



Legends of the Falls: Minnesota and Traumatic Brain Injury

Kate Anderson | Research Analysis Specialist

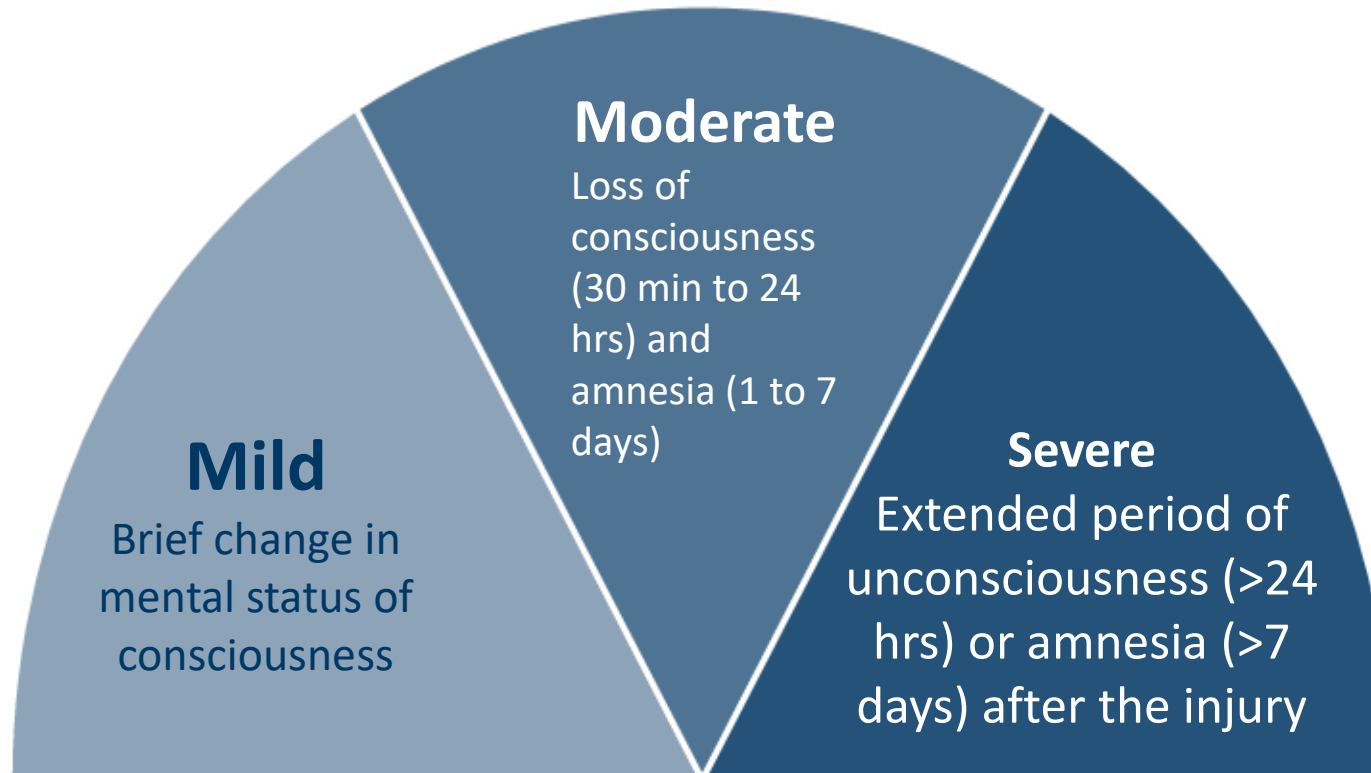


Legends of the Falls: An overview of Traumatic Brain Injury in Minnesota

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- I. Traumatic Brain Injury Data
- II. Who is getting TBIs in Minnesota?
- III. How are Minnesotans getting TBIs?
- IV. MDH connecting TBI patients to resources

