

Comparing State and National Injury Statistics

Examples from Colorado



Colorado Department
of Public Health
and Environment

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8/17/10

Injury Deaths and Hospitalizations

Deaths

- National Vital Statistics System
www.cdc.gov/nchs/nvss.htm
WONDER, WISQARS

Hospitalizations

- National Hospital Discharge Survey
www.cdc.gov/nchs/nhds.htm
- AHRQ HCUPNet (Nationwide Inpatient Sample, NIS)
hcupnet.ahrq.gov/

Purpose of the Study

Compare NHDS and HCUPNet for national estimates of injury hospitalizations

Compare Colorado to national estimates

National Estimates for Injury Hospitalizations

National Health Statistics Reports

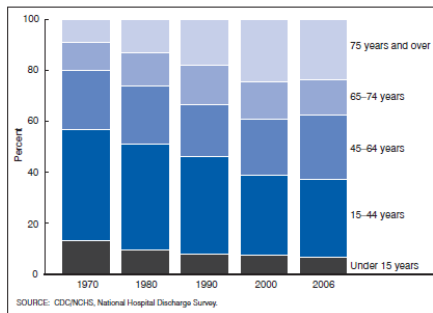
Number 5 ■ July 30, 2008

2006 National Hospital Discharge Survey

by Carol J. DeFrances, Ph.D.; Christine A. Lucas, M.P.H., M.S.W.; Verita C. Buie, Dr. P.H.; and Aleksandr Golosinskiy, Division of Health Care Statistics

This report presents the most current nationally representative data on inpatient care, excluding newborns, in the United States. Data are from the National Hospital Discharge Survey (NHDS), the longest continuously running nationally representative survey of hospital utilization.

As seen in the figure on this page, the age distribution of inpatients has changed dramatically from 1970 through 2006. In 1970, 20 percent of all inpatients were aged 75 years and over representing 9 percent of all inpatients. By 2006, 38 percent of inpatients were aged 65 years and over, with those aged 75 years and over comprising 24 percent of all inpatients. During the same period, the percentage of inpatients under age 15 years declined from 13 to 7 percent, and inpatients aged 15-44 years declined from 43 to 31 percent. The average age of hospital inpatients in 2006 was 52.5 years compared with 40.7 years in 1970. Even accounting for shifts in population demographics, NHDS data have shown that the rate of hospitalization for those aged 65 years and over has increased, whereas it has decreased for all other age groups (1). Although advances in anesthesia and pain relief, the development of minimally invasive procedures, the growing availability of ambulatory surgery, and increased efforts to contain health care costs have contributed to the shift of care from



SOURCE: CDC/NCHS, National Hospital Discharge Survey

Percent distribution of hospital discharges by age: United States, selected years 1970-2006

inpatient to outpatient settings (2,3), among the elderly, inpatient care has continued to increase. For example, technological advances in cardiac surgery have resulted in increased hospitalization of elderly patients for cardiovascular procedures (4). Additionally, with aging comes an increase in functional limitations and in the prevalence of chronic conditions that result in a greater need for health care services, including hospital care (4).

This report presents information about inpatient hospital utilization during 2006 as well as trend data for selected variables. Additional information about hospital utilization and other health topics is available from the National Center for Health Statistics (NCHS) website: www.cdc.gov/nchs/. Individual-year public-use NHDS data files are available for downloading from the website, and a multiyear public-use data file for trend analysis is available on CD-ROM. These and other products can also be obtained by contacting the NCHS Information Dissemination Staff at 1-800-232-4636 or 1-866-441-NCHS or by e-mail at cdcinfo@cdc.gov.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
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Welcome to H-CUPnet

H-CUPnet is a free, on-line query system based on data from the Healthcare Cost and Utilization Project (HCUP). It provides access to health statistics and information on hospital inpatient and emergency department utilization.

Begin your query here -

Statistics on Hospital Stays

National Statistics on All Stays

Create your own statistics for national and regional estimates on hospital use for all patients from the HCUP Nationwide Inpatient Sample (NIS). Overview of the Nationwide Inpatient Sample (NIS)

National Statistics on Children

Create your own statistics for national estimates on use of hospitals by children (age 0-17 years) from the HCUP Kids' Inpatient Database (KID). Overview of the Kids' Inpatient Database (KID)

National Statistics on Mental Health Hospitalizations

Interested in acute care hospital stays for mental health and substance abuse? Create your own national statistics from the NIS.

