

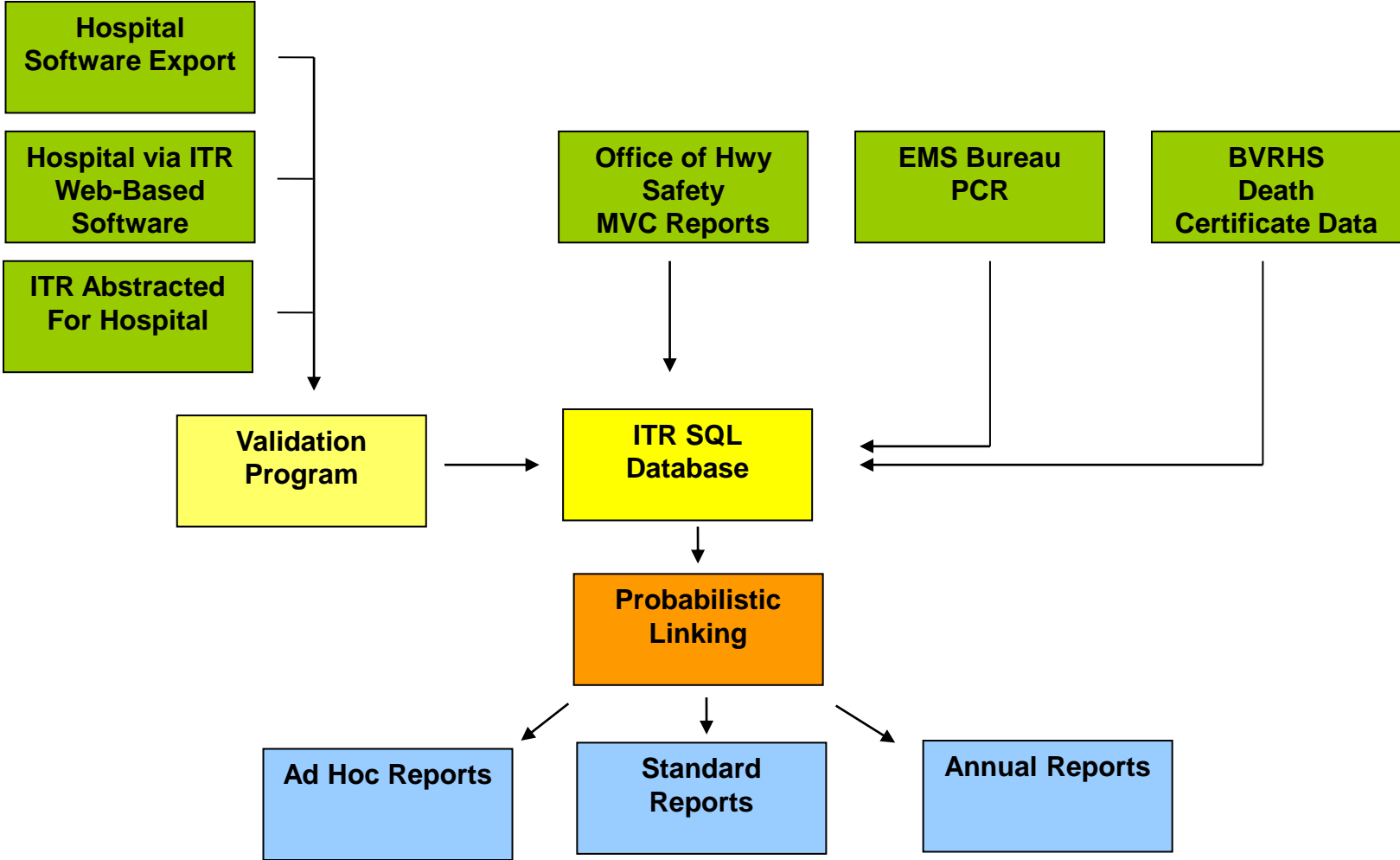
TBI in Idaho: A Partial Perspective Using Idaho Trauma Registry Data

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Topics

- Idaho Trauma Registry (ITR)
- Data caveats
- Head injuries reported to ITR
 - Who: age and gender
 - How: cause
 - Where: location of incident
 - Result: type of injury, severity of injury
 - Outcome: hospital discharge information
- Head injury deaths
- Preventing head injuries

IDAHO TRAUMA REGISTRY DATA FLOW



ITR Purpose

- Ongoing injury surveillance
 - Geographical distribution
 - Types
 - Causes
 - Severity
 - Outcomes
 - Demographics
- Improve emergency medical care
- Injury prevention

Included in ITR if the Patient

- Was admitted as an in-patient
- Died after receiving any evaluation or treatment
- Was dead on arrival
- Was transferred between acute care hospitals by EMS

Injuries Excluded by ITR

- Superficial injuries (splinters, blisters etc.)
- Poisonings
- Late effects of an injury
- Complications of surgery and medical care
- Some fall injuries

