



Appendix:

New York State

Opioid Annual Report

2019

New York State Department of Health

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## Methods

### Indicators

| Indicator   | Definition  | ICD Codes/Detailed Explanation  | Data Source      |
|---|---|---|------------------|
| Overdose deaths involving any opioid                                | All poisoning deaths involving opioids, all manners, using all causes of death  | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first-listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND Any opioid in all other causes of death: T40.0, T40.1, T40.2, T40.3, T40.4, T40.6                        | Vital Statistics |
| Overdose deaths involving heroin                                    | Poisoning deaths involving heroin, all manners, using all causes of death   | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first-listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND Heroin in all other causes of death: T40.1   | Vital Statistics |
| Overdose deaths involving opioid pain relievers                     | Poisoning deaths involving opioid pain relievers, all manners, using all causes of death  | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first-listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND Any opioid pain relievers in all other causes of death: T40.2, T40.3, T40.4                              | Vital Statistics |
| Overdose deaths involving commonly prescribed opioids               | Poisoning deaths involving commonly prescribed opioids, all manners, using all causes of death  | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first-listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND any commonly prescribed opioid in all other causes of death: T40.2, T40.3 (e.g., hydrocodone, oxycodone) | Vital Statistics |
| Overdose deaths involving any synthetic opioid other than methadone | Poisoning deaths involving any synthetic opioid other than methadone, all manners, using all causes of death  | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first-listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND Any other synthetic narcotics in all other causes of death: T40.4  | Vital Statistics |
| All emergency department visits involving opioid overdose           | All outpatient (not being admitted) emergency department visits involving opioid poisonings, all manners, principal diagnosis or first-listed cause of injury | ICD-10-CM: Principal Diagnosis: T40.0, T40.1, T40.2, T40.3, T40.4, T40.6 (Excludes 'adverse effect' or 'underdosing' as indicated by the values of 5 and 6 in the 6th character; and 'sequela' as indicated by the value of 'S' in the 7th character; e.g. T400X5S, T400X6S)                            | SPARCS           |
| Emergency department visits involving heroin overdose               | Outpatient (not being admitted) emergency department visits involving heroin poisoning, all manners, principal diagnosis or first-listed cause of injury      | ICD-10-CM: Principal Diagnosis: T40.1 (Excludes 'adverse effect' or 'underdosing' as indicated by the values of 5 and 6 in the 6th character; and 'sequela' as indicated by the value of 'S' in the 7th character; e.g. T401X5S, T401X6S)   | SPARCS           |
| Hospitalizations involving heroin overdose                          | Hospitalizations involving heroin poisonings, all manners, principal diagnosis or first-listed cause of injury  | ICD-10-CM: Principal Diagnosis: T40.1 (Excludes 'adverse effect' or 'underdosing' as indicated by the values of 5 and 6 in the 6th character; and 'sequela' as indicated by the value of 'S' in the 7th character; e.g. T401X5S, T401X6S)   | SPARCS           |

| Indicator  | Definition   | ICD Codes/Detailed Explanation   | Data Source                    |
|--|--|--|--------------------------------|
| Hospital discharges involving opioid use (including abuse, poisoning, dependence and unspecified use)  | Opioid use includes abuse, poisoning, dependence and unspecified use.  | ICD-10-CM: Opioid abuse (Principal Diagnosis: F1110, F11120, F11121, F11122, F11129, F1114, F11150, F11151, F11159, F11181, F11182, F11188, F1119); Opioid dependence and unspecified use (Principal Diagnosis: F1120, F11220, F11221, F11222, F11229, F1123, F1124, F11250, F11251, F11259, F11281, F11282, F11288, F1129, F1190, F11920, F11921, F11922, F11929, F1193, F1194, F11950, F11951, F11959, F11981, F11982, F11988, F1199); Opioid poisoning (Principal Diagnosis: T40.0, T40.1, T40.2, T40.3, T40.4, T40.6 (Excludes ‘adverse effect’ or ‘underdosing’ as indicated by the values of 5 and 6 in the 6th character; and ‘sequela’ as indicated by the value of ‘S’ in the 7th character; e.g. T400X5S, T400X6S)   | SPARCS                         |
| Opioid burden (including outpatient ED visits and hospital discharges for non-fatal opioid overdose, abuse, dependence, and unspecified use; and opioid overdose deaths) | Opioid burden includes opioid overdose deaths, non-fatal outpatient ED visits and hospital discharges involving opioid abuse, poisoning, dependence and unspecified use.   | Underlying cause of death, determined from the field designated as such, or, where missing or unknown, from the first listed multiple cause of death field: X40-X44, X60-X64, X85, Y10-Y14 AND Any opioid in all other causes of death: T40.0, T40.1, T40.2, T40.3, T40.4, T40.6<br><br>ICD-10-CM: Opioid abuse (Principal Diagnosis: F1110, F11120, F11121, F11122, F11129, F1114, F11150, F11151, F11159, F11181, F11182, F11188, F1119); Opioid dependence and unspecified use (Principal Diagnosis: F1120, F11220, F11221, F11222, F11229, F1123, F1124, F11250, F11251, F11259, F11281, F11282, F11288, F1129, F1190, F11920, F11921, F11922, F11929, F1193, F1194, F11950, F11951, F11959, F11981, F11982, F11988, F1199); Opioid poisoning (Principal Diagnosis: T40.0, T40.1, T40.2, T40.3, T40.4, T40.6 (Excludes ‘adverse effect’ or ‘underdosing’ as indicated by the values of 5 and 6 in the 6th character; and ‘sequela’ as indicated by the value of ‘S’ in the 7th character; e.g. T400X5S, T400X6S) | Vital Statistics<br><br>SPARCS |
| Newborns with neonatal withdrawal syndrome and/or affected by maternal use of drugs of addiction   | Neonatal withdrawal symptoms from maternal use of drugs of addiction, and/or newborns affected by maternal use of drugs of addiction (other than cocaine)  | ICD-10-CM: Principal Diagnosis: Z38 (liveborn infants) AND P96.1 (neonatal withdrawal symptoms from maternal use of drugs of addiction) or P04.49 (newborns affected by maternal use of drugs of addiction (other than cocaine)) in any other diagnoses  | SPARCS                         |
| Unique clients admitted for any opioid (including heroin)  | Unique clients admitted to OASAS-certified chemical dependence treatment programs with heroin or any other synthetic or semi-synthetic opioid reported as the primary, secondary, or tertiary substance of abuse at admission, aggregated by client ZIP code of residence. | Other opioid includes synthetic and semi-synthetic opioids. The OASAS Client Data System (CDS) collects specific data on methadone, buprenorphine, oxycodone, as well as “other synthetic opioids.” Other synthetic opioids also include drugs such as hydrocodone, pharmaceutical and/or non-pharmaceutical fentanyl.<br><br>Clients may also have heroin or any other substance as the primary, secondary or tertiary substance of abuse at admission.<br><br>A unique client is identified by the client’s date of birth, last four digits of Social Security number, gender, and the first two letters of last name, and year admitted, across the whole state.  | OASAS Client Data System       |

| Indicator   | Definition   | ICD Codes/Detailed Explanation   | Data Source   |
|---|--|--|---|
| Naloxone administration report by Emergency Medical Services (EMS)    | Each naloxone administration report represents an EMS encounter when the administration of naloxone was given during the course of patient care. Multiple doses may be dispensed within a single administration report. Often, administrations of naloxone were given for patients presenting with similar signs and symptoms of a potential opioid overdose; final diagnosis of an opioid overdose is completed during definitive care or final evaluation. | Medication administered is equal to naloxone.  | NYS e-PCR data, and other regional EMS Program data collection methods    |
| Naloxone administration report by law enforcement                     | Each naloxone administration report represents a naloxone administration instance in which a trained law enforcement officer administered one or more doses of naloxone to a person suspected of an opioid overdose.   | Not applicable   | NYS Law Enforcement Naloxone Administration Database                      |
| Naloxone administration report by registered COOP program             | Each naloxone administration report represents a naloxone administration instance in which a trained responder administered one or more doses of naloxone to a person suspected of an opioid overdose. Naloxone administration instances that are not reported to the AIDS Institute by the registered COOP programs are excluded from the county report.  | Not applicable   | NYS Community Opioid Overdose Prevention Naloxone Administration Database |
| Prevalence of illicit drug use other than marijuana in the past month | Prevalence of respondents reporting use of illicit drugs other than marijuana in the past month.   | Illicit Drug Use Other Than Marijuana Use includes the misuse of prescription psychotherapeutics or the use of cocaine (including crack), heroin, hallucinogens, inhalants, or methamphetamine. Misuse of prescription psychotherapeutics is defined as use in any way not directed by a doctor, including use without a prescription of one's own; use in greater amounts, more often, or longer than told; or use in any other way not directed by a doctor. Prescription psychotherapeutics do not include over-the-counter drugs. State estimates, along with the 95 percent Bayesian confidence (credible) intervals, are based on a survey-weighted hierarchical Bayes estimation approach and generated by Markov Chain Monte Carlo techniques. | National Survey on Drug Use and Health (NSDUH)                            |
| Prevalence of heroin use in the past year                             | Prevalence of respondents reporting use of heroin in the past year.  | State estimates, along with the 95 percent Bayesian confidence (credible) intervals, are based on a survey-weighted hierarchical Bayes estimation approach and generated by Markov Chain Monte Carlo techniques.   | NSDUH   |

| Indicator  | Definition   | ICD Codes/Detailed Explanation   | Data Source                                     |
|--|--|--|---|
| Prevalence of pain reliever misuse in the past year            | Prevalence of respondents reporting misuse of pain relievers in the past year. | Misuse of prescription psychotherapeutics is defined as use in any way not directed by a doctor, including use without a prescription of one's own; use in greater amounts, more often, or longer than told; or use in any other way not directed by a doctor. Prescription psychotherapeutics do not include over-the-counter drugs. State estimates, along with the 95 percent Bayesian confidence (credible) intervals, are based on a survey-weighted hierarchical Bayes estimation approach and generated by Markov Chain Monte Carlo techniques. | NSDUH   |
| Percentage of high school students reporting ever using heroin | Percentage of respondents indicating that they had used heroin                 | <p>Survey question: "During your life, how many times have you used heroin (also called smack, junk, or China White)?"</p> <p>Responses: "A. 0 times B. 1 or 2 times C. 3 to 9 times D. 10 to 19 times E. 20 to 39 times F. 40 or more times"</p>  | Youth Risk Behavior Surveillance System (YRBSS) |

| Indicator   | Numerator   | Denominator   |
|---|---|---|
| Opioid <sup>e</sup> analgesic prescription rate <sup>a</sup> per 1,000 population   | Schedule II, III and IV opioid analgesic prescriptions <sup>c</sup> dispensed to state residents.   | Midyear population for the calendar year under surveillance from US census  |
| Commonly prescribed opioid analgesic prescription rate <sup>a</sup> per 1,000 population  | Six commonly prescribed schedule II, III and IV opioid analgesic prescriptions <sup>c</sup> dispensed to state residents  | Midyear population for the calendar year under surveillance from US census  |
| Percentage of incidents when patients were opioid naïve and received long-acting opioid prescription <sup>e,f</sup>   | Number of incidents when patients were opioid naïve and received long-acting opioid prescription <sup>e,f</sup>   | Number of opioid naïve incidents <sup>c</sup>   |
| Percentage of incidents when patients were opioid naïve and received an opioid prescription <sup>e,g</sup> of more than seven days  | Number of incidents when patients were opioid naïve and received an opioid prescription <sup>e,g</sup> of more than seven days  | Number of opioid naïve incidents <sup>c</sup>   |
| Patients prescribed opioid <sup>e</sup> analgesics from five or more prescribers and dispensed at five or more pharmacies in a six-month period, rate <sup>a</sup> per 100,000 population | Number of patients receiving prescriptions <sup>c</sup> for opioid analgesics from five or more prescribers and that are dispensed at five or more pharmacies in a six-month period | Midyear population for the calendar year under surveillance from US census  |
| Patients who received at least one buprenorphine prescription for opioid use disorder, rate <sup>a</sup> per 1,000 population   | Patients who received at least one buprenorphine prescription for opioid use disorder within the state  | Midyear population for the calendar year under surveillance from US census  |
| Patients prescribed one or more opioid <sup>e</sup> analgesics with a total daily dose of $\geq 90$ MME <sup>b</sup> on at least one day  | Patients prescribed one or more opioid analgesics prescription <sup>d</sup> with a total daily dose of $\geq 90$ MME on at least one day  | Patients who received one or more opioid analgesic prescriptions <sup>d</sup> during a given year                 |
| Patients with two or more calendar days of overlapping opioid <sup>e</sup> analgesic and benzodiazepine prescriptions   | Patients with two or more calendar days of overlapping opioid analgesic and benzodiazepine prescriptions <sup>c</sup>   | Patients with at least one prescription <sup>c</sup> for opioid analgesics or benzodiazepines during a given year |
| Patients with two or more calendar days of overlapping opioid <sup>e</sup> analgesic prescriptions  | Patients with two or more calendar days of overlapping opioid analgesic prescriptions <sup>c</sup>  | Patients with at least one prescription <sup>c</sup> for opioid analgesics during a given year                    |

<sup>a</sup>: The rates presented are controlled substance prescription rates per population. These numbers are federally-standardized indicators used to measure types of progress toward combating the controlled substance epidemic in certain states. They are not rates of the number of different people who are receiving a controlled substance prescription in a certain population. Rather, they are rates of the number of specific controlled substance prescriptions written and dispensed within the period. For example, if a county has a rate of 25, that means there were 25 prescriptions per 1,000 people in the population. However, it does not necessarily mean that 25 out of 1,000 individuals received a prescription; all 25 controlled substance prescriptions could have been for one individual.

<sup>b</sup>: Morphine milligram equivalent

<sup>c</sup>: Buprenorphine prescriptions for the treatment of substance use disorder were excluded.

<sup>d</sup>: Buprenorphine prescriptions for the pain and the treatment of substance use disorder were excluded.

<sup>e</sup>: A comprehensive controlled substance list including drugs from CDC and NYS PMP was used for data analysis

<sup>f</sup>: Patient received index prescription of long-acting opioid and opioid naïve.

<sup>g</sup>: Patient received index prescription of more than seven days and opioid naïve.

## Data Sources

### **CDC WONDER:**

State level opioid overdose mortality data were obtained from the Centers for Disease Control and Prevention Multiple Cause of Death Data query (CDC WONDER).

For information about CDC WONDER race/ethnicity groups, including which groups are included in the “other” category, please see:

<https://wonder.cdc.gov/wonder/help/mcd.html#Race%20and%20Ethnicity%20Questions>

### **Vital Records (Vital Statistics) Vital Event Registration:**

New York State consists of two registration areas, New York City (NYC) and New York State Exclusive of New York City (also referred to as Rest of State). NYC includes the five counties of Bronx, Kings (Brooklyn), New York (Manhattan), Queens and Richmond (Staten Island); the remaining 57 counties comprise New York State Exclusive of NYC. The NYS DOH Bureau of Vital Records processes data from live birth, death, fetal death and marriage certificates recorded in New York State Exclusive of NYC. Through a cooperative agreement, the NYS DOH receives data on live births, deaths, and fetal deaths recorded in NYC from the New York City Department of Health and Mental Hygiene (NYCDOHMH), and on live births and deaths recorded outside of New York State to residents of New York State from other states and Canada.

In general, vital event indicators for NYC geographical areas reported by the NYS DOH and the NYCDOHMH may be different because the former includes possibly all NYC residents' events, regardless of where they took place, and the latter reports events to NYC residents that took place in NYC.

Vital statistics mortality data include up to 20 causes of death. Frequencies are based on decedents' county of residence, not the county where death occurred. This report's mortality indicators reflect all manners and all causes of death. Data are frequently updated as additional confirmations on the causes of death and new records for all NYS resident deaths are received. Therefore, the frequencies published in subsequent reports may also differ due to timing and/or completeness of data.

### **Statewide Planning and Research Cooperative System (SPARCS):**

SPARCS collects information about hospitalizations and ED visits through the patient discharge data system. Outpatient ED visits are events that did not result in admission to the hospital. Each hospitalization and outpatient ED visit receives an ICD-10-CM code at discharge that indicates the primary reason for the occurrence. There is also a first-listed cause, external cause of injury, and up to 24 other diagnosis codes recorded to further describe the hospitalization or ED visits.

Statistics in these tables are based on the primary diagnosis and first-listed cause of injury unless otherwise noted. An individual can have more than one hospitalization or ED visit. Numbers and rates are based on the number of discharges and not on the number of individuals seen. The frequencies are based on patients' county of residence, not the county where the incident occurred. County of residence was assigned based on ZIP code for cases in which patient county of residence was listed as unknown or missing, but a valid NY ZIP code was present. For

indicators related to the ED data, the numbers represent ED visits for opioid overdose patients who were not subsequently admitted into the hospital.

For information about SPARCS race/ethnicity groups, including which groups are included in the “other” category, please see:

- SPARCS Inpatient Data Dictionary (pages 54 and 55)  
<https://www.health.ny.gov/statistics/sparcs/sysdoc/inpatientoutputdd.pdf>
- SPARCS Outpatient Data Dictionary (pages 70 and 71)  
<https://www.health.ny.gov/statistics/sparcs/sysdoc/outpatientoutputdd.pdf>

### **New York State Emergency Medical Services (EMS) Data:**

New York State maintains an EMS patient care data repository, in which all e-PCR data are captured from across the State, with some exceptions. Data for Suffolk County are obtained through the Suffolk County Regional EMS Medical Control, to which all medication administrations by EMS—including naloxone—are required to be reported. Data for Nassau County is primarily provided by the Nassau County Police Department, based on reports submitted by Nassau County first response agencies and most ambulance transport agencies. The EMS data from Nassau County Police Department are combined with e-PCR data submitted by other agencies not included in the Nassau County Police Department reporting. As of January 2018, EMS naloxone administrations for Nassau County have been updated with the Nassau County Police Department data for all quarters and years shown, and are likely to show increases compared to previously-issued data. Finally, part of the data for Richmond County is obtained directly from the EMS agency, due to a difference in reporting mechanisms. This reporting is expected to come in line with the NEMSIS 3.4.0 reporting standard in the near future.

### **New York State Law Enforcement Naloxone Administration Dataset:**

The NYS Law Enforcement Naloxone Administration dataset provides information on naloxone administrations by law enforcement officers in the case of a suspected opioid overdose. The information comes from a form that is submitted by officers following a naloxone administration. The form collects the age and gender of the individual receiving naloxone, the county and ZIP code where the suspected opioid overdose occurred, aided status before and after naloxone administration, the suspected drug used, the number of naloxone vials administered by the officer and whether the person lived. Initial trainings of law enforcement began in 2014 and are ongoing. The data do not yet comprehensively include the New York City Police Department and the Nassau County Police Department, which use a distinct reporting mechanism.

### **New York State Community Opioid Overdose Prevention (COOP) Program Dataset:**

The NYS COOP program dataset provides information on naloxone administrations by lay persons who have been trained by registered NYS COOP programs in the case of a suspected opioid overdose. Naloxone administration reports are submitted by registered COOP programs, not individual lay persons. The form collects information including age and gender of the individual receiving naloxone, the county and ZIP code where the suspected opioid overdose occurred, aided status before naloxone administration, the number of naloxone doses administered by the responder, and whether the person lived.

Naloxone usage reports are submitted to the AIDS Institute (AI) by registered community programs after a naloxone kit has been used by a trained community responder. Beginning in May 2018, the AI Community Opioid Overdose Prevention program began the transition from a paper-based reporting system to an online system for naloxone usage reporting purposes. Data that had previously been collected using paper reports and manually entered into a database were migrated to an online platform where data are now stored and managed. This migration included all paper reports from program inception in 2006 through July 2018. Registered programs have been introduced to the online reporting system on a rolling basis. While most registered program are utilizing the online platform for reporting purposes, paper reports will continue to be accepted and naloxone administration data on these forms will be entered into the new online system. As of April 2019, a new ZIP code file was introduced to improve reporting accuracy. This has resulted in shifts in the number of administrations in certain counties, depending upon the ZIP code reassignment.

### **New York State Office of Alcoholism and Substance Abuse Services (OASAS) Client Data System (CDS):**

The New York State Office of Alcoholism and Substance Abuse Services (OASAS) provides data on unique clients admitted for any opioid. This information comes from the OASAS Client Data System (CDS). The CDS collects data on every person admitted to an OASAS-certified chemical dependence treatment program. The reported cases are based on the county of residence at the time of admission. County residents admitted more than once per quarter or year are counted only once. The data are presented as people admitted for the use of any opioid, including heroin (i.e., heroin or another opioid was the primary, secondary or tertiary substance of abuse at admission). The CDS includes data for individuals served in the OASAS-certified treatment system. It does not have data for individuals who get treated by the U.S. Department of Veterans Affairs, go outside New York State for treatment, are admitted to hospitals but not to chemical dependence treatment, or receive an addiction medication from a physician outside the OASAS system of care.

