# MCAH Title V Child Injury Data Report

**September 15, 2022**

# Welcome!

**Please check your video box** in Zoom to confirm your identification includes your name and affiliation. Pronouns are always welcome.

Also, please introduce yourself into the chat.



Oregon Health Authority

# Our Plan for this Session:

Background and Context

Overview of the Data Report, Data Sources, Limitations, Considerations

Questions and Discussion

Closing and Evaluation



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# Oregon's MCAH Title V Program

- **MCH Title V Block Grant** provides federal funds to Oregon to improve the health of Oregon's women, infants, children, adolescents, and children and youth with special health care needs.

- Oregon's Title V funds support the work of: local public health authorities; Tribes; state maternal, child and adolescent health staff; and the Oregon Center for Children and Youth with Special Health Needs (OCCYSHN).

- Oregon's Title V program priorities:
    - Are revised every 5 years based on the findings of the state's MCAH Needs Assessment.
    - Include national priorities (at least 5) chosen from a set of priorities provided by the MCHB, and state-specific priorities reflecting other Oregon MCAH needs.

# Oregon's MCAH Title V Program

- Title V program priorities for 2021-2025:
  - Foundations of MCAH – includes social determinants of health, toxic stress, trauma, ACEs and resilience, culturally and linguistically responsive services
  - Well woman care
  - Breastfeeding
  - Child injury prevention
  - Bullying prevention

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# Backstory for Statewide Data Report – Oregon Safe Kids