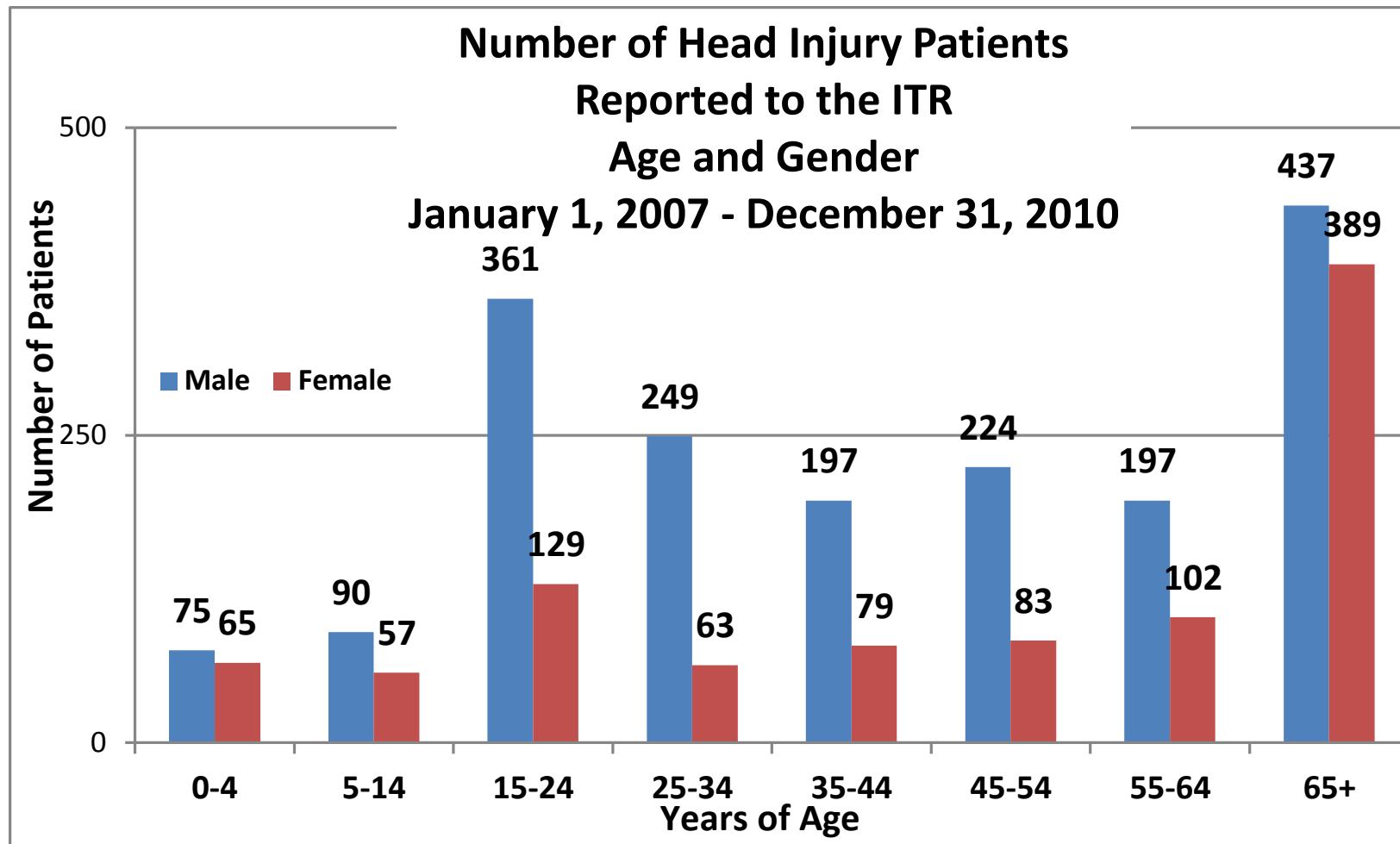
Data Caveats

- ITR is not statewide
 - 2007 – 14 of 38 acute care hospitals
 - 2010 – 22 of 38 acute care hospitals
 - 2012 – 23 of 38 hospitals
- ITR inclusion criteria
 - No treat and release from ED
- Number of *patients* (age groups)
- Number of *injuries* (head injury sites)
- *Location* (geographic), *site* (area of head)

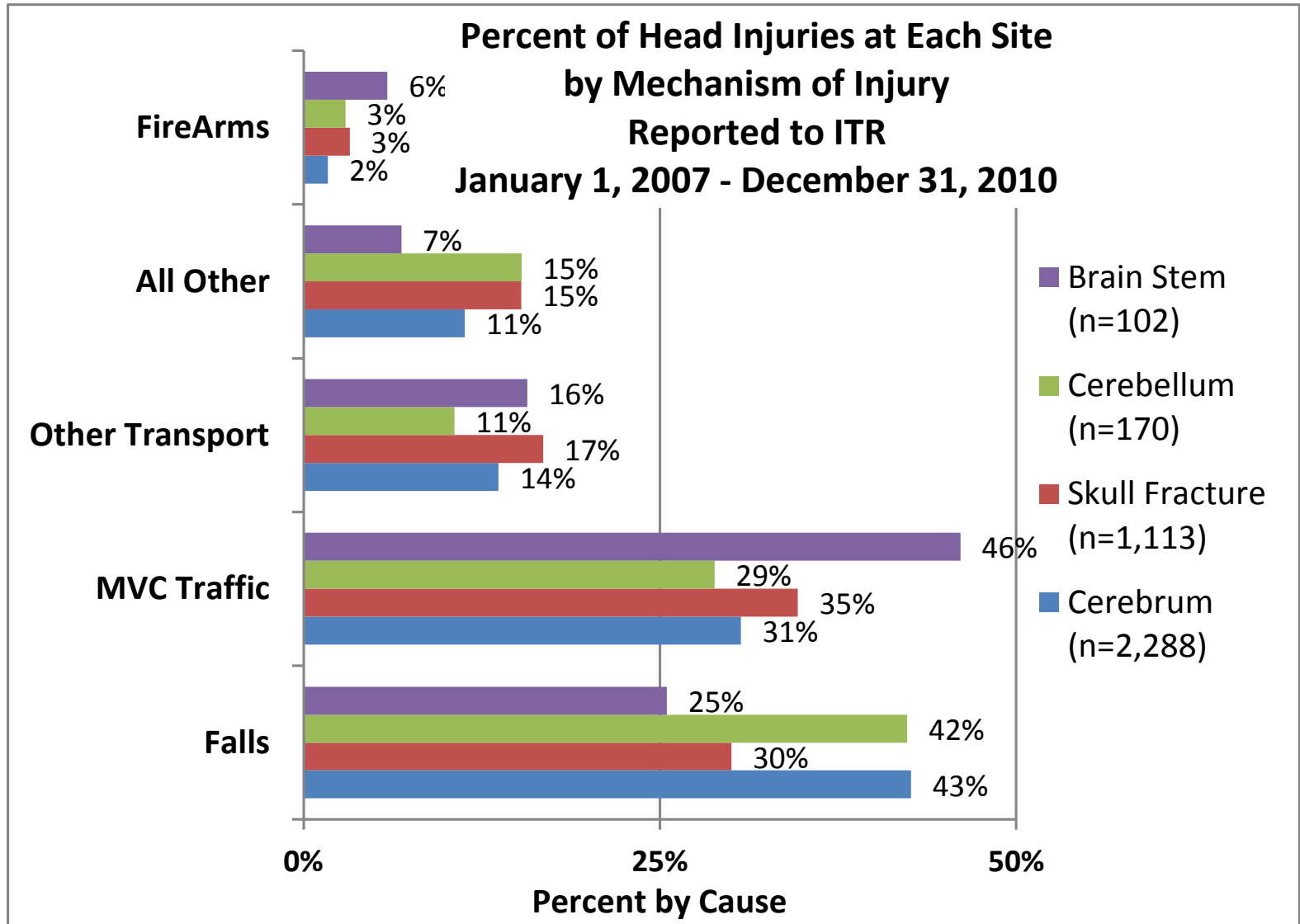
Data Caveats continued

- **2007 – 2010 ITR data** linked to BVRHS data
 - Deaths after hospital discharge (ITR only)
- Analyses
 - **2010 BVRHS data** TBI deaths in Idaho – not Idaho resident TBI deaths
 - ITR includes brain stem, cerebellum, cerebrum and skull fractures
 - BVRHS also includes open head wounds, optic nerve injuries