For information about OASAS CDS race/ethnicity groups, please see the race and ethnicity groupings presented in the client data report on Average Daily Enrollment for 2017: <https://www.oasas.ny.gov/ODR/CD/ADE2015.cfm>

### **Prescription Monitoring Program (PMP) Data:**

The New York State Prescription Monitoring Program Registry (PMP) is an online registry that is maintained by [New York State Department of Health's Bureau of Narcotic Enforcement](#). The registry collects dispensed prescription data for controlled substances in schedules II, III, IV and V that are reported by more than 5,000 separate dispensing pharmacies and practitioners registered with New York State. The data must be submitted to the Bureau of Narcotic Enforcement (BNE) within 24 hours after the prescription is dispensed. BNE closely monitors all submitted prescriptions and their associated information. The integrity of the data is achieved through a variety of system edits, and it is the responsibility of the pharmacies to provide timely and accurate data.

Effective August 27, 2013, NYS prescribers are required to consult the Prescription Monitoring Program Registry prior to writing a prescription for Schedule II, III, and IV controlled substances. The PMP provides practitioners with direct, secure access to view dispensed

controlled substance prescription histories for their patients. The PMP is available 24 hours a day/7 days a week via an application on the Health Commerce System (HCS). Patient reports will include all controlled substances that were dispensed in New York State and reported by the pharmacy/dispenser for the past year. This information will allow practitioners to better evaluate their patients' treatment with controlled substances and determine whether there may be abuse or non-medical use. In addition, pharmacists can also access the registry before dispensing the prescriptions for controlled substances.

### **The National Survey on Drug Use and Health (NSDUH):**

#### [What is the NSDUH?](#)

The National Survey on Drug Use and Health (NSDUH) is sponsored by the Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration (SAMHSA). SAMHSA is a division within the U.S. Department of Health and Human Services (HHS). It is an on-going data collection plan designed to provide national and state-level statistical information on the use of alcohol, tobacco, and illicit drugs, including the non-medical use of prescription drugs, in the U.S. The survey tracks trends in substance use and identifies at-risk groups. It also collects data on mental health, co-occurring substance use and mental disorders, and treatment.

#### [What is its use?](#)

Organizations and agencies use the data for a variety of purposes. The data are used to provide information on prevalence of substance use and abuse, identify patterns and trends in substance use, identify demographic variations in health-related behaviors, identify risk factors, and assess potential need for services.

#### [Who is covered in the NSDUH?](#)

The health characteristics estimated from the NSDUH pertain only to the civilian, noninstitutionalized population age 12 years and older. Approximately 70,000 individuals are interviewed. US households are randomly selected and an interviewer visits each selected household. One or two residents from each selected household may be interviewed and the interview is administered on a laptop computer. The questions are answered in private directly on to the laptop computer; for some items, the interviewer reads the question. Each survey participant is compensated with \$30.

#### [Why are the data for New York estimates?](#)

The NSDUH uses a small area estimation procedure to provide state-level data. Data for two consecutive years are combined with county and census block/tract-level data to produce state estimates. This is a model-based methodology used by the NSDUH that allows for more precise estimates that those based solely on the sample where sample sizes are small.

### **The Youth Risk Behavior Surveillance System (YRBSS):**

The YRBSS is a national survey of youth and young adults in the U.S. It was developed to monitor priority health risk behaviors that are often established in childhood and adolescence. The YRBSS had been conducted every two years since 1991 and surveys high school students on substance use, physical activity, dietary behaviors, sexual behaviors, and behaviors related to injuries and violence. The national survey is conducted by CDC and the state, territorial, tribal government, and local surveys are administered by departments of health and education.

For information about YRBSS race/ethnicity groups, please see questions four and five of the 2019 Standard High School Questionnaire:

[https://www.cdc.gov/healthyyouth/data/yrbs/pdf/2019/2019\\_YRBS-Standard-HS-Questionnaire.pdf](https://www.cdc.gov/healthyyouth/data/yrbs/pdf/2019/2019_YRBS-Standard-HS-Questionnaire.pdf)

## Data Suppression Rules for Confidentiality

In many instances, results are not shown (i.e., suppressed) to protect individuals' confidentiality. Suppression rules vary, depending on the data source. An 's' notation indicates that the data did not meet reporting criteria.

| Data Source   | Suppression Criteria          |
|---|-------------------------------|
| Vital Statistics - Death Records  | Denominator population <50    |
| CDC WONDER  | Numerator <10 deaths          |
| Statewide Planning and Research Cooperative System (SPARCS) - ED and hospital records | Numerator 1-5 cases           |
| OASAS Client Data System (CDS) - Admissions   | Numerator 1-5 admissions      |
| Prehospital Care Reports  | None                          |
| NYS Law Enforcement Naloxone Administration Dataset                                   | None                          |
| NYS Community Opioid Overdose Prevention Program (COOP) Dataset                       | None                          |
| NYS Prescription Monitoring Program   | Numerator between 1 - 5 cases |

## Data Limitations

| Data Source   | Limitations  |
|---------------|--|
| Vital Records | <p>The accuracy of indicators based on codes found in vital statistics data is limited by the completeness and quality of reporting and coding. Death investigations may require weeks or months to complete; while investigations are being conducted, deaths may be assigned a pending status on the death certificate (ICD-10-CM underlying cause code of R99, "other ill-defined and unspecified causes of mortality"). Analysis of the percentage of death certificates with an underlying cause of death of R99 by age, over time, and by jurisdiction should be conducted to determine potential impact of incomplete underlying causes of death on drug overdose death indicators.</p> <p>The percentage of death certificates with information on the specific drug(s) involved in drug overdose deaths varies substantially by state and local jurisdiction and may vary over time. The substances tested for, the circumstances under which the tests are performed, and how information is reported on death certificates may also vary. Drug overdose deaths that lack information about the specific drugs may have involved opioids.</p> <p>Even after a death is ruled as caused by a drug overdose, information on the specific drug might not be subsequently added to the certificate. Therefore, estimates of fatal drug overdoses involving opioids may be underestimated from lack of drug specificity. Additionally, deaths involving heroin might be misclassified as involving morphine (a natural opioid), because morphine is a metabolite of heroin.</p> <p>The indicator "Overdose deaths involving opioid pain relievers" includes overdose deaths due to pharmaceutically and illicitly produced opioids such as fentanyl.</p> <p>Data for New York City on opioid overdose deaths are not included in this report.</p> |
| CDC WONDER    | <p>For additional information about CDC WONDER, including limitations of Multiple Cause of Death data, please see: <a href="https://wonder.cdc.gov/wonder/help/mcd.html">https://wonder.cdc.gov/wonder/help/mcd.html</a></p>   |

| Data Source                    | Limitations   |
|--------------------------------|---|
| SPARCS                         | <p>The recent data may be incomplete and should be interpreted with caution. Health Care Facilities licensed in New York State, under Article 28 of the Public Health Law, are required to submit their inpatient and/or outpatient data to SPARCS. SPARCS is a comprehensive all-payer data reporting system established in 1979 as a result of cooperation between the healthcare industry and government. Created to collect information on discharges from hospitals, SPARCS now collects patient level detail on patient characteristics, diagnoses and treatments, services, and charges for hospitals, ambulatory surgical centers, and clinics, both hospital extension and diagnosis and treatment centers.</p> <p>Per NYS Rules and Regulations, Section 400.18 of Title 10, data are required to be submitted: (1) monthly, (2) 95% within 60 days following the end of the month of patient’s discharge/visit, and (3) 100% are due 180 days following the end of the month of the patient discharge/visit. Failure to comply may result in the issuance of Statement of Deficiencies (SODs) and facilities may be subject to a reimbursement rate penalty.</p> <p>The accuracy of indicators, which are based on diagnosis codes (ICD-9-CM codes before Oct. 1, 2015 and ICD-10-CM on or after Oct. 1, 2015) reported by the facilities, is limited by the completeness and quality of reporting and coding by the facilities. The indicators are defined based on the principal diagnosis code or first-listed valid external cause code only. The sensitivity and specificity of these indicators may vary by year, hospital location, and drug type. Changes should be interpreted with caution due to the change in codes used for the definition.</p> <p>The SPARCS data do not include discharges by people who sought care from hospitals outside of New York State, which may lower numbers and rates for some counties, especially those which border other states.</p> |
| OASAS Client Data System (CDS) | <p>The recent data may be incomplete and should be interpreted with caution. The CDS includes data for individuals served in the OASAS-certified treatment system. It does not have data for individuals who get treated by the U.S. Department of Veterans Affairs, go outside New York State for treatment, are admitted to hospitals but not to substance use disorder (SUD) treatment, get diverted to other systems, or receive an addictions medication from a physician outside the OASAS system of care. OASAS-certified chemical dependence treatment programs are required to submit their admissions data to the CDS not later than the fifth of the month following the clinical admission transaction. Data are considered to be substantially complete three months after the due date, but are able to be updated indefinitely.</p> <p>The accuracy of measures, which are based on data reported by the programs, is limited by the completeness, consistency and quality of reporting and coding by the programs. The sensitivity and specificity of these indicators may vary by provider, program, and possible substances reported.</p> <p>Opioid admissions data are not direct measures of the prevalence of opioid use.</p> <p>The availability of chemical dependence treatment services within a county may affect the number of admissions of county residents to programs offering those services.</p>   |
| EMS Patient Care Reports       | <p>Documentation data entry errors can occur, and may result in ‘naloxone administered’ being recorded when a different medication had actually been administered.</p> <p>Patients who present as unresponsive or with an altered mental status with unknown etiology may be administered naloxone, as part of the treatment protocol, while attempts are being made to determine the cause of the patient’s current unresponsive state or altered mental status.</p> <p>Electronic PCR data currently capture 85%-90% of all EMS data statewide, from 45%-50% of all certified EMS agencies. The remaining data are reported via paper PCR, from which extracting narcotic/heroin overdoses and naloxone administrations is impractical.</p> <p>The Suffolk County results in this report do not include patients recorded as ‘unresponsive/unknown’ who received a treatment protocol that includes naloxone; the Suffolk County results in this report only include patients who received naloxone alone for suspected opioid overdose.</p> <p>The National Emergency Medical Services Information System (<a href="#">NEMSIS</a>) is a universal standard for how EMS patient care data are collected. In 2017, most EMS agencies in New York State adhered to the NEMSIS version 2 standard that was released in 2005. However, in 2018, many began transitioning to the recently released NEMSIS version 3 standard, which will improve the quality of EMS data. This report primarily captures data from NEMSIS version 2 agencies, and a small number of NEMSIS version 3 agencies.</p>   |

| Data Source  | Limitations  |
|--|--|
| <p>NYS Law Enforcement Naloxone Administration Dataset</p>             | <p>All data are self-reported by the responding officer at the scene. Not all data fields are completed by the responding officer. There is often a lag in data reporting. All data should be interpreted with caution.</p> <p>It is possible that not all naloxone administrations reported are for an opioid overdose. There are not toxicology reports to confirm suspected substances used.</p> <p>Increase may represent expansion of program and may or may not indicate an increase in overdose events.</p> <p>Data for New York City on naloxone administration reports by law enforcement are not included in this report. Data displayed for Nassau County on naloxone administration reports by law enforcement are not complete due to the use of an alternate reporting system.</p>   |
| <p>NYS Community Opioid Overdose Prevention (COOP) Program Dataset</p> | <p>All data are self-reported by the responder on the scene. Not all data fields are completed by the responder. There is often a lag in data reporting. All data should be interpreted with caution.</p> <p>Increase may represent expansion of program and may or may not indicate an increase in overdose events.</p> <p>Reporting administrations of naloxone to the NYS DOH is one of the mandated responsibilities of registered COOP program directors. The actual number of incidents of naloxone administrations in the community may be higher than the number reported to the NYS DOH due to the delay in reporting.</p> <p>The actual number of naloxone administrations is likely to substantially exceed the number reported to the NYS DOH.</p>   |
| <p>NYS Prescription Monitoring Program (PMP)</p>                       | <p>For all PMP indicators, several exclusions were applied. Prescriptions for out-of-state patients or without a valid patient's NY ZIP code were removed from the analysis. Data from veterinarians and prescription drugs administered to animals were not included in the analysis of PMP data. Prescriptions filled for opioids that have supply days greater than 90 were eliminated from the analysis. Also, opioids not typically used in outpatient settings and cold formulations including elixirs, antitussives, decongestants, antihistamines and expectorants were not included in the analysis.</p>  |
| <p>The National Survey on Drug Use and Health (NSDUH)</p>              | <p>NSDUH estimates of substance use among adolescents have generally been lower than corresponding estimates from two school-based surveys: Monitoring the Future (MTF) and the Youth Risk Behavior Surveillance System (YRBSS) In December 2012, SAMHSA released a report, "Comparing and Evaluating Youth Substance Use Estimates from the National Survey on Drug Use and Health and Other Surveys," which explored some of the reasons for this. It is important to note that, although NSDUH has consistently shown lower prevalence rates than MTF and YRBSS, the trends have usually been parallel. Unlike, MTF and YRBSS, NSDUH conducts interviews in the adolescent's home. The SAMHSA report stated, "It is possible that conducting an interview in an adolescent's home environment has an inhibitory effect on adolescent substance users' willingness to report use, even if parents or other household members are not in the same room as the adolescent and are not able to see how adolescents are answering the substance use questions."</p> <p>The SAMHSA report noted that factors besides interview privacy also could contribute to lower estimates of adolescent substance use in NSDUH than in MTF or YRBSS. These other factors include the focus of the survey (e.g., primary focus on substance use or on broader health topics), how prominently substance use is mentioned when a survey is presented to parents and adolescents, procedures for obtaining parental permission for their children to be interviewed, assurances of anonymity or confidentiality, the placement and context of substance use questions in the interview, the survey mode (e.g., computer-assisted interviewing with skip patterns or paper-and-pencil questionnaires), and the question structure and wording.</p> <p>For example, NSDUH asks filter questions about lifetime use before asking about the most recent use of a substance or the frequency of use. Research has shown that filter questions can depress the reporting of certain behaviors. Some NSDUH respondents also may realize early during their interview that if they answer "no" to the initial filter questions about lifetime substance use, they can avoid having to answer subsequent questions and therefore will finish the interview in less time. The YRBSS questionnaire does not have these kinds of skip patterns, and the MTF questionnaire uses skip patterns minimally. In addition, students taking a survey in a classroom administration setting may not be motivated to finish sooner if they otherwise have to stay until the end of the class period.</p> |
| <p>Youth Risk Behavior Surveillance System (YRBSS)</p>                 | <p>For additional information about YRBSS, including limitations of the data, please see these YRBSS frequently asked questions: <a href="https://www.cdc.gov/healthyyouth/data/yrbs/faq.htm">https://www.cdc.gov/healthyyouth/data/yrbs/faq.htm</a>. YRBSS data limitations are described in detail in the YRBSS methodology document: <a href="https://www.cdc.gov/mmwr/pdf/rr/rr6201.pdf">https://www.cdc.gov/mmwr/pdf/rr/rr6201.pdf</a>.</p>   |

## Data Tables

**Data Table 2. Prevalence of illicit drug use other than marijuana in the past month, by age group, 2016-2017**

| Age Group               | United States |          |       | New York State |          |       |
|-------------------------|---------------|----------|-------|----------------|----------|-------|
|                         | Percentage    | 95% C.I. |       | Percentage     | 95% C.I. |       |
|                         |               | Low      | High  |                | Low      | High  |
| Total (age 12 or older) | 3.38%         | 3.23%    | 3.52% | 3.30%          | 2.85%    | 3.83% |
| Age 12-17               | 2.43%         | 2.24%    | 2.64% | 1.91%          | 1.43%    | 2.53% |
| Age 18-25               | 7.07%         | 6.71%    | 7.46% | 6.89%          | 5.75%    | 8.23% |
| Age 26+                 | 2.88%         | 2.72%    | 3.05% | 2.87%          | 2.36%    | 3.47% |

Data source: National Survey on Drug Use and Health (NSDUH); Data accessed April 2019.

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**Data Table 3. Prevalence of pain reliever misuse in the past year, by age group, 2016-2017**

| Age Group               | United States |          |       | New York State |          |       |
|-------------------------|---------------|----------|-------|----------------|----------|-------|
|                         | Percentage    | 95% C.I. |       | Percentage     | 95% C.I. |       |
|                         |               | Low      | High  |                | Low      | High  |
| Total (age 12 or older) | 4.17%         | 4.03%    | 4.32% | 3.43%          | 2.97%    | 3.97% |
| Age 12-17               | 3.31%         | 3.08%    | 3.55% | 2.47%          | 1.87%    | 3.26% |
| Age 18-25               | 7.13%         | 6.77%    | 7.51% | 6.19%          | 5.21%    | 7.33% |
| Age 26+                 | 3.79%         | 3.63%    | 3.96% | 3.09%          | 2.55%    | 3.73% |

Data source: National Survey on Drug Use and Health (NSDUH); Data accessed April 2019.

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**Data Table 4. Prevalence of heroin use in the past year, by age group, 2016-2017**

| Age Group               | United States |          |       | New York State |          |       |
|-------------------------|---------------|----------|-------|----------------|----------|-------|
|                         | Percentage    | 95% C.I. |       | Percentage     | 95% C.I. |       |
|                         |               | Low      | High  |                | Low      | High  |
| Total (age 12 or older) | 0.34%         | 0.30%    | 0.38% | 0.30%          | 0.18%    | 0.49% |
| Age 12-17               | 0.05%         | 0.03%    | 0.09% | 0.04%          | 0.01%    | 0.10% |
| Age 18-25               | 0.64%         | 0.53%    | 0.77% | 0.46%          | 0.26%    | 0.82% |
| Age 26+                 | 0.32%         | 0.28%    | 0.37% | 0.30%          | 0.17%    | 0.51% |

Data source: National Survey on Drug Use and Health (NSDUH); Data accessed April 2019.

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**Data Table 5. Opioid burden (including outpatient emergency department visits and hospital discharges for non-fatal opioid overdose, abuse, dependence, and unspecified use; and opioid overdose death), crude rate per 100,000 population, by sub-population, New York State, 2016 and 2017**

| Group          | Characteristics | 2016      |                                   | 2017      |                                   |
|----------------|-----------------|-----------|-----------------------------------|-----------|-----------------------------------|
|                |                 | Numerator | Crude rate per 100,000 population | Numerator | Crude rate per 100,000 population |
| Age group      | Age 18-24       | 8,389     | 450.3                             | 6,641     | 363.3                             |
|                | Age 25-44       | 31,276    | 589.4                             | 32,752    | 617.9                             |
|                | Age 45-64       | 15,733    | 299.6                             | 17,900    | 343.6                             |
|                | Age 65+         | 1,668     | 54.3                              | 2,021     | 64.3                              |
| Gender         | Male            | 40,078    | 420.4                             | 41,790    | 439.4                             |
|                | Female          | 17,276    | 170.9                             | 17,809    | 176.7                             |
| Race/Ethnicity | White NH        | 34,770    | 311.7                             | 34,028    | 307.4                             |
|                | Black NH        | 6,970     | 234.8                             | 8,134     | 274.7                             |
|                | Asian/PI NH     | 337       | 19.4                              | 373       | 21.2                              |
|                | Hispanic        | 9,030     | 243.1                             | 10,006    | 268.1                             |
| Region         | New York City   | 23,971    | 282.8                             | 26,807    | 317.7                             |
|                | NYS Excl NYC    | 33,383    | 299.0                             | 32,793    | 294.0                             |
| Total          | New York State  | 57,354    | 292.0                             | 59,600    | 304.2                             |

Data sources: CDC WONDER, Data accessed May 2019; New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS), Data as of May 2019.

