

STATISTICAL BRIEF #219

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Opioid-Related Inpatient Stays and Emergency Department Visits by State, 2009–2014

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Introduction

The opioid epidemic has reached alarming levels in many parts of the United States, affecting the lives of thousands of individuals and families. Between 2000 and 2014, the rate of overdose deaths involving opioids in the United States increased 200 percent.¹ Between 2013 and 2014 alone, the rate of opioid overdose deaths increased 14 percent, from 7.9 to 9.0 per 100,000 population.² Hospitalizations related to opioid misuse and dependence also have increased dramatically, with the rate of adult hospital inpatient stays per 100,000 population nearly doubling between 2000 and 2012.³ The substantial increase over the past decade in the misuse of opioids, which include prescription opioids and illicit opioids such as heroin, has been declared an “opioid epidemic” by the U.S. Department of Health and Human Services (HHS).⁴

* This Statistical Brief was revised to include opioid-related external cause of injury codes (E codes) for accidental poisoning and adverse effects (E850.0–E850.2, E935.0–E935.2, E940.1) in the calculation of the State-level rates. This affected the number of inpatient stays and emergency department (ED) visits involving opioids at the State level, resulting in an increase in the rates reported for all States. Consequently, some shifts occurred in the rankings among States, both in the 2014 rate and in the percent change in rate between 2009 and 2014. Additionally, Maine was added to the list of States reported with inpatient data. The numbers for national rates, both inpatient and ED, are unchanged as E codes were included originally for national estimates.

¹ Rudd RA, Aleshire N, Zibbell JE, Gladden RM. Increases in drug and opioid overdose deaths—United States 2000–2014. *Morbidity and Mortality Weekly Report*. 2016;64:1374–82.

² *Ibid.*

³ Owens PL, Barrett ML, Weiss AJ, Washington RE, Kronick R. Hospital Inpatient Utilization Related to Opioid Overuse Among Adults, 1993–2012. HCUP Statistical Brief #177. August 2014. Agency for Healthcare Research and Quality, Rockville, MD. <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb177-Hospitalizations-for-Opioid-Overuse.jsp>. Accessed December 1, 2016.

⁴ U.S. Department of Health and Human Services. The U.S. Opioid Epidemic. Updated October 31, 2016. <http://www.hhs.gov/opioids/about-the-epidemic/#us-epidemic>. Accessed December 1, 2016.

Highlights

- Between 2005 and 2014, the national rate of opioid-related inpatient stays increased 64.1 percent and the national rate of opioid-related emergency department (ED) visits increased 99.4 percent.
- Across States, the rate of opioid-related inpatient stays in 2014 varied more than five-fold.
 - The highest hospitalization rates occurred in Maryland (403.8 stays per 100,000 population), Massachusetts (393.7), and the District of Columbia (388.8).
 - The lowest rates occurred in Iowa (72.7), Nebraska (78.6), and Wyoming (96.7).
- The rate of opioid-related inpatient stays increased in most States between 2009 and 2014, with the greatest increases in Georgia (99.8 percent), North Carolina (70.9 percent), Oregon (60.2 percent), Washington (60.1 percent), and South Dakota (59.6 percent).
- Across States, the rate of opioid-related ED visits in 2014 varied 10-fold.
 - The highest rates occurred in Massachusetts (450.2 visits per 100,000 population), Maryland (300.7), and Rhode Island (298.3).
 - The lowest rates occurred in Iowa (45.1), Nebraska (52.8), and South Dakota (63.1).
- The rate of opioid-related ED visits increased in almost all States between 2009 and 2014, with the greatest increases in Ohio (106.4 percent), South Dakota (94.7 percent), and Georgia (85.2 percent).

In March 2015, HHS launched its Opioid Initiative to help reverse the increasing trend in opioid misuse, use disorder, and overdoses, and to support State efforts to address the opioid crisis.⁵ In response to HHS initiatives, in December 2016 the Agency for Healthcare Research and Quality released statistics on opioid-related hospital use by State in the interactive, online tool for the Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats.⁶

This HCUP Statistical Brief presents data from HCUP Fast Stats on the national rate of opioid-related hospital inpatient stays and emergency department (ED) visits from 2005 to 2014. Rates for more than 40 individual States and the District of Columbia are provided for 2014 along with changes in rates for the 6-year period from 2009 to 2014. Identification of opioid-related stays and visits is based on all-listed diagnoses and includes events associated with prescription opioids or illicit opioids such as heroin. Differences greater than 10 percent between estimates are noted in the text.

⁵ U.S. Department of Health and Human Services. Opioid Abuse in the U.S. and HHS Actions to Address Opioid-Drug Related Overdoses and Deaths. March 26, 2015. <https://aspe.hhs.gov/basic-report/opioid-abuse-us-and-hhs-actions-address-opioid-drug-related-overdoses-and-deaths>. Accessed December 1, 2016.