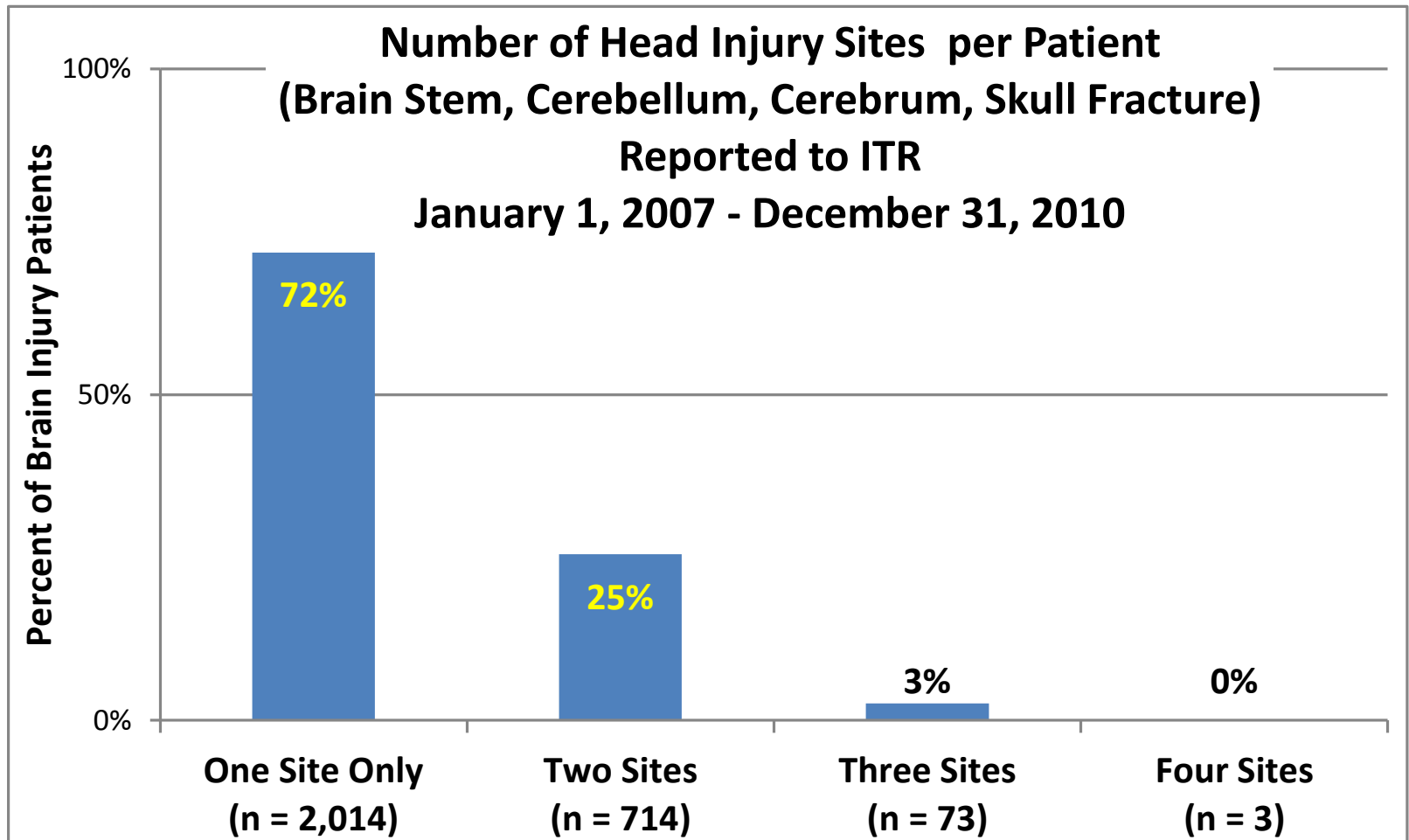
Number of Head Injuries Reported to ITR January 1, 2007 – December 31, 2010



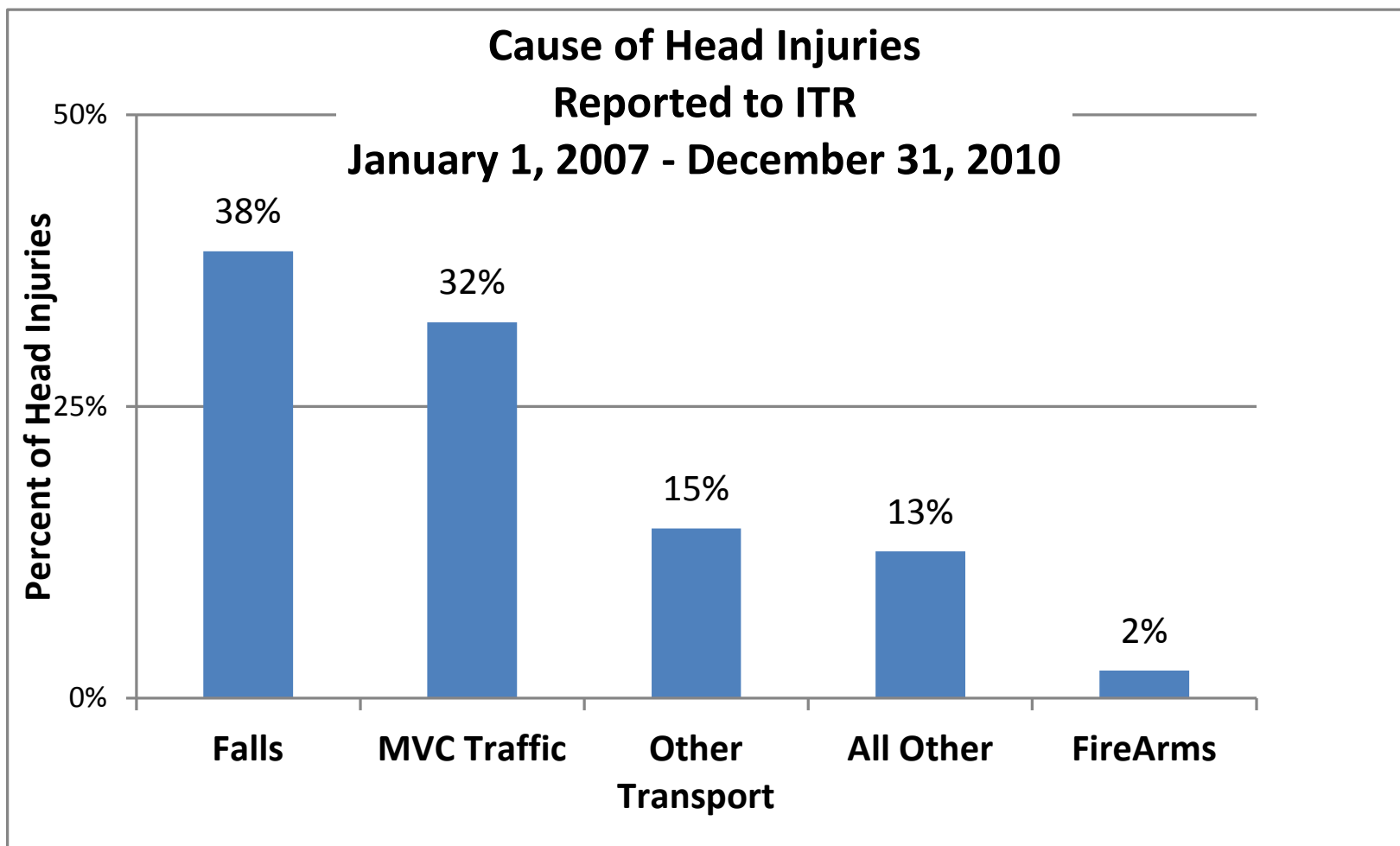
Head Injury Sites by Cause of Injury January 1, 2007 – December 31, 2010



