>Uncertain, 2019</i>							
18-25 years	9,829	68,565	1,579,891	1,018,125.4	62.21 (60.99, 63.44)	433.99 (430.81, 437.16)	96.54 (94.65, 98.47)
26-44 years	9,800	48,406	3,991,435	2,608,611.4	24.55 (24.07, 25.04)	121.27 (120.20, 122.35)	37.57 (36.83, 38.32)
45-64 years	3,051	13,467	2,235,417	1,567,667.0	13.65 (13.16, 14.13)	60.24 (59.23, 61.26)	19.46 (18.78, 20.17)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Unknown, 2019</i>							
18-25 years	262	1,570	268,527	167,755.1	9.76 (8.58, 10.94)	58.47 (55.58, 61.35)	15.62 (13.84, 17.63)
26-44 years	130	718	539,947	403,505.3	2.41 (1.99, 2.82)	13.30 (12.33, 14.27)	3.22 (2.71, 3.83)
45-64 years	54	174	400,970	315,138.9	1.35 (0.99, 1.71)	4.34 (3.69, 4.98)	1.71 (1.31, 2.24)
<i>Medical, 2019</i>							
18-25 years	23,546	181,730	3,089,890	2,149,602.3	76.20 (75.23, 77.17)	588.14 (585.52, 590.77)	109.54 (108.15, 110.94)
26-44 years	17,865	93,235	6,624,629	4,597,469.8	26.97 (26.57, 27.36)	140.74 (139.84, 141.64)	38.86 (38.29, 39.43)
45-64 years	14,188	52,988	7,882,930	6,124,674.6	18.00 (17.70, 18.29)	67.22 (66.65, 67.79)	23.17 (22.79, 23.55)
<i>Illegal, 2019</i>							
18-25 years	15,570	105,608	2,340,762	1,661,930.8	66.52 (65.48, 67.56)	451.17 (448.51, 453.83)	93.69 (92.23, 95.17)
26-44 years	11,960	52,737	5,394,268	3,866,804.2	22.17 (21.77, 22.57)	97.76 (96.93, 98.60)	30.93 (30.38, 31.49)
45-64 years	9,118	31,112	6,271,385	5,033,703.2	14.54 (14.24, 14.84)	49.61 (49.06, 50.16)	18.11 (17.75, 18.49)
<i>Illegal, 2020</i>							
18-25 years	16,671	110,368	2,389,051	1,714,357.4	69.78 (68.73, 70.84)	461.97 (459.31, 464.64)	97.24 (95.78, 98.73)
26-44 years	15,484	83,234	5,502,727	3,981,174.2	28.14 (27.70, 28.58)	151.26 (150.24, 152.28)	38.89 (38.29, 39.51)
45-64 years	11,167	43,296	6,328,938	5,073,369.9	17.64 (17.32, 17.97)	68.41 (67.77, 69.05)	22.01 (21.61, 22.42)
<i>Medical, 2020</i>							
18-25 years	21,869	160,878	2,920,100	2,099,786.4	74.89 (73.90, 75.88)	550.93 (548.32, 553.55)	104.15 (102.78, 105.54)
26-44 years	18,585	99,345	6,341,177	4,586,353.5	29.31 (28.89, 29.73)	156.67 (155.70, 157.63)	40.52 (39.94, 41.11)
45-64 years	14,901	57,613	7,434,079	6,000,980.6	20.04 (19.72, 20.37)	77.50 (76.87, 78.13)	24.83 (24.44, 25.23)
<i>Adult and Medical, 2020</i>							
18-25 years	12,522	82,257	1,643,808	1,171,386.9	76.18 (74.85, 77.51)	500.41 (497.07, 503.74)	106.90 (105.04, 108.79)
26-44 years	11,950	55,554	3,749,586	2,699,724.3	31.87 (31.30, 32.44)	148.16 (146.94, 149.38)	44.26 (43.48, 45.06)
45-64 years	8,316	27,215	3,771,078	3,049,613.0	22.05 (21.58, 22.53)	72.17 (71.31, 73.02)	27.27 (26.69, 27.86)
<i>Unknown, 2020</i>							
18-25 years	186	1,145	293,258	200,377.6	6.34 (5.43, 7.25)	39.04 (36.79, 41.30)	9.28 (8.04, 10.72)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