- MCH provides summary childhood injury data to inform intervention priorities and strategies for local coalitions and the state coordinator.
- In 2016, prompted by an organizational transfer of analytic responsibility and the recent ICD code conversion, we embarked on a lengthy collaborative process to re-examine how data were analyzed and shared with Safe Kids.
    - Compared ICD-9 and ICD-10 codes
    - Conducted key informant and small group interviews
    - Created customized program in SPSS
    - Established new trends
    - Created new statewide and local coalition reports using Sparklines with mini-visuals
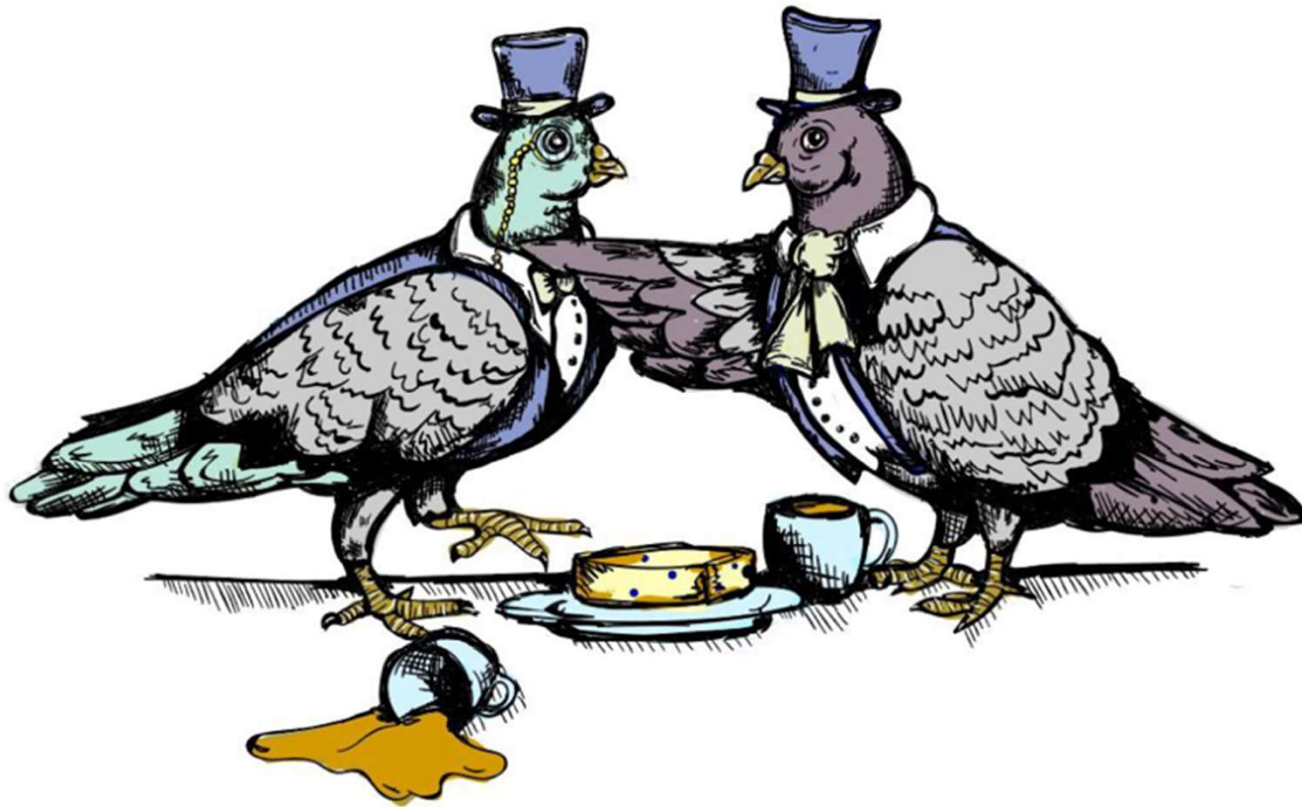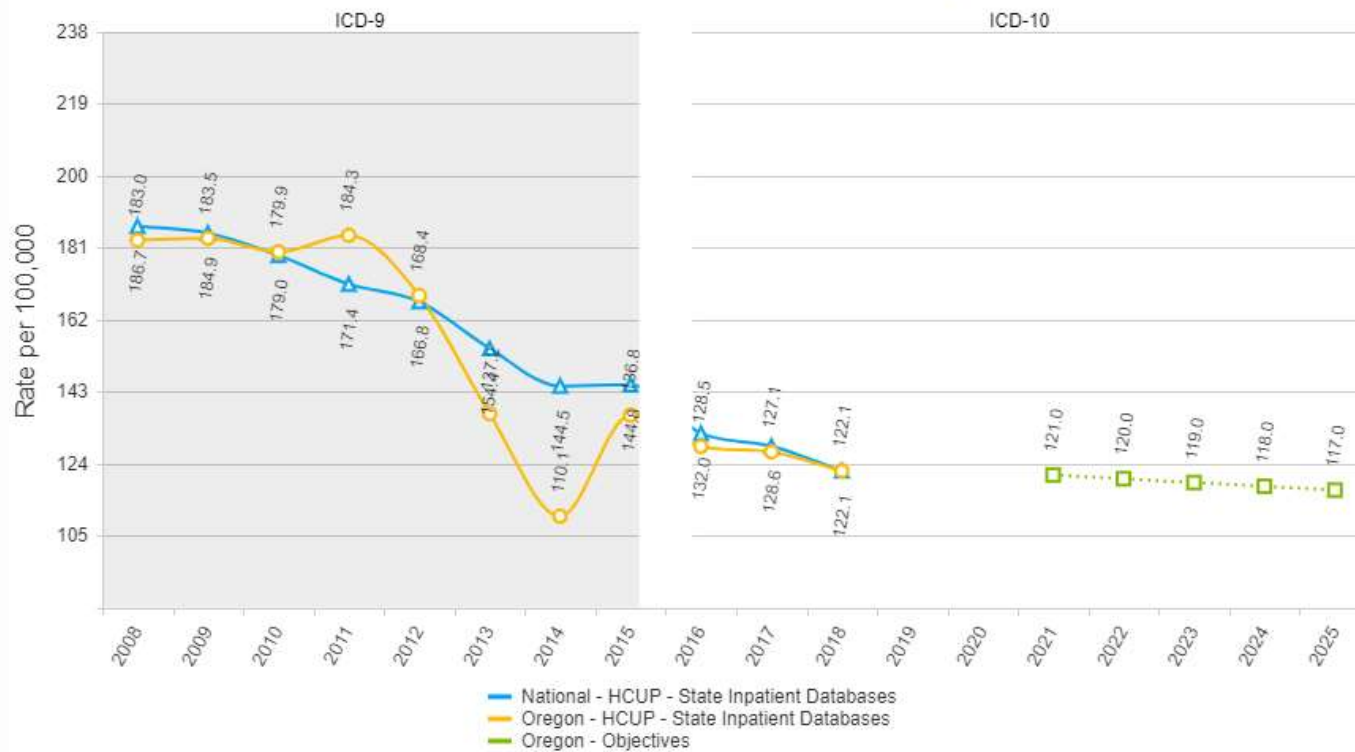    - Engaged Safe Kids board members for additional feedback and refinements