National and State Statistics on Hospital Stays by Payer - Medicare, Medicaid, Private, Uninsured

Interested in hospital stays billed to a specific payer? Create your own statistics for a payer, alone or compared to other payers from the NIS, KID, and SID.

State Statistics on All Stays

Create your own statistics on stays in hospitals for participating States from the HCUP State Inpatient Databases (SID). Overview of the State Inpatient Databases (SID)

Quick National or State Statistics

Ready-to-use tables on commonly requested information from the HCUP Nationwide Inpatient Sample (NIS), the HCUP Kids' Inpatient Database (KID), or the HCUP State Inpatient Databases (SID).

First Time Visitor?

HCUPnet overview
How does HCUPnet work?
HCUPnet tutorial
HCUPnet methodology?
HCUPnet definitions?

What's New?

- 2009 data for AZ, IA, MN, NV, SC. (07/06/2010) **Just Added!**
- Cost information for selected states in 2008. (06/01/2010) **Just Added!**
- 2008 nationwide hospital data now available, with cost information. (05/28/2010) **Just Added!**
- 2008 data for selected States. (05/17/2010) **Just Added!**
- 2007 nationwide data on AHRQ Quality Indicators. (02/10/2010) **Just Added!**
- 2007 nationwide ED data -- new database just released. (02/02/2010) **Just Added!**



More information on HCUP data, tools, and reports

What is HCUP?

Brief description - what is HCUP? Want to purchase data to do your own analysis?

The statistics in HCUPnet would not be possible without statewide data collection projects that provide data to HCUP.

HCUPnet is based on aggregate statistics tables to speed up data transfer and

ICD-9-CM Diagnosis Codes

	ICD-9-CM
All Injury and Poisoning	800-999
Injury	800-959, 990-995
Poisoning	960-989
Complications of med/surg care	996-999
Fractures, all sites	800-829
Fracture, neck of femur	820