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26-44 years	85	523	601,201	466,288.0	1.41 (1.11, 1.71)	8.70 (7.95, 9.44)	1.82 (1.47, 2.25)
45-64 years	35	132	449,150	366,597.0	0.78 (0.52, 1.04)	2.94 (2.44, 3.44)	0.95 (0.69, 1.33)
<i>Uncertain, 2020</i>							
18-25 years	7,839	50,739	1,273,559	798,231.5	61.55 (60.19, 62.91)	398.40 (395.01, 401.80)	98.20 (96.05, 100.40)
26-44 years	8,665	43,293	3,324,226	2,126,382.5	26.07 (25.52, 26.61)	130.23 (129.02, 131.45)	40.75 (39.90, 41.62)
45-64 years	2,505	11,014	1,773,744	1,190,725.7	14.12 (13.57, 14.68)	62.09 (60.94, 63.25)	21.04 (20.23, 21.88)
<i>Illegal, 2021</i>							
18-25 years	16,101	102,471	2,088,007	1,498,409.7	77.11 (75.93, 78.30)	490.76 (487.83, 493.69)	107.45 (105.81, 109.13)
26-44 years	18,277	126,997	4,791,718	3,450,962.7	38.14 (37.59, 38.69)	265.03 (263.60, 266.47)	52.96 (52.20, 53.74)
45-64 years	12,246	56,325	5,344,257	4,287,019.9	22.91 (22.51, 23.32)	105.39 (104.53, 106.26)	28.57 (28.06, 29.08)
<i>Medical, 2021</i>							
18-25 years	26,114	174,167	3,037,369	2,211,513.0	85.98 (84.94, 87.01)	573.41 (570.80, 576.03)	118.08 (116.66, 119.52)
26-44 years	25,092	127,369	6,940,754	5,040,224.3	36.15 (35.71, 36.60)	183.51 (182.51, 184.51)	49.78 (49.17, 50.40)
45-64 years	20,173	78,447	7,985,546	6,494,418.8	25.26 (24.91, 25.61)	98.24 (97.55, 98.92)	31.06 (30.64, 31.49)
<i>Uncertain, 2021</i>							
18-25 years	5,787	36,030	897,959	515,517.5	64.45 (62.79, 66.10)	401.24 (397.18, 405.30)	112.26 (109.40, 115.19)
26-44 years	7,542	37,342	2,444,288	1,432,975.0	30.86 (30.16, 31.55)	152.77 (151.23, 154.31)	52.63 (51.46, 53.83)
45-64 years	2,076	8,804	1,231,183	772,058.3	16.86 (16.14, 17.59)	71.51 (70.02, 73.00)	26.89 (25.76, 28.07)
<i>Adult and Medical, 2021</i>							
18-25 years	15,745	97,069	1,834,943	1,300,122.7	85.81 (84.47, 87.14)	529.00 (525.76, 532.24)	121.10 (119.23, 123.01)
26-44 years	16,319	72,553	4,308,288	3,079,850.4	37.88 (37.30, 38.46)	168.40 (167.19, 169.62)	52.99 (52.18, 53.81)
45-64 years	11,433	35,504	4,226,936	3,412,283.3	27.05 (26.55, 27.54)	83.99 (83.12, 84.86)	33.51 (32.90, 34.13)
<i>Unknown, 2021</i>							
18-25 years	151	819	290,039	205,606.1	5.21 (4.38, 6.04)	28.24 (26.31, 30.17)	7.34 (6.26, 8.61)
26-44 years	79	258	598,501	486,602.0	1.32 (1.03, 1.61)	4.31 (3.78, 4.84)	1.62 (1.30, 2.02)
45-64 years	41	103	460,660	386,667.3	0.89 (0.62, 1.16)	2.24 (1.80, 2.67)	1.06 (0.78, 1.44)

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<i>Medical, 2022</i>							
18-25 years	16,904	95,602	2,050,607	1,455,316.2	82.43 (81.20, 83.67)	466.21 (463.33, 469.10)	116.15 (114.42, 117.92)
26-44 years	19,371	80,170	4,733,884	3,318,748.3	40.92 (40.34, 41.49)	169.35 (168.19, 170.52)	58.37 (57.55, 59.20)
45-64 years	17,856	55,322	5,393,514	4,263,111.3	33.11 (32.62, 33.59)	102.57 (101.72, 103.42)	41.88 (41.28, 42.50)
<i>Illegal, 2022</i>							
18-25 years	17,193	106,748	2,203,347	1,548,566.2	78.03 (76.87, 79.19)	484.48 (481.65, 487.32)	111.03 (109.38, 112.70)
26-44 years	20,962	149,856	5,111,315	3,563,235.0	41.01 (40.46, 41.57)	293.18 (291.72, 294.65)	58.83 (58.04, 59.63)
45-64 years	14,448	69,658	5,423,996	4,277,496.1	26.64 (26.20, 27.07)	128.43 (127.48, 129.37)	33.78 (33.23, 34.33)
<i>Adult and Medical, 2022</i>							
18-25 years	28,519	185,390	3,189,322	2,259,513.7	89.42 (88.39, 90.45)	581.28 (578.72, 583.85)	126.22 (124.76, 127.69)
26-44 years	31,699	159,256	7,601,211	5,342,813.2	41.70 (41.24, 42.16)	209.51 (208.50, 210.53)	59.33 (58.68, 59.99)
45-64 years	21,472	78,693	7,391,165	5,931,439.2	29.05 (28.66, 29.44)	106.47 (105.73, 107.21)	36.20 (35.72, 36.69)
<i>Unknown, 2022</i>							
18-25 years	110	474	309,439	204,053.5	3.55 (2.89, 4.22)	15.32 (13.94, 16.70)	5.39 (4.47, 6.50)
26-44 years	89	338	596,338	458,686.5	1.49 (1.18, 1.80)	5.67 (5.06, 6.27)	1.94 (1.58, 2.39)
45-64 years	49	169	467,298	376,651.8	1.05 (0.75, 1.34)	3.62 (3.07, 4.16)	1.30 (0.98, 1.72)
<i>Uncertain, 2022</i>							
18-25 years	3,110	17,917	557,647	269,985.1	55.77 (53.82, 57.72)	321.30 (316.67, 325.92)	115.19 (111.21, 119.31)
26-44 years	4,829	23,296	1,543,277	757,107.0	31.29 (30.41, 32.17)	150.95 (149.03, 152.88)	63.78 (62.01, 65.61)
45-64 years	1,338	5,291	731,418	370,896.7	18.29 (17.31, 19.27)	72.34 (70.40, 74.28)	36.07 (34.19, 38.06)
Institutional Care Setting							
<i>Any cannabis-related disorder or cannabis poisoning</i>							
<i>Medical, 2017</i>							
18-25 years	1,955	2,501	2,539,314	1,765,425.1	7.70 (7.36, 8.04)	9.85 (9.46, 10.23)	11.07 (10.59, 11.58)
26-44 years	839	1,008	5,438,941	3,793,258.6	1.54 (1.44, 1.65)	1.85 (1.74, 1.97)	2.21 (2.07, 2.37)
45-64 years	656	765	6,799,442	5,326,838.6	0.96 (0.89, 1.04)	1.13 (1.05, 1.20)	1.23 (1.14, 1.33)