Number of Head Injury Sites per Patient

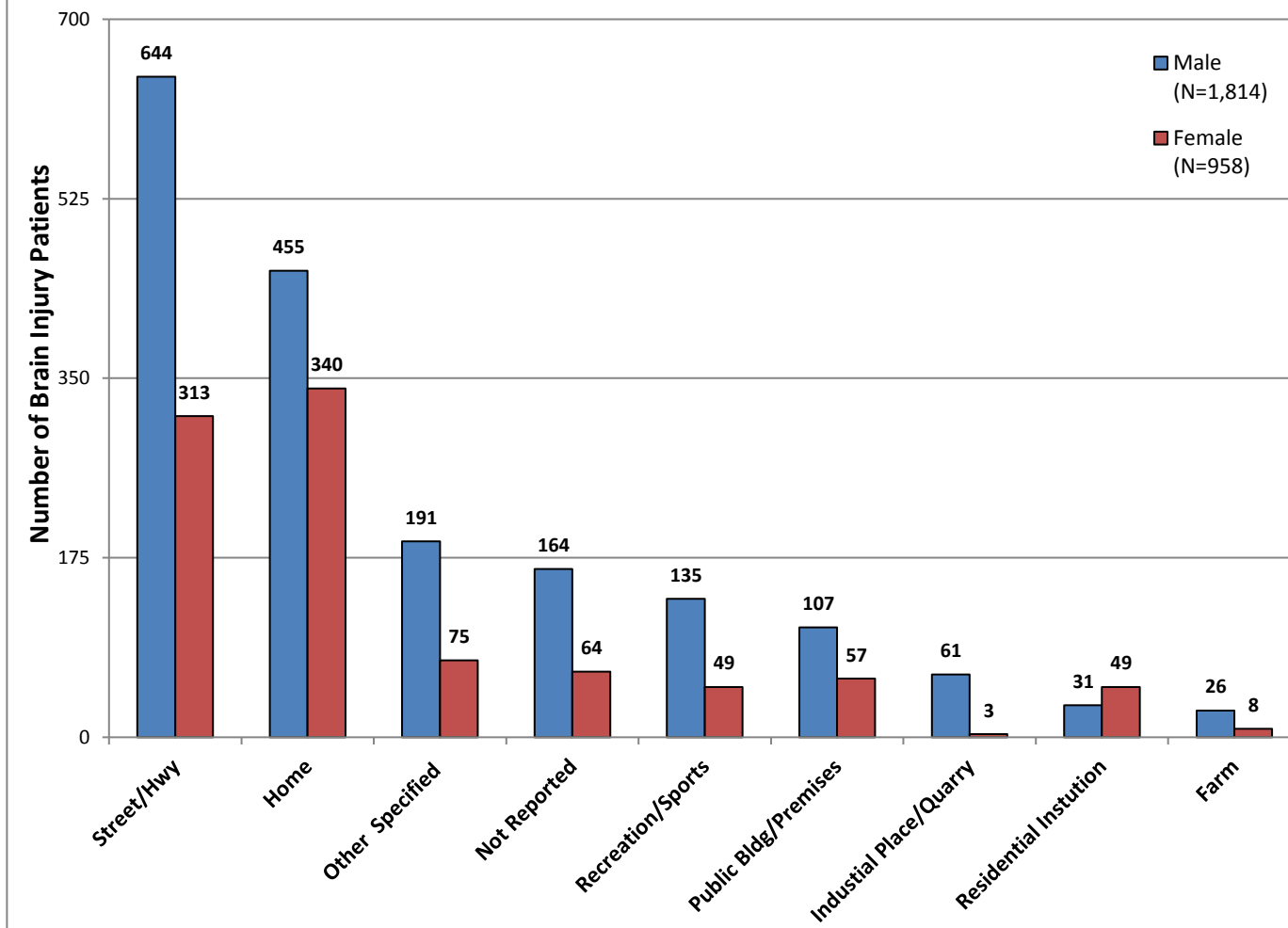


Cause of Head Injuries



Location of Injury Incident

Location of Injury Incident
Head Injuries Reported to ITR
January 1, 2007 - December 31, 2010



Top Three Injury Locations by Age

**Top Three Locations of Injury Incidents
by Age
Head Injuries Reported to ITR
January 1, 2007 - December 31, 2010**

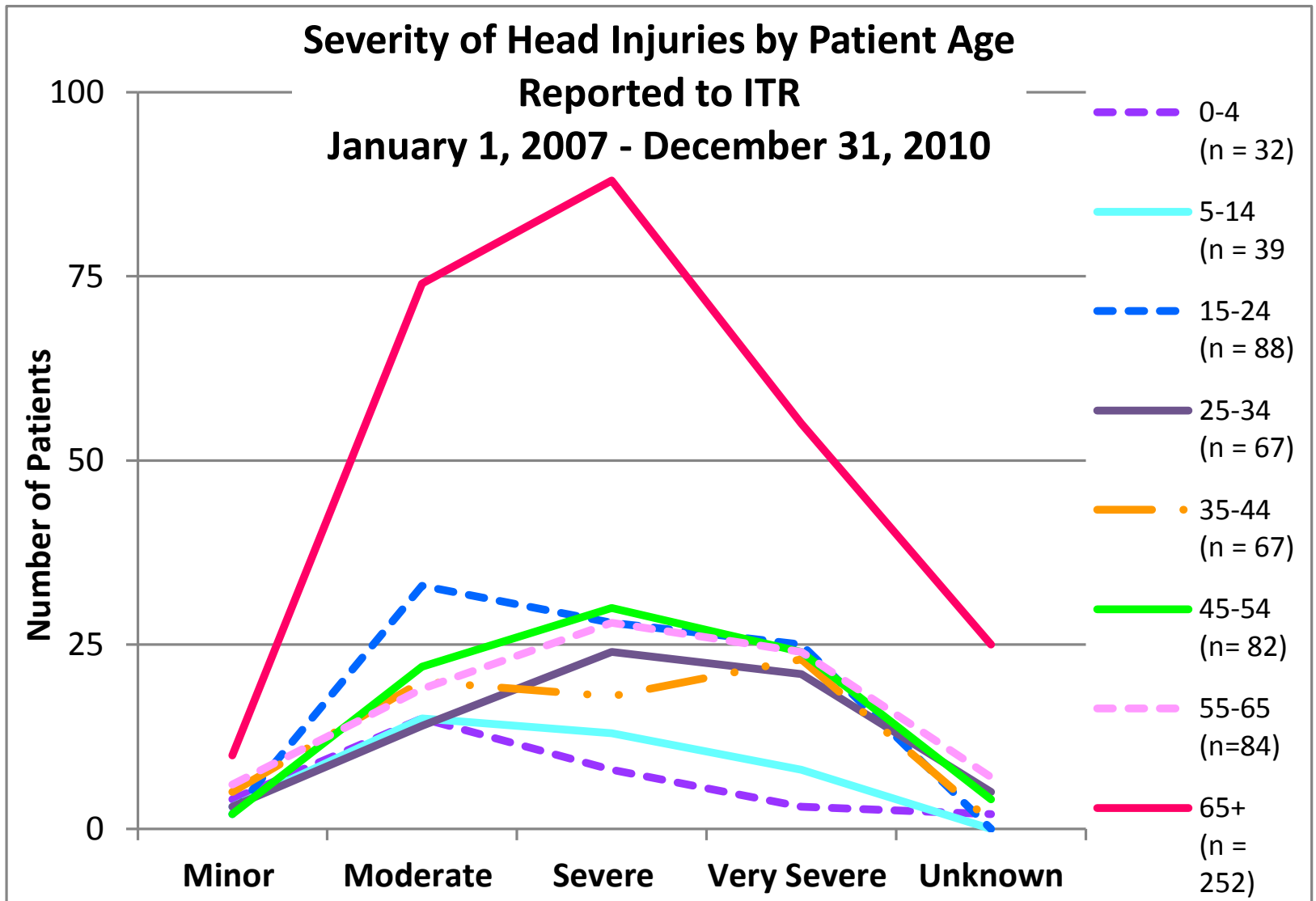
Age (Years)	Number One	Number Two	Number Three
0-4	Home	Street or Highway	Recreation/Sports
5-14	Street or Highway	Not Reported	Other Specified
15-24	Street or Highway	Other Specified and Not Reported	Recreation/Sports
25-34	Street or Highway	Not Reported	Recreation/Sports and Other Specified
35-44	Street or Highway	Home	Other Specified
45-54	Street or Highway	Home	Other Specified
55-65	Street or Highway	Home	Other Specified
65+	Home	Street of Highway	Other Specified

