

Healthcare Cost and Utilization Project (HCUP) Databases: Asthma Content

HCUP: a family of health care databases, comprising the largest collection of nationwide and state-specific longitudinal hospital care data in the United States, and software tools developed through a federal-state-industry partnership and sponsored by the Agency for Healthcare Research and Quality (AHRQ). HCUP databases are derived from administrative data and contain encounter-level, clinical and nonclinical information, including all-listed diagnoses and procedures, discharge status, patient demographics, and charges for all patients, regardless of payer, beginning in 1998. These databases are based on data collection efforts of organizations in participating states that maintain statewide data systems and 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.

HCUPnet: a free, on-line query system based on data from HCUP. It provides access to health statistics and information on hospital stays at the national, regional, and state level.

The Kids' Inpatient Database (KID): a database of hospital inpatient stays for children. Researchers and policymakers can identify, track, and analyze national trends in health care use, access, charges, quality, and outcomes.

Administered by the Agency for Healthcare Research and Quality (AHRQ), DHHS

Source Website: <http://www.ahrq.gov/research/data/hcup/index.html>

Sampling Frame and Methodology:

- Scheduled data releases
 - Medical record abstraction
 - Geography: National and State
1. State Inpatient Databases (SID): universe of inpatient discharge data from 48 States; 97% of US hospital inpatient discharges in 2016
 2. State Ambulatory Surgery Databases (SASD): data from ambulatory care encounters in 35 States in 2016
 3. State Emergency Department Databases (SEDD): emergency department abstract data for 36 States; data through 2016
 4. Nationwide Inpatient sample (NIS): 20% stratified sample of discharges from all community hospitals participating in HCUP for 46 States, plus District of Columbia in 2015
 5. Nationwide Emergency Department Sample (NEDS): 20% stratified sample of U.S. based hospital-based EDs in 34 States and District of Columbia through 2015
 6. Nationwide Readmissions Database (NRD): estimates national hospital readmission rates in 27 States in 2015
 7. Kid's Inpatient Database (KID): all-payer inpatient care for children under age 21 years for 44 States in 2012; data released every 3 years
- Note: the next year of KID data released will be 2016; 2015 contains a mix of ICD-9 and ICD-10 data due to transition to ICD-10*

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Respiratory Health Content:

- Ambulatory, emergency department, and hospital inpatient asthma visits and stays

Websites & Databases:

HCUP: <http://www.hcup-us.ahrq.gov/>

HCUP Databases: <http://www.hcup-us.ahrq.gov/databases.jsp>

HCUPnet: <http://hcupnet.ahrq.gov/>

KID: <http://www.hcup-us.ahrq.gov/kidoverview.jsp>

Publications & Reports:

Research Spotlight Reports: <http://www.hcup-us.ahrq.gov/reports/spotlights.jsp>

Reports (Statistical briefs, facts and figures, projections, etc.): <http://www.hcup-us.ahrq.gov/reports.jsp>

Fast Stats: <http://www.hcup-us.ahrq.gov/faststats/landing.jsp>

Search tool: <https://www.hcup-us.ahrq.gov/search/keyword.jsp>

Relevant Summaries and Recent Publications:

Introduction to the HCUP National Inpatient Sample (NIS) 2015: https://www.hcup-us.ahrq.gov/db/nation/nis/NIS_Introduction_2015.pdf

Trends in Hospital Inpatient Stays in the United States, 2005-2014: <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb225-Inpatient-US-Stays-Trends.pdf>

Trends in Emergency Department Visits, 2006-2014: <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb227-Emergency-Department-Visit-Trends.pdf>

Pediatric Hospital Inpatient Stays for Asthma and Diabetes, 2003-2012 Statistical Brief: <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb192-Pediatric-Preventable-Hospitalizations-Asthma-Diabetes.pdf>

Trends in Potentially Preventable Inpatient Hospital Admissions and Emergency Department Visits Statistical Brief: <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb195-Potentially-Preventable-Hospitalizations.jsp>

2012 Hospital Stays for Children Statistical Brief: <http://www.hcup-us.ahrq.gov/reports/statbriefs/sb187-Hospital-Stays-Children-2012.jsp>

HCUP Facts and Figures 2009: http://www.hcup-us.ahrq.gov/reports/factsandfigures/2009/TOC_2009.jsp

2005 to 2009 Facts and Figures: <http://www.hcup-us.ahrq.gov/reports/factsandfigures.jsp>

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Developed by CDC National Asthma Control Program: <http://www.cdc.gov/asthma/NACP.htm>

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