# Title V National Priority Measure: Child Injury



NPM 7.1: Rate of hospitalization for non-fatal injury per 100,000 children, ages 0 through 9
Indicators and Annual Objectives – Oregon

# Oregon's Additional Measures for Tracking

7.1.1 Injury death rate among children 0-9 years of age
7.1.2 Transportation injury death rate among children 0-9 years of age
7.1.3 Drowning death rate among children 0-9 years of age
7.1.4 Poisoning injury rate among children 0-9 years of age

**Data to Drive Action in 4 Key Areas of Focus:**

**POLICY**

**WORKFORCE**

**PARTNERSHIPS AND COMMUNICATION**

**QUALITY DATA**

# Child Injury Summary Report

- Injury data specific to children may not be readily available
- Three sets of data – varying severity
- Understand the type and severity of injury affecting the population we serve
- Help prioritize identification of injury prevention strategies

# Existing Data Resources – Center for Health Statistics

- Local data

- Dashboard featuring
  - Mortality trend
  - Leading causes of death
  - County deaths
  - Injury deaths

- https://bit.ly/ORdeathdata
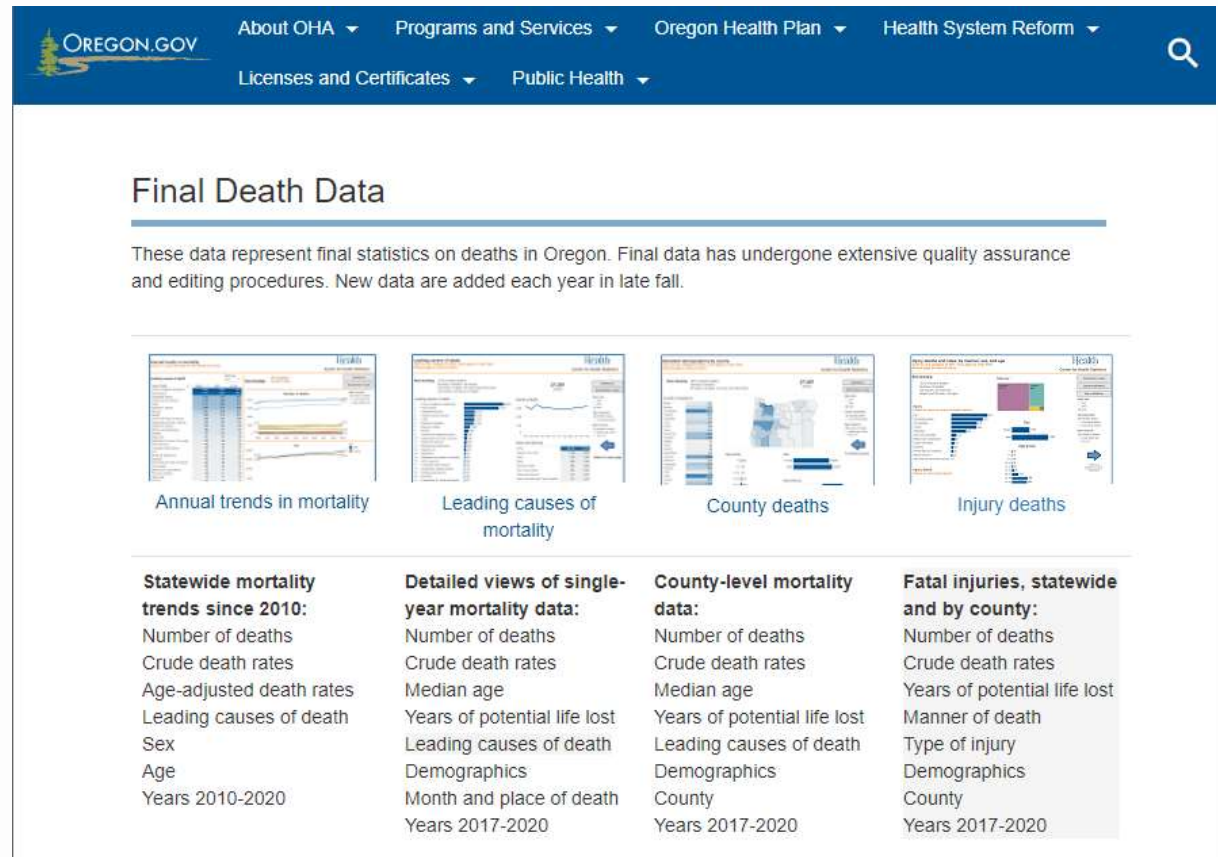
# Existing resources – Centers for Disease Control and Prevention (CDC)