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<i>Illegal, 2017</i>							
18-25 years	1,489	1,857	2,578,271	1,797,021.0	5.78 (5.48, 6.07)	7.20 (6.88, 7.53)	8.29 (7.88, 8.72)
26-44 years	707	847	5,962,589	4,222,346.8	1.19 (1.10, 1.27)	1.42 (1.32, 1.52)	1.67 (1.56, 1.80)
45-64 years	698	814	7,198,374	5,703,718.9	0.97 (0.90, 1.04)	1.13 (1.05, 1.21)	1.22 (1.14, 1.32)
<i>Unknown, 2017</i>							
18-25 years	*****	*****	*****	*****	0.31 (0.08, 0.54)	0.40 (0.14, 0.66)	0.47 (0.23, 0.99)
26-44 years	*****	*****	*****	*****	0.05 (-0.02, 0.12)	0.05 (-0.02, 0.12)	0.07 (0.02, 0.27)
45-64 years	*****	*****	*****	*****	0.08 (-0.03, 0.19)	0.08 (-0.03, 0.19)	0.10 (0.02, 0.38)
<i>Adult and Medical, 2017</i>							
18-25 years	581	742	1,269,048	884,171.3	4.58 (4.21, 4.95)	5.85 (5.43, 6.27)	6.57 (6.06, 7.13)
26-44 years	315	374	2,848,334	2,007,845.1	1.11 (0.98, 1.23)	1.31 (1.18, 1.45)	1.57 (1.40, 1.75)
45-64 years	190	221	3,046,608	2,424,781.0	0.62 (0.53, 0.71)	0.73 (0.63, 0.82)	0.78 (0.68, 0.90)
<i>Uncertain, 2017</i>							
18-25 years	846	1,079	2,021,974	1,347,294.6	4.18 (3.90, 4.47)	5.34 (5.02, 5.65)	6.28 (5.87, 6.72)
26-44 years	408	447	4,838,356	3,272,530.6	0.84 (0.76, 0.93)	0.92 (0.84, 1.01)	1.25 (1.13, 1.37)
45-64 years	146	158	2,859,243	2,096,398.8	0.51 (0.43, 0.59)	0.55 (0.47, 0.64)	0.70 (0.59, 0.82)
<i>Uncertain, 2018</i>							
18-25 years	884	1,186	1,807,479	1,194,797.2	4.89 (4.57, 5.21)	6.56 (6.19, 6.93)	7.40 (6.93, 7.90)
26-44 years	450	514	4,440,040	2,976,214.3	1.01 (0.92, 1.11)	1.16 (1.06, 1.26)	1.51 (1.38, 1.66)
45-64 years	184	218	2,568,387	1,863,940.2	0.72 (0.61, 0.82)	0.85 (0.74, 0.96)	0.99 (0.85, 1.14)
<i>Unknown, 2018</i>							
18-25 years	*****	*****	*****	*****	0.47 (0.19, 0.74)	0.51 (0.22, 0.79)	0.74 (0.41, 1.33)
26-44 years	*****	*****	*****	*****	0.02 (-0.02, 0.07)	0.07 (-0.01, 0.14)	0.03 (0.00, 0.21)
45-64 years	0	0	338,231	248,498.6	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
<i>Adult and Medical, 2018</i>							
18-25 years	586	808	1,271,028	895,103.9	4.61 (4.24, 4.98)	6.36 (5.92, 6.80)	6.55 (6.04, 7.10)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	299	381	2,835,678	2,014,973.4	1.05 (0.93, 1.17)	1.34 (1.21, 1.48)	1.48 (1.32, 1.66)
45-64 years	192	221	2,887,813	2,333,889.7	0.66 (0.57, 0.76)	0.77 (0.66, 0.87)	0.82 (0.71, 0.95)
<i>Medical, 2018</i>							
18-25 years	2,084	2,694	2,712,416	1,901,844.0	7.68 (7.35, 8.01)	9.93 (9.56, 10.31)	10.96 (10.50, 11.44)
26-44 years	984	1,200	5,820,439	4,075,192.5	1.69 (1.58, 1.80)	2.06 (1.95, 2.18)	2.41 (2.27, 2.57)
45-64 years	852	1,002	7,090,955	5,608,269.1	1.20 (1.12, 1.28)	1.41 (1.33, 1.50)	1.52 (1.42, 1.62)
<i>Illegal, 2018</i>							
18-25 years	1,453	1,833	2,533,792	1,782,123.6	5.73 (5.44, 6.03)	7.23 (6.90, 7.57)	8.15 (7.74, 8.58)
26-44 years	840	1,027	5,822,773	4,152,919.4	1.44 (1.35, 1.54)	1.76 (1.66, 1.87)	2.02 (1.89, 2.16)
45-64 years	737	871	6,834,173	5,482,860.8	1.08 (1.00, 1.16)	1.27 (1.19, 1.36)	1.34 (1.25, 1.44)
<i>Adult and Medical, 2019</i>							
18-25 years	587	823	1,404,410	989,615.4	4.18 (3.84, 4.52)	5.86 (5.46, 6.26)	5.93 (5.47, 6.43)
26-44 years	429	530	3,149,090	2,236,806.0	1.36 (1.23, 1.49)	1.68 (1.54, 1.83)	1.92 (1.74, 2.11)
45-64 years	305	357	3,185,853	2,565,246.2	0.96 (0.85, 1.06)	1.12 (1.00, 1.24)	1.19 (1.06, 1.33)
<i>Uncertain, 2019</i>							
18-25 years	785	1,071	1,579,891	1,018,125.4	4.97 (4.62, 5.32)	6.78 (6.37, 7.18)	7.71 (7.19, 8.27)
26-44 years	586	714	3,991,435	2,608,611.4	1.47 (1.35, 1.59)	1.79 (1.66, 1.92)	2.25 (2.07, 2.44)
45-64 years	182	209	2,235,417	1,567,667.0	0.81 (0.70, 0.93)	0.93 (0.81, 1.06)	1.16 (1.00, 1.34)
<i>Unknown, 2019</i>							
18-25 years	*****	*****	*****	*****	0.37 (0.14, 0.60)	0.48 (0.22, 0.75)	0.60 (0.32, 1.11)
26-44 years	*****	*****	*****	*****	0.06 (-0.01, 0.12)	0.07 (0.00, 0.15)	0.07 (0.02, 0.23)
45-64 years	0	0	400,970	315,138.9	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
<i>Medical, 2019</i>							
18-25 years	2,359	3,181	3,089,890	2,149,602.3	7.63 (7.33, 7.94)	10.29 (9.94, 10.65)	10.97 (10.54, 11.43)
26-44 years	1,360	1,691	6,624,629	4,597,469.8	2.05 (1.94, 2.16)	2.55 (2.43, 2.67)	2.96 (2.81, 3.12)
45-64 years	1,143	1,376	7,882,930	6,124,674.6	1.45 (1.37, 1.53)	1.75 (1.65, 1.84)	1.87 (1.76, 1.98)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Illegal, 2019</i>							