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**Data Table 6. Opioid burden (including outpatient emergency department visits and hospital discharges for non-fatal opioid overdose, abuse, dependence, and unspecified use; and opioid overdose death), crude rate per 100,000 population, by county, New York State, 2017**

| County      | Numerator | Population | Crude rate per 100,000 population |
|-------------|-----------|------------|-----------------------------------|
| Albany      | 1,103     | 307,717    | 358.4                             |
| Allegany    | 90        | 46,688     | 192.8                             |
| Bronx       | 7,466     | 1,439,725  | 518.6                             |
| Broome      | 749       | 192,959    | 388.2                             |
| Cattaraugus | 179       | 77,245     | 231.7                             |
| Cayuga      | 162       | 77,463     | 209.1                             |
| Chautauqua  | 718       | 128,609    | 558.3                             |
| Chemung     | 174       | 84,874     | 205.0                             |
| Chenango    | 66        | 47,790     | 138.1                             |
| Clinton     | 94        | 80,567     | 116.7                             |
| Columbia    | 280       | 60,408     | 463.5                             |
| Cortland    | 106       | 47,836     | 221.6                             |
| Delaware    | 103       | 45,020     | 228.8                             |
| Dutchess    | 1,527     | 293,450    | 520.4                             |
| Erie        | 2,463     | 918,794    | 268.1                             |
| Essex       | 32        | 37,511     | 85.3                              |
| Franklin    | 65        | 50,444     | 128.9                             |
| Fulton      | 171       | 53,777     | 318.0                             |
| Genesee     | 211       | 57,816     | 365.0                             |
| Greene      | 229       | 47,474     | 482.4                             |
| Hamilton    | 6         | 4,481      | 133.9*                            |
| Herkimer    | 94        | 62,209     | 151.1                             |
| Jefferson   | 176       | 113,063    | 155.7                             |
| Kings       | 8,078     | 2,596,385  | 311.1                             |
| Lewis       | 51        | 26,576     | 191.9                             |
| Livingston  | 148       | 63,461     | 233.2                             |
| Madison     | 98        | 70,831     | 138.4                             |
| Monroe      | 2,198     | 742,436    | 296.1                             |
| Montgomery  | 197       | 49,216     | 400.3                             |
| Nassau      | 2,683     | 1,357,664  | 197.6                             |
| New York    | 5,999     | 1,629,780  | 368.1                             |
| Niagara     | 689       | 210,866    | 326.7                             |
| Oneida      | 536       | 230,127    | 232.9                             |
| Onondaga    | 1,093     | 461,791    | 236.7                             |
| Ontario     | 246       | 109,609    | 224.4                             |

| County       | Numerator | Population | Crude rate per 100,000 population |
|--------------|-----------|------------|-----------------------------------|
| Orange       | 1,282     | 379,803    | 337.5                             |
| Orleans      | 127       | 40,759     | 311.6                             |
| Oswego       | 296       | 118,426    | 249.9                             |
| Otsego       | 107       | 59,903     | 178.6                             |
| Putnam       | 226       | 98,966     | 228.4                             |
| Queens       | 3,269     | 2,296,865  | 142.3                             |
| Rensselaer   | 599       | 159,261    | 376.1                             |
| Richmond     | 1,995     | 475,516    | 419.5                             |
| Rockland     | 723       | 324,839    | 222.6                             |
| Saratoga     | 426       | 229,102    | 185.9                             |
| Schenectady  | 543       | 154,814    | 350.7                             |
| Schoharie    | 66        | 31,236     | 211.3                             |
| Schuyler     | 16        | 17,925     | 89.3                              |
| Seneca       | 73        | 34,327     | 212.7                             |
| St. Lawrence | 432       | 108,562    | 397.9                             |
| Steuben      | 174       | 96,249     | 180.8                             |
| Suffolk      | 6,687     | 1,483,571  | 450.7                             |
| Sullivan     | 342       | 75,079     | 455.5                             |
| Tioga        | 68        | 48,650     | 139.8                             |
| Tompkins     | 133       | 102,678    | 129.5                             |
| Ulster       | 874       | 178,723    | 489.0                             |
| Warren       | 125       | 64,428     | 194.0                             |
| Washington   | 136       | 61,489     | 221.2                             |
| Wayne        | 150       | 90,372     | 166.0                             |
| Westchester  | 2,381     | 969,279    | 245.6                             |
| Wyoming      | 78        | 40,283     | 193.6                             |
| Yates        | 42        | 24,952     | 168.3                             |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

Data sources: NYS Excl NYC death data from New York State Department of Health, Bureau of Vital Statistics; as of May 2019; NYC death data from CDC WONDER, accessed May 2019; New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS), as of May 2019.

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**Data Table 7. Perceptions of public health problems as "very serious" by adults in New York State, 2016 and 2017**

| Public Health Problem                | Percentage of adults in New York State with perceptions of public health problems as "very serious" |      |
|--------------------------------------|---|------|
|                                      | 2016  | 2017 |
| Childhood Obesity                    | 61%   | 61%  |
| Tobacco Use                          | 52%   | 50%  |
| Alcohol Consumption                  | 38%   | 38%  |
| Access to Healthy Food and Beverages | 36%   | 40%  |
| Heroin Use                           | 76%   | 76%  |
| Prescription Opioid Misuse and Abuse | 68%   | 75%  |

Data Source: NYS DOH, Division of Chronic Disease Prevention Public Opinion Poll; Data accessed July 2019.  
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**Data Table 8. Percentage of high school students reporting ever using heroin, New York State and United States, 2003-2017**

| Year | Percentage (95% Confidence Interval) |               |
|------|--------------------------------------|---------------|
|      | New York State                       | United States |
| 2017 | 3.9 (2.7–5.7)                        | 1.7 (1.3–2.2) |
| 2015 | 4.8 (3.7 - 5.9)                      | 2.1 (1.5–2.8) |
| 2013 | 3.7 (2.7 - 4.6)                      | 2.2 (1.7–2.8) |
| 2011 | 4.0 (3.0 - 5.0)                      | 2.9 (2.5–3.3) |
| 2009 | 3.9 (2.7 - 5.1)                      | 2.5 (2.2–2.9) |
| 2007 | 3.4 (2.4 - 4.4)                      | 2.3 (1.8–2.8) |
| 2005 | 1.8 (1.3 - 2.3)                      | 2.4 (2.0–2.8) |
| 2003 | 1.8 (1.4 - 2.2)                      | 3.3 (2.6–4.1) |

Data source: Youth Risk Behavior Surveillance System (YRBSS); Data accessed August 2018.  
 Survey question: During your life, how many times have you used heroin (also called smack, junk, or China White)?  
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**Data Table 9. Percentage of high school students reporting ever using heroin, by subpopulation, New York State, 2017**

| Sub-Population | Percentage (95% Confidence Interval) |
|----------------|--------------------------------------|
| New York State | 3.9 (2.7-5.7)                        |
| Gender         |                                      |
| Male           | 4.8 (3.3-6.9)                        |
| Female         | 2.1 (1.2-3.6)                        |
| Race/Ethnicity |                                      |
| White-NH       | 1.8 (1.2-2.7)                        |
| Black-NH       | 4.3 (2.5-7.4)                        |
| Hispanic       | 5.2 (3.4-7.9)                        |
| Others         | 3.6 (2.2-6.1)                        |
| Grade Level    |                                      |
| 9th grade      | 3.6 (1.5-8.4)                        |
| 10th grade     | 2.3 (1.7-3.1)                        |
| 11th grade     | 3.8 (2.5-5.7)                        |
| 12th grade     | 4.5 (3.1-6.4)                        |

Data source: Youth Risk Behavior Surveillance System (YRBSS); Data accessed August 2018.

Survey question: During your life, how many times have you used heroin (also called smack, junk, or China White)?

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**Data Table 10. Newborns with neonatal abstinence syndrome and/or affected by maternal use of drugs of addiction (any diagnosis), crude rate per 1,000 newborn discharges, by subpopulation, New York State, 2016 and 2017**

| Group          | Characteristics | 2016       |   | 2017       |   |
|----------------|-----------------|------------|---|------------|---|
|                |                 | Discharges | Crude rate per 1,000 newborn discharges | Discharges | Crude rate per 1,000 newborn discharges |
| Race/Ethnicity | White NH        | 1,204      | 10.8                                    | 1,080      | 9.8                                     |
|                | Black NH        | 366        | 12.3                                    | 323        | 10.9                                    |
|                | Asian/PI NH     | 11         | 0.6                                     | 11         | 0.6                                     |
|                | Hispanic        | 163        | 4.4                                     | 156        | 4.2                                     |
| Region         | New York City   | 465        | 5.5                                     | 450        | 5.3                                     |
|                | NYS Excl NYC    | 1,753      | 15.7                                    | 1,727      | 15.5                                    |
| Total          | New York State  | 2,218      | 11.3                                    | 2,177      | 11.1                                    |

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 11. Newborns with neonatal abstinence syndrome and/or affected by maternal use of drugs of addiction (any diagnosis), crude rate per 1,000 newborn discharges, by county, New York State, 2017**

| County      | Discharges | Population | Crude rate per 1,000 newborn discharges |
|-------------|------------|------------|---|
| Albany      | 44         | 307,717    | 14.3                                    |
| Allegany    | 8          | 46,688     | 17.1*                                   |
| Bronx       | 167        | 1,439,725  | 11.6                                    |
| Broome      | 55         | 192,959    | 28.5                                    |
| Cattaraugus | 13         | 77,245     | 16.8                                    |
| Cayuga      | 20         | 77,463     | 25.8                                    |
| Chautauqua  | 53         | 128,609    | 41.2                                    |
| Chemung     | 14         | 84,874     | 16.5                                    |
| Chenango    | 11         | 47,790     | 23.0                                    |
| Clinton     | 6          | 80,567     | 7.4*                                    |
| Columbia    | 8          | 60,408     | 13.2*                                   |
| Cortland    | 12         | 47,836     | 25.1                                    |
| Delaware    | 15         | 45,020     | 33.3                                    |
| Dutchess    | 34         | 293,450    | 11.6                                    |
| Erie        | 181        | 918,794    | 19.7                                    |
| Essex       | s          | 37,511     | s                                       |
| Franklin    | s          | 50,444     | s                                       |
| Fulton      | 7          | 53,777     | 13.0*                                   |
| Genesee     | 16         | 57,816     | 27.7                                    |
| Greene      | 10         | 47,474     | 21.1                                    |
| Hamilton    | s          | 4,481      | s                                       |
| Herkimer    | 13         | 62,209     | 20.9                                    |
| Jefferson   | 9          | 113,063    | 8.0*                                    |
| Kings       | 105        | 2,596,385  | 4.0                                     |
| Lewis       | s          | 26,576     | s                                       |
| Livingston  | 6          | 63,461     | 9.5*                                    |
| Madison     | 20         | 70,831     | 28.2                                    |
| Monroe      | 96         | 742,436    | 12.9                                    |
| Montgomery  | 14         | 49,216     | 28.4                                    |
| Nassau      | 57         | 1,357,664  | 4.2                                     |
| New York    | 67         | 1,629,780  | 4.1                                     |
| Niagara     | 89         | 210,866    | 42.2                                    |
| Oneida      | 26         | 230,127    | 11.3                                    |
| Onondaga    | 185        | 461,791    | 40.1                                    |
| Ontario     | 12         | 109,609    | 10.9                                    |
| Orange      | 64         | 379,803    | 16.9                                    |

| County       | Discharges | Population | Crude rate per 1,000 newborn discharges |
|--------------|------------|------------|---|
| Orleans      | 11         | 40,759     | 27.0                                    |
| Oswego       | 65         | 118,426    | 54.9                                    |
| Otsego       | 10         | 59,903     | 16.7                                    |
| Putnam       | 6          | 98,966     | 6.1*                                    |
| Queens       | 59         | 2,296,865  | 2.6                                     |
| Rensselaer   | 31         | 159,261    | 19.5                                    |
| Richmond     | 52         | 475,516    | 10.9                                    |
| Rockland     | 11         | 324,839    | 3.4                                     |
| Saratoga     | 20         | 229,102    | 8.7                                     |
| Schenectady  | 23         | 154,814    | 14.9                                    |
| Schoharie    | s          | 31,236     | s                                       |
| Schuyler     | s          | 17,925     | s                                       |
| Seneca       | s          | 34,327     | s                                       |
| St. Lawrence | 56         | 108,562    | 51.6                                    |
| Steuben      | 10         | 96,249     | 10.4                                    |
| Suffolk      | 210        | 1,483,571  | 14.2                                    |
| Sullivan     | 29         | 75,079     | 38.6                                    |
| Tioga        | 7          | 48,650     | 14.4*                                   |
| Tompkins     | 9          | 102,678    | 8.8*                                    |
| Ulster       | 32         | 178,723    | 17.9                                    |
| Warren       | 6          | 64,428     | 9.3*                                    |
| Washington   | 16         | 61,489     | 26.0                                    |
| Wayne        | 14         | 90,372     | 15.5                                    |
| Westchester  | 36         | 969,279    | 3.7                                     |
| Wyoming      | s          | 40,283     | s                                       |
| Yates        | s          | 24,952     | s                                       |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

s: Data do not meet reporting criteria.

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 12. Overdose deaths, age-adjusted rate per 100,000 population, by substance, New York State, 2010 and 2017**

| Substance   | 2010       |  | 2017   |  |
|---|------------|--|--------|--|
|   | Deaths     | Age-adjusted rate per 100,000 population | Deaths | Age-adjusted rate per 100,000 population |
| Any opioid  | 1,074      | 5.4                                      | 3,224  | 16.1                                     |
| Heroin  | 193        | 1.0                                      | 1,356  | 6.8                                      |
| Commonly prescribed opioids                           | 737        | 3.7                                      | 1,044  | 5.1                                      |
| Synthetic opioids (other than methadone)              | 173        | 0.9                                      | 2,238  | 11.3                                     |
| Heroin with synthetic opioids (other than methadone)  | Suppressed | Suppressed                               | 923    | 4.6                                      |
| Cocaine with synthetic opioids (other than methadone) | 18         | Unreliable                               | 742    | 2.3                                      |

Note: Death count and rate are suppressed for categories with less than 10 deaths. Rate is marked as ‘unreliable’ when the count is less than 20 deaths. Categories of substances are not mutually exclusive.

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 13. Overdose deaths involving any opioid, age-adjusted rate per 100,000 population, by county, New York State, 2016 and 2017**

| County      | 2016       |            |  | 2017       |            |  |
|-------------|------------|------------|--|------------|------------|--|
|             | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Albany      | 26         | 308,846    | 8.9                                      | 41         | 309,612    | 13.2                                     |
| Allegany    | Suppressed | 47,077     | Suppressed                               | Suppressed | 46,894     | Suppressed                               |
| Bronx       | 263        | 1,455,720  | 18.4                                     | 286        | 1,471,160  | 19.2                                     |
| Broome      | 58         | 195,334    | 32.3                                     | 51         | 193,639    | 32.1                                     |
| Cattaraugus | Suppressed | 77,677     | Suppressed                               | Suppressed | 77,348     | Suppressed                               |
| Cayuga      | 16         | 77,861     | Unreliable                               | 19         | 77,603     | Unreliable                               |
| Chautauqua  | 25         | 129,504    | 20.7                                     | 31         | 129,046    | 27.0                                     |
| Chemung     | Suppressed | 86,322     | Suppressed                               | 12         | 85,557     | Unreliable                               |
| Chenango    | Suppressed | 48,579     | Suppressed                               | Suppressed | 47,863     | Suppressed                               |
| Clinton     | Suppressed | 81,073     | Suppressed                               | 12         | 80,980     | Unreliable                               |
| Columbia    | 13         | 60,989     | Unreliable                               | 19         | 60,604     | Unreliable                               |
| Cortland    | Suppressed | 48,070     | Suppressed                               | 13         | 47,786     | Unreliable                               |
| Delaware    | 11         | 45,523     | Unreliable                               | Suppressed | 45,001     | Suppressed                               |
| Dutchess    | 51         | 294,473    | 17.8                                     | 80         | 295,568    | 28.0                                     |
| Erie        | 272        | 921,046    | 31.1                                     | 245        | 925,528    | 27.6                                     |
| Essex       | Suppressed | 38,102     | Suppressed                               | Suppressed | 37,956     | Suppressed                               |
| Franklin    | Suppressed | 50,409     | Suppressed                               | Suppressed | 51,116     | Suppressed                               |
| Fulton      | Suppressed | 53,828     | Suppressed                               | Suppressed | 53,877     | Suppressed                               |
| Genesee     | 14         | 58,482     | Unreliable                               | 11         | 57,956     | Unreliable                               |
| Greene      | 12         | 47,508     | Unreliable                               | 12         | 47,470     | Unreliable                               |
| Hamilton    | Suppressed | 4,542      | Suppressed                               | Suppressed | 4,485      | Suppressed                               |
| Herkimer    | Suppressed | 62,613     | Suppressed                               | Suppressed | 62,240     | Suppressed                               |
| Jefferson   | 19         | 114,006    | Unreliable                               | 15         | 114,187    | Unreliable                               |
| Kings       | 270        | 2,629,150  | 9.8                                      | 292        | 2,648,771  | 10.7                                     |
| Lewis       | Suppressed | 26,865     | Suppressed                               | 12         | 26,551     | Unreliable                               |
| Livingston  | Suppressed | 64,257     | Suppressed                               | Suppressed | 63,799     | Suppressed                               |
| Madison     | 14         | 71,329     | Unreliable                               | Suppressed | 70,965     | Suppressed                               |
| Monroe      | 119        | 747,727    | 16.6                                     | 185        | 747,642    | 25.3                                     |
| Montgomery  | Suppressed | 49,276     | Suppressed                               | Suppressed | 49,258     | Suppressed                               |
| Nassau      | 191        | 1,361,500  | 14.9                                     | 193        | 1,369,514  | 14.9                                     |
| New York    | 200        | 1,643,734  | 11.1                                     | 199        | 1,664,727  | 11.4                                     |
| Niagara     | 43         | 211,758    | 22.2                                     | 41         | 211,328    | 20.7                                     |

| County       | 2016       |            |  | 2017       |            |  |
|--------------|------------|------------|--|------------|------------|--|
|              | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Oneida       | 52         | 231,190    | 24.7                                     | 50         | 231,332    | 23.6                                     |
| Onondaga     | 129        | 466,194    | 29.0                                     | 81         | 465,398    | 18.2                                     |
| Ontario      | 11         | 109,828    | Unreliable                               | 17         | 109,899    | Unreliable                               |
| Orange       | 69         | 379,210    | 19.8                                     | 79         | 382,226    | 22.1                                     |
| Orleans      | Suppressed | 41,346     | Suppressed                               | Suppressed | 40,983     | Suppressed                               |
| Oswego       | 23         | 118,987    | 19.2                                     | 18         | 118,478    | Unreliable                               |
| Otsego       | 11         | 60,097     | Unreliable                               | Suppressed | 60,094     | Suppressed                               |
| Putnam       | 22         | 98,900     | 25.6                                     | 24         | 99,323     | 27.1                                     |
| Queens       | 191        | 2,333,054  | 7.7                                      | 223        | 2,358,582  | 8.9                                      |
| Rensselaer   | 11         | 160,070    | Unreliable                               | 17         | 159,722    | Unreliable                               |
| Richmond     | 106        | 476,015    | 22.0                                     | 104        | 479,458    | 21.7                                     |
| Rockland     | 37         | 326,780    | 13.5                                     | 34         | 328,868    | 11.7                                     |
| Saratoga     | Suppressed | 227,053    | Suppressed                               | 11         | 229,869    | Unreliable                               |
| Schenectady  | 29         | 154,553    | 20.8                                     | 32         | 155,565    | 21.1                                     |
| Schoharie    | Suppressed | 31,317     | Suppressed                               | Suppressed | 31,420     | Suppressed                               |
| Schuyler     | Suppressed | 18,099     | Suppressed                               | Suppressed | 18,000     | Suppressed                               |
| Seneca       | Suppressed | 34,777     | Suppressed                               | Suppressed | 34,498     | Suppressed                               |
| St. Lawrence | 14         | 110,038    | Unreliable                               | Suppressed | 109,623    | Suppressed                               |
| Steuben      | 14         | 96,940     | Unreliable                               | 12         | 96,281     | Unreliable                               |
| Suffolk      | 340        | 1,492,583  | 24.3                                     | 424        | 1,492,953  | 30.1                                     |
| Sullivan     | 17         | 74,801     | Unreliable                               | 26         | 75,485     | 38.4                                     |
| Tioga        | Suppressed | 48,760     | Suppressed                               | Suppressed | 48,578     | Suppressed                               |
| Tompkins     | 17         | 104,871    | Unreliable                               | 18         | 104,802    | Unreliable                               |
| Ulster       | 53         | 179,225    | 33.0                                     | 45         | 179,417    | 27.1                                     |
| Warren       | Suppressed | 64,567     | Suppressed                               | Suppressed | 64,532     | Suppressed                               |
| Washington   | Suppressed | 61,800     | Suppressed                               | Suppressed | 61,620     | Suppressed                               |
| Wayne        | Suppressed | 90,798     | Suppressed                               | Suppressed | 90,670     | Suppressed                               |
| Westchester  | 128        | 974,542    | 13.4                                     | 120        | 980,244    | 12.7                                     |
| Wyoming      | Suppressed | 40,791     | Suppressed                               | Suppressed | 40,493     | Suppressed                               |
| Yates        | Suppressed | 24,923     | Suppressed                               | Suppressed | 24,955     | Suppressed                               |

Data source: CDC WONDER; Data as of April 2019.

Note: Counts and age-adjusted rates are suppressed when there are fewer than 10 deaths. Age-adjusted rates are marked as “unreliable” when there are fewer than 20 deaths.