- National data

- Web-based Injury Statistics Query and Reporting System (WISQARS)
  - Fatal Injury and Violence data
  - Nonfatal Injury data
  - Leading Causes of Death
  - Cost of Injury data

- https://www.cdc.gov/injury/wisqars/index.html



Injury Data

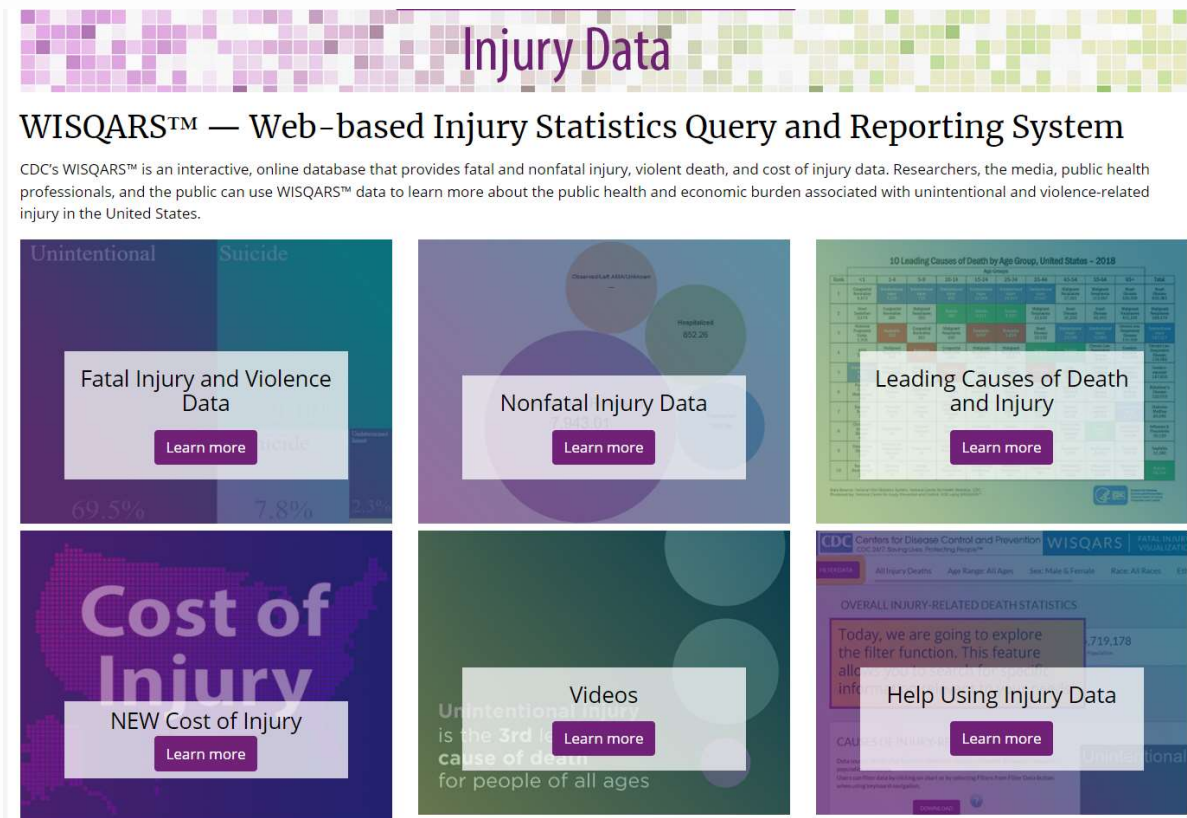WISQARS™ — Web-based Injury Statistics Query and Reporting System