Traumatic Brain Injury



Minnesota Hospital Association

Collected from Minnesota Hospitals

Initial and subsequent visits for TBI

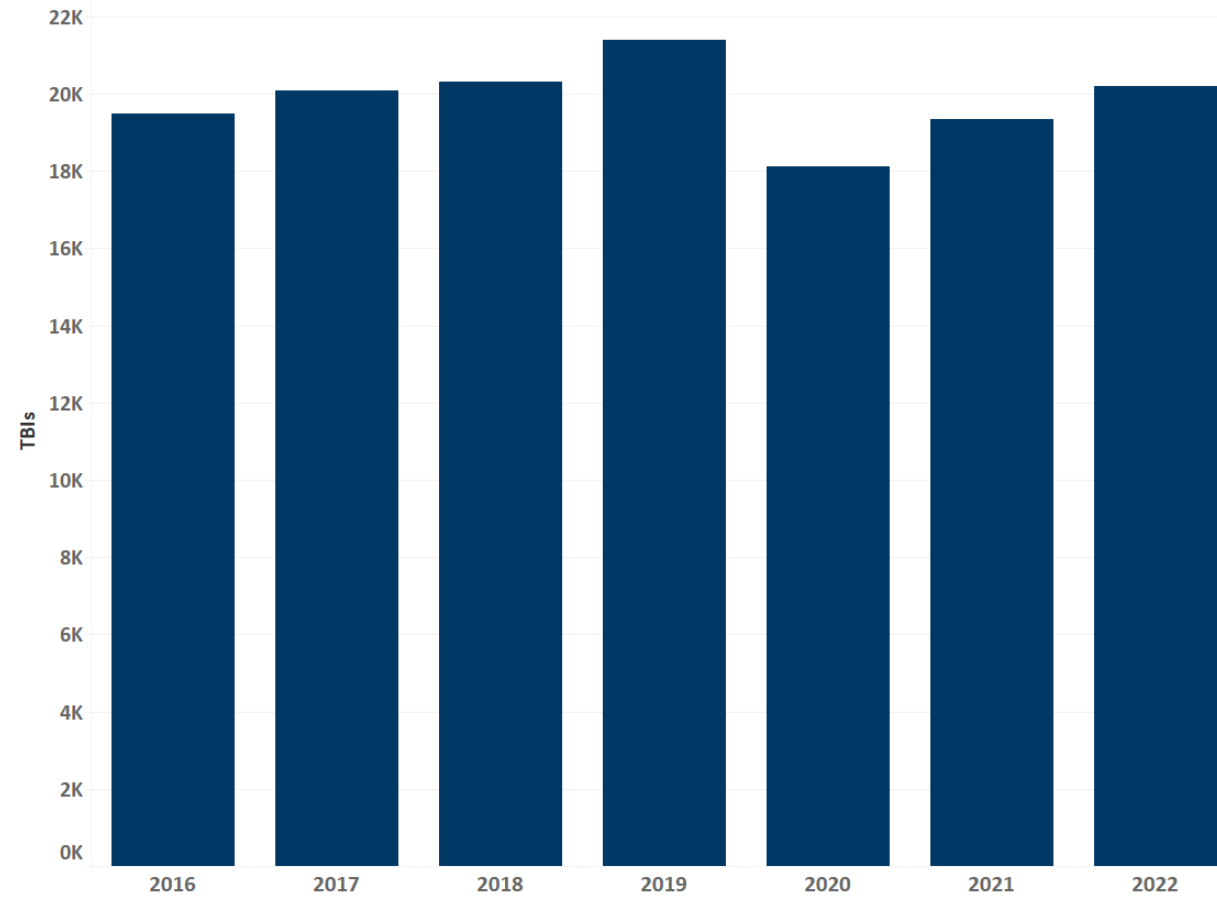
Does not include clinics

Does not include Minnesotans treated by border hospitals



The Data

TBIs were on a slow steady rise until 2020.