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**Data Table 14. Overdose deaths involving heroin, age-adjusted rate per 100,000 population, by county, New York State, 2016 and 2017**

| County      | 2016       |            |  | 2017       |            |  |
|-------------|------------|------------|--|------------|------------|--|
|             | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Albany      | 16         | 308,846    | Unreliable                               | 18         | 309,612    | Unreliable                               |
| Allegany    | Suppressed | 47,077     | Suppressed                               | Suppressed | 46,894     | Suppressed                               |
| Bronx       | 114        | 1,455,720  | 8.1                                      | 170        | 1,471,160  | 11.4                                     |
| Broome      | 28         | 195,334    | 15.7                                     | 28         | 193,639    | 19.1                                     |
| Cattaraugus | Suppressed | 77,677     | Suppressed                               | Suppressed | 77,348     | Suppressed                               |
| Cayuga      | Suppressed | 77,861     | Suppressed                               | Suppressed | 77,603     | Suppressed                               |
| Chautauqua  | 11         | 129,504    | Unreliable                               | 15         | 129,046    | Unreliable                               |
| Chemung     | Suppressed | 86,322     | Suppressed                               | Suppressed | 85,557     | Suppressed                               |
| Chenango    | Suppressed | 48,579     | Suppressed                               | Suppressed | 47,863     | Suppressed                               |
| Clinton     | Suppressed | 81,073     | Suppressed                               | Suppressed | 80,980     | Suppressed                               |
| Columbia    | Suppressed | 60,989     | Suppressed                               | 12         | 60,604     | Unreliable                               |
| Cortland    | Suppressed | 48,070     | Suppressed                               | Suppressed | 47,786     | Suppressed                               |
| Delaware    | Suppressed | 45,523     | Suppressed                               | Suppressed | 45,001     | Suppressed                               |
| Dutchess    | 28         | 294,473    | 10.3                                     | 45         | 295,568    | 16.6                                     |
| Erie        | 74         | 921,046    | 8.2                                      | 69         | 925,528    | 7.7                                      |
| Essex       | Suppressed | 38,102     | Suppressed                               | Suppressed | 37,956     | Suppressed                               |
| Franklin    | Suppressed | 50,409     | Suppressed                               | Suppressed | 51,116     | Suppressed                               |
| Fulton      | Suppressed | 53,828     | Suppressed                               | Suppressed | 53,877     | Suppressed                               |
| Genesee     | Suppressed | 58,482     | Suppressed                               | Suppressed | 57,956     | Suppressed                               |
| Greene      | Suppressed | 47,508     | Suppressed                               | Suppressed | 47,470     | Suppressed                               |
| Hamilton    | Suppressed | 4,542      | Suppressed                               | Suppressed | 4,485      | Suppressed                               |
| Herkimer    | Suppressed | 62,613     | Suppressed                               | Suppressed | 62,240     | Suppressed                               |
| Jefferson   | Suppressed | 114,006    | Suppressed                               | Suppressed | 114,187    | Suppressed                               |
| Kings       | 142        | 2,629,150  | 5.1                                      | 152        | 2,648,771  | 5.5                                      |
| Lewis       | Suppressed | 26,865     | Suppressed                               | Suppressed | 26,551     | Suppressed                               |
| Livingston  | Suppressed | 64,257     | Suppressed                               | Suppressed | 63,799     | Suppressed                               |
| Madison     | Suppressed | 71,329     | Suppressed                               | Suppressed | 70,965     | Suppressed                               |
| Monroe      | 56         | 747,727    | 7.9                                      | 58         | 747,642    | 7.7                                      |
| Montgomery  | Suppressed | 49,276     | Suppressed                               | Suppressed | 49,258     | Suppressed                               |
| Nassau      | 60         | 1,361,500  | 5.0                                      | 59         | 1,369,514  | 4.9                                      |
| New York    | 97         | 1,643,734  | 5.5                                      | 104        | 1,664,727  | 5.7                                      |
| Niagara     | 11         | 211,758    | Unreliable                               | 15         | 211,328    | Unreliable                               |

| County       | 2016       |            |  | 2017       |            |  |
|--------------|------------|------------|--|------------|------------|--|
|              | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Oneida       | 35         | 231,190    | 16.9                                     | 21         | 231,332    | 10.0                                     |
| Onondaga     | 63         | 466,194    | 14.2                                     | 45         | 465,398    | 10.5                                     |
| Ontario      | Suppressed | 109,828    | Suppressed                               | Suppressed | 109,899    | Suppressed                               |
| Orange       | 46         | 379,210    | 13.6                                     | 34         | 382,226    | 9.8                                      |
| Orleans      | Suppressed | 41,346     | Suppressed                               | Suppressed | 40,983     | Suppressed                               |
| Oswego       | 10         | 118,987    | Unreliable                               | Suppressed | 118,478    | Suppressed                               |
| Otsego       | Suppressed | 60,097     | Suppressed                               | Suppressed | 60,094     | Suppressed                               |
| Putnam       | 12         | 98,900     | Unreliable                               | 13         | 99,323     | Unreliable                               |
| Queens       | 86         | 2,333,054  | 3.4                                      | 105        | 2,358,582  | 4.2                                      |
| Rensselaer   | Suppressed | 160,070    | Suppressed                               | Suppressed | 159,722    | Suppressed                               |
| Richmond     | 57         | 476,015    | 12.0                                     | 46         | 479,458    | 9.9                                      |
| Rockland     | 16         | 326,780    | Unreliable                               | 19         | 328,868    | Unreliable                               |
| Saratoga     | Suppressed | 227,053    | Suppressed                               | Suppressed | 229,869    | Suppressed                               |
| Schenectady  | 17         | 154,553    | Unreliable                               | 11         | 155,565    | Unreliable                               |
| Schoharie    | Suppressed | 31,317     | Suppressed                               | Suppressed | 31,420     | Suppressed                               |
| Schuyler     | Suppressed | 18,099     | Suppressed                               | Suppressed | 18,000     | Suppressed                               |
| Seneca       | Suppressed | 34,777     | Suppressed                               | Suppressed | 34,498     | Suppressed                               |
| St. Lawrence | Suppressed | 110,038    | Suppressed                               | Suppressed | 109,623    | Suppressed                               |
| Steuben      | Suppressed | 96,940     | Suppressed                               | Suppressed | 96,281     | Suppressed                               |
| Suffolk      | 132        | 1,492,583  | 9.8                                      | 145        | 1,492,953  | 11.0                                     |
| Sullivan     | Suppressed | 74,801     | Suppressed                               | 13         | 75,485     | Unreliable                               |
| Tioga        | Suppressed | 48,760     | Suppressed                               | Suppressed | 48,578     | Suppressed                               |
| Tompkins     | Suppressed | 104,871    | Suppressed                               | Suppressed | 104,802    | Suppressed                               |
| Ulster       | 24         | 179,225    | 15.3                                     | 15         | 179,417    | Unreliable                               |
| Warren       | Suppressed | 64,567     | Suppressed                               | Suppressed | 64,532     | Suppressed                               |
| Washington   | Suppressed | 61,800     | Suppressed                               | Suppressed | 61,620     | Suppressed                               |
| Wayne        | Suppressed | 90,798     | Suppressed                               | Suppressed | 90,670     | Suppressed                               |
| Westchester  | 67         | 974,542    | 7.2                                      | 51         | 980,244    | 5.5                                      |
| Wyoming      | Suppressed | 40,791     | Suppressed                               | Suppressed | 40,493     | Suppressed                               |
| Yates        | Suppressed | 24,923     | Suppressed                               | Suppressed | 24,955     | Suppressed                               |

Data source: CDC WONDER; Data as of April 2019.

Note: Counts and age-adjusted rates are suppressed when there are fewer than 10 deaths. Age-adjusted rates are marked as “unreliable” when there are fewer than 20 deaths.

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**Data Table 15. Overdose deaths involving synthetic opioids other than methadone, age-adjusted rate per 100,000 population, by county, New York State, 2016 and 2017**

| County      | 2016       |            |  | 2017       |            |  |
|-------------|------------|------------|--|------------|------------|--|
|             | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Albany      | 13         | 308,846    | Unreliable                               | 28         | 309,612    | 8.5                                      |
| Allegany    | Suppressed | 47,077     | Suppressed                               | Suppressed | 46,894     | Suppressed                               |
| Bronx       | 143        | 1,455,720  | 10.2                                     | 192        | 1,471,160  | 12.8                                     |
| Broome      | 23         | 195,334    | 12.0                                     | 21         | 193,639    | 14.2                                     |
| Cattaraugus | Suppressed | 77,677     | Suppressed                               | Suppressed | 77,348     | Suppressed                               |
| Cayuga      | 14         | 77,861     | Unreliable                               | 14         | 77,603     | Unreliable                               |
| Chautauqua  | 12         | 129,504    | Unreliable                               | 21         | 129,046    | 18.7                                     |
| Chemung     | Suppressed | 86,322     | Suppressed                               | Suppressed | 85,557     | Suppressed                               |
| Chenango    | Suppressed | 48,579     | Suppressed                               | Suppressed | 47,863     | Suppressed                               |
| Clinton     | Suppressed | 81,073     | Suppressed                               | Suppressed | 80,980     | Suppressed                               |
| Columbia    | Suppressed | 60,989     | Suppressed                               | 11         | 60,604     | Unreliable                               |
| Cortland    | Suppressed | 48,070     | Suppressed                               | Suppressed | 47,786     | Suppressed                               |
| Delaware    | Suppressed | 45,523     | Suppressed                               | Suppressed | 45,001     | Suppressed                               |
| Dutchess    | 23         | 294,473    | 8.3                                      | 56         | 295,568    | 20.1                                     |
| Erie        | 209        | 921,046    | 23.9                                     | 197        | 925,528    | 22.4                                     |
| Essex       | Suppressed | 38,102     | Suppressed                               | Suppressed | 37,956     | Suppressed                               |
| Franklin    | Suppressed | 50,409     | Suppressed                               | Suppressed | 51,116     | Suppressed                               |
| Fulton      | Suppressed | 53,828     | Suppressed                               | Suppressed | 53,877     | Suppressed                               |
| Genesee     | Suppressed | 58,482     | Suppressed                               | Suppressed | 57,956     | Suppressed                               |
| Greene      | Suppressed | 47,508     | Suppressed                               | Suppressed | 47,470     | Suppressed                               |
| Hamilton    | Suppressed | 4,542      | Suppressed                               | Suppressed | 4,485      | Suppressed                               |
| Herkimer    | Suppressed | 62,613     | Suppressed                               | Suppressed | 62,240     | Suppressed                               |
| Jefferson   | 13         | 114,006    | Unreliable                               | 11         | 114,187    | Unreliable                               |
| Kings       | 120        | 2,629,150  | 4.3                                      | 199        | 2,648,771  | 7.1                                      |
| Lewis       | Suppressed | 26,865     | Suppressed                               | 10         | 26,551     | Unreliable                               |
| Livingston  | Suppressed | 64,257     | Suppressed                               | Suppressed | 63,799     | Suppressed                               |
| Madison     | Suppressed | 71,329     | Suppressed                               | Suppressed | 70,965     | Suppressed                               |
| Monroe      | 79         | 747,727    | 11.0                                     | 158        | 747,642    | 21.7                                     |
| Montgomery  | Suppressed | 49,276     | Suppressed                               | Suppressed | 49,258     | Suppressed                               |
| Nassau      | 87         | 1,361,500  | 7.0                                      | 107        | 1,369,514  | 8.4                                      |
| New York    | 109        | 1,643,734  | 6.1                                      | 135        | 1,664,727  | 7.7                                      |
| Niagara     | 27         | 211,758    | 14.6                                     | 34         | 211,328    | 17.6                                     |

| County       | 2016       |            |  | 2017       |            |  |
|--------------|------------|------------|--|------------|------------|--|
|              | Deaths     | Population | Age-Adjusted Rate per 100,000 Population | Deaths     | Population | Age-Adjusted Rate per 100,000 Population |
| Oneida       | 30         | 231,190    | 13.9                                     | 42         | 231,332    | 20.0                                     |
| Onondaga     | 89         | 466,194    | 20.3                                     | 53         | 465,398    | 12.1                                     |
| Ontario      | Suppressed | 109,828    | Suppressed                               | 15         | 109,899    | Unreliable                               |
| Orange       | 34         | 379,210    | 9.8                                      | 56         | 382,226    | 15.9                                     |
| Orleans      | Suppressed | 41,346     | Suppressed                               | Suppressed | 40,983     | Suppressed                               |
| Oswego       | 13         | 118,987    | Unreliable                               | 13         | 118,478    | Unreliable                               |
| Otsego       | Suppressed | 60,097     | Suppressed                               | Suppressed | 60,094     | Suppressed                               |
| Putnam       | 11         | 98,900     | Unreliable                               | 16         | 99,323     | Unreliable                               |
| Queens       | 91         | 2,333,054  | 3.8                                      | 146        | 2,358,582  | 5.8                                      |
| Rensselaer   | Suppressed | 160,070    | Suppressed                               | 14         | 159,722    | Unreliable                               |
| Richmond     | 60         | 476,015    | 12.7                                     | 67         | 479,458    | 14.2                                     |
| Rockland     | 20         | 326,780    | 7.3                                      | 15         | 328,868    | Unreliable                               |
| Saratoga     | Suppressed | 227,053    | Suppressed                               | Suppressed | 229,869    | Suppressed                               |
| Schenectady  | Suppressed | 154,553    | Suppressed                               | 25         | 155,565    | 16.5                                     |
| Schoharie    | Suppressed | 31,317     | Suppressed                               | Suppressed | 31,420     | Suppressed                               |
| Schuyler     | Suppressed | 18,099     | Suppressed                               | Suppressed | 18,000     | Suppressed                               |
| Seneca       | Suppressed | 34,777     | Suppressed                               | Suppressed | 34,498     | Suppressed                               |
| St. Lawrence | Suppressed | 110,038    | Suppressed                               | Suppressed | 109,623    | Suppressed                               |
| Steuben      | 10         | 96,940     | Unreliable                               | 10         | 96,281     | Unreliable                               |
| Suffolk      | 192        | 1,492,583  | 14.1                                     | 318        | 1,492,953  | 23.3                                     |
| Sullivan     | Suppressed | 74,801     | Suppressed                               | 16         | 75,485     | Unreliable                               |
| Tioga        | Suppressed | 48,760     | Suppressed                               | Suppressed | 48,578     | Suppressed                               |
| Tompkins     | Suppressed | 104,871    | Suppressed                               | 10         | 104,802    | Unreliable                               |
| Ulster       | 23         | 179,225    | 14.0                                     | 17         | 179,417    | Unreliable                               |
| Warren       | Suppressed | 64,567     | Suppressed                               | Suppressed | 64,532     | Suppressed                               |
| Washington   | Suppressed | 61,800     | Suppressed                               | Suppressed | 61,620     | Suppressed                               |
| Wayne        | Suppressed | 90,798     | Suppressed                               | Suppressed | 90,670     | Suppressed                               |
| Westchester  | 51         | 974,542    | 5.5                                      | 75         | 980,244    | 8.2                                      |
| Wyoming      | Suppressed | 40,791     | Suppressed                               | Suppressed | 40,493     | Suppressed                               |
| Yates        | Suppressed | 24,923     | Suppressed                               | Suppressed | 24,955     | Suppressed                               |

Data source: CDC WONDER; Data as of April 2019.

Note: Counts and age-adjusted rates are suppressed when there are fewer than 10 deaths. Age-adjusted rates are marked as “unreliable” when there are fewer than 20 deaths.

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**Data Table 16. Overdose deaths involving any opioid, age-adjusted rate per 100,000 population, by region, New York State, 2010-2017**

| Year | New York City |  | NYS excl. NYC |  | New York State |  |
|------|---------------|--|---------------|--|----------------|--|
|      | Deaths        | Age-Adjusted Rate per 100,000 Population | Deaths        | Age-Adjusted Rate per 100,000 Population | Deaths         | Age-Adjusted Rate per 100,000 Population |
| 2017 | 1,104         | 12.1                                     | 2,120         | 20.1                                     | 3,224          | 16.1                                     |
| 2016 | 1,030         | 11.5                                     | 1,979         | 18.8                                     | 3,009          | 15.1                                     |
| 2015 | 665           | 7.4                                      | 1,501         | 14.0                                     | 2,166          | 10.8                                     |
| 2014 | 555           | 6.2                                      | 1,184         | 10.9                                     | 1,739          | 8.6                                      |
| 2013 | 541           | 6.1                                      | 1,140         | 10.3                                     | 1,681          | 8.3                                      |
| 2012 | 560           | 6.4                                      | 970           | 8.8                                      | 1,530          | 7.6                                      |
| 2011 | 453           | 5.2                                      | 903           | 8.2                                      | 1,356          | 6.8                                      |
| 2010 | 394           | 4.7                                      | 680           | 6.1                                      | 1,074          | 5.4                                      |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 17. Overdose deaths involving any opioid, age-adjusted rate per 100,000 population, by gender, New York State, 2010-2017**

| Year | Female |  | Male   |  |
|------|--------|--|--------|--|
|      | Deaths | Age-Adjusted Rate per 100,000 Population | Deaths | Age-Adjusted Rate per 100,000 Population |
| 2017 | 799    | 7.8                                      | 2,425  | 24.7                                     |
| 2016 | 818    | 8.1                                      | 2,191  | 22.3                                     |
| 2015 | 592    | 5.7                                      | 1,574  | 16.0                                     |
| 2014 | 539    | 5.1                                      | 1,200  | 12.2                                     |
| 2013 | 500    | 4.7                                      | 1,181  | 12.0                                     |
| 2012 | 453    | 4.4                                      | 1,077  | 11.0                                     |
| 2011 | 437    | 4.2                                      | 919    | 9.5                                      |
| 2010 | 346    | 3.4                                      | 728    | 7.5                                      |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 18. Overdose deaths involving any opioid, age-adjusted rate per 100,000 population, by race/ethnicity, New York State, 2010-2017**

| Year | White Non-Hispanic |  | Black Non-Hispanic |  | Hispanic |  |
|------|--------------------|--|--------------------|--|----------|--|
|      | Deaths             | Age-Adjusted Rate per 100,000 Population | Deaths             | Age-Adjusted Rate per 100,000 Population | Deaths   | Age-Adjusted Rate per 100,000 Population |
| 2017 | 2,201              | 20.9                                     | 390                | 12.1                                     | 517      | 13.6                                     |
| 2016 | 2,110              | 19.8                                     | 338                | 10.5                                     | 473      | 12.6                                     |
| 2015 | 1,600              | 14.7                                     | 182                | 5.7                                      | 307      | 8.3                                      |
| 2014 | 1,345              | 12.2                                     | 150                | 4.7                                      | 201      | 5.6                                      |
| 2013 | 1,254              | 11.1                                     | 146                | 4.5                                      | 238      | 6.6                                      |
| 2012 | 1,145              | 10.2                                     | 140                | 4.6                                      | 196      | 5.6                                      |
| 2011 | 1,027              | 9.1                                      | 115                | 3.6                                      | 168      | 4.8                                      |
| 2010 | 832                | 7.3                                      | 97                 | 3.1                                      | 120      | 3.7                                      |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 19. Overdose deaths involving any opioid, synthetic opioids other than methadone, or heroin, crude rate per 100,000 population, by age group, New York State, 2017**

| Any opioid                             |              |              |              |            |
|--|--------------|--------------|--------------|------------|
| Age group                              | <u>18-24</u> | <u>25-44</u> | <u>45-64</u> | <u>65+</u> |
| Deaths                                 | 259          | 1,609        | 1,222        | 122        |
| Crude rate                             | 13.8         | 29.8         | 23.2         | 3.9        |
| Synthetic opioids other than methadone |              |              |              |            |
| Age group                              | <u>18-24</u> | <u>25-44</u> | <u>45-64</u> | <u>65+</u> |
| Deaths                                 | 202          | 1188         | 777          | 66         |
| Crude rate                             | 10.8         | 22           | 14.8         | 2.1        |
| Heroin                                 |              |              |              |            |
| Age group                              | <u>18-24</u> | <u>25-44</u> | <u>45-64</u> | <u>65+</u> |
| Deaths                                 | 95           | 723          | 490          | 46         |
| Crude rate                             | 5.1          | 13.4         | 9.3          | 1.5        |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 20. Overdose deaths involving heroin, commonly prescribed opioids, and synthetic opioids other than methadone, age-adjusted rate per 100,000 population, by region, New York State, 2010 and 2017**

| Substance and Year                     | New York City |  | NYS excl. NYC |  |      |
|--|---------------|--|---------------|--|------|
|  | Deaths        | Age-Adjusted Rate per 100,000 Population | Deaths        | Age-Adjusted Rate per 100,000 Population |      |
| Heroin                                 | 2010          | 72                                       | 0.8           | 121                                      | 1.1  |
|  | 2017          | 577                                      | 6.3           | 779                                      | 7.6  |
| Commonly prescribed opioids            | 2010          | 283                                      | 3.3           | 454                                      | 4.0  |
|  | 2017          | 408                                      | 4.5           | 636                                      | 5.6  |
| Synthetic opioids other than methadone | 2010          | 47                                       | 0.6           | 126                                      | 1.1  |
|  | 2017          | 739                                      | 8.1           | 1,499                                    | 14.5 |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 21. Overdose deaths involving heroin, age-adjusted rate per 100,000 population, by sub-population, New York State, 2017**

| Population     | Deaths | Age-Adjusted Rate per 100,000 Population |
|----------------|--------|--|
| Total          |        |  |
| New York State | 1,356  | 6.8                                      |
| Gender         |        |  |
| Male           | 1,077  | 11.0                                     |
| Female         | 279    | 2.8                                      |
| Race/Ethnicity |        |  |
| White-NH       | 840    | 8.2                                      |
| Black-NH       | 174    | 5.3                                      |
| Asian/PI-NH    | 20     | 0.9                                      |
| Hispanic       | 287    | 7.6                                      |
| Region         |        |  |
| New York City  | 577    | 6.3                                      |
| NYS excl. NYC  | 779    | 7.6                                      |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 22. Overdose deaths involving heroin (T40.1) vs. overdose deaths involving fentanyl (T40.4),\* crude rate per 100,000, by region, year, and substance, New York State, 2010-2017**

| Region              | Year | Heroin     |       |     | Fentanyl   |            |            |
|---------------------|------|------------|-------|-----|------------|------------|------------|
|                     |      | Age group  |       |     | Age group  |            |            |
|                     |      | 0-24       | 25-44 | 45+ | 0-24       | 25-44      | 45+        |
| NYC                 | 2017 | 1.0        | 9.1   | 9.1 | 1.5        | 12.0       | 11.1       |
|                     | 2016 | 1.3        | 7.2   | 8.2 | 1.8        | 8.0        | 8.0        |
|                     | 2015 | 1.1        | 6.0   | 5.3 | Unreliable | 2.0        | 1.9        |
|                     | 2014 | 0.9        | 4.5   | 4.0 | Suppressed | 0.8        | 0.6        |
|                     | 2013 | 0.8        | 3.3   | 3.6 | Suppressed | Suppressed | 0.8        |
|                     | 2012 | 0.8        | 3.6   | 3.4 | Suppressed | Unreliable | Unreliable |
|                     | 2011 | Suppressed | 2.6   | 1.6 | Suppressed | Unreliable | 0.8        |
|                     | 2010 | Suppressed | 1.2   | 1.3 | Suppressed | Unreliable | 1.0        |
| NYS<br>excl.<br>NYC | 2017 | 2.0        | 17.8  | 4.6 | 4.8        | 32.2       | 9.3        |
|                     | 2016 | 3.0        | 18.5  | 4.2 | 4.3        | 25.0       | 6.0        |
|                     | 2015 | 2.9        | 15.5  | 3.6 | 2.1        | 11.7       | 3.0        |
|                     | 2014 | 2.8        | 11.7  | 2.8 | 0.9        | 3.9        | 2.2        |
|                     | 2013 | 2.5        | 9.2   | 2.2 | 0.7        | 3.1        | 1.3        |
|                     | 2012 | 1.7        | 6.3   | 1.3 | Suppressed | 1.9        | 1.4        |
|                     | 2011 | 1.5        | 4.4   | 0.8 | Unreliable | 1.7        | 1.2        |
|                     | 2010 | 0.7        | 2.1   | 0.8 | Unreliable | 1.7        | 1.3        |

Data source: CDC WONDER; Data accessed July 2019.