CDC's WISQARS™ is an interactive, online database that provides fatal and nonfatal injury, violent death, and cost of injury data. 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 and Violence Data — Learn more

Nonfatal Injury Data — Learn more

Leading Causes of Death and Injury — Learn more

NEW Cost of Injury — Learn more

Videos — Learn more

Help Using Injury Data — Learn more

# Other Specific Injury Data

- Specific injury data may be available from various agencies focused on the injury topic; some examples include but not limited to:
  - Oregon Poison Center
  - Oregon Department of Transportation
  - Oregon State Marine Board

# Report Layout

- Injury data among children and youth 0-19 years old
- Separate data for each data sources (severity)
- Aggregated by 3-year total for State report and 5-year total for county or jurisdictional report
- Shows injury categories
  - Trend data
  - Age group
  - Board injury category ranking

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# Our Customized Report – summarizes injuries among children and youth age 0-19

**Oregon Statewide**

| Row # | Oregon Statewide Data, Age 0-19 | Emergency Department Data 2020-2021 2-year total | by Year* | by Age Group** | Rank | Hospital Discharge Data 2019-2021 3-year total | by Year* | by Age Group** | Rank | Death data 2019-2021 3-year total | by Year* | by Age Group** | Rank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Total unintentional | 103195 | | | | 3175 | | | | 269 | | | |
| 2 | Cut/pierce (glass, sharp objects, nonpowered hand tool, powered lawn mower, other powered hand tools and household machinery, foreign body or object entering through skin) | 8263 | | | 5 | 62 | | | 8 | 0 | | | 9 |
| 3 | Drowning (bathtub, swimming pool, natural water) | 55 | | | 13 | 21 | | | 12 | 24 | | | 5 |
| 4 | Fall | 33131 | | | 1 | 1001 | | | 3 | 2 | | | 6 |
| 5 | Fall-slipping, tripping and stumbling | 8736 | | | | 138 | | | | 0 | | | |
| 6 | Fall-involving wheelchair, bed, chair, furniture | 5640 | | | | 174 | | | | 0 | | | |
| 7 | Fall-involving playground equipment (slide, swing, gym, other) | 2069 | | | | 94 | | | | 0 | | | |
| 8 | Fall-on and from stairs and steps, ladder, scaffolding | 2022 | | | | 52 | | | | 0 | | | |
| 9 | Fall-from, out of or through building or structure | 291 | | | | 68 | | | | 1 | | | |
| 10 | Fall-from, out of or through window | 163 | | | | 49 | | | | 0 | | | |
| 11 | Fall-one level to another | 3594 | | | | 158 | | | | 0 | | | |
| 12 | Fall-other on same level | 5808 | | | | 103 | | | | 0 | | | |
| 13 | Smoke, fire, and flames (controlled, uncontrolled, flammable material, clothing) | 365 | | | 9 | 48 | | | 9 | 2 | | | 6 |
| 14 | Hot object or substance (contact with liquids, steam, household appliances, heating appliances, hot machinery) | 1530 | | | 8 | 76 | | | 7 | 0 | | | 9 |
| 15 | Firearm | 239 | | | 10 | 119 | | | 6 | 94 | | | 2 |
| 16 | Firearm- unintentional | 166 | | | | 56 | | | | 2 | | | |
| 17 | Firearm- suicide | 10 | | | | 12 | | | | 53 | | | |
| 18 | Firearm- assault | 55 | | | | 49 | | | | 37 | | | |
| 19 | Machinery | 205 | | | 11 | 17 | | | 13 | 0 | | | 9 |
| 20 | All transport | 18001 | | | 3 | 1258 | | | 2 | 145 | | | 1 |
| 21 | Motor vehicle in traffic | 7068 | | | | 609 | | | | 100 | | | |
| 22 | Driver | 1992 | | | | 151 | | | | 27 | | | |
| 23 | Passenger | 3521 | | | | 196 | | | | 38 | | | |