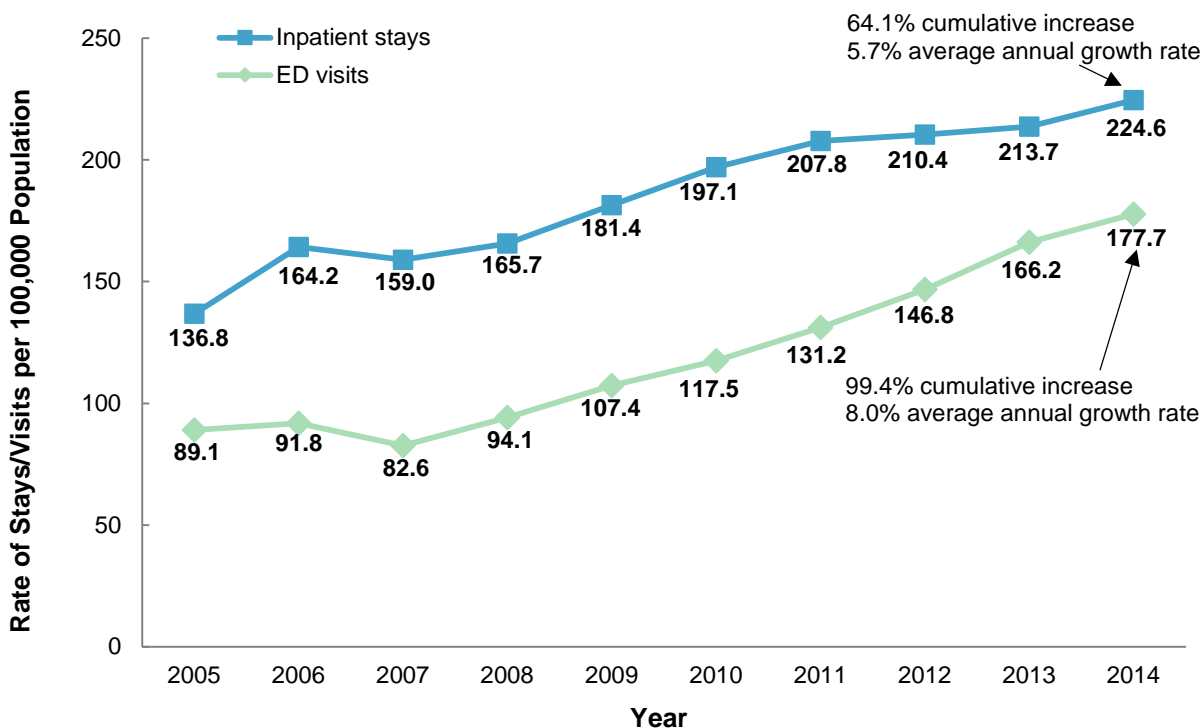
⁶ Agency for Healthcare Research and Quality. HCUP Fast Stats Web site, Opioid-Related Hospital Use path. <http://www.hcup-us.ahrq.gov/faststats/landing.jsp>. Accessed January 26, 2017.

Findings

National rate of opioid-related inpatient stays and ED visits, 2005–2014

Figure 1 presents the national rate per 100,000 population of opioid-related inpatient stays and ED visits from 2005 through 2014.

Figure 1. National rate of opioid-related inpatient stays and emergency department visits, 2005–2014



Abbreviation: ED, emergency department

Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (<http://www.hcup-us.ahrq.gov/faststats/landing.jsp>) based on the HCUP National (Nationwide) Inpatient Sample (NIS) and the HCUP Nationwide Emergency Department Sample (NEDS)

- **Overall, the population rate of opioid-related inpatient stays was higher than the rate of opioid-related ED visits.**

Between 2005 and 2014, the population rate of opioid-related inpatient stays ranged from approximately 25 to 90 percent higher than the population rate of opioid-related ED visits.

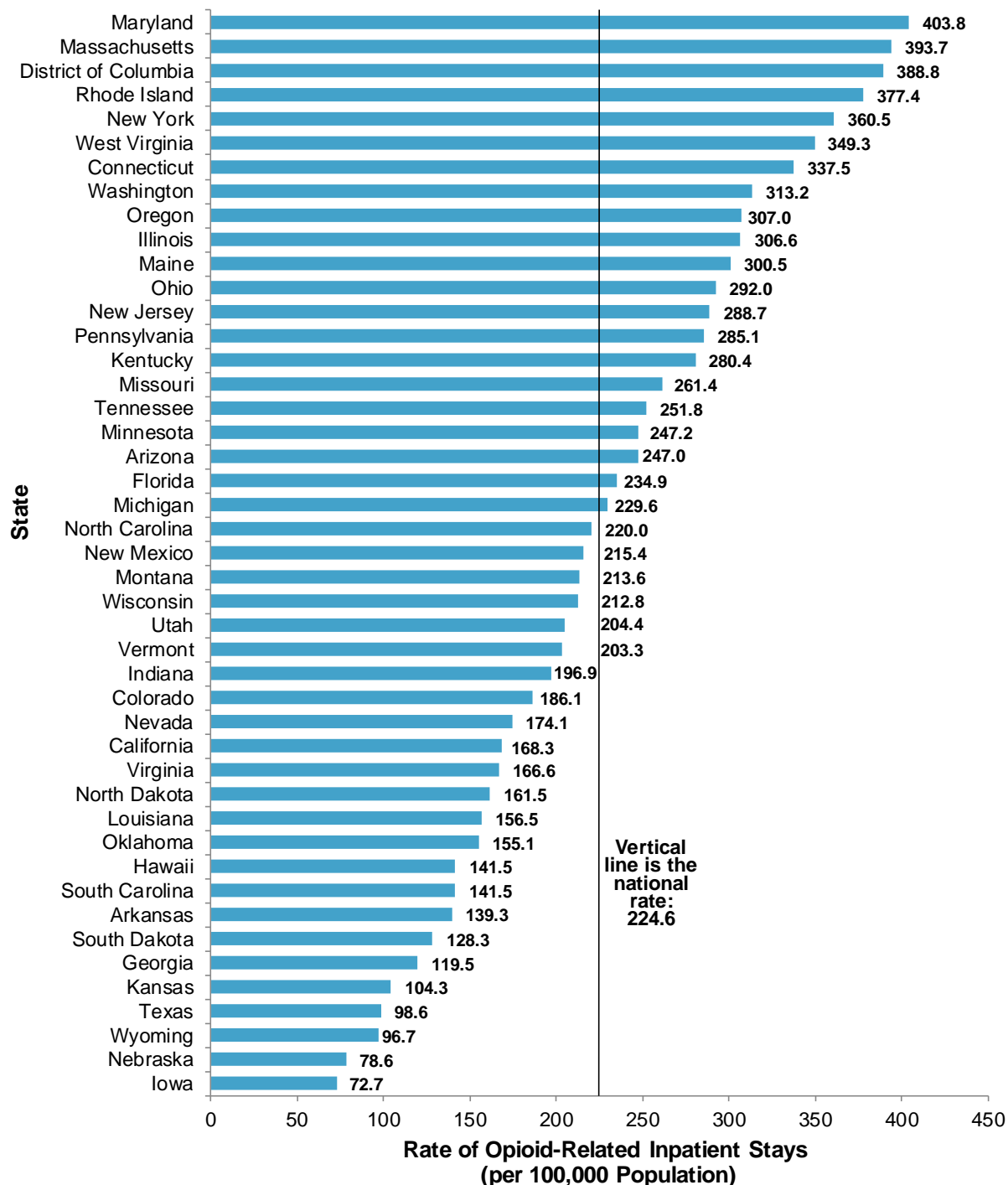
- **The rate of increase for opioid-related ED visits was greater than that for opioid-related inpatient stays.**