\* ICD-10 code T40.4 is used as a proxy for fentanyl.

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**Data Table 23. Overdose deaths involving synthetic opioids other than methadone,\* age-adjusted rate per 100,000 population, by sub-population, New York State, 2017**

| Population     | Deaths | Age-Adjusted Rate per 100,000 Population |
|----------------|--------|--|
| Total          |        |  |
| New York State | 2,238  | 11.3                                     |
| Gender         |        |  |
| Male           | 1,745  | 17.8                                     |
| Female         | 493    | 4.9                                      |
| Race/Ethnicity |        |  |
| White NH       | 1,504  | 14.5                                     |
| Black NH       | 288    | 9.0                                      |
| Asian/PI NH    | 30     | 1.4                                      |
| Hispanic       | 370    | 9.7                                      |
| Region         |        |  |
| New York City  | 739    | 8.1                                      |
| NYS excl. NYC  | 1,499  | 14.5                                     |

Data source: CDC WONDER; Data accessed April 2019.

\* ICD-10 code T40.4, "synthetic opioids other than methadone", is used as a proxy for fentanyl.

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**Data Table 24. Overdose deaths involving cocaine with and without synthetic opioids other than methadone, New York State, 2012-2017**

| Year | Overdose deaths involving cocaine (T40.5) |      | Overdose deaths involving cocaine (T40.5), with T40.4 |      | Overdose deaths involving cocaine (T40.5), without T40.4 |      |
|------|---|------|---|------|--|------|
|      | Count                                     | Rate | Count   | Rate | Count  | Rate |
| 2017 | 1,306                                     | 6.6  | 742   | 3.7  | 564  | 2.8  |
| 2016 | 991                                       | 5.0  | 451   | 2.3  | 540  | 2.7  |
| 2015 | 634                                       | 3.2  | 142   | 0.7  | 492  | 2.5  |
| 2014 | 503                                       | 2.5  | 38  | 0.2  | 465  | 2.4  |
| 2013 | 533                                       | 2.7  | 23  | 0.1  | 510  | 2.6  |
| 2012 | 467                                       | 2.4  | 10  | 0.1* | 457  | 2.3  |

\* Rate is unstable.

Note: Cocaine is identified by ICD-10 code, T40.5; synthetic opioids other than methadone are identified by ICD-10 code, T40.4, and is a proxy for fentanyl, a highly potent opioid now commonly found in the illicit drug market.

Data Source: CDC WONDER; Data accessed January 2019.

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**Data Table 25. Overdose deaths involving any opioid and overdose deaths involving any opioid with benzodiazepines, age-adjusted rate per 100,000 population, New York State, 2010-2017**

| Year | Any Opioid |  | Any Opioid with Benzodiazepines |  |
|------|------------|--|---------------------------------|--|
|      | Deaths     | Age-Adjusted Rate per 100,000 Population | Deaths                          | Age-Adjusted Rate per 100,000 Population |
| 2017 | 3,224      | 16.1                                     | 874                             | 4.4                                      |
| 2016 | 3,009      | 15.1                                     | 843                             | 4.2                                      |
| 2015 | 2,166      | 10.8                                     | 636                             | 3.1                                      |
| 2014 | 1,739      | 8.6                                      | 538                             | 2.7                                      |
| 2013 | 1,681      | 8.3                                      | 473                             | 2.3                                      |
| 2012 | 1,530      | 7.6                                      | 427                             | 2.1                                      |
| 2011 | 1,356      | 6.8                                      | 358                             | 1.8                                      |
| 2010 | 1,074      | 5.4                                      | 328                             | 1.7                                      |

Data source: CDC WONDER; Data accessed May 2019.

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**Data Table 26. Overdose deaths involving any opioid, by day of week, New York State, 2017**

| Day of the week | Deaths |
|-----------------|--------|
| Sunday          | 491    |
| Monday          | 438    |
| Tuesday         | 408    |
| Wednesday       | 442    |
| Thursday        | 424    |
| Friday          | 464    |
| Saturday        | 557    |

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 27. Overdose deaths involving any opioid, by place of death, New York State, 2017**

| Place of Death                      | Deaths (%)    |
|-------------------------------------|---------------|
| Inpatient (medical facility)        | 285 (8.8%)    |
| Outpatient or ER (medical facility) | 451 (14.0%)   |
| Dead on arrival (medical facility)  | 137 (4.2%)    |
| Decedent's home                     | 1,984 (61.5%) |
| Other                               | 357 (11.1%)   |

Note: The numbers of deaths occurring in hospice facilities, nursing home/long term care, and 'unknown' locations, respectively, are suppressed.

Data source: CDC WONDER; Data accessed April 2019.

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**Data Table 28. Hospital discharges involving opioid use (including overdose, abuse, dependence and unspecified use), crude rate per 100,000 population, by sub-population, New York State, 2016 and 2017**

| Group          | Characteristics | 2016                |                                   | 2017                |                                   |
|----------------|-----------------|---------------------|-----------------------------------|---------------------|-----------------------------------|
|                |                 | Hospital discharges | Crude rate per 100,000 population | Hospital discharges | Crude rate per 100,000 population |
| Age group      | Age 0-17        | 63                  | 1.5                               | 71                  | 1.7                               |
|                | Age 18-24       | 3,208               | 172.2                             | 2,448               | 133.9                             |
|                | Age 25-44       | 13,853              | 261.1                             | 13,793              | 260.2                             |
|                | Age 45-64       | 7,128               | 135.8                             | 8,258               | 158.5                             |
|                | Age 65+         | 837                 | 27.2                              | 997                 | 31.7                              |
| Gender         | Male            | 17,673              | 185.4                             | 17,968              | 188.9                             |
|                | Female          | 7,416               | 73.4                              | 7,598               | 75.4                              |
| Race/Ethnicity | White NH        | 14,408              | 129.2                             | 13,832              | 124.9                             |
|                | Black NH        | 3,289               | 110.8                             | 3,787               | 127.9                             |
|                | Asian/PI NH     | 175                 | 10.1                              | 162                 | 9.2                               |
|                | Hispanic        | 4,455               | 120.0                             | 4,884               | 130.9                             |
| Region         | New York City   | 11,225              | 132.4                             | 11,985              | 142.0                             |
|                | NYS Excl NYC    | 13,864              | 124.2                             | 13,582              | 121.8                             |
| Total          | New York State  | 25,089              | 127.7                             | 25,567              | 130.5                             |

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 29. Hospital discharges involving opioid use (including overdose, abuse, dependence and unspecified use), crude rate per 100,000 population, by county, New York State, 2017**

| County      | Hospital discharges | Population | Crude rate per 100,000 population |
|-------------|---------------------|------------|-----------------------------------|
| Albany      | 356                 | 307,717    | 115.7                             |
| Allegany    | 16                  | 46,688     | 34.3                              |
| Bronx       | 3,818               | 1,439,725  | 265.2                             |
| Broome      | 323                 | 192,959    | 167.4                             |
| Cattaraugus | 71                  | 77,245     | 91.9                              |
| Cayuga      | 39                  | 77,463     | 50.3                              |
| Chautauqua  | 443                 | 128,609    | 344.5                             |
| Chemung     | 59                  | 84,874     | 69.5                              |
| Chenango    | 18                  | 47,790     | 37.7                              |
| Clinton     | 27                  | 80,567     | 33.5                              |
| Columbia    | 98                  | 60,408     | 162.2                             |
| Cortland    | 17                  | 47,836     | 35.5                              |
| Delaware    | 46                  | 45,020     | 102.2                             |
| Dutchess    | 729                 | 293,450    | 248.4                             |
| Erie        | 756                 | 918,794    | 82.3                              |
| Essex       | 10                  | 37,511     | 26.7                              |
| Franklin    | 36                  | 50,444     | 71.4                              |
| Fulton      | 62                  | 53,777     | 115.3                             |
| Genesee     | 75                  | 57,816     | 129.7                             |
| Greene      | 109                 | 47,474     | 229.6                             |
| Hamilton    | s                   | 4,481      | s                                 |
| Herkimer    | 22                  | 62,209     | 35.4                              |
| Jefferson   | 62                  | 113,063    | 54.8                              |
| Kings       | 3,125               | 2,596,385  | 120.4                             |
| Lewis       | 18                  | 26,576     | 67.7                              |
| Livingston  | 52                  | 63,461     | 81.9                              |
| Madison     | 23                  | 70,831     | 32.5                              |
| Monroe      | 797                 | 742,436    | 107.3                             |
| Montgomery  | 80                  | 49,216     | 162.5                             |
| Nassau      | 1,216               | 1,357,664  | 89.6                              |
| New York    | 2,571               | 1,629,780  | 157.8                             |
| Niagara     | 273                 | 210,866    | 129.5                             |
| Oneida      | 121                 | 230,127    | 52.6                              |
| Onondaga    | 389                 | 461,791    | 84.2                              |
| Ontario     | 59                  | 109,609    | 53.8                              |

| County       | Hospital discharges | Population | Crude rate per 100,000 population |
|--------------|---------------------|------------|-----------------------------------|
| Orange       | 592                 | 379,803    | 155.9                             |
| Orleans      | 52                  | 40,759     | 127.6                             |
| Oswego       | 81                  | 118,426    | 68.4                              |
| Otsego       | 47                  | 59,903     | 78.5                              |
| Putnam       | 91                  | 98,966     | 92.0                              |
| Queens       | 1,410               | 2,296,865  | 61.4                              |
| Rensselaer   | 211                 | 159,261    | 132.5                             |
| Richmond     | 1,061               | 475,516    | 223.1                             |
| Rockland     | 389                 | 324,839    | 119.8                             |
| Saratoga     | 143                 | 229,102    | 62.4                              |
| Schenectady  | 190                 | 154,814    | 122.7                             |
| Schoharie    | 25                  | 31,236     | 80.0                              |
| Schuyler     | s                   | 17,925     | s                                 |
| Seneca       | 11                  | 34,327     | 32.0                              |
| St. Lawrence | 344                 | 108,562    | 316.9                             |
| Steuben      | 40                  | 96,249     | 41.6                              |
| Suffolk      | 2,655               | 1,483,571  | 179.0                             |
| Sullivan     | 137                 | 75,079     | 182.5                             |
| Tioga        | 23                  | 48,650     | 47.3                              |
| Tompkins     | 41                  | 102,678    | 39.9                              |
| Ulster       | 463                 | 178,723    | 259.1                             |
| Warren       | 41                  | 64,428     | 63.6                              |
| Washington   | 40                  | 61,489     | 65.1                              |
| Wayne        | 57                  | 90,372     | 63.1                              |
| Westchester  | 1,471               | 969,279    | 151.8                             |
| Wyoming      | 19                  | 40,283     | 47.2                              |
| Yates        | 7                   | 24,952     | 28.1*                             |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

s: Data do not meet reporting criteria.

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 30. Hospital discharges involving heroin overdose, crude rate per 100,000 population, by sub-population, New York State, 2016 and 2017**

| Group          | Characteristics | 2016                |                                   | 2017                |                                   |
|----------------|-----------------|---------------------|-----------------------------------|---------------------|-----------------------------------|
|                |                 | Hospital discharges | Crude rate per 100,000 population | Hospital discharges | Crude rate per 100,000 population |
| Age group      | Age 0-17        | 6                   | 0.1                               | 11                  | 0.3                               |
|                | Age 18-24       | 187                 | 10.0                              | 164                 | 9.0                               |
|                | Age 25-44       | 595                 | 11.2                              | 604                 | 11.4                              |
|                | Age 45-64       | 320                 | 6.1                               | 426                 | 8.2                               |
|                | Age 65+         | 53                  | 1.7                               | 66                  | 2.1                               |
| Gender         | Male            | 868                 | 9.1                               | 948                 | 10.0                              |
|                | Female          | 293                 | 2.9                               | 323                 | 3.2                               |
| Race/Ethnicity | White NH        | 711                 | 6.4                               | 714                 | 6.4                               |
|                | Black NH        | 127                 | 4.3                               | 160                 | 5.4                               |
|                | Asian/PI NH     | 11                  | 0.6                               | 7                   | 0.4                               |
|                | Hispanic        | 171                 | 4.6                               | 193                 | 5.2                               |
| Region         | New York City   | 383                 | 4.5                               | 493                 | 5.8                               |
|                | NYS Excl NYC    | 778                 | 7.0                               | 778                 | 7.0                               |
| Total          | New York State  | 1,161               | 5.9                               | 1,271               | 6.5                               |

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 31. Hospital discharges involving heroin overdose, crude rate per 100,000 population, by county, New York State, 2016 and 2017**

| County      | 2016                |                                   | 2017                |                                   |
|-------------|---------------------|-----------------------------------|---------------------|-----------------------------------|
|             | Hospital discharges | Crude rate per 100,000 population | Hospital discharges | Crude rate per 100,000 population |
| Albany      | 14                  | 4.6                               | 12                  | 3.9                               |
| Allegany    | s                   | s                                 | s                   | s                                 |
| Bronx       | 114                 | 7.9                               | 213                 | 14.8                              |
| Broome      | 23                  | 11.8                              | 30                  | 15.5                              |
| Cattaraugus | s                   | s                                 | s                   | s                                 |
| Cayuga      | 8                   | 10.3*                             | s                   | s                                 |
| Chautauqua  | s                   | s                                 | s                   | s                                 |
| Chemung     | s                   | s                                 | s                   | s                                 |
| Chenango    | s                   | s                                 | s                   | s                                 |
| Clinton     | 0                   | 0.0                               | 0                   | 0.0                               |
| Columbia    | s                   | s                                 | 0                   | 0.0                               |
| Cortland    | s                   | s                                 | s                   | s                                 |
| Delaware    | s                   | s                                 | s                   | s                                 |
| Dutchess    | 16                  | 5.5                               | 20                  | 6.8                               |
| Erie        | 83                  | 9.0                               | 73                  | 7.9                               |
| Essex       | 0                   | 0.0                               | 0                   | 0.0                               |
| Franklin    | 0                   | 0.0                               | 0                   | 0.0                               |
| Fulton      | s                   | s                                 | s                   | s                                 |
| Genesee     | s                   | s                                 | 8                   | 13.8*                             |
| Greene      | s                   | s                                 | s                   | s                                 |
| Hamilton    | 0                   | 0.0                               | 0                   | 0.0                               |
| Herkimer    | s                   | s                                 | s                   | s                                 |
| Jefferson   | s                   | s                                 | s                   | s                                 |
| Kings       | 101                 | 3.9                               | 97                  | 3.7                               |
| Lewis       | s                   | s                                 | s                   | s                                 |
| Livingston  | 6                   | 9.4*                              | 6                   | 9.5*                              |
| Madison     | 7                   | 9.8*                              | s                   | s                                 |
| Monroe      | 52                  | 7.0                               | 93                  | 12.5                              |
| Montgomery  | 0                   | 0.0                               | s                   | s                                 |
| Nassau      | 80                  | 5.9                               | 67                  | 4.9                               |
| New York    | 70                  | 4.3                               | 97                  | 6                                 |
| Niagara     | 12                  | 5.7                               | 8                   | 3.8*                              |
| Oneida      | 39                  | 16.9                              | 21                  | 9.1                               |
| Onondaga    | 53                  | 11.4                              | 32                  | 6.9                               |
| Ontario     | 6                   | 5.5*                              | 11                  | 10.0                              |
| Orange      | 38                  | 10.1                              | 24                  | 6.3                               |

| County       | 2016                |                                   | 2017                |                                   |
|--------------|---------------------|-----------------------------------|---------------------|-----------------------------------|
|              | Hospital discharges | Crude rate per 100,000 population | Hospital discharges | Crude rate per 100,000 population |
| Orleans      | s                   | s                                 | s                   | s                                 |
| Oswego       | 7                   | 5.9*                              | s                   | s                                 |
| Otsego       | 9                   | 15.0*                             | s                   | s                                 |
| Putnam       | 6                   | 6.1*                              | 8                   | 8.1*                              |
| Queens       | 69                  | 3                                 | 63                  | 2.7                               |
| Rensselaer   | 8                   | 5.0*                              | 6                   | 3.8*                              |
| Richmond     | 29                  | 6.1                               | 23                  | 4.8                               |
| Rockland     | 13                  | 4.0                               | 10                  | 3.1                               |
| Saratoga     | 7                   | 3.1*                              | 8                   | 3.5*                              |
| Schenectady  | 16                  | 10.4                              | 10                  | 6.5                               |
| Schoharie    | s                   | s                                 | 0                   | 0.0                               |
| Schuyler     | 0                   | 0.0                               | 0                   | 0.0                               |
| Seneca       | s                   | s                                 | s                   | s                                 |
| St. Lawrence | s                   | s                                 | s                   | s                                 |
| Steuben      | s                   | s                                 | s                   | s                                 |
| Suffolk      | 142                 | 9.6                               | 191                 | 12.9                              |
| Sullivan     | 7                   | 9.3*                              | 8                   | 10.7*                             |
| Tioga        | s                   | s                                 | 0                   | 0.0                               |
| Tompkins     | 8                   | 7.8*                              | 6                   | 5.8*                              |
| Ulster       | 10                  | 5.6                               | 14                  | 7.8                               |
| Warren       | s                   | s                                 | s                   | s                                 |
| Washington   | s                   | s                                 | 0                   | 0                                 |
| Wayne        | 6                   | 6.6*                              | 8                   | 8.9*                              |
| Westchester  | 30                  | 3.1                               | 32                  | 3.3                               |
| Wyoming      | 8                   | 19.8*                             | s                   | s                                 |
| Yates        | s                   | s                                 | s                   | s                                 |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

s: Data do not meet reporting criteria.