First listed diagnosis only

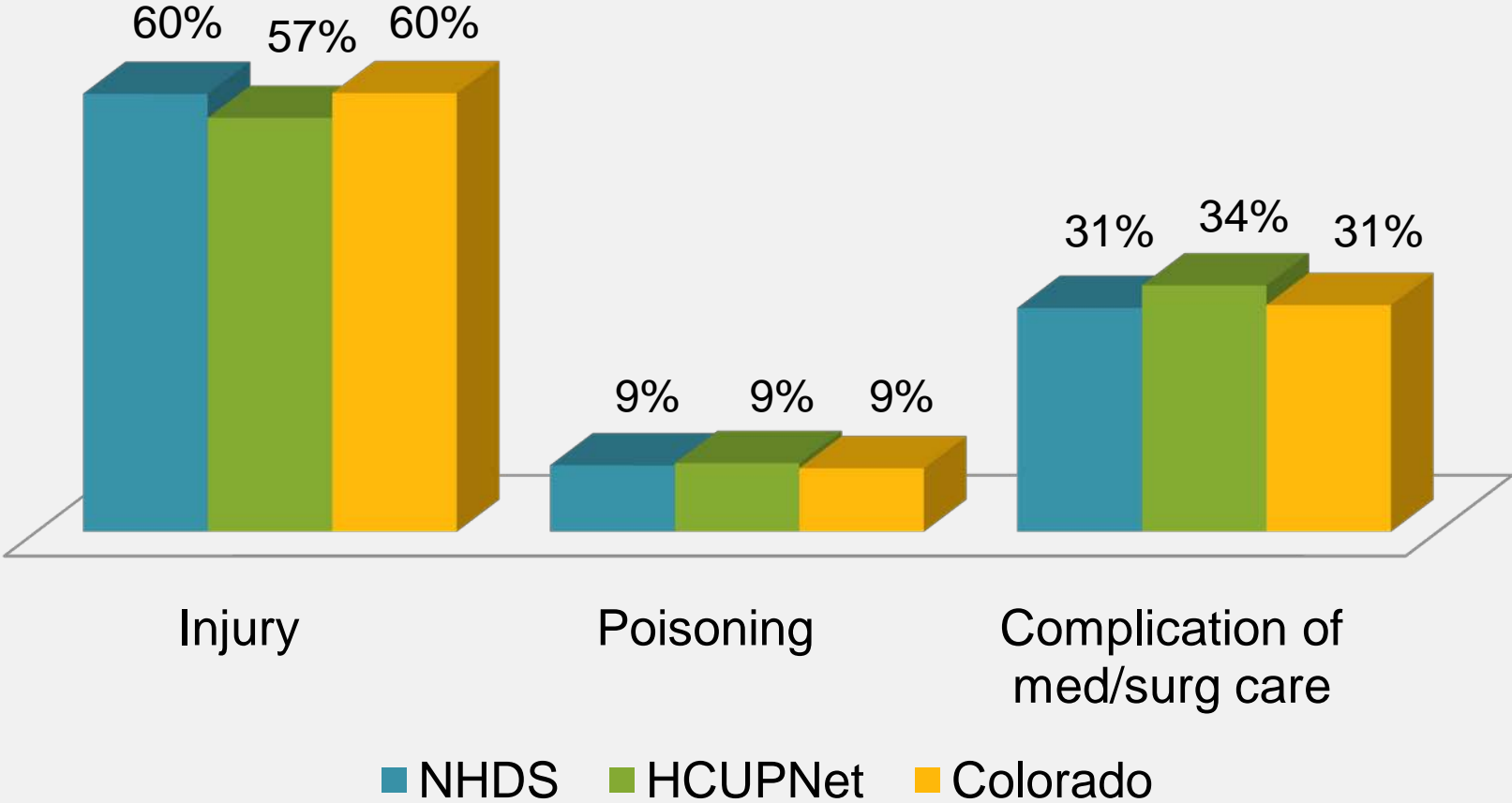
Comparison of National Estimates

Injury Discharges in 2006

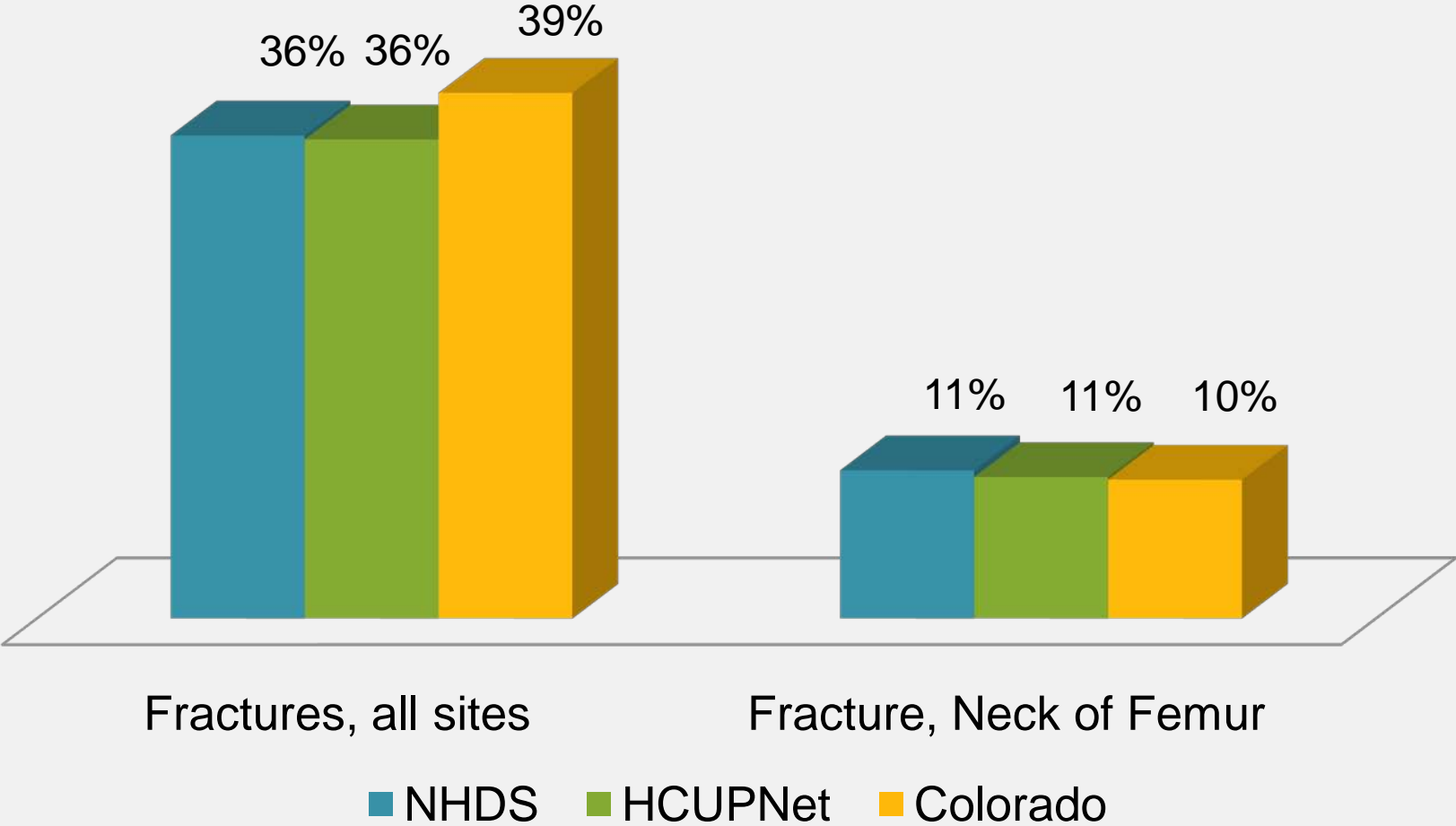
	NHDS (Number in Thousands)	HCUPNet* (Number in Thousands)
All Injury and Poisoning	2,968	2,873
Injury	1,785	1,632
Poisoning	271	270
Complications of med/surg care	912	970
Fractures, all sites	1,074	1,032
Fracture, neck of femur	330	304

