CDC’s Web-based Injury Statistics Query and Reporting System (WISQARS™)

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Background

CDC's WISQARS™ (Web-based Injury Statistics Query and Reporting System) is an interactive, online database that provides fatal and nonfatal injury, violent death, and cost of injury data from a variety of trusted sources. Researchers, the media, public health professionals, and the public can use WISQARS™ data to learn more about the public health and economic burden associated with unintentional and violence-related injury in the United States.

- FATAL INJURY DATA
- COST OF INJURY REPORTS
- NONFATAL INJURY DATA
- FATAL INJURY MAPPING
- VIOLENT DEATHS
- ABOUT US

WISQARS Mobile App
Providing you with injury data anytime, anywhere.

Leading Causes of Death
Compare injury-related deaths to other causes of death in the US

Tools and Resources
Find tools and resources to help you use WISQARS

http://www.cdc.gov/injury/wisqars/
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http://www.cdc.gov/injury/wisqars/
Key Data Sources

- **Fatal Injury Data**
  - National Vital Statistics Systems (NVSS)

- **Nonfatal Injury Data**
  - National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP)

- **Violent Deaths**
  - National Violent Death Reporting System (NVDRS)

- **Population Estimates**
  - U.S. Census Bureau
Value of National-Level Data

- Give ideas on what data to collect locally
- Identify emerging, high burden issues
  - Suggest what issues to look at locally
- **Learn how does your data differ?**
  - Identify unique local challenges
  - Highlight your success
  - Understand how you are performing compared with larger populations
Injury Deaths:
National Vital Statistics System
(Death Certificate Data)
National Vital Statistics System
(Death Certificate Data)

- CDC’s National Center for Health Statistics

Scope
- Census of all death certificates for U.S. residents

Methods
- States send to NCHS, creation of national database
- Single underlying cause of death
  - Up to 20 additional multiple causes
  - 1999-present: ICD-10 coded
- Age, race, ethnicity
- Place of residence (state, county)
- Place of death, month and week day of death
- Whether an autopsy was performed
National Vital Statistics System (Death Certificate Data)

- Access
  - Public use data files (1968-2015)
    https://www.cdc.gov/nchs/data_access/VitalStatsOnline.htm#Mortality_Multiple
  - Online querying
    - WISQARS
    - WONDER
    https://wonder.cdc.gov/
Non-fatal Injuries
National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP)
National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP)

- U.S. Consumer Product Safety Commission (CPSC) and CDC’s Injury Center (NCIPC)
- Scope
  - National Estimates of Injury-related Emergency Department Visits and Hospitalizations
- Methods
  - Started in 2000
  - First time, injury-related visits on all types and causes of injuries
    - Injuries where no product is mentioned (e.g., fell on ground)
    - Injuries related to products not currently collected (e.g., motor vehicles)
    - Intentional injuries; assaults or suicide attempts
  - Nationally representative sample of 66 of 100 NEISS U.S. hospitals with ≥ 6 beds and an ED
National Electronic Injury Surveillance System – All Injury Program (NEISS-AIP)

- **Methods**
  - Approximately 500,000 cases per year ($3.40 USD per case)
  - Dedicated coders abstract medical records
  - Extensive training and quality assurance measures with both automated and visual edits
  - Data on mechanism and intent of injury

- **Access**
  - Public use data sets ([https://www.icpsr.umich.edu/icpsrweb/ICPSR/series/198](https://www.icpsr.umich.edu/icpsrweb/ICPSR/series/198))
  - Online querying
    - WISQARS
National Violent Death Reporting System (NVDRS)
National Violent Death Reporting System (NVDRS)

- NCIPC (Injury Center) at CDC
- Scope
  - 2000: Pilot
  - 2003: Data collection begins with 6 states
  - 2014: 32 states total
  - 2016: 8 additional states, DC, and Puerto Rico added
  - 2018: Expansion to all 50 states
National Violent Death Reporting System (NVDRS)

- **Methods**
  - Active, ongoing state-based surveillance system
  - Information abstracted using a web-based application
  - Provides comprehensive information on violent deaths within participating states to fully characterize incidents

- **Primary required data sources:**
  - Death certificates
  - Coroner or medical examiner (CME) reports (including toxicology) (have narratives)
  - Law enforcement (LE) reports (have narratives)

- **Secondary optional data sources:**
  - Child Fatality Review (CFR) team data
  - Intimate Partner Violence (IPV) Review team data
  - Crime lab data
  - Supplementary Homicide Reports
  - Hospital data
National Violent Death Reporting System (NVDRS)

- **Access**
  - Online querying through WISQARS ([https://www.cdc.gov/injury/wisqars/]())
  - Restricted Access Database available upon request ([https://www.cdc.gov/violenceprevention/nvdrs/rad.html](https://www.cdc.gov/violenceprevention/nvdrs/rad.html))
DO DEMOS HERE
Future Plans for WISQARS

- Annual data updates for NVSS, NEISS-AIP, and NVDRS data
- “Compare” function for Fatal Injury Data Visualization
- Non-fatal Injury Data Visualization module
- Integration of existing modules
- Additional Data Visualizations and new data sets
Thank You

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