Between 2005 and 2014, the rate of opioid-related inpatient stays increased 64.1 percent, from 136.8 per 100,000 population in 2005 to 224.6 per 100,000 population in 2014. This represented a 5.7 percent average annual growth rate. During this same time period, the rate of opioid-related ED visits increased 99.4 percent, from 89.1 per 100,000 population in 2005 to 177.7 per 100,000 population in 2014. This represented an 8.0 percent average annual growth rate.

State rates of opioid-related inpatient stays, 2014

Figure 2 presents the rate per 100,000 population of opioid-related inpatient stays among 44 States and the District of Columbia that provided data in 2014. States are ordered according to their rate of opioid-related stays.

Figure 2. Rate of opioid-related inpatient stays by State, 2014



Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (<http://www.hcup-us.ahrq.gov/faststats/landing.jsp>) based on the HCUP National Inpatient Sample (NIS) and the HCUP State Inpatient Databases (SID)

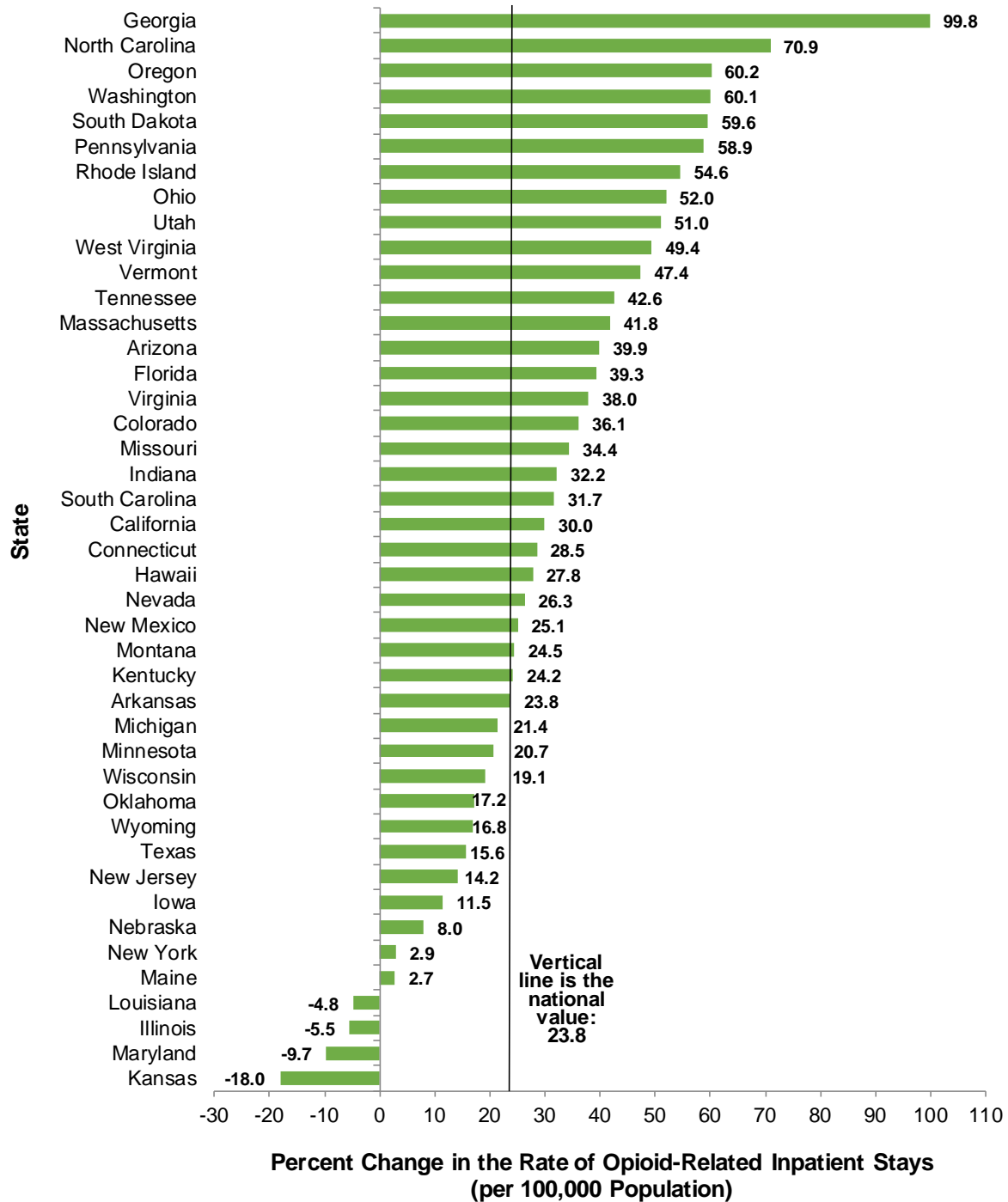
- **The rate of opioid-related inpatient stays varied by a factor of 5.6 across 44 States and the District of Columbia in 2014.**

In 2014, the highest rate of opioid-related inpatient stays was in Maryland (403.8 stays per 100,000 population), which was 5.6 times higher than the lowest rate in Iowa (72.7). Following Maryland, the next highest rates of opioid-related inpatient stays were in Massachusetts (393.7), the District of Columbia (388.8), Rhode Island (377.4), and New York (360.5).

