Outcome Measure Worksheet
Falls Prevention

Instructions

Complete the first page of this worksheet. Then, using the second page of the worksheet, identify which datasets are used in your state and who is the individual responsible for reporting to that system. Contact that individual to explore options for getting real time data on a monthly basis.

Why We Need Data and How It Will Be Used

We are looking for real-time data for the purposes of Quality Improvement and determining the impact our work is having on rates of falls-related deaths, hospitalizations, and emergency department (ED) visits. The data will be used to:

- Assess progress made towards the achievement of aim statements
- Compare injury trends over time

Description of the Data

In an ideal world, these data will:

- Be collected and reported on a monthly basis
- Relate to this geographic region: _____ _____
- Relate to this age group: _____ _____
- Relate to populations with these characteristics: _____ _____
- Reflect the following International Classification of Diseases (ICD) codes. The first part of Table 1 lists the Fall and struck by/against codes. States addressing injuries in sports or in the home may want to use the subset of codes described further down in Table 1.

Table 1: Falls ICD Codes

ICD system	Hospitalizations and Emergency Department Visits		Deaths
	ICD-9-CM	**ICD-10-CM**	**ICD-10-CM**
Falls	Unintentional Falls: E880-E888	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Slipping, tripping, stumbling and falls**: W00-W19 • *exclude W16 where sixth digit = "1" (fall into … causing drowning and submersion)* **Fall from pedestrian conveyance**: V00.1-.3 **Accident with wheelchair**: V00.81 **Accident with baby stroller**: V00.82	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Slipping, tripping, stumbling and falls**: W00-W19 • *exclude W16 where sixth digit = "1" (fall into … causing drowning and submersion)* **Fall from pedestrian conveyance**: V00.1-.3 **Accident with wheelchair**: V00.81 **Accident with baby stroller**: V00.82
Struck by/against	Unintentional Struck By/Against: E917	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Striking, struck by or struck against** W20-W22 • *exclude W22 where sixth digit = "1" (fall into … causing drowning and submersion)* **Accidental hit, strike, kick, twist, bite or scratch by another person; Accidental striking against or bumped into by another person**: W50-52	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Striking, struck by or struck against** W20-W22 • *exclude W22 where sixth digit = "1" (fall into … causing drowning and submersion)* **Accidental hit, strike, kick, twist, bite or scratch by another person; Accidental striking against or bumped into by another person**: W50-52

	Hospitalizations and Emergency Department Visits		Deaths
ICD system	ICD-9-CM	ICD-10-CM	ICD-10-CM
Subsets of Fall and Struck By/Against Codes			
Sports/ Recreation (sports, playground, recreational equipment)	Unintentional fall from playground equipment: E884.0 Unintentional fall on same level from slipping tripping or stumbling, i.e. skateboard, scooter, ski, snowboard, etc.: E885.0-.4 Unintentional fall on same level from collision, pushing, or shoving, by or with other person in sports: E886.0 Unintentional striking against or struck accidentally by objects or persons in sports: E917.0 Unintentional striking against or struck accidentally by object in sports with subsequent fall: E917.5	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Fall on and from playground equipment:** W09 **Fall into swimming pool:** W16.0 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.011, W16.021, W16.031* **Jumping or diving into swimming pool:** W16.5 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.511, W16.521, W16.531* **Jumping or diving from boat:** W16.7 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.711, W16.721* **Fall from rolling-type pedestrian conveyance accident, skateboard, scooter, etc.:** V00.1 **Fall from gliding-type pedestrian conveyance accident, Ice-skate, sled, etc.:** V00.2 **Fall from flat-bottomed pedestrian conveyance accident, Ski, Snowboard, etc.:** V00.3 **Activities involving other recreational activities:** Any fall with activity code Y93, where fourth digit is .0,.1,.3,.4,.5,.6,.7 **Striking against sports equipment with subsequent fall:** W18.01 **Striking against or struck by sports equipment:** W21 • 5th digit indicates type of sports equipment) **Striking against wall of swimming pool:** W22.04 **Activities involving other recreational activities:** Any struck by against case with activity code Y93, where fourth digit is .0,.1,.3,.4,.5,.6,.7	*To compute incidence, exclude all cases with 7th digit = "D" (subsequent health care encounter) and "S" (sequela of injury)* **Fall on and from playground equipment:** W09 **Fall into swimming pool:** W16.0 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.011, W16.021, W16.031* **Jumping or diving into swimming pool:** W16.5 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.511, W16.521, W16.531* **Jumping or diving from boat:** W16.7 • *exclude cases where sixth digit = "1"* • *exclude drowning: W16.711, W16.721* **Fall from rolling-type pedestrian conveyance accident, skateboard, scooter, etc.:** V00.1 **Fall from gliding-type pedestrian conveyance accident, Ice-skate, sled, etc.:** V00.2 **Fall from flat-bottomed pedestrian conveyance accident, Ski, Snowboard, etc.:** V00.3 **Activities involving other recreational activities:** Any fall with activity code Y93, where fourth digit is .0,.1,.3,.4,.5,.6,.7 **Striking against sports equipment with subsequent fall:** W18.01 **Striking against or struck by sports equipment:** W21 • 5th digit indicates type of sports equipment) **Striking against wall of swimming pool:** W22.04 **Activities involving other recreational activities:** Any struck by against case with activity code Y93, where fourth digit is .0,.1,.3,.4,.5,.6,.7
Furniture/ Stairs (stairs/steps, chair, bed, wheelchair, commode)	Accidental fall on or from other stairs or steps: E880.9 Accidental fall from chair, wheelchair, bed, other furniture, commode: E884.2-.6 Striking against or struck accidentally by furniture without subsequent fall: E917.3 Striking against or struck accidentally by furniture with subsequent fall: E917.7	**Fall from bed:** W06 **Fall from chair:** W07 **Fall from other furniture:** W08 **Fall on and from stairs and steps:** W10 **Fall from or off toilet, Fall in (into) shower or empty bathtub:** W18.1, W18.2 **Walked into wall, lamppost, furniture:** W22.01, W22.02, W22.03	**Fall from bed:** W06 **Fall from chair:** W07 **Fall from other furniture:** W08 **Fall on and from stairs and steps:** W10 **Fall from or off toilet, Fall in (into) shower or empty bathtub:** W18.1, W18.2 **Walked into wall, lamppost, furniture:** W22.01, W22.02, W22.03