18-25 years	1,233	1,562	2,340,762	1,661,930.8	5.27 (4.97, 5.56)	6.67 (6.34, 7.00)	7.42 (7.02, 7.84)
26-44 years	772	961	5,394,268	3,866,804.2	1.43 (1.33, 1.53)	1.78 (1.67, 1.89)	2.00 (1.86, 2.14)
45-64 years	801	970	6,271,385	5,033,703.2	1.28 (1.19, 1.37)	1.55 (1.45, 1.64)	1.59 (1.48, 1.71)
<i>Illegal, 2020</i>							
18-25 years	1,335	1,736	2,389,051	1,714,357.4	5.59 (5.29, 5.89)	7.27 (6.92, 7.61)	7.79 (7.38, 8.22)
26-44 years	1,179	1,467	5,502,727	3,981,174.2	2.14 (2.02, 2.26)	2.67 (2.53, 2.80)	2.96 (2.80, 3.14)
45-64 years	982	1,222	6,328,938	5,073,369.9	1.55 (1.45, 1.65)	1.93 (1.82, 2.04)	1.94 (1.82, 2.06)
<i>Medical, 2020</i>							
18-25 years	2,068	2,794	2,920,100	2,099,786.4	7.08 (6.78, 7.39)	9.57 (9.21, 9.92)	9.85 (9.43, 10.28)
26-44 years	1,451	1,823	6,341,177	4,586,353.5	2.29 (2.17, 2.41)	2.87 (2.74, 3.01)	3.16 (3.01, 3.33)
45-64 years	1,239	1,484	7,434,079	6,000,980.6	1.67 (1.57, 1.76)	2.00 (1.89, 2.10)	2.06 (1.95, 2.18)
<i>Adult and Medical, 2020</i>							
18-25 years	787	1,091	1,643,808	1,171,386.9	4.79 (4.45, 5.12)	6.64 (6.24, 7.03)	6.72 (6.27, 7.20)
26-44 years	570	737	3,749,586	2,699,724.3	1.52 (1.40, 1.64)	1.97 (1.82, 2.11)	2.11 (1.94, 2.29)
45-64 years	452	556	3,771,078	3,049,613.0	1.20 (1.09, 1.31)	1.47 (1.35, 1.60)	1.48 (1.35, 1.63)
<i>Unknown, 2020</i>							
18-25 years	*****	*****	*****	*****	0.48 (0.23, 0.73)	0.58 (0.30, 0.86)	0.70 (0.41, 1.18)
26-44 years	*****	*****	*****	*****	0.05 (-0.01, 0.11)	0.05 (-0.01, 0.11)	0.06 (0.02, 0.20)
45-64 years	0	0	449,150	366,597.0	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)
<i>Uncertain, 2020</i>							
18-25 years	690	893	1,273,559	798,231.5	5.42 (5.01, 5.82)	7.01 (6.55, 7.47)	8.64 (8.02, 9.31)
26-44 years	536	626	3,324,226	2,126,382.5	1.61 (1.48, 1.75)	1.88 (1.74, 2.03)	2.52 (2.32, 2.74)
45-64 years	191	238	1,773,744	1,190,725.7	1.08 (0.92, 1.23)	1.34 (1.17, 1.51)	1.60 (1.39, 1.85)
<i>Illegal, 2021</i>							
18-25 years	1,134	1,430	2,088,007	1,498,409.7	5.43 (5.11, 5.75)	6.85 (6.49, 7.20)	7.57 (7.14, 8.02)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
26-44 years	1,448	1,840	4,791,718	3,450,962.7	3.02 (2.87, 3.18)	3.84 (3.66, 4.02)	4.20 (3.99, 4.42)
45-64 years	1,102	1,387	5,344,257	4,287,019.9	2.06 (1.94, 2.18)	2.60 (2.46, 2.73)	2.57 (2.42, 2.73)
<i>Medical, 2021</i>							
18-25 years	2,111	2,748	3,037,369	2,211,513.0	6.95 (6.65, 7.25)	9.05 (8.71, 9.39)	9.55 (9.15, 9.96)
26-44 years	1,777	2,341	6,940,754	5,040,224.3	2.56 (2.44, 2.68)	3.37 (3.24, 3.51)	3.53 (3.37, 3.69)
45-64 years	1,481	1,815	7,985,546	6,494,418.8	1.85 (1.76, 1.95)	2.27 (2.17, 2.38)	2.28 (2.17, 2.40)
<i>Uncertain, 2021</i>							
18-25 years	519	716	897,959	515,517.5	5.78 (5.28, 6.28)	7.97 (7.39, 8.56)	10.07 (9.24, 10.97)
26-44 years	500	585	2,444,288	1,432,975.0	2.05 (1.87, 2.22)	2.39 (2.20, 2.59)	3.49 (3.20, 3.81)
45-64 years	190	240	1,231,183	772,058.3	1.54 (1.32, 1.76)	1.95 (1.70, 2.20)	2.46 (2.13, 2.84)
<i>Adult and Medical, 2021</i>							
18-25 years	1,037	1,337	1,834,943	1,300,122.7	5.65 (5.31, 6.00)	7.29 (6.90, 7.68)	7.98 (7.51, 8.48)
26-44 years	824	1,021	4,308,288	3,079,850.4	1.91 (1.78, 2.04)	2.37 (2.22, 2.52)	2.68 (2.50, 2.86)
45-64 years	678	836	4,226,936	3,412,283.3	1.60 (1.48, 1.72)	1.98 (1.84, 2.11)	1.99 (1.84, 2.14)
<i>Unknown, 2021</i>							
18-25 years	*****	*****	*****	*****	0.55 (0.28, 0.82)	0.59 (0.31, 0.86)	0.78 (0.48, 1.27)
26-44 years	*****	*****	*****	*****	0.03 (-0.01, 0.08)	0.03 (-0.01, 0.08)	0.04 (0.01, 0.16)
45-64 years	*****	*****	*****	*****	0.07 (-0.01, 0.14)	0.07 (-0.01, 0.14)	0.08 (0.03, 0.24)
<i>Medical, 2022</i>							
18-25 years	1,143	1,457	2,050,607	1,455,316.2	5.57 (5.25, 5.90)	7.11 (6.74, 7.47)	7.85 (7.41, 8.32)
26-44 years	1,307	1,698	4,733,884	3,318,748.3	2.76 (2.61, 2.91)	3.59 (3.42, 3.76)	3.94 (3.73, 4.16)
45-64 years	1,287	1,606	5,393,514	4,263,111.3	2.39 (2.26, 2.52)	2.98 (2.83, 3.12)	3.02 (2.86, 3.19)
<i>Illegal, 2022</i>							
18-25 years	1,128	1,446	2,203,347	1,548,566.2	5.12 (4.82, 5.42)	6.56 (6.22, 6.90)	7.28 (6.87, 7.72)
26-44 years	1,338	1,779	5,111,315	3,563,235.0	2.62 (2.48, 2.76)	3.48 (3.32, 3.64)	3.76 (3.56, 3.96)
45-64 years	1,117	1,417	5,423,996	4,277,496.1	2.06 (1.94, 2.18)	2.61 (2.48, 2.75)	2.61 (2.46, 2.77)