The next lowest rates of opioid-related inpatient stays above Iowa were in Nebraska (78.6), Wyoming (96.7), Texas (98.6), and Kansas (104.3).

Figure 3 illustrates the percent change in the population rate of opioid-related inpatient stays from 2009 to 2014 among 43 States with data available in both years. States are ordered according to the percent change in their rate of opioid-related stays over the 6-year time period.

Figure 3. Cumulative percent change in the rate of opioid-related inpatient stays by State, 2009–2014



Note: Percent change could not be calculated for North Dakota or the District of Columbia because data were not available in 2009.
 Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (<http://www.hcup-us.ahrq.gov/faststats/landing.jsp>) based on the HCUP National (Nationwide) Inpatient Sample (NIS) and the HCUP State Inpatient Databases (SID)

- **Most States had an increase in the rate of opioid-related inpatient stays between 2009 and 2014, with Georgia having the largest increase at 99.8 percent.**

The vast majority of States (36 of 43 States) had an increase of at least 10 percent in the population-based rate of opioid-related inpatient stays between 2009 and 2014. The largest increases occurred in Georgia (99.8 percent increase), North Carolina (70.9 percent increase), Oregon (60.2 percent increase), Washington (60.1 percent increase), and South Dakota (59.6 percent increase).

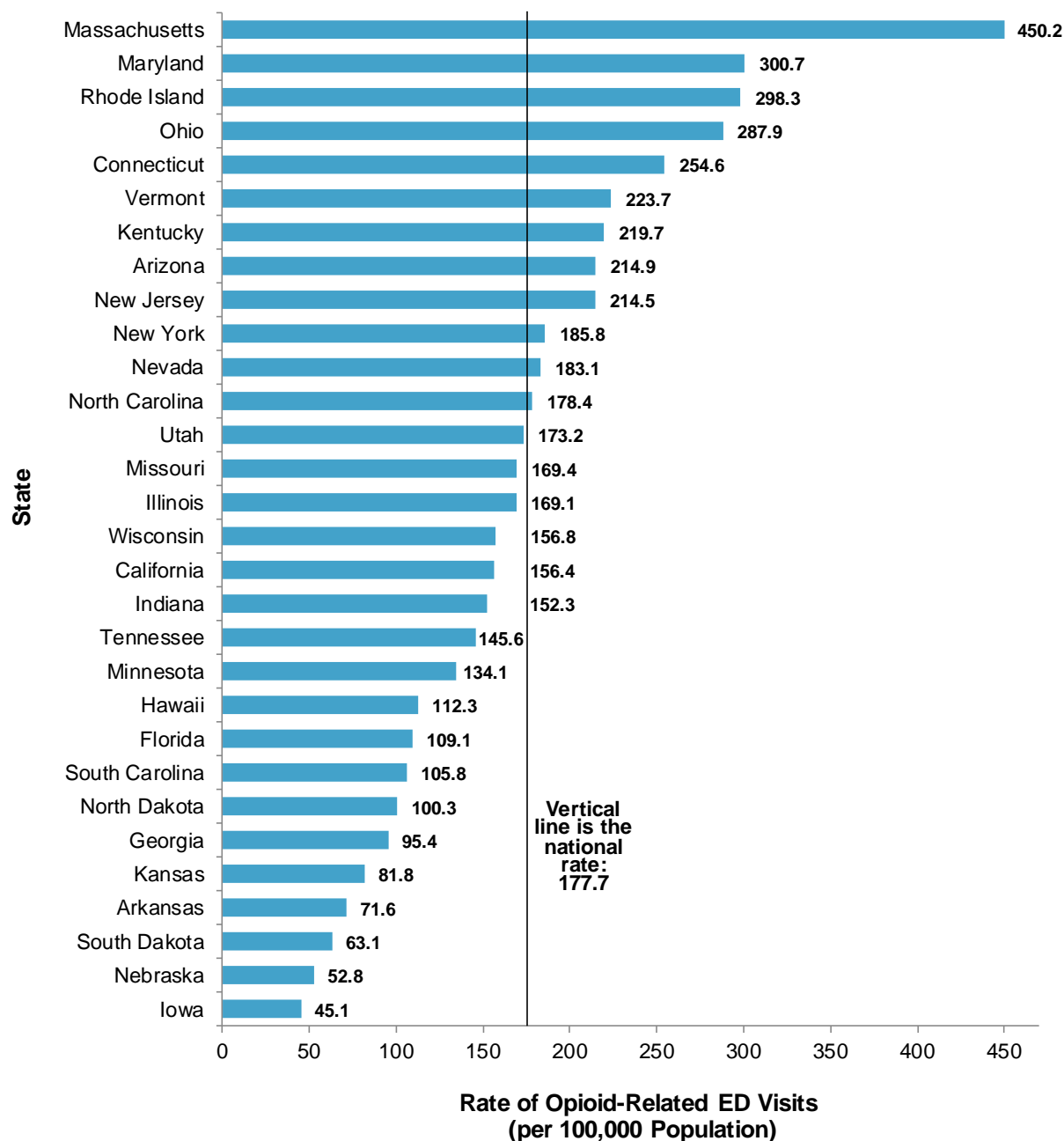
Six States had a relatively stable rate of opioid-related inpatient stays, with a 6-year change in rate (increase or decrease) of less than 10 percent: Nebraska, New York, Maine, Louisiana, Illinois, and Maryland. In 2014, New York, Illinois, and Maryland were among the top 10 States in rate of opioid-related inpatient stays, as shown in Figure 2.