Location of Injury Incident

Work-Related Head Injuries

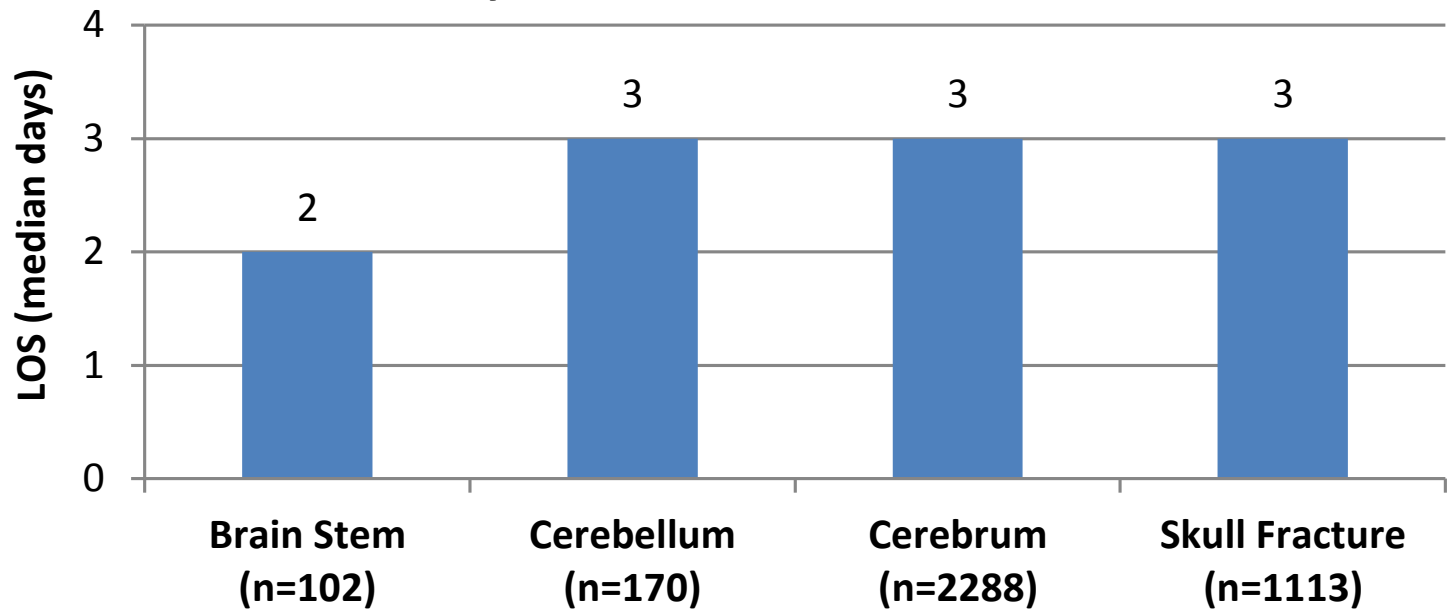


Severity of Head Injury by Patient Age

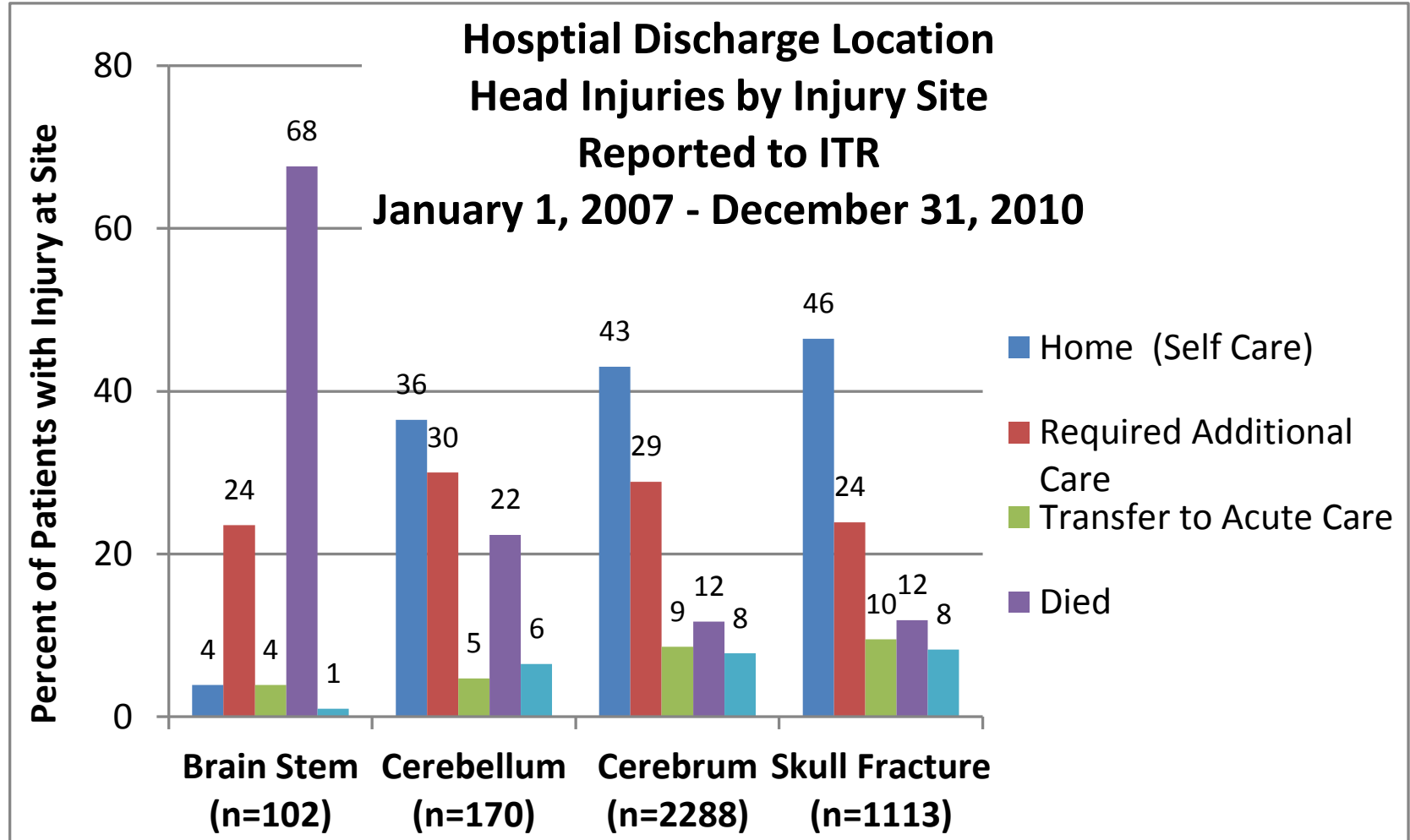


Hospital Length of Stay Head Injuries