Table 4. Summary of Cannabis-related Encounters in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022, by Legality Status*, Year, and Age Group - Sensitivity Analysis**

	Number of Patients	Number of Episodes	Number of Eligible Members ¹	Total Eligible Member-Years ¹	Number of Patients per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Episodes per 10,000 Eligible Members (95% Confidence Interval) ¹	Number of Patients per 10,000 Eligible Member-Years (95% Confidence Interval) ¹
<i>Adult and Medical, 2022</i>							
18-25 years	1,792	2,349	3,189,322	2,259,513.7	5.62 (5.36, 5.88)	7.37 (7.07, 7.66)	7.93 (7.57, 8.31)
26-44 years	1,422	1,761	7,601,211	5,342,813.2	1.87 (1.77, 1.97)	2.32 (2.21, 2.42)	2.66 (2.53, 2.80)
45-64 years	1,071	1,270	7,391,165	5,931,439.2	1.45 (1.36, 1.54)	1.72 (1.62, 1.81)	1.81 (1.70, 1.92)
<i>Unknown, 2022</i>							
18-25 years	*****	*****	*****	*****	0.52 (0.26, 0.77)	0.74 (0.44, 1.05)	0.78 (0.48, 1.28)
26-44 years	*****	*****	*****	*****	0.10 (0.02, 0.18)	0.12 (0.03, 0.20)	0.13 (0.06, 0.29)
45-64 years	*****	*****	*****	*****	0.09 (0.00, 0.17)	0.09 (0.00, 0.17)	0.11 (0.04, 0.28)
<i>Uncertain, 2022</i>							
18-25 years	321	433	557,647	269,985.1	5.76 (5.13, 6.39)	7.76 (7.03, 8.50)	11.89 (10.66, 13.26)
26-44 years	337	417	1,543,277	757,107.0	2.18 (1.95, 2.42)	2.70 (2.44, 2.96)	4.45 (4.00, 4.95)
45-64 years	116	143	731,418	370,896.7	1.59 (1.30, 1.87)	1.96 (1.63, 2.28)	3.13 (2.61, 3.75)

¹Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

*Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown.