Only one State, Kansas, showed a substantial decrease in the rate of opioid-related hospital inpatient stays (18.0 percent decrease). In 2014, Kansas was among the States with the lowest rate of opioid-related inpatient stays (104.3 stays per 100,000 population, as shown in Figure 2).

State rates of opioid-related ED visits, 2014

Figure 4 presents the rate per 100,000 population of opioid-related ED visits among 30 States that provided data in 2014. States are ordered according to their rate of opioid-related ED visits.

Figure 4. Rate of opioid-related emergency department visits by State, 2014



Abbreviation: ED, emergency department

Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (<http://www.hcup-us.ahrq.gov/faststats/landing.jsp>) based on the HCUP Nationwide Emergency Department Sample (NEDS) and the HCUP State Emergency Department Databases (SEDD)

■ **The rate of opioid-related ED visits varied 10-fold across 30 States in 2014.**

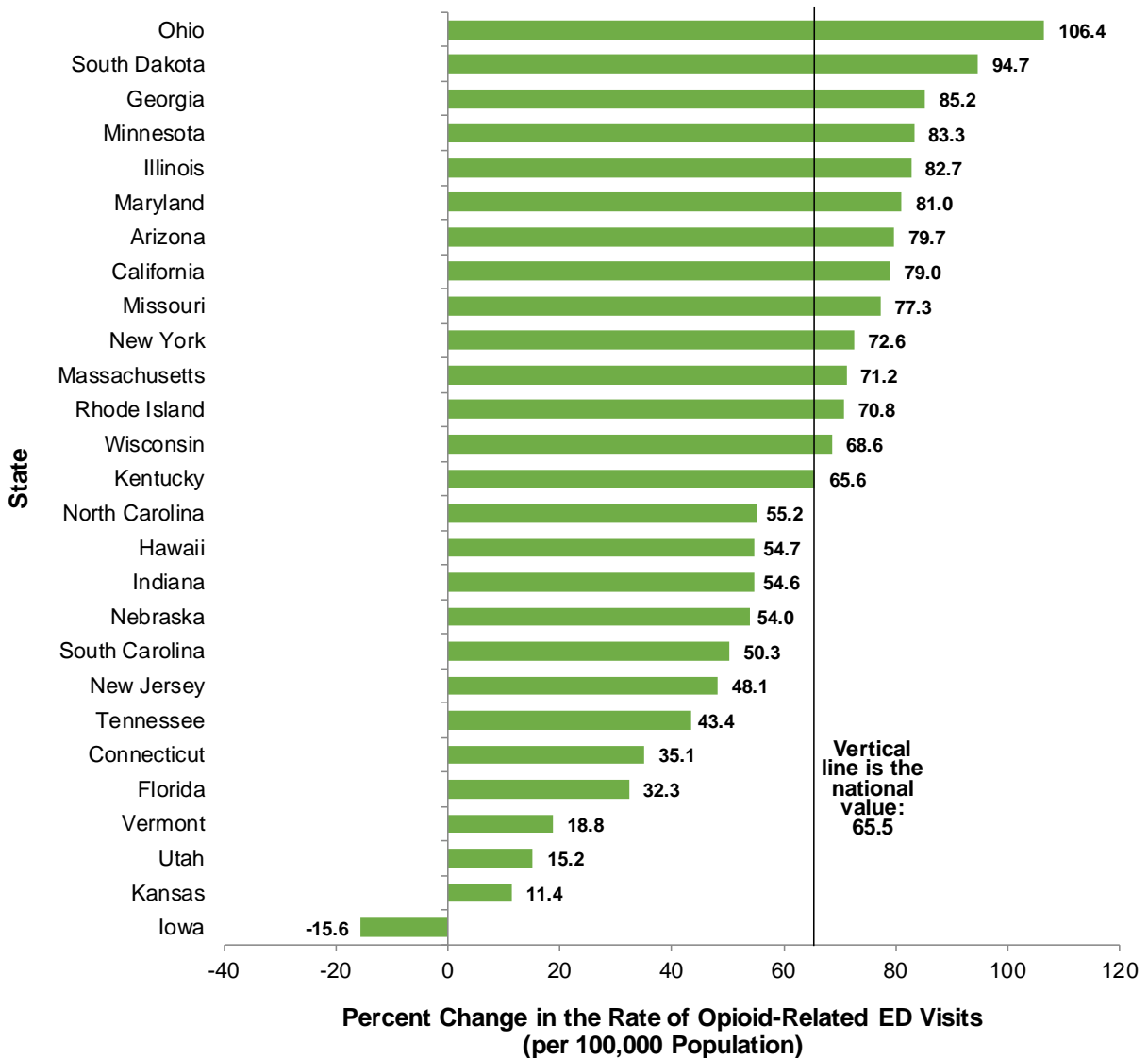
In 2014, the highest rate of opioid-related ED visits was in Massachusetts (450.2 visits per 100,000 population), which was approximately 10 times higher than the lowest rate in Iowa (45.1). Following Massachusetts, the next highest rates of opioid-related ED visits were in Maryland (300.7), Rhode Island (298.3), Ohio (287.9), and Connecticut (254.6).

The next lowest rates above Iowa were in Nebraska (52.8), South Dakota (63.1), Arkansas (71.6), and Kansas (81.8).

States with the highest opioid-related rate for inpatient stays also tended to have the highest opioid-related rate for ED visits: there was a strong, positive correlation (0.85) between States' opioid-related population rates for inpatient stays and ED visits.