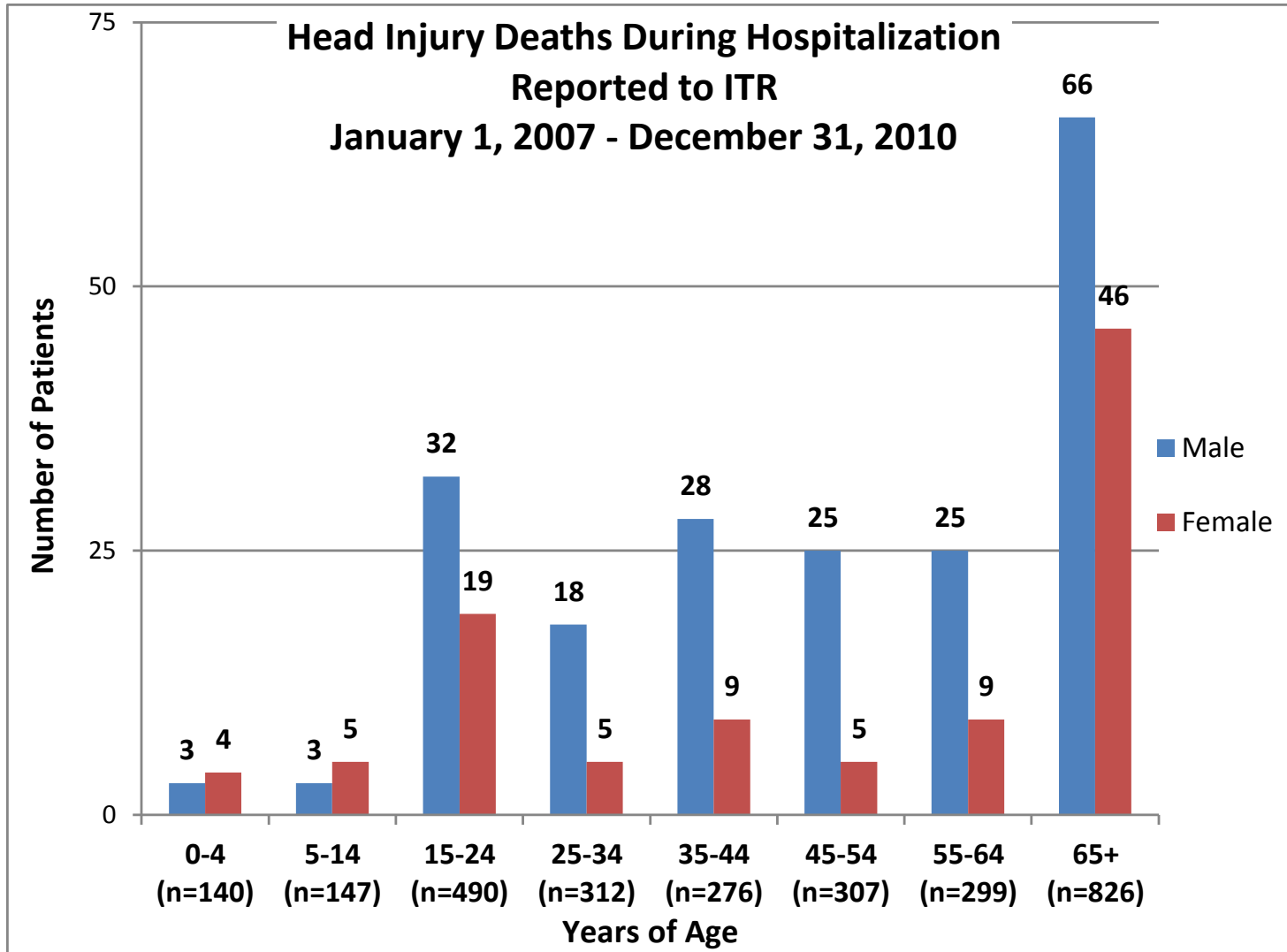
Median Hospital Length of Stay (days)
by Head Injury Site
(Brain Stem, Cerebellum, Cerebrum, Skull Fracture)
Reported to ITR
January 1, 2007 - December 31, 2010