**In the sensitivity analysis, we defined an additional Uncertain category, for encounters in which the most recent postal date available based on patients' residence was observed after the encounter date for cannabis-related disorders or poisonings.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 5. Summary of Episode-Level¹ Cohort Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022

	Any Care Setting		Emergency Department Care Setting		Inpatient Care Setting		Outpatient Care Setting		Institutional Care Setting	
	Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements										
Enrolled at any point during the query period	165,792,182	N/A	165,792,182	N/A	165,792,182	N/A	165,792,182	N/A	165,792,182	N/A
Had required coverage type (medical and/or drug coverage)	153,005,813	12,786,369	153,005,813	12,786,369	153,005,813	12,786,369	153,005,813	12,786,369	153,005,813	12,786,369
Enrolled during specified age range	115,541,093	37,464,720	115,541,093	37,464,720	115,541,093	37,464,720	115,541,093	37,464,720	115,541,093	37,464,720
Had requestable medical charts	115,541,093	0	115,541,093	0	115,541,093	0	115,541,093	0	115,541,093	0
Met demographic requirements (sex, race, and Hispanic origin)	115,438,662	102,431	115,438,662	102,431	115,438,662	102,431	115,438,662	102,431	115,438,662	102,431
Members with a valid index event										
Had any cohort-defining claim during the query period	1,308,490	114,130,172	351,811	115,086,851	304,875	115,133,787	939,955	114,498,707	80,078	115,358,584
Cohort episodes with a valid index date										
with cohort-identifying codes during the query period	7,537,641	N/A	502,972	N/A	408,847	N/A	6,678,239	N/A	116,703	N/A

Table 5. Summary of Episode-Level¹ Cohort Attrition in the Sentinel Distributed Database from January 1, 2017 to December 31, 2022

	Any Care Setting		Emergency Department Care Setting		Inpatient Care Setting		Outpatient Care Setting		Institutional Care Setting	
	Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning		Any cannabis-related disorder or cannabis poisoning	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Claim recorded during specified age range	6,658,151	879,490	454,019	48,953	363,478	45,369	5,891,058	787,181	103,934	12,769
Episode defining index claim recorded during the query period	6,658,151	0	454,019	0	363,478	0	5,891,058	0	103,934	0
Cohort episodes with required pre-index history										
Had sufficient pre-index continuous enrollment	5,621,024	1,037,127	360,953	93,066	297,913	65,565	5,004,666	886,392	83,073	20,861
Met inclusion and exclusion criteria	5,621,024	0	360,953	0	297,913	0	5,004,666	0	83,073	0
Had sufficient post-index continuous enrollment	5,621,024	0	360,953	0	297,913	0	5,004,666	0	83,073	0
Final cohort										
Number of members	966,204	N/A	255,157	N/A	222,330	N/A	699,635	N/A	56,762	N/A
Number of episodes	5,621,024	N/A	360,953	N/A	297,913	N/A	5,004,666	N/A	83,073	N/A

¹Cohorts are formed by first evaluating enrollment and demographic requirements as well as index events among members, then evaluating index dates, pre-index history, and post-index follow-up among episodes. Because of this, the number remaining often increases from the member- to episode-level steps.

N/A: Not applicable

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (March 26, 2024)

Masked DP ID	DP Start Date	DP End Date ¹
DP01	01/01/2008	9/30/2023
DP02	01/01/2006	6/30/2023
DP03	01/01/2008	6/30/2023
DP04	01/01/2007	4/30/2023

¹End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Events in this Request

Code	Description	Code Category	Code Type
Cannabis Related Disorders			
F12	Cannabis related disorders	Diagnosis	ICD-10-CM
F12.1	Cannabis abuse	Diagnosis	ICD-10-CM
F12.10	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F12.11	Cannabis abuse, in remission	Diagnosis	ICD-10-CM
F12.12	Cannabis abuse with intoxication	Diagnosis	ICD-10-CM
F12.120	Cannabis abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.121	Cannabis abuse with intoxication delirium	Diagnosis	ICD-10-CM
F12.122	Cannabis abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.129	Cannabis abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.13	Cannabis abuse with withdrawal	Diagnosis	ICD-10-CM
F12.15	Cannabis abuse with psychotic disorder	Diagnosis	ICD-10-CM
F12.150	Cannabis abuse with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.151	Cannabis abuse with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.159	Cannabis abuse with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.18	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.180	Cannabis abuse with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.188	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.19	Cannabis abuse with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.2	Cannabis dependence	Diagnosis	ICD-10-CM
F12.20	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F12.21	Cannabis dependence, in remission	Diagnosis	ICD-10-CM
F12.22	Cannabis dependence with intoxication	Diagnosis	ICD-10-CM
F12.220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM
F12.222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.23	Cannabis dependence with withdrawal	Diagnosis	ICD-10-CM
F12.25	Cannabis dependence with psychotic disorder	Diagnosis	ICD-10-CM
F12.250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.28	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.29	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.9	Cannabis use, unspecified	Diagnosis	ICD-10-CM
F12.90	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F12.91	Cannabis use, unspecified, in remission	Diagnosis	ICD-10-CM
F12.92	Cannabis use, unspecified with intoxication	Diagnosis	ICD-10-CM
F12.920	Cannabis use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.921	Cannabis use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F12.922	Cannabis use, unspecified with intoxication with perceptual	Diagnosis	ICD-10-CM
F12.929	Cannabis use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.93	Cannabis use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F12.95	Cannabis use, unspecified with psychotic disorder	Diagnosis	ICD-10-CM
F12.950	Cannabis use, unspecified with psychotic disorder with delusions	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Events in this Request