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 32. All emergency department visits (including outpatients and admitted patients) involving any opioid overdose, crude rate per 100,000 population, by sub-population, New York State, 2016 and 2017**

| Groups         | Characteristics | 2016      |                                   | 2017      |                                   |
|----------------|-----------------|-----------|-----------------------------------|-----------|-----------------------------------|
|                |                 | ED visits | Crude rate per 100,000 population | ED visits | Crude rate per 100,000 population |
| Age group      | Age 0-17        | 175       | 4.2                               | 166       | 4.0                               |
|                | Age 18-24       | 1,997     | 107.2                             | 1,789     | 97.9                              |
|                | Age 25-44       | 5,524     | 104.1                             | 6,384     | 120.4                             |
|                | Age 45-64       | 2,807     | 53.5                              | 3,282     | 63.0                              |
|                | Age 65+         | 635       | 20.7                              | 757       | 24.1                              |
| Gender         | Male            | 7,388     | 77.5                              | 8,319     | 87.5                              |
|                | Female          | 3,750     | 37.1                              | 4,058     | 40.3                              |
| Race/Ethnicity | White NH        | 7,695     | 69.0                              | 8,237     | 74.4                              |
|                | Black NH        | 1,045     | 35.2                              | 1,190     | 40.2                              |
|                | Asian/PI NH     | 55        | 3.2                               | 51        | 2.9                               |
|                | Hispanic        | 1,124     | 30.3                              | 1,396     | 37.4                              |
| Region         | New York City   | 2,780     | 32.8                              | 3,451     | 40.9                              |
|                | NYS Excl NYC    | 8,358     | 74.9                              | 8,927     | 80.0                              |
| Total          | New York State  | 11,138    | 56.7                              | 12,378    | 63.2                              |

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 33. All emergency department visits (including outpatient and admitted patients) involving any opioid overdose, crude rate per 100,000 population, by county, New York State, 2017**

| County      | ED visits | Population | Crude rate per 100,000 population |
|-------------|-----------|------------|-----------------------------------|
| Albany      | 157       | 307,717    | 51.0                              |
| Allegany    | 34        | 46,688     | 72.8                              |
| Bronx       | 1,036     | 1,439,725  | 72.0                              |
| Broome      | 231       | 192,959    | 119.7                             |
| Cattaraugus | 53        | 77,245     | 68.6                              |
| Cayuga      | 53        | 77,463     | 68.4                              |
| Chautauqua  | 110       | 128,609    | 85.5                              |
| Chemung     | 65        | 84,874     | 76.6                              |
| Chenango    | 20        | 47,790     | 41.8                              |
| Clinton     | 24        | 80,567     | 29.8                              |
| Columbia    | 55        | 60,408     | 91.0                              |
| Cortland    | 42        | 47,836     | 87.8                              |
| Delaware    | 27        | 45,020     | 60.0                              |
| Dutchess    | 324       | 293,450    | 110.4                             |
| Erie        | 928       | 918,794    | 101.0                             |
| Essex       | 9         | 37,511     | 24.0*                             |
| Franklin    | 11        | 50,444     | 21.8                              |
| Fulton      | 39        | 53,777     | 72.5                              |
| Genesee     | 73        | 57,816     | 126.3                             |
| Greene      | 39        | 47,474     | 82.2                              |
| Hamilton    | s         | 4,481      | s                                 |
| Herkimer    | 33        | 62,209     | 53.0                              |
| Jefferson   | 39        | 113,063    | 34.5                              |
| Kings       | 860       | 2,596,385  | 33.1                              |
| Lewis       | 10        | 26,576     | 37.6                              |
| Livingston  | 57        | 63,461     | 89.8                              |
| Madison     | 35        | 70,831     | 49.4                              |
| Monroe      | 902       | 742,436    | 121.5                             |
| Montgomery  | 45        | 49,216     | 91.4                              |
| Nassau      | 676       | 1,357,664  | 49.8                              |
| New York    | 675       | 1,629,780  | 41.4                              |
| Niagara     | 212       | 210,866    | 100.5                             |
| Oneida      | 235       | 230,127    | 102.1                             |
| Onondaga    | 351       | 461,791    | 76.0                              |
| Ontario     | 133       | 109,609    | 121.3                             |
| Orange      | 263       | 379,803    | 69.2                              |
| Orleans     | 51        | 40,759     | 125.1                             |

| County       | ED visits | Population | Crude rate per 100,000 population |
|--------------|-----------|------------|-----------------------------------|
| Oswego       | 113       | 118,426    | 95.4                              |
| Otsego       | 30        | 59,903     | 50.1                              |
| Putnam       | 77        | 98,966     | 77.8                              |
| Queens       | 532       | 2,296,865  | 23.2                              |
| Rensselaer   | 95        | 159,261    | 59.7                              |
| Richmond     | 348       | 475,516    | 73.2                              |
| Rockland     | 96        | 324,839    | 29.6                              |
| Saratoga     | 123       | 229,102    | 53.7                              |
| Schenectady  | 126       | 154,814    | 81.4                              |
| Schoharie    | 20        | 31,236     | 64.0                              |
| Schuyler     | s         | 17,925     | s                                 |
| Seneca       | 38        | 34,327     | 110.7                             |
| St. Lawrence | 37        | 108,562    | 34.1                              |
| Steuben      | 56        | 96,249     | 58.2                              |
| Suffolk      | 1,898     | 1,483,571  | 127.9                             |
| Sullivan     | 87        | 75,079     | 115.9                             |
| Tioga        | 16        | 48,650     | 32.9                              |
| Tompkins     | 46        | 102,678    | 44.8                              |
| Ulster       | 217       | 178,723    | 121.4                             |
| Warren       | 39        | 64,428     | 60.5                              |
| Washington   | 21        | 61,489     | 34.2                              |
| Wayne        | 69        | 90,372     | 76.4                              |
| Westchester  | 335       | 969,279    | 34.6                              |
| Wyoming      | 31        | 40,283     | 77.0                              |
| Yates        | 15        | 24,952     | 60.1                              |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

s: Data do not meet reporting criteria.

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 34. All emergency department visits (including outpatient and admitted patients) involving heroin overdose, crude rate per 100,000 population, by sub-population, New York State, 2016 and 2017**

| Groups         | Characteristics | 2016      |                                   | 2017      |                                   |
|----------------|-----------------|-----------|-----------------------------------|-----------|-----------------------------------|
|                |                 | ED visits | Crude rate per 100,000 population | ED visits | Crude rate per 100,000 population |
| Age group      | Age 0-17        | 22        | 0.5                               | 31        | 0.8                               |
|                | Age 18-24       | 1,521     | 81.6                              | 1,308     | 71.5                              |
|                | Age 25-44       | 3,968     | 74.8                              | 4,619     | 87.1                              |
|                | Age 45-64       | 1,252     | 23.8                              | 1,559     | 29.9                              |
|                | Age 65+         | 109       | 3.5                               | 157       | 5.0                               |
| Gender         | Male            | 4,917     | 51.6                              | 5,502     | 57.8                              |
|                | Female          | 1,955     | 19.3                              | 2,172     | 21.5                              |
| Race/Ethnicity | White NH        | 4,967     | 44.5                              | 5,287     | 47.8                              |
|                | Black NH        | 520       | 17.5                              | 639       | 21.6                              |
|                | Asian/PI NH     | 28        | 1.6                               | 27        | 1.5                               |
|                | Hispanic        | 643       | 17.3                              | 837       | 22.4                              |
| Region         | New York City   | 1,400     | 16.5                              | 1,790     | 21.2                              |
|                | NYS excl. NYC   | 5,472     | 49.0                              | 5,884     | 52.8                              |
| Total          | New York State  | 6,872     | 35.0                              | 7,674     | 39.2                              |

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 35. All emergency department visits (including outpatient and admitted patients) involving heroin overdose, crude rate per 100,000 population, by county, New York State, 2017**

| County      | ED visits | Population | Crude rate per 100,000 population |
|-------------|-----------|------------|-----------------------------------|
| Albany      | 116       | 307,717    | 37.7                              |
| Allegany    | 22        | 46,688     | 47.1                              |
| Bronx       | 566       | 1,439,725  | 39.3                              |
| Broome      | 201       | 192,959    | 104.2                             |
| Cattaraugus | 33        | 77,245     | 42.7                              |
| Cayuga      | 34        | 77,463     | 43.9                              |
| Chautauqua  | 75        | 128,609    | 58.3                              |
| Chemung     | 44        | 84,874     | 51.8                              |
| Chenango    | 10        | 47,790     | 20.9                              |
| Clinton     | s         | 80,567     | s                                 |
| Columbia    | 45        | 60,408     | 74.5                              |
| Cortland    | 29        | 47,836     | 60.6                              |
| Delaware    | 19        | 45,020     | 42.2                              |
| Dutchess    | 250       | 293,450    | 85.2                              |
| Erie        | 652       | 918,794    | 71.0                              |
| Essex       | s         | 37,511     | s                                 |
| Franklin    | s         | 50,444     | s                                 |
| Fulton      | 27        | 53,777     | 50.2                              |
| Genesee     | 54        | 57,816     | 93.4                              |
| Greene      | 25        | 47,474     | 52.7                              |
| Hamilton    | 0         | 4,481      | 0.0                               |
| Herkimer    | 20        | 62,209     | 32.1                              |
| Jefferson   | 20        | 113,063    | 17.7                              |
| Kings       | 439       | 2,596,385  | 16.9                              |
| Lewis       | 6         | 26,576     | 22.6*                             |
| Livingston  | 42        | 63,461     | 66.2                              |
| Madison     | 14        | 70,831     | 19.8                              |
| Monroe      | 643       | 742,436    | 86.6                              |
| Montgomery  | 32        | 49,216     | 65.0                              |
| Nassau      | 357       | 1,357,664  | 26.3                              |
| New York    | 314       | 1,629,780  | 19.3                              |
| Niagara     | 131       | 210,866    | 62.1                              |
| Oneida      | 151       | 230,127    | 65.6                              |
| Onondaga    | 225       | 461,791    | 48.7                              |
| Ontario     | 100       | 109,609    | 91.2                              |
| Orange      | 163       | 379,803    | 42.9                              |

| County       | ED visits | Population | Crude rate per 100,000 population |
|--------------|-----------|------------|-----------------------------------|
| Orleans      | 37        | 40,759     | 90.8                              |
| Oswego       | 70        | 118,426    | 59.1                              |
| Otsego       | 17        | 59,903     | 28.4                              |
| Putnam       | 47        | 98,966     | 47.5                              |
| Queens       | 287       | 2,296,865  | 12.5                              |
| Rensselaer   | 69        | 159,261    | 43.3                              |
| Richmond     | 184       | 475,516    | 38.7                              |
| Rockland     | 50        | 324,839    | 15.4                              |
| Saratoga     | 68        | 229,102    | 29.7                              |
| Schenectady  | 97        | 154,814    | 62.7                              |
| Schoharie    | 14        | 31,236     | 44.8                              |
| Schuyler     | s         | 17,925     | s                                 |
| Seneca       | 27        | 34,327     | 78.7                              |
| St. Lawrence | 15        | 108,562    | 13.8                              |
| Steuben      | 31        | 96,249     | 32.2                              |
| Suffolk      | 1,242     | 1,483,571  | 83.7                              |
| Sullivan     | 61        | 75,079     | 81.2                              |
| Tioga        | 8         | 48,650     | 16.4*                             |
| Tompkins     | 30        | 102,678    | 29.2                              |
| Ulster       | 139       | 178,723    | 77.8                              |
| Warren       | 22        | 64,428     | 34.1                              |
| Washington   | 12        | 61,489     | 19.5                              |
| Wayne        | 48        | 90,372     | 53.1                              |
| Westchester  | 196       | 969,279    | 20.2                              |
| Wyoming      | 18        | 40,283     | 44.7                              |
| Yates        | 12        | 24,952     | 48.1                              |

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

s: Data do not meet reporting criteria.

Data source: New York State Department of Health Statewide Planning and Research Cooperative System (SPARCS); Data as of May 2019.

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**Data Table 36. Commonly prescribed opioid analgesics, crude rate per 1,000 population, by quarter, New York State, 2015-2018**

| Year | Quarter   | Crude rate per 1,000 population |                |             |         |             |              |
|------|-----------|---------------------------------|----------------|-------------|---------|-------------|--------------|
|      |           | Oxycodone SA                    | Hydrocodone SA | Tramadol SA | Codeine | Fentanyl LA | Oxycodone LA |
| 2018 | Jan - Mar | 37.2                            | 23.2           | 14.0        | 5.6     | 2.6         | 2.6          |
|      | Apr - Jun | 37.1                            | 22.8           | 14.4        | 5.6     | 2.6         | 2.6          |
|      | Jul - Sep | 36.0                            | 22.0           | 14.1        | 5.2     | 2.4         | 2.5          |
|      | Oct - Dec | 35.9                            | 21.6           | 14.3        | 5.2     | 2.3         | 2.4          |
| 2017 | Jan - Mar | 41.6                            | 27.1           | 15.4        | 6.7     | 3.2         | 3.0          |
|      | Apr - Jun | 40.8                            | 26.4           | 15.5        | 6.3     | 3.2         | 2.9          |
|      | Jul - Sep | 39.3                            | 25.2           | 14.9        | 5.9     | 3.0         | 2.9          |
|      | Oct - Dec | 38.4                            | 24.2           | 14.7        | 5.8     | 2.9         | 2.8          |
| 2016 | Jan - Mar | 44.1                            | 31.3           | 16.1        | 8.1     | 3.8         | 3.5          |
|      | Apr - Jun | 42.8                            | 29.6           | 16.0        | 7.1     | 3.7         | 3.3          |
|      | Jul - Sep | 42.3                            | 28.7           | 15.9        | 6.8     | 3.5         | 3.3          |
|      | Oct - Dec | 41.9                            | 27.8           | 15.6        | 6.7     | 3.4         | 3.2          |
| 2015 | Jan - Mar | 42.1                            | 32.2           | 15.6        | 8.5     | 3.8         | 3.5          |
|      | Apr - Jun | 44.0                            | 32.9           | 16.5        | 8.5     | 3.9         | 3.6          |
|      | Jul - Sep | 44.5                            | 32.6           | 16.5        | 8.4     | 3.9         | 3.5          |
|      | Oct - Dec | 44.6                            | 32.0           | 16.4        | 8.3     | 3.9         | 3.6          |

SA=Short-acting; LA=Long-acting.

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 37. Opioid analgesic prescriptions, crude rate per 1,000 population, by region, New York State, 2015-2018**

| Year | New York City                             |                                 | NYS excl. NYC                             |                                 | New York State                            |                                 |
|------|---|---------------------------------|---|---------------------------------|---|---------------------------------|
|      | Number of opioid analgesics prescriptions | Crude rate per 1,000 population | Number of opioid analgesics prescriptions | Crude rate per 1,000 population | Number of opioid analgesics prescriptions | Crude rate per 1,000 population |
| 2018 | 1,997,515                                 | 237.8                           | 5,328,104                                 | 478.1                           | 7,327,264                                 | 374.9                           |
| 2017 | 2,249,131                                 | 266.5                           | 5,929,514                                 | 531.7                           | 8,180,887                                 | 417.6                           |
| 2016 | 2,502,601                                 | 295.3                           | 6,485,817                                 | 580.9                           | 8,990,806                                 | 457.7                           |
| 2015 | 2,704,874                                 | 319.4                           | 6,784,693                                 | 606.1                           | 9,492,882                                 | 482.8                           |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 38. Opioid analgesic prescriptions, crude rate per 1,000 population, by age, New York State, 2015 and 2018**

| Age group | 2015                                      |                                 | 2018                                      |                                 |
|-----------|---|---------------------------------|---|---------------------------------|
|           | Number of opioid analgesics prescriptions | Crude rate per 1,000 population | Number of opioid analgesics prescriptions | Crude rate per 1,000 population |
| Age 18-24 | 298,113                                   | 156.6                           | 165,823                                   | 92.1                            |
| Age 25-34 | 893,720                                   | 313.2                           | 500,525                                   | 173.9                           |
| Age 35-44 | 1,249,059                                 | 508.1                           | 848,483                                   | 348.9                           |
| Age 45-54 | 2,090,247                                 | 765.0                           | 1,391,588                                 | 544.6                           |
| Age 55-64 | 2,298,922                                 | 907.0                           | 1,965,233                                 | 757.4                           |
| Age 65+   | 2,557,618                                 | 853.0                           | 2,394,313                                 | 745.1                           |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 39. Opioid analgesic prescriptions, crude rate per 1,000 population, by gender, New York State, 2015-2018**

| Year | Male                                      |                                 | Female                                    |                                 |
|------|---|---------------------------------|---|---------------------------------|
|      | Number of opioid analgesics prescriptions | Crude rate per 1,000 population | Number of opioid analgesics prescriptions | Crude rate per 1,000 population |
| 2018 | 3,168,142                                 | 333.9                           | 4,158,754                                 | 413.7                           |
| 2017 | 3,552,525                                 | 373.5                           | 4,627,960                                 | 459.1                           |
| 2016 | 3,919,485                                 | 411.1                           | 5,070,955                                 | 501.7                           |
| 2015 | 4,084,124                                 | 428.2                           | 5,408,173                                 | 534.3                           |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 40. Opioid analgesic prescriptions, crude rate per 1,000 population, by age and gender, New York State, 2018**

| Age group | Gender | Number of opioid analgesics prescriptions | Crude rate per 1,000 population |
|-----------|--------|---|---------------------------------|
| Age 18-24 | Male   | 67,472                                    | 74.7                            |
|           | Female | 98,313                                    | 109.6                           |
| Age 25-34 | Male   | 197,984                                   | 137.3                           |
|           | Female | 302,480                                   | 210.4                           |
| Age 35-44 | Male   | 361,390                                   | 301.6                           |
|           | Female | 486,970                                   | 394.8                           |
| Age 45-54 | Male   | 620,141                                   | 499.6                           |
|           | Female | 771,367                                   | 587.1                           |
| Age 55-64 | Male   | 929,422                                   | 747.8                           |
|           | Female | 1,035,721                                 | 766.2                           |
| Age 65+   | Male   | 960,665                                   | 695.2                           |
|           | Female | 1,433,539                                 | 782.7                           |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 41. Percentage of incidents when patients were opioid naïve and received long-acting opioid prescription,\* by region, New York State, 2016-2018**

| Year | Region         | Number of incidents when patients were opioid naïve and received long-acting opioid prescription* | Number of opioid naïve incidents | Percentage |
|------|----------------|---|----------------------------------|------------|
| 2018 | New York City  | 6,539   | 704,671                          | 0.9        |
|      | NYS excl. NYC  | 12,226  | 1,453,847                        | 0.8        |
|      | New York State | 18,777  | 2,158,968                        | 0.9        |
| 2017 | New York City  | 8,318   | 790,805                          | 1.1        |
|      | NYS excl. NYC  | 14,344  | 1,623,151                        | 0.9        |
|      | New York State | 22,675  | 2,414,527                        | 0.9        |
| 2016 | New York City  | 10,123  | 902,566                          | 1.1        |
|      | NYS excl. NYC  | 18,342  | 1,814,213                        | 1.0        |
|      | New York State | 28,481  | 2,717,330                        | 1.1        |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.  
 Opioid naïve was defined as patient with no opioid for pain prescription in last 45 days.  
 \*Patient received index prescription of long-acting opioid and was opioid naïve.  
 Data Source: NYS Prescription Monitoring Program; Data as of April 2019.  
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**Data Table 42. Percentage of incidents when patients were opioid naïve and received an opioid prescription\* of more than seven days, by region, New York State, 2016-2018**

| Year | Region         | Percentage of incidents when patients were opioid naïve and received an opioid prescription* of more than seven days |          |           |           |
|------|----------------|--|----------|-----------|-----------|
|      |                | Jan - Mar  | Apr -Jun | Jul - Sep | Oct - Dec |
| 2018 | New York City  | 25.4   | 24.6     | 23.9      | 20.8      |
|      | NYS excl. NYC  | 25.2   | 24.6     | 22.1      | 20.1      |
|      | New York State | 25.3   | 24.6     | 22.7      | 20.3      |
| 2017 | New York City  | 29.7   | 28.4     | 27.4      | 25.3      |
|      | NYS excl. NYC  | 28.2   | 28.0     | 26.6      | 25.4      |
|      | New York State | 28.7   | 28.1     | 26.8      | 25.4      |
| 2016 | New York City  | 36.3   | 36.1     | 34.5      | 31.2      |
|      | NYS excl. NYC  | 34.6   | 34.0     | 31.0      | 29.0      |
|      | New York State | 35.2   | 34.7     | 32.1      | 29.7      |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.  
 Opioid naïve was defined as patient with no opioid for pain prescription in last 45 days.  
 \*Patient received index prescription of an opioid of more than seven days and was opioid naïve.  
 Data Source: NYS Prescription Monitoring Program; Data as of April 2019.  
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**Data Table 43. Patients with prescribed opioid analgesics from five or more prescribers and dispensed at five or more pharmacies in a six-month period, crude rate per 100,000 population, by region, New York State, 2015-2018**

| Year | New York City      |                                   | NYS excl. NYC      |                                   | New York State     |                                   |
|------|--------------------|-----------------------------------|--------------------|-----------------------------------|--------------------|-----------------------------------|
|      | Number of patients | Crude rate per 100,000 population | Number of patients | Crude rate per 100,000 population | Number of patients | Crude rate per 100,000 population |
| 2018 | 138                | 0.8                               | 367                | 1.6                               | 506                | 1.3                               |
| 2017 | 206                | 1.2                               | 386                | 1.7                               | 593                | 1.5                               |
| 2016 | 425                | 2.5                               | 728                | 3.3                               | 1,155              | 2.9                               |
| 2015 | 1,032              | 6.1                               | 2,382              | 10.6                              | 3,418              | 8.7                               |

The data exclude buprenorphine prescriptions for the treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 44. Percentage of patients prescribed one or more opioid analgesics with a total daily dose of  $\geq 90$  MME on at least one day, by region, New York State, 2015-2018**

| Year | Region         | Number of patients received opioid analgesics $\geq 90$ MME | Number of patients received opioid analgesic prescriptions | Percentage |
|------|----------------|---|--|------------|
| 2018 | New York City  | 74,789  | 682,730  | 11.0       |
|      | NYS excl. NYC  | 174,146   | 1,444,215  | 12.1       |
|      | New York State | 249,042   | 2,127,266  | 11.7       |
| 2017 | New York City  | 92,030  | 764,967  | 12.0       |
|      | NYS excl. NYC  | 211,049   | 1,600,149  | 13.2       |
|      | New York State | 303,225   | 2,365,529  | 12.8       |
| 2016 | New York City  | 106,845   | 863,190  | 12.4       |
|      | NYS excl. NYC  | 244,759   | 1,751,916  | 14.0       |
|      | New York State | 351,761   | 2,615,545  | 13.4       |
| 2015 | New York City  | 111,886   | 947,811  | 11.8       |
|      | NYS excl. NYC  | 255,176   | 1,841,915  | 13.9       |
|      | New York State | 367,250   | 2,790,303  | 13.2       |

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

MME: morphine milligram equivalents.