Figure 5 illustrates the percent change in the population rate of opioid-related ED visits from 2009 to 2014 among 27 States with data available in both years. States are ordered according to the percent change in their rate of opioid-related ED visits over the 6-year time period.

Figure 5. Cumulative percent change in the rate of opioid-related emergency department visits by State, 2009–2014



Abbreviation: ED, emergency department

Notes: Percent change could not be calculated for three States (Arkansas, Nevada, North Dakota) because rates were not available in 2009.

Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), HCUP Fast Stats, Opioid-Related Hospital Use (<http://www.hcup-us.ahrq.gov/faststats/landing.jsp>) based on the HCUP Nationwide Emergency Department Sample (NEDS) and the HCUP State Emergency Department Databases (SEDD)

- **Almost all States had an increase in the rate of opioid-related ED visits between 2009 and 2014, with Ohio having the largest increase at 106.4 percent.**

Almost all States (26 of 27 States) had an increase of at least 10 percent in the population rate of opioid-related ED visits between 2009 and 2014. The highest rate increases occurred in Ohio (106.4 percent increase), South Dakota (94.7 percent increase), and Georgia (85.2 percent increase).

Only one State, Iowa, showed a substantial decrease in the rate of opioid-related ED visits (15.6 percent decrease). Iowa also had the lowest rate of opioid-related ED visits (45.1 visits per 100,000 population, as shown in Figure 4).

Data Source

The estimates in this Statistical Brief are based upon data from the Healthcare Cost and Utilization Project (HCUP) 2005–2014 National (Nationwide) Inpatient Sample (NIS), 2005–2014 Nationwide Emergency Department Sample (NEDS), 2009–2014 State Inpatient Databases (SID), and 2009–2014 State Emergency Department Databases (SEDD). The statistics were generated from HCUP Fast Stats, a free, online tool that provides users with easy access to the latest HCUP-based statistics for health information topics, including opioid-related hospital use.⁷

Inpatient statistics from HCUP Fast Stats were available for the following 44 individual States and the District of Columbia in 2009 and 2014: Arizona, Arkansas, California, Colorado, Connecticut, District of Columbia (2014 only), Florida, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, North Dakota (2014 only), Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

Emergency department (ED) statistics from HCUP Fast Stats were available for the following 30 individual States in 2009 and 2014: Arizona, Arkansas (2014 only), California, Connecticut, Florida, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Minnesota, Missouri, Nebraska, Nevada (2014 only), New Jersey, New York, North Carolina, North Dakota (2014 only), Ohio, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Vermont, and Wisconsin.

Definitions

Diagnoses and ICD-9-CM

The *principal diagnosis* is that condition established after study to be chiefly responsible for the patient's admission to the hospital. *Secondary diagnoses* are concomitant conditions that coexist at the time of admission or develop during the stay. *All-listed diagnoses* include the principal diagnosis plus these additional secondary conditions.

ICD-9-CM is the International Classification of Diseases, Ninth Revision, Clinical Modification, which assigns numeric codes to diagnoses. There are approximately 14,000 ICD-9-CM diagnosis codes.

Case definition

Opioid-related hospital use was identified using the following all-listed ICD-9-CM diagnosis codes:

- 304.00–304.02: Opioid type dependence (unspecified; continuous; episodic)
- 304.70–304.72: Combinations of opioid type drug with any other drug dependence (unspecified; continuous; episodic)
- 305.50–305.52: Opioid abuse (unspecified; continuous; episodic)
- 965.00–965.02; 965.09: Poisoning by opium (alkaloids), unspecified; heroin; methadone; other opiates and related narcotics
- 970.1: Poisoning by opiate antagonists
- E850.0–E850.2: Accidental poisoning by heroin; methadone; other opiates and related narcotics
- E935.0–E935.2: Heroin, methadone, other opiates and related narcotics causing adverse effects in therapeutic use
- E940.1: Opiate antagonists causing adverse effects in therapeutic use

It should be noted that ICD-9-CM diagnosis codes related to opioid dependence or abuse “in remission” were not used to identify opioid-related hospital use because remission does not indicate active use of opioids. Potential changes in the use of ICD-9-CM codes identifying opioid use cannot be isolated in these analyses.

⁷ Agency for Healthcare Research and Quality. HCUP Fast Stats Web site, Opioid-Related Hospital Use path. <http://www.hcup-us.ahrq.gov/faststats/landing.jsp>. Accessed January 26, 2017.

Types of hospitals included in the HCUP National (Nationwide) Inpatient Sample

The National (Nationwide) Inpatient Sample (NIS) is based on data from community hospitals, which are defined as short-term, non-Federal, general, and other hospitals, excluding hospital units of other institutions (e.g., prisons). The NIS includes obstetrics and gynecology, otolaryngology, orthopedic, cancer, pediatric, public, and academic medical hospitals. Excluded are long-term care facilities such as rehabilitation, psychiatric, and alcoholism and chemical dependency hospitals. Beginning in 2012, long-term acute care hospitals are also excluded. However, if a patient received long-term care, rehabilitation, or treatment for a psychiatric or chemical dependency condition in a community hospital, the discharge record for that stay will be included in the NIS.

Types of hospitals included in the HCUP Nationwide Emergency Department Sample

The Nationwide Emergency Department Sample (NEDS) is based on data from community hospitals, which are defined as short-term, non-Federal, general, and other hospitals, excluding hospital units of other institutions (e.g., prisons). The NEDS includes specialty, pediatric, public, and academic medical hospitals. Excluded are long-term care facilities such as rehabilitation, psychiatric, and alcoholism and chemical dependency hospitals. Hospitals included in the NEDS have hospital-owned emergency departments (EDs) and no more than 90 percent of their ED visits resulting in admission.