# Report Layout

- Injury data among children and youth 0-19 years old
- Separate data for each data sources (severity)
- Aggregated by 3-year total for State report and 5-year total for county or jurisdictional report
- Shows injury categories
  - Trend data
  - Age group
  - Board injury category ranking

Oregon Health Authority

# Our Customized Report – 3 separate data sources

**Oregon Statewide**

| Row # | Oregon Statewide Data, Age 0-19 | Emergency Department Data 2020-2021 2-year total | by Year* | by Age Group** | Rank | Hospital Discharge Data 2019-2021 3-year total | by Year* | by Age Group** | Rank | Death data 2019-2021 3-year total | by Year* | by Age Group** | Rank |
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| 3 | Drowning (bathtub, swimming pool, natural water) | 55 | | | 13 | 21 | | | 12 | 24 | | | 5 |
| 4 | Fall | 33131 | | | 1 | 1001 | | | 3 | 2 | | | 6 |
| 5 | Fall-slipping, tripping and stumbling | 8736 | | | | 138 | | | | 0 | | | |
| 6 | Fall-involving wheelchair, bed, chair, furniture | 5640 | | | | 174 | | | | 0 | | | |
| 7 | Fall-involving playground equipment (slide, swing, gym, other) | 2069 | | | | 94 | | | | 0 | | | |
| 8 | Fall-on and from stairs and steps, ladder, scaffolding | 2022 | | | | 52 | | | | 0 | | | |
| 9 | Fall-from, out of or through building or structure | 291 | | | | 68 | | | | 1 | | | |
| 10 | Fall-from, out of or through window | 163 | | | | 49 | | | | 0 | | | |
| 11 | Fall-one level to another | 3594 | | | | 158 | | | | 0 | | | |
| 12 | Fall-other on same level | 5808 | | | | 103 | | | | 0 | | | |
| 13 | Smoke, fire, and flames (controlled, uncontrolled, flammable material, clothing) | 365 | | | 9 | 48 | | | 9 | 2 | | | 6 |
| 14 | Hot object or substance (contact with liquids, steam, household appliances, heating appliances, hot machinery) | 1530 | | | 8 | 76 | | | 7 | 0 | | | 9 |
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| 19 | Machinery | 205 | | | 11 | 17 | | | 13 | 0 | | | 9 |
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| 23 | Passenger | 3521 | | | | 196 | | | | 38 | | | |

# Data Sources Representing Different Severity

| Data | Definition | Outcome |
|------|-----------|---------|
| Emergency Department Visits Data | Outpatient (ER visits) | Require medical attention but not hospitalization |
| Hospital Discharge Data | Inpatient (hospitalizations) | Require medical attention and admitted to the hospital |
| Death Data | Death | Death |

Note: A child can be represented in more than one dataset for the same injury event.

# Emergency Department Visits Data

| Data Owner / Data Source | Health Analytics - OHA |
|---|---|
| Case Identification Method | ICD-10-CM |
| Years Available | 2020 onwards |
| Limitations | Outpatient data, event count not person count; Geography is limited to resident county, not necessarily that of the place of injury occurrence; Race and ethnicity variables does not allow for selection of multiple races; Injury identification is based on diagnosis code for billing purposes, there may also be variations between providers |

# Hospital Discharge Data

| | |
|---|---|
| **Data Owner / Data Source** | Health Analytics  - OHA |
| **Case Identification Method** | ICD-10-CM, ICD-9-CM |
| **Years Available** | 2008 onwards |
| **Limitations** | Inpatient data, event count not person count; Change from ICD- 9-CM to ICD-10-CM in Oct 1, 2015. Trend data before and after this date are not comparable; Geography is limited to resident county, not necessarily that of the place of injury occurrence; Race and ethnicity variables does not allow for selection of multiple races; Injury identification is based on diagnosis code for billing purposes, there may also be variations between providers |

# Death Data

| Data Owner /<br>Data Source | Oregon Center for Health Statistics (Vital Records) |
|---|---|
| Case Identification Method | ICD-10 |
| Years Available | 2006 onwards |
| Limitations | In 2006, Oregon adopted significant changes in variables to conform to national standard;<br>Cause of death information may be subject to variations between Medical certifiers;<br>Most likely subject to small number issues |

# Report Layout

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- **Aggregated by 3-year total for State report and 5-year total for county or jurisdictional report**
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# Our Customized Report – Aggregated data

## Oregon Statewide

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# Why are we aggregating data?