Hospital Discharge Location

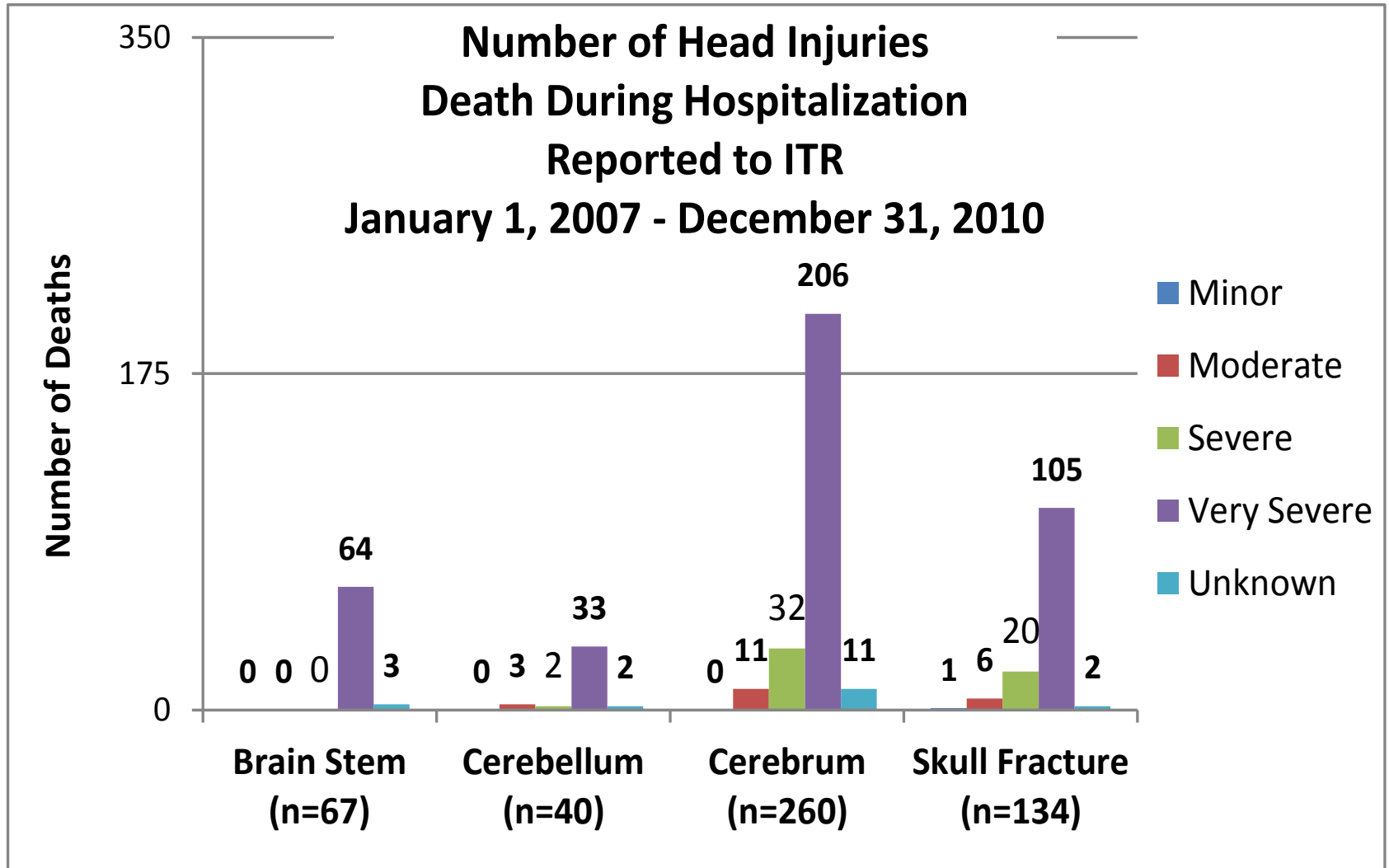


Head Injury Deaths During Hospitalization Age and Gender



Death During Hospitalization by Head Injury Site

January 1, 2007 – December 31, 2010

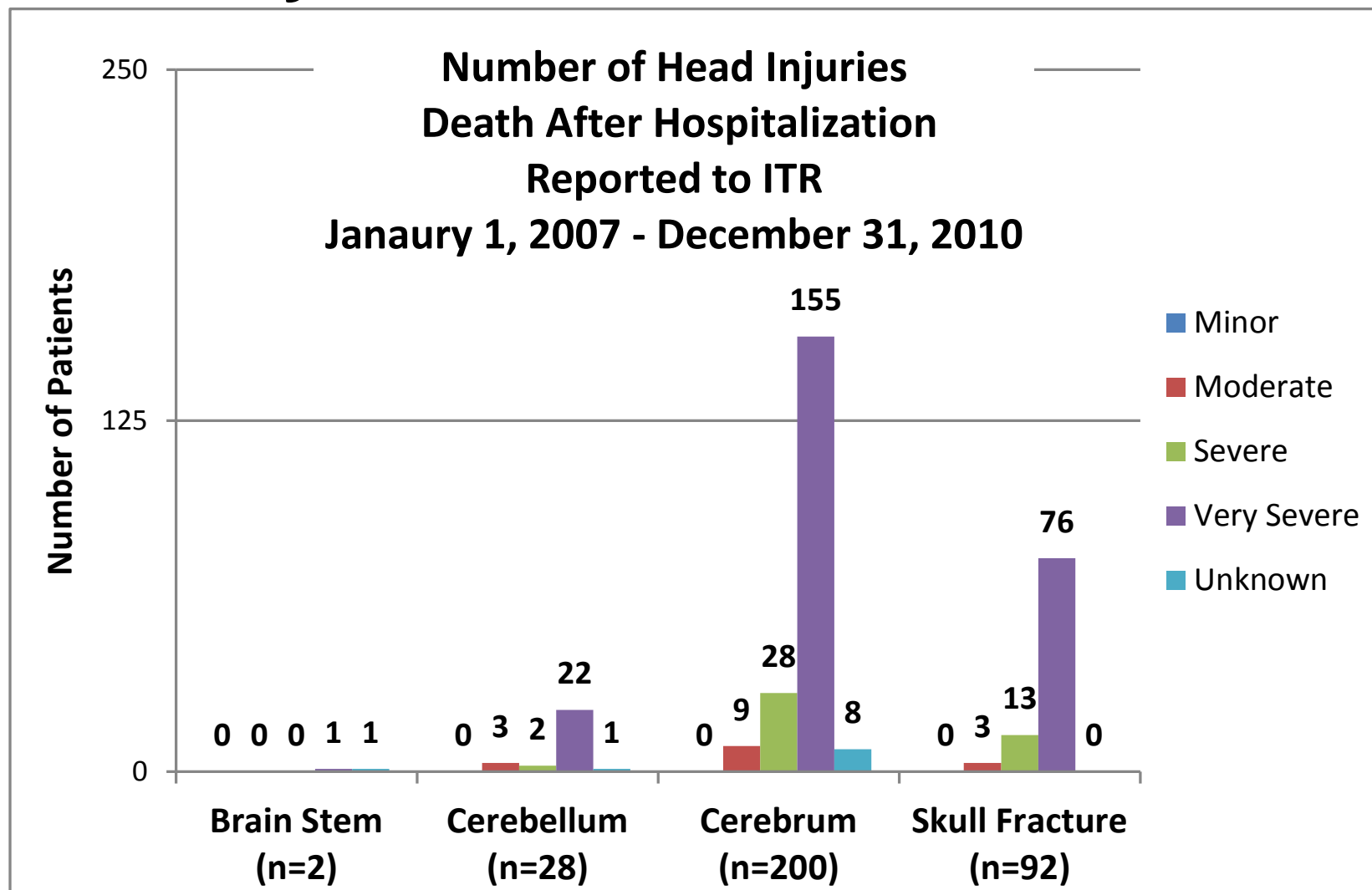


Head Injury Deaths After Hospital Discharge

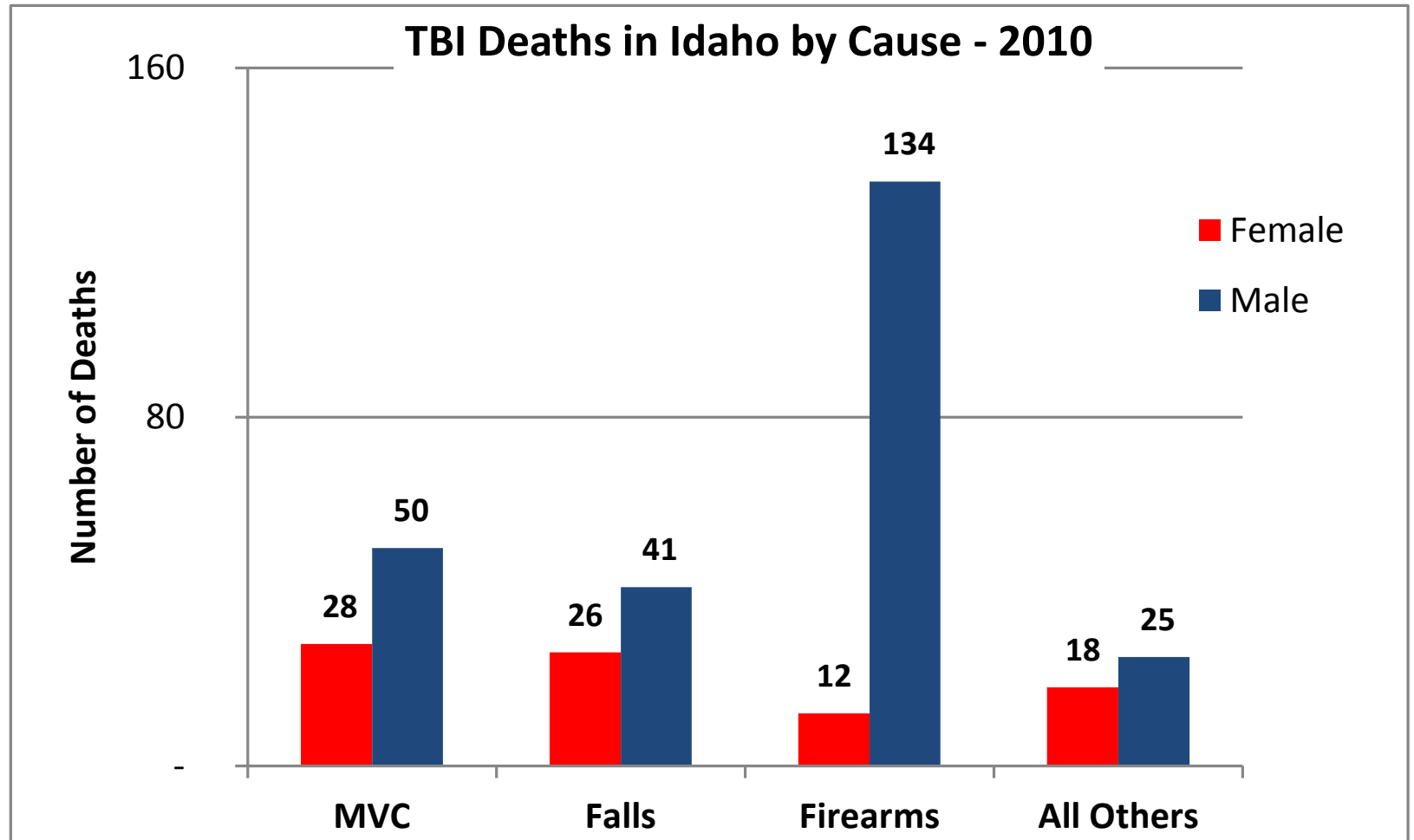
Deaths After Hospital Discharge Head Injury Patients Reported To ITR January 1, 2007 - December 31, 2010			
Age (Years)	Number of Head Injury Patients	Number Died After Discharge	Percent Died After Discharge
0-4	140	2	1%
5-14	147	5	3%
15-24	490	33	7%
25-34	312	15	5%
35-44	276	25	9%
45-54	307	22	7%
55-64	299	24	8%
65+	826	98	12%
Total	2797	224	8%

Death After Hospital Discharge by Head Injury Site