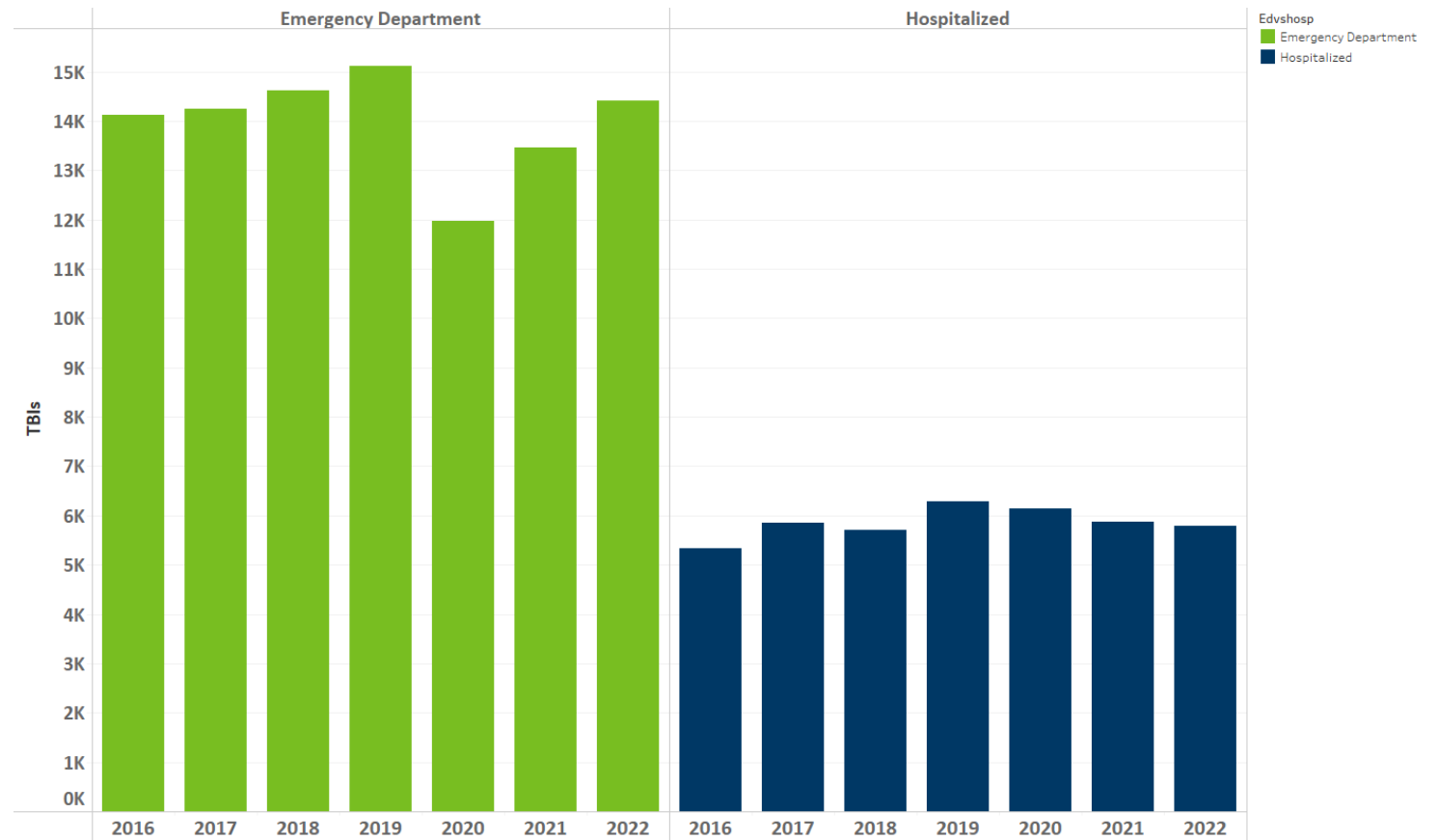
Total cases, MHA Data 2016-2022

The Data

TBIs were on a slow steady rise until 2020.

The reduction was mostly among emergency department treated TBIs while hospitalized TBIs remained steady.