- Rare events

- Sparsely populated geography

- Special population (e.g. specific race data on drowning)

- Refined categories (e.g. 1-4 years old male injuries from window falls)

# Why Small Numbers Matter and How We Handle It



- Risk of identifying individuals and families
- Protect individual confidentiality
- 10/50 rule
- Data suppression
- Aggregation
  – Multiple years
  – Larger geography

# Report Layout

- Injury data among children and youth 0-19 years old

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- Aggregated by 3-year total for State report and 5-year total for county or jurisdictional report

- Shows injury categories

  – Trend data

  – Age group

  – Board injury category ranking

# Report Shows Trends, Age Groups, and Ranking

| Row # | Oregon Statewide Data, Age 0-19 | Emergency Department Data | | | | Hospital Discharge Data | | | | Death data | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2020-2021 2-year total | by Year* | by Age Group** | Rank | 2019-2021 3-year total | by Year* | by Age Group** | Rank | 2019-2021 3-year total | by Year* | by Age Group** | Rank |
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| 20 | **All transport** | 18001 | | | 3 | 1258 | | | 2 | 145 | | | 1 |
| 47 | **Poisoning^** | 8663 | | | 4 | 4330 | | | 1 | 49 | | | 3 |
| 48 | Poisoning-drugs, medicaments, and biological substances^ | 6887 | | | | 4233 | | | | 46 | | | |
| 52 | Poisoning-nonmedicinal sources (alcohol, solvents, halogen derivatives of aliphatic and aromatic hydrocarbons, corrosive substances, soaps and detergents, metals, other inorganic substances, carbon monoxide, other gases, fumes, and vapors, pesticides, noxious substances eaten as seafood, other noxious substances eaten as food, contact with venomous animals and plants, aflatoxin and other mycotoxin food contaminants, other and unspecified substances)^ | 1833 | | | | 159 | | | | 3 | | | |

*Note:*

*Data from sub-categories may not add up to injury category total, only selected sub-categories are shown.*

*For emergency department data and hospital discharge data, there can be duplicative person counts due to multiple visits or hospitalizations over time of different injuries.*

*\* Red markers indicate yearly count.*

*\*\* Age groups are defined as: less than 1, 1-4, 5-9, 10-14, and 15-19. Red bars indicate category with highest count.*

*^ Individuals experiencing poisoning from both drugs, medicaments, biological substances and nonmedicinal sources are counted in both categories; thus these categories can add up more than the poisoning totals.*

*Data sources: Emergency department and hospital discharge data from Health Analytics and death data from Oregon Center for Health Statistics*

# Trends

Affected by many factors

- Be mindful of data source and limitations,
- Number of data points,
- Number of incidents and fluctuation of trends,
- Scale/cell height,
- Changes in behaviors due to education and prevention strategies,
- Changes in behaviors due to current events (e.g. pandemic, climate change)

Let's revisit our report!

# Trends, Age Group, and Ranking Examples

| Row # | Oregon Statewide Data, Age 0-19 | Emergency Department Data | | | | Hospital Discharge Data | | | | Death data | | | |
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| 52 | Poisoning-nonmedicinal sources (alcohol, solvents, halogen derivatives of aliphatic and aromatic hydrocarbons, corrosive substances, soaps and detergents, metals, other inorganic substances, carbon monoxide, other gases, fumes, and vapors, pesticides, noxious substances eaten as seafood, other noxious substances eaten as food, contact with venomous animals and plants, aflatoxin and other mycotoxin food contaminants, other and unspecified substances)^ | 1833 | | | | 159 | | | | 3 | | | |

*Note:*

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*^ Individuals experiencing poisoning from both drugs, medicaments, biological substances and nonmedicinal sources are counted in both categories; thus these categories can add up more than the poisoning totals.*