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 45. Percentage of patients prescribed one or more opioid analgesics with a total daily dose of  $\geq 90$  MME on at least one day, by age, New York State, 2015 and 2018**

| Year | Age group | Number of patients received opioid analgesics $\geq 90$ MME | Number of patients received opioid analgesic prescriptions | Percentage |
|------|-----------|---|--|------------|
| 2018 | Age 18-24 | 3,008   | 127,658  | 2.4        |
|      | Age 25-34 | 13,762  | 251,437  | 5.5        |
|      | Age 35-44 | 27,552  | 278,950  | 9.9        |
|      | Age 45-54 | 48,603  | 353,754  | 13.7       |
|      | Age 55-64 | 69,892  | 444,630  | 15.7       |
|      | Age 65+   | 85,525  | 619,899  | 13.8       |
| 2015 | Age 18-24 | 8,550   | 199,718  | 4.3        |
|      | Age 25-34 | 32,408  | 385,743  | 8.4        |
|      | Age 35-44 | 48,928  | 390,321  | 12.5       |
|      | Age 45-54 | 83,861  | 517,170  | 16.2       |
|      | Age 55-64 | 92,086  | 536,491  | 17.2       |
|      | Age 65+   | 99,650  | 683,178  | 14.6       |

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

MME: morphine milligram equivalents.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 46. Percentage of patients prescribed one or more opioid analgesics with a total daily dose of  $\geq 90$  MME on at least one day, by gender, New York State, 2015-2018**

| Year | Gender | Number of patients received opioid analgesics $\geq 90$ MME | Number of patients received opioid analgesic prescriptions | Percentage |
|------|--------|---|--|------------|
| 2018 | Male   | 119,106   | 905,164  | 13.2       |
|      | Female | 129,909   | 1,221,824  | 10.6       |
| 2017 | Male   | 145,035   | 1,011,993  | 14.3       |
|      | Female | 158,147   | 1,353,183  | 11.7       |
| 2016 | Male   | 168,476   | 1,123,409  | 15.0       |
|      | Female | 183,258   | 1,491,771  | 12.3       |
| 2015 | Male   | 174,765   | 1,194,992  | 14.6       |
|      | Female | 192,424   | 1,594,810  | 12.1       |

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

MME: morphine milligram equivalents.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 47. Percentage of patients prescribed one or more opioid analgesics with a total daily dose of  $\geq 90$  MME on at least one day, by age and gender, New York State, 2018**

| Age group | Gender | Number of patients received opioid analgesics $\geq 90$ MME | Number of patients received opioid analgesic prescriptions | Percentage |
|-----------|--------|---|--|------------|
| Age 18-24 | Male   | 1,496   | 51,440   | 2.9        |
|           | Female | 1,512   | 76,189   | 2.0        |
| Age 25-34 | Male   | 6,750   | 93,366   | 7.2        |
|           | Female | 7,009   | 158,017  | 4.4        |
| Age 35-44 | Male   | 13,577  | 113,038  | 12.0       |
|           | Female | 13,970  | 165,857  | 8.4        |
| Age 45-54 | Male   | 23,912  | 154,870  | 15.4       |
|           | Female | 24,687  | 198,849  | 12.4       |
| Age 55-64 | Male   | 35,335  | 207,670  | 17.0       |
|           | Female | 34,552  | 236,925  | 14.6       |
| Age 65+   | Male   | 37,678  | 259,117  | 14.5       |
|           | Female | 47,839  | 360,745  | 13.3       |

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

MME: morphine milligram equivalents.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 48. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic and benzodiazepine prescriptions, by region, New York State, 2015-2018**

| Year | Region         | Number of patients with two or more overlapping days | Number of patients received opioid or benzo prescriptions | Percentage |
|------|----------------|--|---|------------|
| 2018 | New York City  | 68,880   | 990,121   | 7.0        |
|      | NYS excl. NYC  | 193,249  | 1,991,897   | 9.7        |
|      | New York State | 262,183  | 2,982,540   | 8.8        |
| 2017 | New York City  | 78,915   | 1,071,564   | 7.4        |
|      | NYS excl. NYC  | 219,402  | 2,141,200   | 10.3       |
|      | New York State | 298,399  | 3,213,426   | 9.3        |
| 2016 | New York City  | 88,877   | 1,168,103   | 7.6        |
|      | NYS excl. NYC  | 247,353  | 2,285,407   | 10.8       |
|      | New York State | 336,306  | 3,454,190   | 9.7        |
| 2015 | New York City  | 95,463   | 1,243,072   | 7.7        |
|      | NYS excl. NYC  | 256,303  | 2,350,801   | 10.9       |
|      | New York State | 351,873  | 3,594,694   | 9.8        |

\*: Patients with at least one prescription for opioid analgesics or benzodiazepines during a given year.

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 49. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic and benzodiazepine prescriptions, by age, New York State, 2015 and 2018**

| Year | Age group | Number of patients with two or more overlapping days | Number of patients received opioid or benzo prescriptions | Percentage |
|------|-----------|--|---|------------|
| 2018 | Age 18-24 | 2,818  | 165,155   | 1.7        |
|      | Age 25-34 | 15,248   | 368,636   | 4.1        |
|      | Age 35-44 | 29,084   | 404,407   | 7.2        |
|      | Age 45-54 | 47,770   | 501,495   | 9.5        |
|      | Age 55-64 | 66,270   | 614,768   | 10.8       |
|      | Age 65+   | 99,947   | 857,729   | 11.7       |
| 2015 | Age 18-24 | 5,710  | 240,287   | 2.4        |
|      | Age 25-34 | 28,945   | 496,553   | 5.8        |
|      | Age 35-44 | 44,936   | 505,794   | 8.9        |
|      | Age 45-54 | 75,576   | 665,143   | 11.4       |
|      | Age 55-64 | 83,671   | 692,935   | 12.1       |
|      | Age 65+   | 111,709  | 894,647   | 12.5       |

\*: Patients with at least one prescription for opioid analgesics or benzodiazepines during a given year. The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 50. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic and benzodiazepine prescriptions, by gender, New York State, 2015-2018**

| Year | Gender | Number of patients with two or more overlapping days | Number of patients received opioid or benzo prescriptions | Percentage |
|------|--------|--|---|------------|
| 2018 | Male   | 93,071   | 1,210,391   | 7.7        |
|      | Female | 169,095  | 1,771,764   | 9.5        |
| 2017 | Male   | 107,419  | 1,314,224   | 8.2        |
|      | Female | 190,962  | 1,898,724   | 10.1       |
| 2016 | Male   | 122,269  | 1,422,940   | 8.6        |
|      | Female | 214,012  | 2,030,755   | 10.5       |
| 2015 | Male   | 126,429  | 1,479,526   | 8.6        |
|      | Female | 225,391  | 2,114,559   | 10.7       |

\*: Patients with at least one prescription for opioid analgesics or benzodiazepines during a given year. The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 51. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic and benzodiazepine prescriptions, by age and gender, New York State, 2018**

| Age group | Gender | Number of patients with two or more overlapping days | Number of patients received opioid or benzodiazepine prescriptions | Percentage |
|-----------|--------|--|--|------------|
| Age 18-24 | Male   | 1,023  | 65,657   | 1.6        |
|           | Female | 1,795  | 99,465   | 1.8        |
| Age 25-34 | Male   | 5,115  | 137,410  | 3.7        |
|           | Female | 10,133   | 231,155  | 4.4        |
| Age 35-44 | Male   | 9,806  | 160,319  | 6.1        |
|           | Female | 19,272   | 244,018  | 7.9        |
| Age 45-54 | Male   | 16,651   | 207,215  | 8.0        |
|           | Female | 31,116   | 294,221  | 10.6       |
| Age 55-64 | Male   | 25,150   | 267,414  | 9.4        |
|           | Female | 41,116   | 347,308  | 11.8       |
| Age 65+   | Male   | 34,855   | 336,809  | 10.4       |
|           | Female | 65,088   | 520,865  | 12.5       |

\*: Patients with at least one prescription for opioid analgesics or benzodiazepines during a given year. The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder. Data Source: NYS Prescription Monitoring Program; Data as of April 2019. Back to [Table of Contents](#).

**Data Table 52. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic prescriptions, by region, New York State, 2015-2018**

| Year | Region         | Number of patients with two or more overlapping days | Number of patients received opioid prescriptions | Percentage |
|------|----------------|--|--|------------|
| 2018 | New York City  | 100,952  | 682,860  | 14.8       |
|      | NYS excl. NYC  | 246,722  | 1,445,002  | 17.1       |
|      | New York State | 347,794  | 2,128,183  | 16.3       |
| 2017 | New York City  | 118,766  | 765,123  | 15.5       |
|      | NYS excl. NYC  | 285,319  | 1,600,910  | 17.8       |
|      | New York State | 404,257  | 2,366,447  | 17.1       |
| 2016 | New York City  | 135,672  | 863,346  | 15.7       |
|      | NYS excl. NYC  | 324,325  | 1,752,642  | 18.5       |
|      | New York State | 460,170  | 2,616,427  | 17.6       |
| 2015 | New York City  | 140,505  | 947,989  | 14.8       |
|      | NYS excl. NYC  | 331,684  | 1,842,511  | 18.0       |
|      | New York State | 472,419  | 2,791,077  | 16.9       |

\*: Patients with at least one prescription for opioid analgesics during a given year.

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 53. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic prescriptions, by age, New York State, 2015 and 2018**

| Year | Age group | Number of patients with two or more overlapping days | Number of patients received opioid prescriptions | Percentage |
|------|-----------|--|--|------------|
| 2018 | Age 18-24 | 2,760  | 127,664  | 2.2        |
|      | Age 25-34 | 16,362   | 251,479  | 6.5        |
|      | Age 35-44 | 35,356   | 279,038  | 12.7       |
|      | Age 45-54 | 64,047   | 353,902  | 18.1       |
|      | Age 55-64 | 94,914   | 444,860  | 21.3       |
|      | Age 65+   | 133,393  | 620,301  | 21.5       |
| 2015 | Age 18-24 | 7,616  | 199,729  | 3.8        |
|      | Age 25-34 | 35,229   | 385,801  | 9.1        |
|      | Age 35-44 | 57,492   | 390,393  | 14.7       |
|      | Age 45-54 | 104,047  | 517,329  | 20.1       |
|      | Age 55-64 | 117,865  | 536,675  | 22.0       |
|      | Age 65+   | 148,040  | 683,467  | 21.7       |

\*: Patients with at least one prescription for opioid analgesics during a given year.

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 54. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic prescriptions, by gender, New York State, 2015-2018**

| Year | Gender | Number of patients with two or more overlapping days | Number of patients received opioid prescriptions | Percentage |
|------|--------|--|--|------------|
| 2018 | Male   | 152,018  | 905,521  | 16.8       |
|      | Female | 195,743  | 1,222,384  | 16.0       |
| 2017 | Male   | 177,667  | 1,012,359  | 17.6       |
|      | Female | 226,539  | 1,353,735  | 16.7       |
| 2016 | Male   | 203,292  | 1,123,727  | 18.1       |
|      | Female | 256,836  | 1,492,335  | 17.2       |
| 2015 | Male   | 205,262  | 1,195,263  | 17.2       |
|      | Female | 267,086  | 1,595,313  | 16.7       |

\*: Patients with at least one prescription for opioid analgesics during a given year.

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 55. Percentage of patients\* with two or more calendar days of overlapping opioid analgesic prescriptions, by age and gender, New York State, 2018**

| Age group | Gender | Number of patients with two or more overlapping days | Number of patients received opioid prescriptions | Percentage |
|-----------|--------|--|--|------------|
| Age 18-24 | Male   | 1,275  | 51,442   | 2.5        |
|           | Female | 1,484  | 76,193   | 2.0        |
| Age 25-34 | Male   | 7,343  | 93,383   | 7.9        |
|           | Female | 9,017  | 158,042  | 5.7        |
| Age 35-44 | Male   | 15,855   | 113,083  | 14.0       |
|           | Female | 19,495   | 165,900  | 11.8       |
| Age 45-54 | Male   | 29,149   | 154,930  | 18.8       |
|           | Female | 34,890   | 198,937  | 17.5       |
| Age 55-64 | Male   | 45,179   | 207,758  | 21.8       |
|           | Female | 49,728   | 237,067  | 21.0       |
| Age 65+   | Male   | 52,755   | 259,262  | 20.4       |
|           | Female | 80,632   | 361,002  | 22.3       |

\*: Patients with at least one prescription for opioid analgesics during a given year.

The data exclude buprenorphine prescriptions for pain and treatment of opioid use disorder.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 56. Unique clients admitted to OASAS-certified chemical dependence treatment programs for any opioid, crude rate per 100,000 population, by region, New York State, 2010-2018**

| Year | New York City |                                   | NYS excl. NYC |                                   | New York State |                                   |
|------|---------------|-----------------------------------|---------------|-----------------------------------|----------------|-----------------------------------|
|      | OASAS Clients | Crude Rate per 100,000 Population | OASAS Clients | Crude Rate per 100,000 Population | OASAS Clients  | Crude Rate per 100,000 Population |
| 2018 | 22,051        | 306.5                             | 40,063        | 415.5                             | 62,114         | 368.9                             |
| 2017 | 23,273        | 322.2                             | 41,962        | 435.2                             | 65,235         | 386.8                             |
| 2016 | 24,210        | 334.0                             | 42,236        | 437.9                             | 66,446         | 393.3                             |
| 2015 | 24,259        | 335.2                             | 40,532        | 419.7                             | 64,791         | 383.5                             |
| 2014 | 24,222        | 335.9                             | 38,243        | 395.5                             | 62,465         | 370.0                             |
| 2013 | 24,385        | 339.8                             | 36,302        | 375.6                             | 60,687         | 360.3                             |
| 2012 | 25,296        | 354.5                             | 33,994        | 352.4                             | 59,290         | 353.3                             |
| 2011 | 25,209        | 356.5                             | 31,410        | 326.4                             | 56,619         | 339.1                             |
| 2010 | 25,422        | 362.7                             | 29,477        | 307.3                             | 54,899         | 330.7                             |

Data source: New York State Office of Alcoholism and Substance Abuse Services (OASAS); Data as of May 2019.  
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**Data Table 57. Unique clients admitted to OASAS-certified chemical dependence treatment programs for any opioid, crude rate per 100,000 population, by age group, New York State, 2010-2018**

| Year | Age Group | OASAS Clients | Crude rate per 100,000 population |
|------|-----------|---------------|-----------------------------------|
| 2018 | Age 12-17 | 256           | 18.8                              |
|      | Age 18-24 | 5,781         | 321.1                             |
|      | Age 25-34 | 22,922        | 796.2                             |
|      | Age 35-44 | 14,545        | 598.1                             |
|      | Age 45-54 | 11,081        | 433.7                             |
|      | Age 55+   | 7,529         | 129.6                             |
| 2017 | Age 12-17 | 367           | 26.5                              |
|      | Age 18-24 | 7,435         | 406.7                             |
|      | Age 25-34 | 24,171        | 840.7                             |
|      | Age 35-44 | 14,446        | 595.5                             |
|      | Age 45-54 | 11,690        | 444.8                             |
|      | Age 55+   | 7,126         | 124.5                             |
| 2016 | Age 12-17 | 480           | 34.3                              |
|      | Age 18-24 | 9,155         | 491.4                             |
|      | Age 25-34 | 24,382        | 848.6                             |
|      | Age 35-44 | 13,765        | 565.8                             |
|      | Age 45-54 | 11,904        | 442.8                             |
|      | Age 55+   | 6,760         | 119.9                             |

| <b>Year</b> | <b>Age Group</b> | <b>OASAS Clients</b> | <b>Crude rate per 100,000 population</b> |
|-------------|------------------|----------------------|--|
| 2015        | Age 12-17        | 590                  | 41.7                                     |
|             | Age 18-24        | 10,389               | 545.7                                    |
|             | Age 25-34        | 22,903               | 802.6                                    |
|             | Age 35-44        | 12,921               | 525.6                                    |
|             | Age 45-54        | 11,839               | 433.3                                    |
|             | Age 55+          | 6,149                | 111.1                                    |
| 2014        | Age 12-17        | 684                  | 47.8                                     |
|             | Age 18-24        | 11,262               | 577.6                                    |
|             | Age 25-34        | 20,940               | 739.6                                    |
|             | Age 35-44        | 12,004               | 483.6                                    |
|             | Age 45-54        | 11,868               | 428.5                                    |
|             | Age 55+          | 5,707                | 105.3                                    |
| 2013        | Age 12-17        | 778                  | 53.6                                     |
|             | Age 18-24        | 11,669               | 590.8                                    |
|             | Age 25-34        | 18,978               | 677.6                                    |
|             | Age 35-44        | 11,814               | 471.0                                    |
|             | Age 45-54        | 11,937               | 425.3                                    |
|             | Age 55+          | 5,511                | 104.0                                    |
| 2012        | Age 12-17        | 923                  | 62.7                                     |
|             | Age 18-24        | 11,516               | 578.7                                    |
|             | Age 25-34        | 17,453               | 632.1                                    |
|             | Age 35-44        | 11,725               | 462.8                                    |
|             | Age 45-54        | 12,385               | 435.9                                    |
|             | Age 55+          | 5,288                | 102.0                                    |
| 2011        | Age 12-17        | 1,036                | 69.4                                     |
|             | Age 18-24        | 10,708               | 537.8                                    |
|             | Age 25-34        | 15,638               | 574.9                                    |
|             | Age 35-44        | 12,043               | 470.5                                    |
|             | Age 45-54        | 12,472               | 434.7                                    |
|             | Age 55+          | 4,722                | 93.3                                     |
| 2010        | Age 12-17        | 1,046                | 68.8                                     |
|             | Age 18-24        | 9,953                | 501.8                                    |
|             | Age 25-34        | 14,477               | 542.2                                    |
|             | Age 35-44        | 12,508               | 481.2                                    |
|             | Age 45-54        | 12,605               | 437.8                                    |
|             | Age 55+          | 4,310                | 87.1                                     |

Data source: New York State Office of Alcoholism and Substance Abuse Services (OASAS); Data as of May 2019.  
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**Data Table 58. Unique clients admitted to OASAS-certified chemical dependence treatment programs for any opioid, crude rate per 100,000 population, by gender, New York State, 2010-2018**

| Year | Female        |                                   | Male          |                                   |
|------|---------------|-----------------------------------|---------------|-----------------------------------|
|      | OASAS Clients | Crude rate per 100,000 population | OASAS Clients | Crude rate per 100,000 population |
| 2018 | 20,150        | 230.7                             | 41,964        | 517.7                             |
| 2017 | 21,153        | 241.8                             | 44,082        | 543.1                             |
| 2016 | 21,234        | 242.3                             | 45,212        | 556.2                             |
| 2015 | 20,704        | 236.1                             | 44,087        | 542.6                             |
| 2014 | 19,562        | 223.1                             | 42,903        | 528.8                             |
| 2013 | 18,795        | 214.8                             | 41,892        | 517.7                             |
| 2012 | 18,252        | 209.2                             | 41,038        | 509.2                             |
| 2011 | 17,109        | 197.0                             | 39,510        | 493.3                             |
| 2010 | 16,258        | 188.1                             | 38,641        | 485.5                             |

Data source: New York State Office of Alcoholism and Substance Abuse Services (OASAS); Data as of May 2019.  
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**Data Table 59. Unique clients admitted to OASAS-certified chemical dependence treatment programs for any opioid (including heroin), crude rate per 100,000 population, by race/ethnicity, New York State, 2010-2018**

| Year | Race/ethnicity | OASAS Clients | Crude rate per 100,000 population |
|------|----------------|---------------|-----------------------------------|
| 2018 | White NH       | 37,907        | 391.9                             |
|      | Black NH       | 8,411         | 334.8                             |
|      | Other NH       | 2,393         | 149.4                             |
|      | Hispanic       | 13,403        | 439.2                             |
| 2017 | White NH       | 40,728        | 418.2                             |
|      | Black NH       | 8,588         | 341.2                             |
|      | Other NH       | 2,468         | 156.2                             |
|      | Hispanic       | 13,451        | 443.9                             |
| 2016 | White NH       | 41,751        | 425.9                             |
|      | Black NH       | 8,471         | 336.1                             |
|      | Other NH       | 2,375         | 152.5                             |
|      | Hispanic       | 13,849        | 459.7                             |
| 2015 | White NH       | 40,752        | 413.1                             |
|      | Black NH       | 8,236         | 327.0                             |
|      | Other NH       | 2,358         | 154.5                             |
|      | Hispanic       | 13,445        | 450.4                             |
| 2014 | White NH       | 38,972        | 392.9                             |
|      | Black NH       | 8,145         | 324.0                             |
|      | Other NH       | 2,162         | 144.8                             |
|      | Hispanic       | 13,186        | 446.4                             |
| 2013 | White NH       | 37,705        | 378.6                             |
|      | Black NH       | 8,351         | 333.4                             |
|      | Other NH       | 1,819         | 124.6                             |
|      | Hispanic       | 12,812        | 438.9                             |
| 2012 | White NH       | 35,939        | 359.9                             |
|      | Black NH       | 8,704         | 349.7                             |
|      | Other NH       | 1,687         | 118.0                             |
|      | Hispanic       | 12,960        | 450.4                             |
| 2011 | White NH       | 33,115        | 331.2                             |
|      | Black NH       | 9,265         | 374.7                             |
|      | Other NH       | 1,429         | 102.4                             |
|      | Hispanic       | 12,810        | 452.8                             |
| 2010 | White NH       | 31,159        | 311.3                             |
|      | Black NH       | 9,277         | 378.0                             |
|      | Other NH       | 1,273         | 93.6                              |
|      | Hispanic       | 13,190        | 474.8                             |