Code	Description	Code Category	Code Type
F12.951	Cannabis use, unspecified with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.959	Cannabis use, unspecified with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.98	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.980	Cannabis use, unspecified with anxiety disorder	Diagnosis	ICD-10-CM
F12.988	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.99	Cannabis use, unspecified with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
Cannabis Poisoning			
T40.7	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.71	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.711	Poisoning by cannabis, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.711A	Poisoning by cannabis, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.711D	Poisoning by cannabis, accidental (unintentional), subsequent	Diagnosis	ICD-10-CM
T40.711S	Poisoning by cannabis, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.712	Poisoning by cannabis, intentional self-harm	Diagnosis	ICD-10-CM
T40.712A	Poisoning by cannabis, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.712D	Poisoning by cannabis, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.712S	Poisoning by cannabis, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.713	Poisoning by cannabis, assault	Diagnosis	ICD-10-CM
T40.713A	Poisoning by cannabis, assault, initial encounter	Diagnosis	ICD-10-CM
T40.713D	Poisoning by cannabis, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.713S	Poisoning by cannabis, assault, sequela	Diagnosis	ICD-10-CM
T40.714	Poisoning by cannabis, undetermined	Diagnosis	ICD-10-CM
T40.714A	Poisoning by cannabis, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.714D	Poisoning by cannabis, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.714S	Poisoning by cannabis, undetermined, sequela	Diagnosis	ICD-10-CM
T40.715	Adverse effect of cannabis	Diagnosis	ICD-10-CM
T40.715A	Adverse effect of cannabis, initial encounter	Diagnosis	ICD-10-CM
T40.715D	Adverse effect of cannabis, subsequent encounter	Diagnosis	ICD-10-CM
T40.715S	Adverse effect of cannabis, sequela	Diagnosis	ICD-10-CM
T40.716	Underdosing of cannabis	Diagnosis	ICD-10-CM
T40.716A	Underdosing of cannabis, initial encounter	Diagnosis	ICD-10-CM
T40.716D	Underdosing of cannabis, subsequent encounter	Diagnosis	ICD-10-CM
T40.716S	Underdosing of cannabis, sequela	Diagnosis	ICD-10-CM
T40.72	Poisoning by, adverse effect of and underdosing of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.721	Poisoning by synthetic cannabinoids, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.721A	Poisoning by synthetic cannabinoids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.721D	Poisoning by synthetic cannabinoids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.721S	Poisoning by synthetic cannabinoids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.722	Poisoning by synthetic cannabinoids, intentional self-harm	Diagnosis	ICD-10-CM
T40.722A	Poisoning by synthetic cannabinoids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Events in this Request

Code	Description	Code Category	Code Type
T40.722D	Poisoning by synthetic cannabinoids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.722S	Poisoning by synthetic cannabinoids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.723	Poisoning by synthetic cannabinoids, assault	Diagnosis	ICD-10-CM
T40.723A	Poisoning by synthetic cannabinoids, assault, initial encounter	Diagnosis	ICD-10-CM
T40.723D	Poisoning by synthetic cannabinoids, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.723S	Poisoning by synthetic cannabinoids, assault, sequela	Diagnosis	ICD-10-CM
T40.724	Poisoning by synthetic cannabinoids, undetermined	Diagnosis	ICD-10-CM
T40.724A	Poisoning by synthetic cannabinoids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.724D	Poisoning by synthetic cannabinoids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.724S	Poisoning by synthetic cannabinoids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.725	Adverse effect of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.725A	Adverse effect of synthetic cannabinoids, initial encounter	Diagnosis	ICD-10-CM
T40.725D	Adverse effect of synthetic cannabinoids, subsequent encounter	Diagnosis	ICD-10-CM
T40.725S	Adverse effect of synthetic cannabinoids, sequela	Diagnosis	ICD-10-CM
T40.726	Underdosing of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.726A	Underdosing of synthetic cannabinoids, initial encounter	Diagnosis	ICD-10-CM
T40.726D	Underdosing of synthetic cannabinoids, subsequent encounter	Diagnosis	ICD-10-CM
T40.726S	Underdosing of synthetic cannabinoids, sequela	Diagnosis	ICD-10-CM
T40.7X	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.7X1	Poisoning by cannabis (derivatives), accidental (unintentional)	Diagnosis	ICD-10-CM
T40.7X1A	Poisoning by cannabis (derivatives), accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.7X1D	Poisoning by cannabis (derivatives), accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.7X1S	Poisoning by cannabis (derivatives), accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.7X2	Poisoning by cannabis (derivatives), intentional self-harm	Diagnosis	ICD-10-CM
T40.7X2A	Poisoning by cannabis (derivatives), intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.7X2D	Poisoning by cannabis (derivatives), intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X2S	Poisoning by cannabis (derivatives), intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.7X3	Poisoning by cannabis (derivatives), assault	Diagnosis	ICD-10-CM
T40.7X3A	Poisoning by cannabis (derivatives), assault, initial encounter	Diagnosis	ICD-10-CM
T40.7X3D	Poisoning by cannabis (derivatives), assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X3S	Poisoning by cannabis (derivatives), assault, sequela	Diagnosis	ICD-10-CM
T40.7X4	Poisoning by cannabis (derivatives), undetermined	Diagnosis	ICD-10-CM
T40.7X4A	Poisoning by cannabis (derivatives), undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.7X4D	Poisoning by cannabis (derivatives), undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X4S	Poisoning by cannabis (derivatives), undetermined, sequela	Diagnosis	ICD-10-CM
T40.7X5	Adverse effect of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.7X5A	Adverse effect of cannabis (derivatives), initial encounter	Diagnosis	ICD-10-CM
T40.7X5D	Adverse effect of cannabis (derivatives), subsequent encounter	Diagnosis	ICD-10-CM
T40.7X5S	Adverse effect of cannabis (derivatives), sequela	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Events in this Request

Code	Description	Code Category	Code Type
T40.7X6	Underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.7X6A	Underdosing of cannabis (derivatives), initial encounter	Diagnosis	ICD-10-CM
T40.7X6D	Underdosing of cannabis (derivatives), subsequent encounter	Diagnosis	ICD-10-CM
T40.7X6S	Underdosing of cannabis (derivatives), sequela	Diagnosis	ICD-10-CM

Specifications for Type 1 Request: cder_mpl1p_wp086

The Center for Drug Evaluation and Research (CDER) has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool 13.0.1 to estimate rates and proportions of individuals with encounters for cannabis-related disorders or poisoning in the Sentinel Distributed Database, stratified by legality.