First listed diagnosis only

Percent of All Hospital Discharges for Injury and Poisoning in 2006

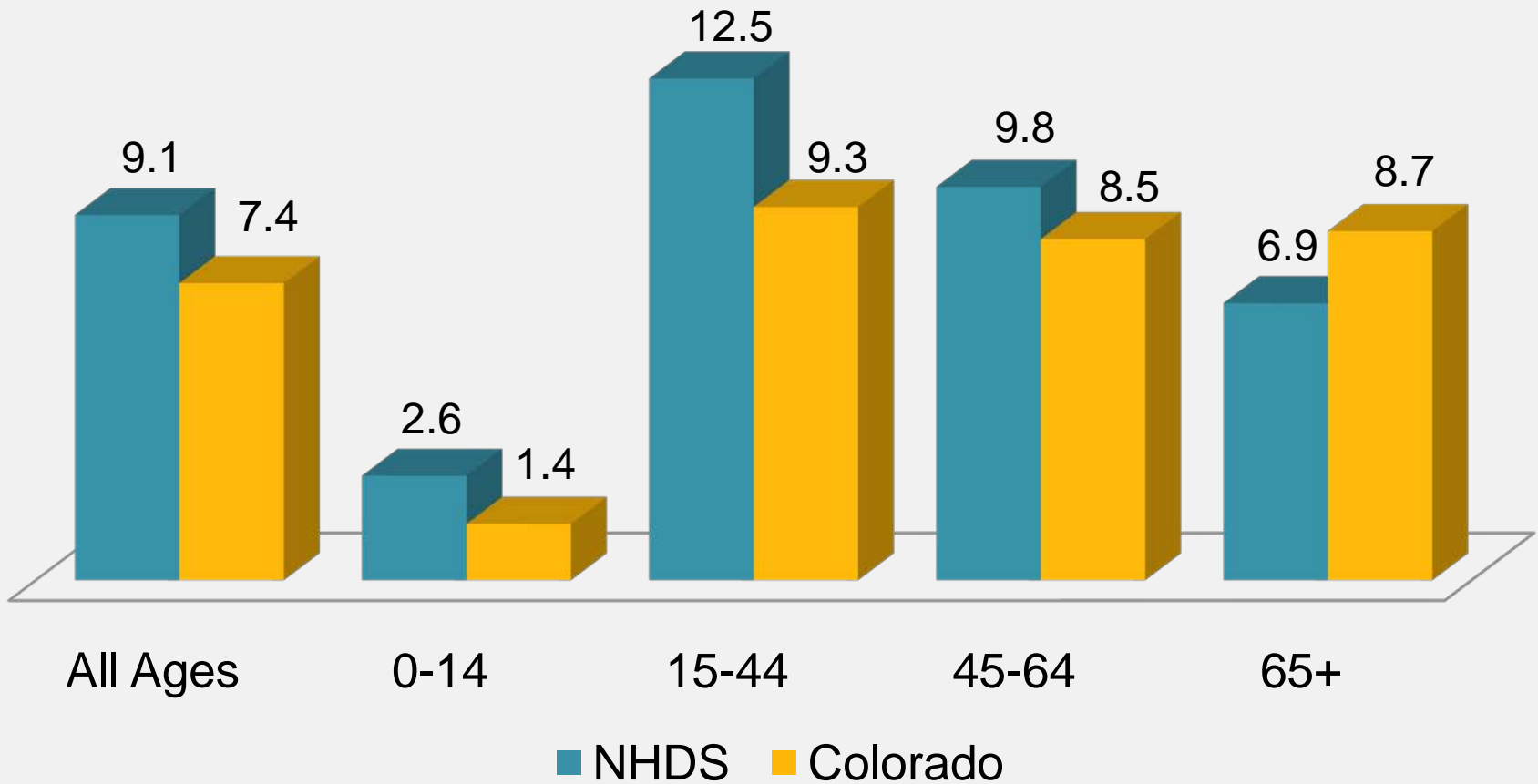


Percent of All Hospital Discharges for Injury and Poisoning in 2006



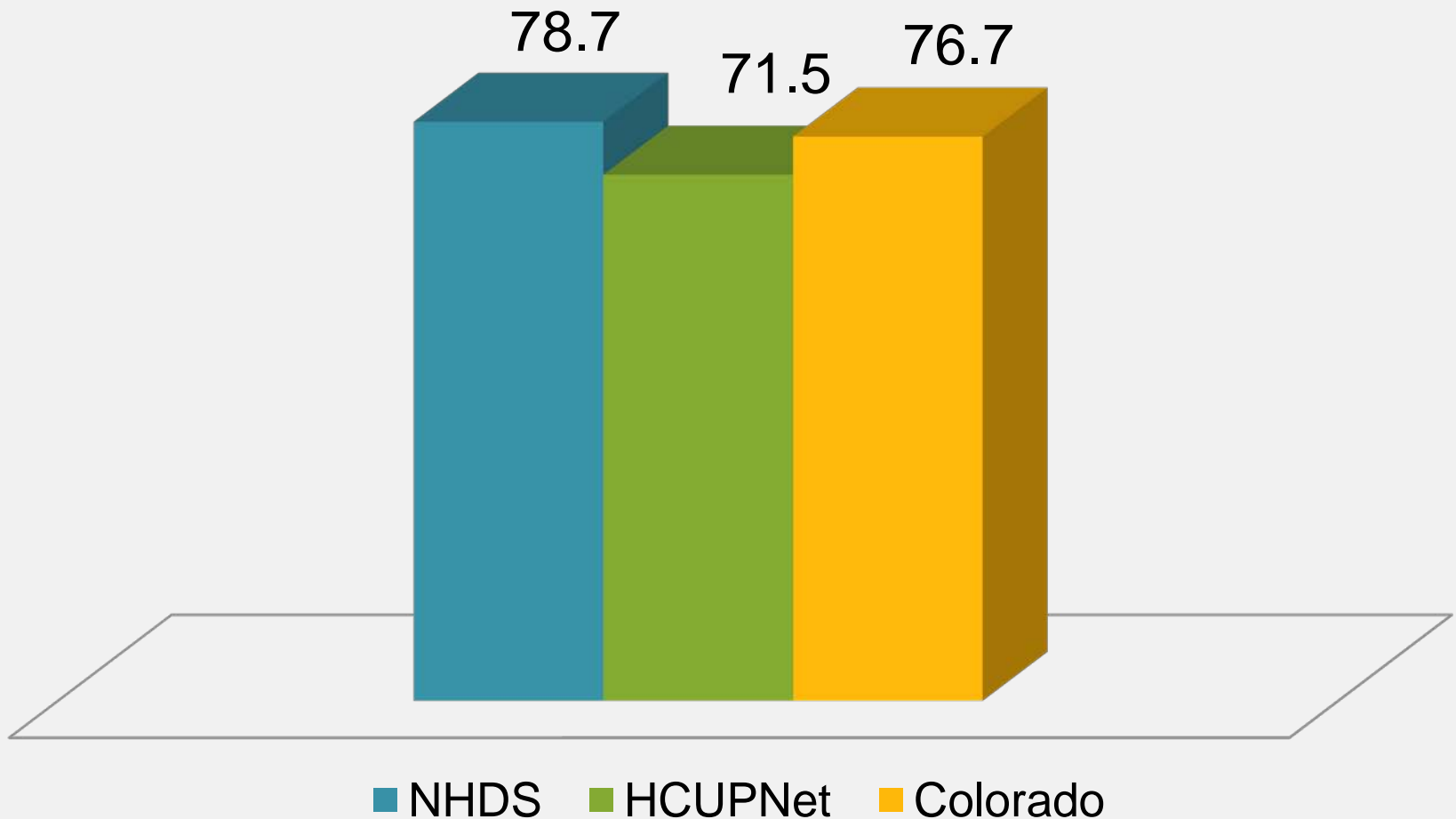
Hospital Discharges for Poisoning

Rate per 10,000 population by Age Group

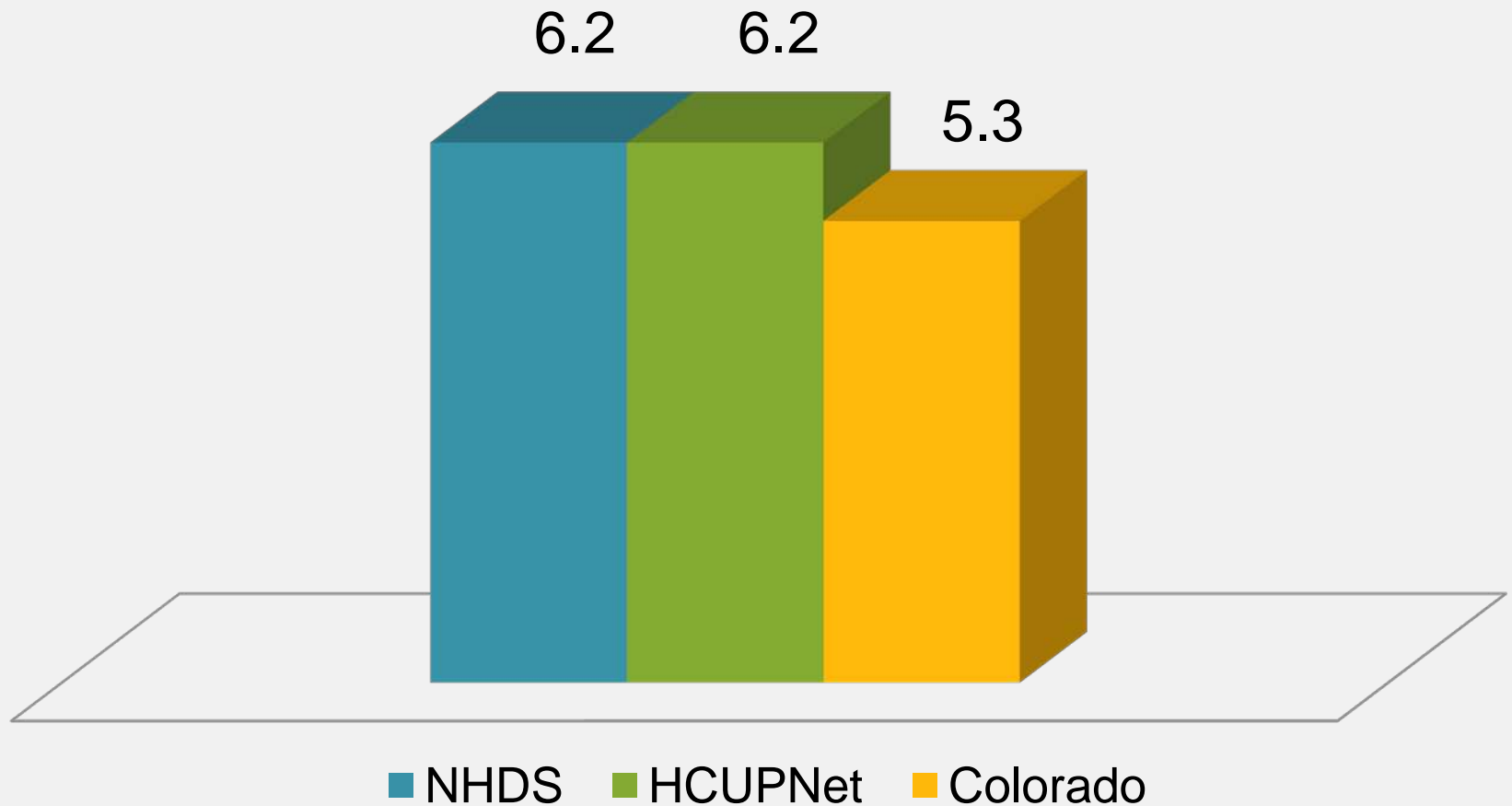


Hospital Discharges for Femoral Neck Fracture, Patients Age 65+

Rate per 10,000 population



Average Hospital Length of Stay (days) for Femoral Neck Fracture, Patients Age 65+



These results suggest that

Similar estimates for injury and poisoning hospital discharges can be obtained from NHDS and the HCUP National Inpatient Sample

States can use these tools to compare their injury hospitalization rates with national estimates

Thank You!

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