Total cases, MHA Data 2016-2022

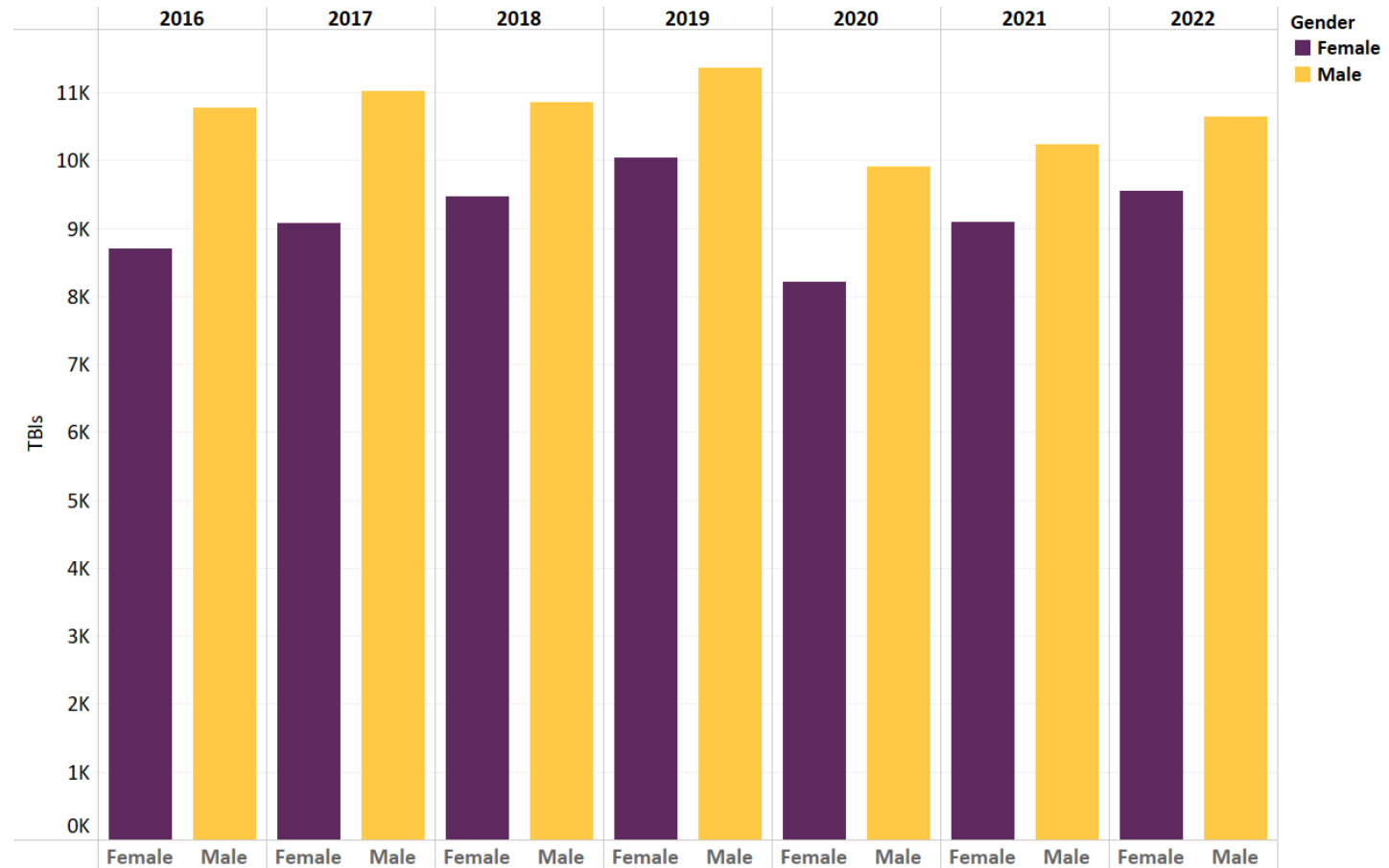




Who gets TBIs in Minnesota?