These data do not need to be cleaned to the same extent that they are cleaned for federal data systems. From the Quality Improvement standpoint, some data is better than no data. We encourage you to explore your options.

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Who Manages Injury Datasets?

The following individuals or organizations might be able to provide you with more information about data collected and reported in your state/jurisdiction.

Table 2: Individuals with Access to Data

State Epidemiologist	Name:	Phone Number:
	Email:	
Child Death Review Coordinator	Name:	Phone Number:
	Email:	
Medical Examiners or Coroners	Name:	Phone Number:
	Email:	
State Administrator	Name:	Phone Number:
	Email:	
Hospital Epidemiologist(s)	Name:	Phone Number:
	Email:	
School Nurse(s)	Name:	Phone Number:
	Email:	
Other:	Name:	Phone Number:
	Email:	
Other:	Name:	Phone Number:
	Email:	
Other:	Name:	Phone Number:
	Email:	

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Injury Datasets

The following datasets contain the relevant data we are seeking on a state/jurisdiction level. You may need help from individuals in the table above to answer questions about these systems.

Table 3: Data Reporting Systems

Data System	Does your S/J, or hospitals in your S/J have or report to this system?	Who is responsible for this system in your state/jurisdiction?	Does the system contain the data you are looking for?
ED, Hospitalization and Death Data Systems			
Healthcare Cost and Utilization Project (HCUP)			
National Emergency Medical Services Information System (NEMSIS)			
Syndromic Surveillance System			
The National Trauma Data Bank® (NTDB®)			
TBI/Concussion Registry			
Sports Injury Database			
Other:			
ED Visit Data Systems			
Emergency Department (State Emergency Department Databases) HCUP-SEDD			
National Electronic Injury Surveillance System			
National Electronic Injury Surveillance System- All Injury Program			

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Other:			
Hospitalization Data Systems			
HCUP-SID (Hospital Discharge Data)			
Kids' Inpatient Database (HCUP-KID)			
The National (Nationwide) Inpatient Sample (HCUP-NIS)			
Other:			
Death Data Systems			
Child Death Review			
Vital-Statistics Office			
Other:			

Guiding Questions

Once you find the data you are looking for in your state or jurisdiction, choose one dataset (or one dataset per outcome measure) and explore the following questions with the point person for that dataset:

- How is the data collected? For example: Where specifically does it come from? Who is it reported to? How frequently is the data collected?
- Is it possible to generate monthly reports that contain the data described on the first page of this worksheet?
- If I can't get data on a monthly basis, how often can I get data?
- If I can't get the specific data I am looking for, what data can I get related to hospitalizations, ED visits, and deaths?
- Do we need a data sharing agreement or memorandum of understanding to access the data?

If your state/jurisdiction **does not** have or report to any of these systems, ask the individuals listed in the second table (page 2) if they can think of other data systems or ways to collect the data described on page one of this worksheet.

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