Types of hospitals included in HCUP State Inpatient Databases

This analysis used State Inpatient Databases (SID) limited to data from community hospitals, which are defined as short-term, non-Federal, general, and other hospitals, excluding hospital units of other institutions (e.g., prisons). Community hospitals include obstetrics and gynecology, otolaryngology, orthopedic, cancer, pediatric, public, and academic medical hospitals. Excluded for this analysis are long-term care facilities such as rehabilitation, psychiatric, and alcoholism and chemical dependency hospitals. However, if a patient received long-term care, rehabilitation, or treatment for a psychiatric or chemical dependency condition in a community hospital, the discharge record for that stay was included in the analysis.

Types of hospitals included in HCUP State Emergency Department Databases

This analysis used State Emergency Department Databases (SEDD) limited to data from community hospitals with a hospital-owned emergency department. Community hospitals are defined as short-term, non-Federal, general, and other hospitals, excluding hospital units of other institutions (e.g., prisons). Community hospitals include specialty, pediatric, public, and academic medical hospitals. Excluded for this analysis are long-term care facilities such as rehabilitation, psychiatric, and alcoholism and chemical dependency hospitals.

Unit of analysis

The unit of analysis for inpatient data is the hospital discharge (i.e., the hospital stay), not a person or patient. This means that a person who is admitted to the hospital multiple times in 1 year will be counted each time as a separate discharge from the hospital. Inpatient stays include those admitted through the emergency department (ED).

The unit of analysis for ED data is the ED visit, not a person or patient. This means that a person who is seen in the ED multiple times in 1 year will be counted each time as a separate visit in the ED. ED visits exclude those for patients admitted to the hospital, including patients transferred to other hospitals.

Average annual percent change

Average annual percent change (i.e., growth rate) was calculated using the following formula:

$$\text{Average annual percent change} = \left[\left(\frac{\text{End value}}{\text{Beginning value}} \right)^{\frac{1}{\text{change in years}}} - 1 \right] \times 100$$

About HCUP

The Healthcare Cost and Utilization Project (HCUP, pronounced "H-Cup") is a family of health care databases and related software tools and products developed through a Federal-State-Industry partnership and sponsored by the Agency for Healthcare Research and Quality (AHRQ). HCUP databases bring together the data collection efforts of State data organizations, hospital associations, and

private data organizations (HCUP Partners) and the Federal government to create a national information resource of encounter-level health care data. HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. These databases enable research on a broad range of health policy issues, including cost and quality of health services, medical practice patterns, access to health care programs, and outcomes of treatments at the national, State, and local market levels.

HCUP would not be possible without the contributions of the following data collection Partners from across the United States:

Alaska State Hospital and Nursing Home Association
Arizona Department of Health Services
Arkansas Department of Health
California Office of Statewide Health Planning and Development
Colorado Hospital Association
Connecticut Hospital Association
District of Columbia Hospital Association
Florida Agency for Health Care Administration
Georgia Hospital Association
Hawaii Health Information Corporation
Illinois Department of Public Health
Indiana Hospital Association
Iowa Hospital Association
Kansas Hospital Association
Kentucky Cabinet for Health and Family Services
Louisiana Department of Health and Hospitals
Maine Health Data Organization
Maryland Health Services Cost Review Commission
Massachusetts Center for Health Information and Analysis
Michigan Health & Hospital Association
Minnesota Hospital Association
Mississippi Department of Health
Missouri Hospital Industry Data Institute
Montana MHA - An Association of Montana Health Care Providers
Nebraska Hospital Association
Nevada Department of Health and Human Services
New Hampshire Department of Health & Human Services
New Jersey Department of Health
New Mexico Department of Health
New York State Department of Health
North Carolina Department of Health and Human Services
North Dakota (data provided by the Minnesota Hospital Association)
Ohio Hospital Association
Oklahoma State Department of Health
Oregon Association of Hospitals and Health Systems
Oregon Office of Health Analytics
Pennsylvania Health Care Cost Containment Council
Rhode Island Department of Health
South Carolina Revenue and Fiscal Affairs Office
South Dakota Association of Healthcare Organizations
Tennessee Hospital Association
Texas Department of State Health Services
Utah Department of Health
Vermont Association of Hospitals and Health Systems
Virginia Health Information
Washington State Department of Health
West Virginia Health Care Authority
Wisconsin Department of Health Services

Wyoming Hospital Association

About Statistical Briefs

HCUP Statistical Briefs are descriptive summary reports presenting statistics on hospital inpatient, ambulatory surgery, and emergency department use and costs, quality of care, access to care, medical conditions, procedures, patient populations, and other topics. The reports use HCUP administrative health care data.

About the NIS

The HCUP National (Nationwide) Inpatient Sample (NIS) is a nationwide database of hospital inpatient stays. The NIS is nationally representative of all community hospitals (i.e., short-term, non-Federal, nonrehabilitation hospitals). The NIS includes all payers. It is drawn from a sampling frame that contains hospitals comprising more than 95 percent of all discharges in the United States. The vast size of the NIS allows the study of topics at the national and regional levels for specific subgroups of patients. In addition, NIS data are standardized across years to facilitate ease of use. Over time, the sampling frame for the NIS has changed; thus, the number of States contributing to the NIS varies from year to year. The NIS is intended for national estimates only; no State-level estimates can be produced.

The 2012 NIS was redesigned to optimize national estimates. The redesign incorporates two critical changes:

- Revisions to the sample design—starting with 2012, the NIS is now a *sample of discharge records from all HCUP-participating hospitals*, rather than a sample of hospitals from which all discharges were retained (as is the case for NIS years before 2012).
- Revisions to how hospitals are defined—the NIS now uses the *definition of hospitals and discharges supplied by the statewide data organizations* that contribute to HCUP, rather than the definitions used by the American Hospital Association (AHA) Annual Survey of Hospitals.