Data source: New York State Office of Alcoholism and Substance Abuse Services (OASAS); Data as of May 2019.  
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**Data Table 60. Unique clients admitted to OASAS-certified chemical dependence treatment programs for any opioid (including heroin), crude rate per 100,000 population, by county, New York State, 2018**

| Region / County | OASAS Clients | Population | Crude rate per 100,000 population |
|-----------------|---------------|------------|-----------------------------------|
| Albany          | 1,205         | 270,200    | 446.0                             |
| Allegany        | 198           | 40,411     | 490.0                             |
| Bronx           | 6,195         | 1,190,745  | 520.3                             |
| Broome          | 1,158         | 167,440    | 691.6                             |
| Cattaraugus     | 398           | 65,927     | 603.7                             |
| Cayuga          | 301           | 67,411     | 446.5                             |
| Chautauqua      | 643           | 111,148    | 578.5                             |
| Chemung         | 375           | 72,441     | 517.7                             |
| Chenango        | 210           | 41,215     | 509.5                             |
| Clinton         | 427           | 71,101     | 600.6                             |
| Columbia        | 270           | 53,563     | 504.1                             |
| Cortland        | 250           | 41,843     | 597.5                             |
| Delaware        | 140           | 39,901     | 350.9                             |
| Dutchess        | 1,271         | 259,535    | 489.7                             |
| Erie            | 3,660         | 798,484    | 458.4                             |
| Essex           | 122           | 33,511     | 364.1                             |
| Franklin        | 224           | 43,968     | 509.5                             |
| Fulton          | 241           | 46,676     | 516.3                             |
| Genesee         | 343           | 49,947     | 686.7                             |
| Greene          | 250           | 42,529     | 587.8                             |
| Hamilton        | 10            | 4,107      | 243.5                             |
| Herkimer        | 222           | 53,644     | 413.8                             |
| Jefferson       | 455           | 92,620     | 491.3                             |
| Kings           | 5,381         | 2,169,904  | 248.0                             |
| Lewis           | 74            | 22,497     | 328.9                             |
| Livingston      | 195           | 56,172     | 347.1                             |
| Madison         | 214           | 62,289     | 343.6                             |
| Monroe          | 3,000         | 641,831    | 467.4                             |
| Montgomery      | 226           | 42,076     | 537.1                             |
| Nassau          | 2,433         | 1,171,352  | 207.7                             |
| New York        | 5,744         | 1,463,157  | 392.6                             |
| Niagara         | 1,317         | 183,162    | 719.0                             |
| Oneida          | 1,194         | 197,505    | 604.5                             |
| Onondaga        | 2,027         | 397,667    | 509.7                             |
| Ontario         | 549           | 95,822     | 572.9                             |
| Orange          | 1,446         | 319,151    | 453.1                             |
| Orleans         | 201           | 35,597     | 564.7                             |
| Oswego          | 689           | 101,907    | 676.1                             |
| Otsego          | 148           | 53,551     | 276.4                             |
| Putnam          | 250           | 87,119     | 287.0                             |
| Queens          | 2,905         | 1,963,052  | 148.0                             |
| Rensselaer      | 678           | 138,936    | 488.0                             |
| Richmond        | 1,826         | 408,660    | 446.8                             |

| Region / County | OASAS Clients | Population | Crude rate per 100,000 population |
|-----------------|---------------|------------|-----------------------------------|
| Rockland        | 579           | 264,464    | 218.9                             |
| Saratoga        | 556           | 200,520    | 277.3                             |
| Schenectady     | 719           | 133,441    | 538.8                             |
| Schoharie       | 83            | 27,693     | 299.7                             |
| Schuyler        | 57            | 15,669     | 363.8                             |
| Seneca          | 183           | 29,911     | 611.8                             |
| St Lawrence     | 496           | 93,926     | 528.1                             |
| Steuben         | 382           | 82,559     | 462.7                             |
| Suffolk         | 5,297         | 1,283,968  | 412.5                             |
| Sullivan        | 502           | 65,000     | 772.3                             |
| Tioga           | 137           | 42,152     | 325.0                             |
| Tompkins        | 275           | 93,016     | 295.6                             |
| Ulster          | 796           | 158,611    | 501.9                             |
| Warren          | 221           | 56,821     | 388.9                             |
| Washington      | 200           | 53,890     | 371.1                             |
| Wayne           | 400           | 77,592     | 515.5                             |
| Westchester     | 1,890         | 832,219    | 227.1                             |
| Wyoming         | 157           | 35,204     | 446.0                             |
| Yates           | 119           | 21,217     | 560.9                             |

Data source: New York State Office of Alcoholism and Substance Abuse Services (OASAS); Data as of May 2019.

\* Fewer than 10 events in the numerator, therefore the rate is unstable.

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**Data Table 62. Patients who received at least one buprenorphine prescription for opioid use disorder, crude rate per 1,000 population, by region, New York State, 2015-2018**

| Year | New York City      |                                 | NYS excluding NYC  |                                 | New York State     |                                 |
|------|--------------------|---------------------------------|--------------------|---------------------------------|--------------------|---------------------------------|
|      | Number of patients | Crude rate per 1,000 population | Number of patients | Crude rate per 1,000 population | Number of patients | Crude rate per 1,000 population |
| 2018 | 15,486             | 1.8                             | 56,893             | 5.1                             | 72,434             | 3.7                             |
| 2017 | 14,432             | 1.7                             | 51,912             | 4.7                             | 66,398             | 3.4                             |
| 2016 | 14,038             | 1.7                             | 47,728             | 4.3                             | 61,817             | 3.1                             |
| 2015 | 13,438             | 1.6                             | 44,576             | 4.0                             | 58,059             | 3.0                             |

New York State total contains number with county unknown.

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 63. Patients who received at least one buprenorphine prescription for opioid use disorder, crude rate per 1,000 population, by age, New York State, 2015 and 2018**

| Age group | 2015               |                                 | 2018               |                                 |
|-----------|--------------------|---------------------------------|--------------------|---------------------------------|
|           | Number of patients | Crude rate per 1,000 population | Number of patients | Crude rate per 1,000 population |
| Age 18-24 | 5,884              | 3.1                             | 3,565              | 2.0                             |
| Age 25-34 | 22,478             | 7.9                             | 25,559             | 8.9                             |
| Age 35-44 | 13,922             | 5.7                             | 20,586             | 8.5                             |
| Age 45-54 | 9,436              | 3.5                             | 12,111             | 4.7                             |
| Age 55-64 | 5,109              | 2.0                             | 8,138              | 3.1                             |
| Age 65+   | 1,098              | 0.4                             | 2,361              | 0.7                             |

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 64. Patients who received at least one buprenorphine prescription for opioid use disorder, crude rate per 1,000 population, by gender, New York State, 2015-2018**

| Year | Male               |                                 | Female             |                                 |
|------|--------------------|---------------------------------|--------------------|---------------------------------|
|      | Number of patients | Crude rate per 1,000 population | Number of patients | Crude rate per 1,000 population |
| 2018 | 46,083             | 4.9                             | 26,345             | 2.6                             |
| 2017 | 42,393             | 4.5                             | 23,998             | 2.4                             |
| 2016 | 39,810             | 4.2                             | 22,005             | 2.2                             |
| 2015 | 37,267             | 3.9                             | 20,785             | 2.1                             |

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 65. Patients who received at least one buprenorphine prescription for opioid use disorder, crude rate per 1,000 population, by age and gender, New York State, 2018**

| Age group | Gender | Number of patients | Crude rate per 1,000 population |
|-----------|--------|--------------------|---------------------------------|
| Age 18-24 | Male   | 2,061              | 2.3                             |
|           | Female | 1,504              | 1.7                             |
| Age 25-34 | Male   | 15,986             | 11.1                            |
|           | Female | 9,570              | 6.7                             |
| Age 35-44 | Male   | 13,064             | 10.9                            |
|           | Female | 7,521              | 6.1                             |
| Age 45-54 | Male   | 7,939              | 6.4                             |
|           | Female | 4,171              | 3.2                             |
| Age 55-64 | Male   | 5,400              | 4.3                             |
|           | Female | 2,738              | 2.0                             |
| Age 65+   | Male   | 1,566              | 1.1                             |
|           | Female | 794                | 0.4                             |

Data Source: NYS Prescription Monitoring Program; Data as of April 2019.

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**Data Table 67. Naloxone administration reports by law enforcement and community programs, by quarter, New York State, 2018**

| Source                | Quarter 1<br>January -<br>March | Quarter 2<br>April -<br>June | Quarter 3<br>July -<br>September | Quarter 4<br>October -<br>December | 2018<br>Total |
|-----------------------|---------------------------------|------------------------------|----------------------------------|------------------------------------|---------------|
| Law<br>Enforcement    | 333                             | 334                          | 356                              | 239                                | 1,262         |
| Community<br>Programs | 490                             | 702                          | 745                              | 728                                | 2,665         |

Data source: New York State Department of Health AIDS Institute. Law enforcement data as of April 2019; COOP program data as of May 2019.

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**Data Table 68. Naloxone administration reports by law enforcement and community programs, by patient age group, New York State, 2018**

| Age Group | Law Enforcement | Community Programs |
|-----------|-----------------|--------------------|
| Age 0-17  | 9               | 9                  |
| Age 18-24 | 208             | 305                |
| Age 25-44 | 792             | 1,776              |
| Age 45-64 | 180             | 494                |
| Age 65+   | 16              | 43                 |
| Unknown   | 57              | 85                 |

Data sources: New York State Department of Health AIDS Institute. Law enforcement data as of April 2019; COOP program data as of May 2019.

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**Data Table 69. Naloxone administration reports by law enforcement and community programs, by patient gender, New York State, 2018**

| Gender                     | Law Enforcement | Community Programs |
|----------------------------|-----------------|--------------------|
| Female                     | 391             | 941                |
| Male                       | 860             | 1,728              |
| Other,* Missing or Unknown | 11              | 43                 |

Data sources: New York State Department of Health AIDS Institute. Law enforcement data as of April 2019; COOP program data as of May 2019.

\* Other includes "Transgender", "Intersex", and "Other, not specified".

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**Data Table 70. Unique naloxone administrations by EMS agencies, by region, New York State, 2015-2018**

|             | <b>New York City</b> | <b>NYS excluding NYC</b> | <b>New York State</b> |
|-------------|----------------------|--------------------------|-----------------------|
| <b>2018</b> | <b>6,890</b>         | <b>6,899</b>             | <b>13,789</b>         |
| Q1          | 1,432                | 1,606                    | 3,038                 |
| Q2          | 1,846                | 1,879                    | 3,725                 |
| Q3          | 2,045                | 1,901                    | 3,946                 |
| Q4          | 1,567                | 1,513                    | 3,080                 |
| <b>2017</b> | <b>7,742</b>         | <b>8,193</b>             | <b>15,935</b>         |
| Q1          | 1,746                | 2,040                    | 3,786                 |
| Q2          | 2,061                | 2,267                    | 4,328                 |
| Q3          | 2,194                | 2,151                    | 4,345                 |
| Q4          | 1,741                | 1,735                    | 3,476                 |
| <b>2016</b> | <b>7,556</b>         | <b>7,698</b>             | <b>15,254</b>         |
| Q1          | 1,373                | 1,697                    | 3,070                 |
| Q2          | 1,848                | 1,916                    | 3,764                 |
| Q3          | 2,377                | 2,003                    | 4,380                 |
| Q4          | 1,958                | 2,082                    | 4,040                 |
| <b>2015</b> | <b>4,563</b>         | <b>5,638</b>             | <b>10,201</b>         |
| Q1          | 939                  | 1,039                    | 1,978                 |
| Q2          | 1,374                | 1,556                    | 2,930                 |
| Q3          | 1,473                | 1,534                    | 3,007                 |
| Q4          | 777                  | 1,509                    | 2,286                 |

Data source: New York State Department of Health, Bureau of Emergency Medical Services; Data as of June 2019.

Note: Counts may have been affected by changes in documentation systems used by EMS agencies. Additional data validation steps have been taken to de-duplicate multiple naloxone administrations for the same patient encounter.

As a result, counts may differ from previous reports.

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**Data Table 71. Unique naloxone administrations by EMS agencies, by age group, gender, and incident location type, New York State,\* 2018**

| Subpopulation          | Number | Percentage |
|------------------------|--------|------------|
| Patient Age            |        |            |
| Age 0-17               | 117    | 0.9%       |
| Age 18-24              | 998    | 7.5%       |
| Age 25-44              | 5,553  | 41.7%      |
| Age 45-64              | 4,864  | 36.5%      |
| Age 65+                | 1,682  | 12.6%      |
| Unknown                | 94     | 0.7%       |
| Patient Gender         |        |            |
| Male                   | 9,050  | 68.0%      |
| Female                 | 4,203  | 31.6%      |
| Unknown                | 55     | 0.4%       |
| Incident Location Type |        |            |
| Public                 | 3,000  | 22.5%      |
| Residential            | 6,991  | 52.5%      |
| Unknown                | 3,317  | 24.9%      |

Data source: New York State Department of Health, Bureau of Emergency Medical Services; Data as of June 2019.

\*Data for Suffolk County were not available.

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**Data Table 72. Unique naloxone administrations by EMS agencies, by month of incident, New York State,\* 2018**

| Month of Unique Naloxone Administration Incident | Number | Percentage |
|--|--------|------------|
| January  | 1,060  | 8.0%       |
| February   | 845    | 6.3%       |
| March  | 1,016  | 7.6%       |
| April  | 1,074  | 8.1%       |
| May  | 1,232  | 9.3%       |
| June   | 1,302  | 9.8%       |
| July   | 1,341  | 10.1%      |
| August   | 1,318  | 9.9%       |
| September  | 1,133  | 8.5%       |
| October  | 1,103  | 8.3%       |
| November   | 959    | 7.2%       |
| December   | 925    | 7.0%       |

Data source: New York State Department of Health, Bureau of Emergency Medical Services; Data as of June 2019.

\*Data for Suffolk County were not available.

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**Data Table 73. Unique naloxone administrations by EMS agencies, by incident day of week, New York State,\* 2018**

| <b>Day of Unique Naloxone Administration Incident</b> | <b>Number</b> | <b>Percentage</b> |
|---|---------------|-------------------|
| Sunday  | 1,688         | 12.7%             |
| Monday  | 1,739         | 13.1%             |
| Tuesday   | 1,779         | 13.4%             |
| Wednesday   | 1,832         | 13.8%             |
| Thursday  | 1,932         | 14.5%             |
| Friday  | 2,162         | 16.2%             |
| Saturday  | 2,176         | 16.4%             |

Data source: New York State Department of Health, Bureau of Emergency Medical Services; Data as of June 2019.

\*Data for Suffolk County were not available.

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**Data Table 74. Unique naloxone administrations by EMS agencies, crude rate per 1,000 unique 911 EMS dispatches, by county, New York State,\* 2018**

| <b>County</b> | <b>Total 2018<br/>(numerator)</b> | <b>Unique EMS<br/>Dispatch Volume<br/>(denominator)</b> | <b>Crude rate per 1,000</b> |
|---------------|-----------------------------------|---|-----------------------------|
| Albany        | 307                               | 75,267  | 4.1                         |
| Allegany      | 26                                | 7,661   | 3.4                         |
| Broome        | 216                               | 38,836  | 5.6                         |
| Cattaraugus   | 46                                | 13,022  | 3.5                         |
| Cayuga        | 32                                | 9,387   | 3.4                         |
| Chautauqua    | 108                               | 20,759  | 5.2                         |
| Chemung       | 120                               | 13,841  | 8.7                         |
| Chenango      | 20                                | 5,536   | 3.6                         |
| Clinton       | 19                                | 4,788   | 4.0                         |
| Columbia      | 66                                | 12,413  | 5.3                         |
| Cortland      | 27                                | 7,310   | 3.7                         |
| Delaware      | 17                                | 4,936   | 3.4                         |
| Dutchess      | 417                               | 52,072  | 8.0                         |
| Erie          | 648                               | 113,337   | 5.7                         |
| Essex         | 5                                 | 2,971   | 1.7                         |
| Franklin      | 12                                | 3,067   | 3.9                         |
| Fulton        | 28                                | 6,669   | 4.2                         |
| Genesee       | 46                                | 9,773   | 4.7                         |
| Greene        | 50                                | 8,859   | 5.6                         |
| Hamilton      | 0                                 | 415   | 0.0                         |
| Herkimer      | 30                                | 8,968   | 3.3                         |
| Jefferson     | 66                                | 15,543  | 4.2                         |
| Lewis         | 8                                 | 2,209   | 3.6                         |
| Livingston    | 33                                | 9,995   | 3.3                         |
| Madison       | 26                                | 8,678   | 3.0                         |
| Monroe        | 668                               | 128,253   | 5.2                         |
| Montgomery    | 41                                | 10,755  | 3.8                         |
| Nassau        | 559                               | 177,657   | 3.1                         |
| Niagara       | 124                               | 20,018  | 6.2                         |
| Oneida        | 200                               | 39,048  | 5.1                         |
| Onondaga      | 557                               | 85,554  | 6.5                         |
| Ontario       | 72                                | 16,028  | 4.5                         |
| Orange        | 349                               | 49,760  | 7.0                         |
| Orleans       | 30                                | 4,788   | 6.3                         |
| Oswego        | 128                               | 19,074  | 6.7                         |
| Otsego        | 21                                | 7,573   | 2.8                         |
| Putnam        | 39                                | 12,579  | 3.1                         |
| Rensselaer    | 167                               | 19,843  | 8.4                         |
| Rockland      | 29                                | 38,446  | 0.8                         |
| St. Lawrence  | 21                                | 11,218  | 1.9                         |
| Saratoga      | 111                               | 23,557  | 4.7                         |
| Schenectady   | 164                               | 38,301  | 4.3                         |
| Schoharie     | 6                                 | 1,674   | 3.6                         |

| County                | Total 2018<br>(numerator) | Unique EMS<br>Dispatch Volume<br>(denominator) | Crude rate per 1,000 |
|-----------------------|---------------------------|--|----------------------|
| Schuyler              | 2                         | 1,806  | 1.1                  |
| Seneca                | 36                        | 3,756  | 9.6                  |
| Steuben               | 57                        | 12,442   | 4.6                  |
| Suffolk*              | 481                       | n/a  | n/a                  |
| Sullivan              | 61                        | 10,052   | 6.1                  |
| Tioga                 | 20                        | 3,667  | 5.5                  |
| Tompkins              | 74                        | 13,495   | 5.5                  |
| Ulster                | 179                       | 27,552   | 6.5                  |
| Warren                | 38                        | 9,002  | 4.2                  |
| Washington            | 31                        | 6,618  | 4.7                  |
| Wayne                 | 54                        | 12,237   | 4.4                  |
| Westchester           | 180                       | 59,299   | 3.0                  |
| Wyoming               | 12                        | 2,870  | 4.2                  |
| Yates                 | 15                        | 3,349  | 4.5                  |
| <b>NYS excl. NYC</b>  | <b>6,899</b>              | <b>1,326,583</b>                               | <b>5.2</b>           |
| <b>Bronx</b>          | <b>1,904</b>              | <b>309,668</b>                                 | <b>6.1</b>           |
| <b>Kings</b>          | <b>1,558</b>              | <b>474,268</b>                                 | <b>3.3</b>           |
| <b>New York</b>       | <b>2,075</b>              | <b>393,467</b>                                 | <b>5.3</b>           |
| <b>Queens</b>         | <b>948</b>                | <b>307,290</b>                                 | <b>3.1</b>           |
| <b>Richmond</b>       | <b>405</b>                | <b>92,525</b>                                  | <b>4.4</b>           |
| <b>New York City</b>  | <b>6,890</b>              | <b>1,577,218</b>                               | <b>4.4</b>           |
| <b>New York State</b> | <b>13,789</b>             | <b>2,903,801</b>                               | <b>4.7</b>           |

n/a: Data not available.

Data source: New York State Department of Health Bureau of Emergency Medical Services; Data as of June 2019.

Note: Rates may be unstable for counties with less than 10 naloxone administrations.

\*Dispatch data for Suffolk County were not available and, as a result, no rate could be calculated. While the NYS excluding NYC and New York State totals include the number of unique naloxone administrations reported for Suffolk County, the number of unique dispatches and the rates per 1,000 for these totals exclude Suffolk County.

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