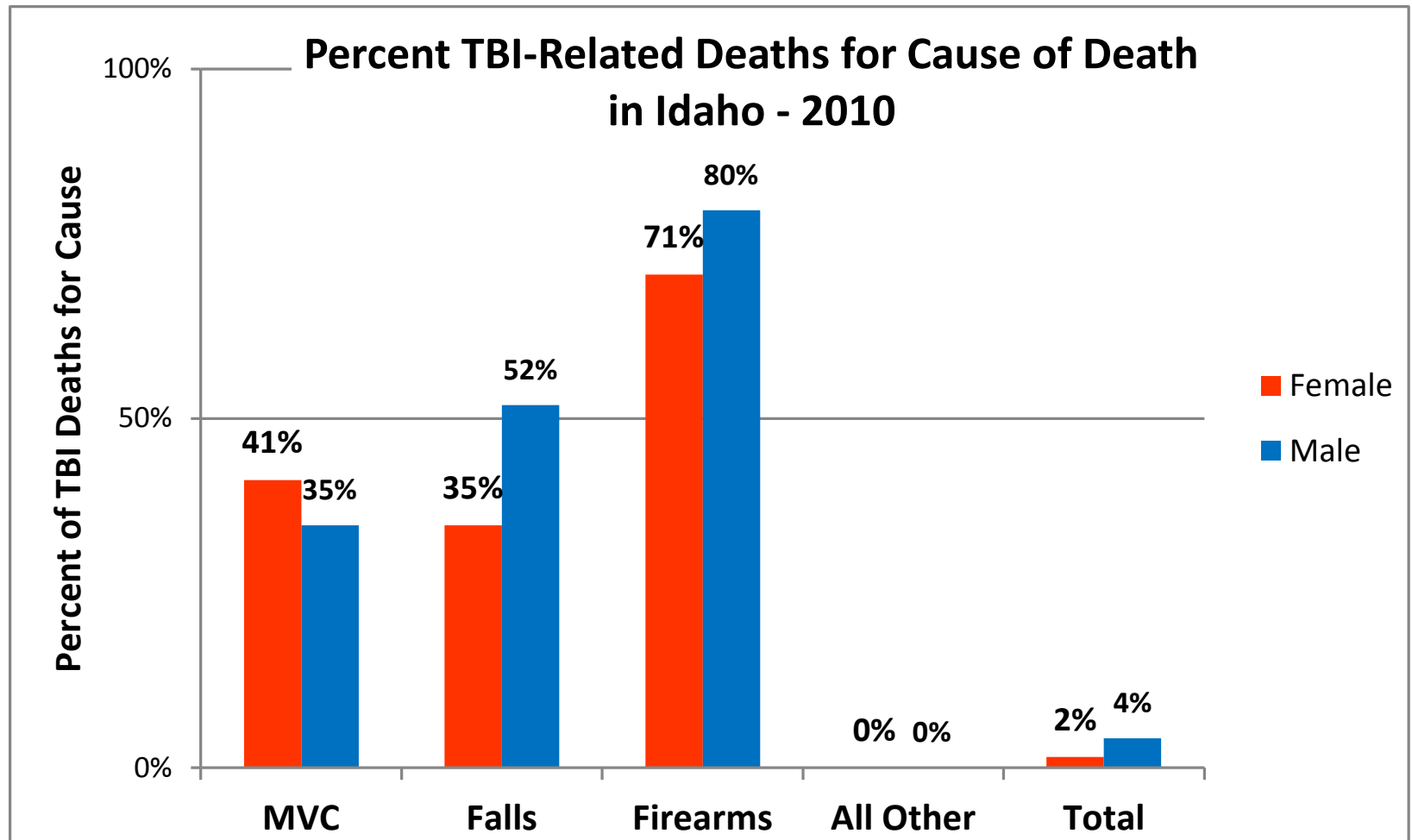
January 1, 2007 – December 31, 2010



TBI Deaths in Idaho by Cause January 1 – December 31, 2010



Contribution of TBI-Related Deaths to Cause of Death in Idaho - 2010



What Can Be Done To Prevent Head Injuries

- Motor vehicle collisions
 - Wear your seat belt
 - Drive the speed limit
 - Use a designated driver when drinking
- Falls
 - Build your balance (Fit and Fall Proof classes)
 - Vision checks
 - Medicine checks
 - Grab bars, pick up clutter and throw rugs

Prevention (continued)

- Firearms
 - Recognize the signs of depression
 - Learn what you can do (www.spanidaho.org)
 - Find access to mental health care

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