Query period: 01/01/2017 - 12/31/2022
Coverage requirement: Medical Coverage Only
Pre-index enrollment requirement: 183
Post-index requirement: 0
Enrollment gap: 45
Age groups: 18-25, 26-44, 45-64 years
Stratifications: legality_prim*year (PLUS), legality_prim*year*age (PLUS), legality_sens*year (PLUS), legality_sens*year*age (PLUS)

Censor output categorization: n/a
Restrictions: Male and Female sex only
Envelope macro: Reclassify encounters during inpatient stay as inpatient
Freeze data: Yes

The ED dx will be **excluded** from the emergency department care setting scenario due to the index of an inpatient care setting within 3 days (0 encounters, 0 individuals). The IP dx will be **included** in the inpatient care setting scenario (1 encounter, 1 individual).

This amounts to 1 encounter in the any care setting scenario contributed by 1 individual.

Exposure/Event

Scenario	Index Exposure/ Event	Cohort definition	Washout period	Care setting	Principal diagnosis position	Create Baseline Table?	Censor enrollment at evidence of
1	Any cannabis-related disorder or poisoning, in inpatient, ED (with subsequent IP exclusion combo), institutional or outpatient care setting	02	0	*Inpatient hospital stay; *Emergency department encounter; *Ambulatory visit; *Other ambulatory visit *Non-acute institutional stays	Any	No	*Death; *Data Partner End Date; *Query End Date
2	Any cannabis-related disorder or poisoning, in ED (with subsequent IP exclusion combo) setting	02	0	See combo	Any	No	*Death; *Data Partner End Date; *Query End Date
3	Any cannabis-related disorder or poisoning, in inpatient care setting	02	0	*Inpatient hospital stay	Any	No	*Death; *Data Partner End Date; *Query End Date
4	Any cannabis-related disorder or poisoning, in outpatient care setting	02	0	*Ambulatory visit; *Other ambulatory visit	Any	No	*Death; *Data Partner End Date; *Query End Date
5	Any cannabis-related disorder or poisoning, in non-acute institutional care setting	02	0	*Non-acute institutional stays	Any	No	*Death; *Data Partner End Date; *Query End Date

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.
 NDC codes are checked against First Data Bank's FDB MedKnowledge®.

Appendix D. Legality Status*, by State and Year

State	2017	2018	2019	2020	2021	2022
Alabama	Illegal	Illegal	Illegal	Illegal	Illegal	Medical
Alaska	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Arizona	Medical	Medical	Medical	Medical	Adult and Medical	Adult and Medical
Arkansas	Medical	Medical	Medical	Medical	Medical	Medical
California	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Colorado	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Connecticut	Medical	Medical	Medical	Medical	Medical	Adult and Medical
Delaware	Medical	Medical	Medical	Medical	Medical	Medical
District of Columbia	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Florida	Medical	Medical	Medical	Medical	Medical	Medical
Georgia	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Hawaii	Medical	Medical	Medical	Medical	Medical	Medical
Idaho	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Illinois	Medical	Medical	Medical	Adult and Medical	Adult and Medical	Adult and Medical
Indiana	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Iowa	Illegal	Medical	Medical	Medical	Medical	Medical
Kansas	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Kentucky	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Louisiana	Medical	Medical	Medical	Medical	Medical	Medical
Maine	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Maryland	Medical	Medical	Medical	Medical	Medical	Medical
Massachusetts	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Michigan	Medical	Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Minnesota	Medical	Medical	Medical	Medical	Medical	Medical
Mississippi	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Missouri	Illegal	Illegal	Medical	Medical	Medical	Medical
Montana	Medical	Medical	Medical	Medical	Adult and Medical	Adult and Medical
Nebraska	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Nevada	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
New Hampshire	Medical	Medical	Medical	Medical	Medical	Medical
New Jersey	Medical	Medical	Medical	Medical	Medical	Adult and Medical
New Mexico	Medical	Medical	Medical	Medical	Medical	Adult and Medical
New York	Medical	Medical	Medical	Medical	Medical	Adult and Medical

Appendix D. Legality Status*, by State and Year

State	2017	2018	2019	2020	2021	2022
North Carolina	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
North Dakota	Medical	Medical	Medical	Medical	Medical	Medical
Ohio	Medical	Medical	Medical	Medical	Medical	Medical
Oklahoma	Illegal	Illegal	Medical	Medical	Medical	Medical
Oregon	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Pennsylvania	Medical	Medical	Medical	Medical	Medical	Medical
Rhode Island	Medical	Medical	Medical	Medical	Medical	Medical
South Carolina	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
South Dakota	Illegal	Illegal	Illegal	Illegal	Medical	Medical
Tennessee	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Texas	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Utah	Illegal	Illegal	Medical	Medical	Medical	Medical
Vermont	Medical	Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Virginia	Illegal	Illegal	Illegal	Illegal	Medical	Adult and Medical
Washington	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
West Virginia	Illegal	Medical	Medical	Medical	Medical	Medical
Wisconsin	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Wyoming	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
American Samoa	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Guam	Medical	Medical	Medical	Adult and Medical	Adult and Medical	Adult and Medical
Northern Marianas	Illegal	Illegal	Adult and Medical	Adult and Medical	Adult and Medical	Adult and Medical
Puerto Rico	Medical	Medical	Medical	Medical	Medical	Medical
Virgin Islands	Illegal	Illegal	Illegal	Illegal	Illegal	Illegal
Invalid	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Missing	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

*Cannabis legal status was determined based on the latest cannabis law enacted (i.e., the law is agreed upon and made official) as of the first day of each calendar year and categorized as Adult and Medical Use (legalized use of cannabis for medical purposes and for recreational use), Medical Use (legalized use of cannabis for medical purposes), Illegal (no public cannabis access), and Unknown.