The new sampling strategy is expected to result in more precise estimates than those that resulted from the previous NIS design by reducing sampling error: for many estimates, confidence intervals under the new design are about half the length of confidence intervals under the previous design. The change in sample design for 2012 makes it necessary to recalculate prior years' NIS data to enable analyses of trends that use the same definitions of discharges and hospitals.

About the NEDS

The HCUP Nationwide Emergency Department Database (NEDS) is a unique and powerful database that yields national estimates of emergency department (ED) visits. The NEDS was constructed using records from both the HCUP State Emergency Department Databases (SEDD) and the State Inpatient Databases (SID). The SEDD capture information on ED visits that do not result in an admission (i.e., treat-and-release visits and transfers to another hospital); the SID contain information on patients initially seen in the emergency department and then admitted to the same hospital. The NEDS was created to enable analyses of ED utilization patterns and support public health professionals, administrators, policymakers, and clinicians in their decisionmaking regarding this critical source of care. The NEDS is produced annually beginning in 2006. Over time, the sampling frame for the NEDS has changed; thus, the number of States contributing to the NEDS varies from year to year. The NEDS is intended for national estimates only; no State-level estimates can be produced.

About the SID

The HCUP State Inpatient Databases (SID) are hospital inpatient databases from data organizations participating in HCUP. The SID contain the universe of the inpatient discharge abstracts in the participating HCUP States, translated into a uniform format to facilitate multistate comparisons and analyses. Together, the SID encompass more than 95 percent of all U.S. community hospital discharges. The SID can be used to investigate questions unique to one State, to compare data from two or more

States, to conduct market-area variation analyses, and to identify State-specific trends in inpatient care utilization, access, charges, and outcomes.

About the SEDD

The HCUP State Emergency Department Databases (SEDD) include information from hospital-owned emergency departments (EDs) from data organizations participating in HCUP, translated into a uniform format to facilitate multistate comparisons and analyses. The SEDD capture information on ED visits that do not result in an admission to the same hospital (i.e., patients who are treated in the ED and then discharged, transferred to another hospital, left against medical advice, or died). The SEDD contain a core set of clinical and nonclinical information on all patients, including individuals covered by Medicare, Medicaid, or private insurance, as well as those who are uninsured. The SEDD can be used to investigate questions unique to one State, to compare data from two or more States, to conduct market-area variation analyses, and to identify State-specific trends in injury surveillance, emerging infections, and other conditions treated in the ED.

About HCUP Fast Stats

HCUP Fast Stats is an interactive, online tool that provides easy access to HCUP-based statistics for select State and national health information topics. HCUP Fast Stats uses side-by-side comparisons of visual statistical displays, trend figures, or simple tables to convey complex information at a glance. Topics currently available in HCUP Fast Stats include the Effect of Health Insurance Expansion on Hospital Use by State; National Hospital Utilization and Costs; and Opioid-Related Hospital Use, National and State. HCUP Fast Stats presents statistics using data from HCUP's National (Nationwide) Inpatient Sample (NIS), the Nationwide Emergency Department Sample (NEDS), the State Inpatient Databases (SID), and the State Emergency Department Databases (SEDD).

For More Information

For other information on mental health and substance abuse, including opioids, refer to the HCUP Statistical Briefs located at http://www.hcup-us.ahrq.gov/reports/statbriefs/sb_mhsa.jsp.

For additional HCUP statistics, visit:

- HCUP Fast Stats at <http://www.hcup-us.ahrq.gov/faststats/landing.jsp> for easy access to the latest HCUP-based statistics for health information topics
- HCUPnet, HCUP's interactive query system, at <http://hcupnet.ahrq.gov/>

For more information about HCUP, visit <http://www.hcup-us.ahrq.gov/>.

For a detailed description of HCUP and more information on the design of the National (Nationwide) Inpatient Sample, Nationwide Emergency Department Sample (NEDS), State Inpatient Databases (SID), or State Emergency Department Databases (SEDD), please refer to the following database documentation:

Agency for Healthcare Research and Quality. Overview of the National (Nationwide) Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). Rockville, MD: Agency for Healthcare Research and Quality. Updated November 2015. <http://www.hcup-us.ahrq.gov/nisoverview.jsp>. Accessed February 17, 2016.

Agency for Healthcare Research and Quality. Overview of the Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). Rockville, MD: Agency for Healthcare Research and Quality. Updated January 2016. <http://www.hcup-us.ahrq.gov/nedsoverview.jsp>. Accessed February 17, 2016.

Agency for Healthcare Research and Quality. Overview of the State Inpatient Databases (SID). Healthcare Cost and Utilization Project (HCUP). Rockville, MD: Agency for Healthcare Research and

Quality. Updated January 2016. <http://www.hcup-us.ahrq.gov/sidoverview.jsp>. Accessed February 17, 2016.

Agency for Healthcare Research and Quality. Overview of the State Emergency Department Databases (SEDD). Healthcare Cost and Utilization Project (HCUP). Rockville, MD: Agency for Healthcare Research and Quality. Updated January 2016. <http://www.hcup-us.ahrq.gov/seddoverview.jsp>. Accessed February 17, 2016.

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* * *

AHRQ welcomes questions and comments from readers of this publication who are interested in obtaining more information about access, cost, use, financing, and quality of health care in the United States. We also invite you to tell us how you are using this Statistical Brief and other HCUP data and tools, and to share suggestions on how HCUP products might be enhanced to further meet your needs. Please e-mail us at hcup@ahrq.gov or send a letter to the address below:

David Knutson, Director
Center for Delivery, Organization, and Markets
Agency for Healthcare Research and Quality
5600 Fishers Lane
Rockville, MD 20857

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