*Data sources: Emergency department and hospital discharge data from Health Analytics and death data from Oregon Center for Health Statistics*

# Injury Category Ranking in Oregon

**Top Injury Categories for Children 0-19 Emergency Department Visits, Hospitalizations and Deaths**

|  | Emergency Department Data | Hospital Discharge Data | Death Data |
|---|---|---|---|
| Oregon statewide 2019-2021 | 1) Fall<br>2) Struck by or against<br>3) Transport | 1) Poisoning<br>2) Transport<br>3) Fall | 1) Transport<br>2) Firearm<br>3) Poisoning |

# Leading Injury by Age Group – Emergency Department Visits Data

| Rank | 0 | 1-4 | 5-9 | 10-14 | 15-19 |
|------|---|-----|-----|-------|-------|
| 1 | Fall 2074 | Fall 12201 | Fall 8110 | Fall 5853 | All transport 8315 |
| 2 | Struck by or against 434 | Struck by or against 4373 | Struck by or against 4079 | All transport 5214 | Struck by or against 5353 |
| 3 | Poisoning 267 | Poisoning 1944 | All transport 3019 | Struck by or against 4198 | Fall 4893 |
| 4 | All transport 211 | Natural/ environmental 1318 | Cut/pierce 1669 | Cut/pierce 2106 | Poisoning 3999 |
| 5 | Natural/ environmental 127 | Cut/Pierce 1280 | Natural/ environmental 1426 | Overexertion 1954 | Cut/pierce 3114 |

# Leading Injury by Age Group – Hospital Discharge Data

| Rank | 0 | 1-4 | 5-9 | 10-14 | 15-19 |
|------|---|-----|-----|-------|-------|
| 1 | Poisoning 211 | Poisoning 614 | Poisoning 362 | Poisoning 1031 | Poisoning 2112 |
| 2 | Fall 149 | Fall 267 | Fall 245 | All transport 304 | All transport 715 |
| 3 | Struck by or against 11 | All transport 65 | All transport 170 | Fall 150 | Fall 190 |
| 4 | Hot object or substance 9 | Natural/ environmental 46 | Natural/ environmental 39 | Struck by or against 38 | Firearm 98 |
| 5 | Natural/ environmental 8 | Hot object or substance 43 | Struck by or against 29 | Natural/ environmental 28 | Struck by or against 95 |

# Leading Injury by Age Group – Death Data

| Rank | 0 | 1-4 | 5-9 | 10-14 | 15-19 |
|------|---|-----|-----|-------|-------|
| 1 | Suffocation<br>35 | All transport<br>13 | All transport<br>17 | All transport<br>14 | All transport<br>97 |
| 2 | All transport<br>4 | Drowning<br>7 | Suffocation<br>4 | Firearm<br>11 | Firearm<br>82 |
| 3 | Poisoning<br>1 | Suffocation<br>2 | Drowning<br>3 | Drowning<br>4 | Poisoning<br>44 |
| 4 | Cut/pierce; Drowning; Fall; Smoke, fire, and flames; Hot object or substance; Firearm; Machinery; Natural/ environmental; Overexertion; Struck by or against<br>0 | Fall; Firearm; Poisoning<br>1 | Cut/pierce; Fall; Smoke, fire, and flames; Hot object or substance; Firearm; Machinery; Natural/ environmental; Overexertion; Poisoning; Struck by or against<br>0 | Poisoning<br>3 | Drowning<br>8 |
| 5 | -- | -- | -- | Smoke, fire, and flames<br>2 | Fall; Suffocation<br>1 |

# Title V State Priorities

- Transportation
- Poisoning
- Drowning

Grantees are free to choose other injury priorities

Chat Reflection

What would you like to know about child injuries and injury related deaths in Oregon?

# Closing



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- ❑ Participate in the brief evaluation poll

- ❑ Counties and Tribes that selected child injury prevention for 2022-2023 will receive a report tailored to your communities

- ❑ An email will be sent to all participants with the state report. It will also be posted to the Oregon MCH Title V webpages

- ❑ Do you have requests for other Child Injury or Title V related webinar topics? Let us know!

# Thank you!



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