TBI Patient Demographics: Gender

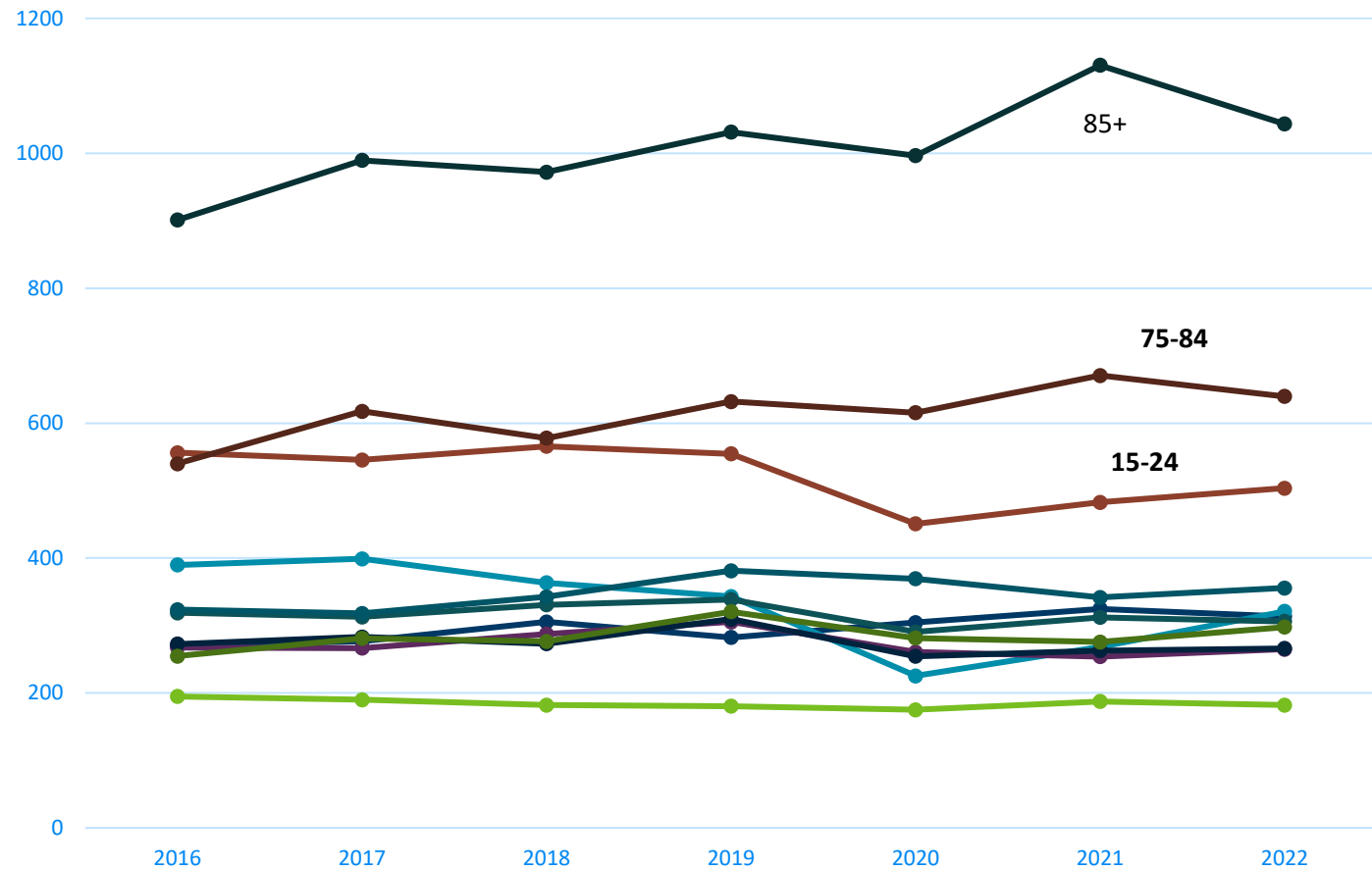
More patients are male but female patients are slowly catching up.



Total cases, MHA Data 2016-2022

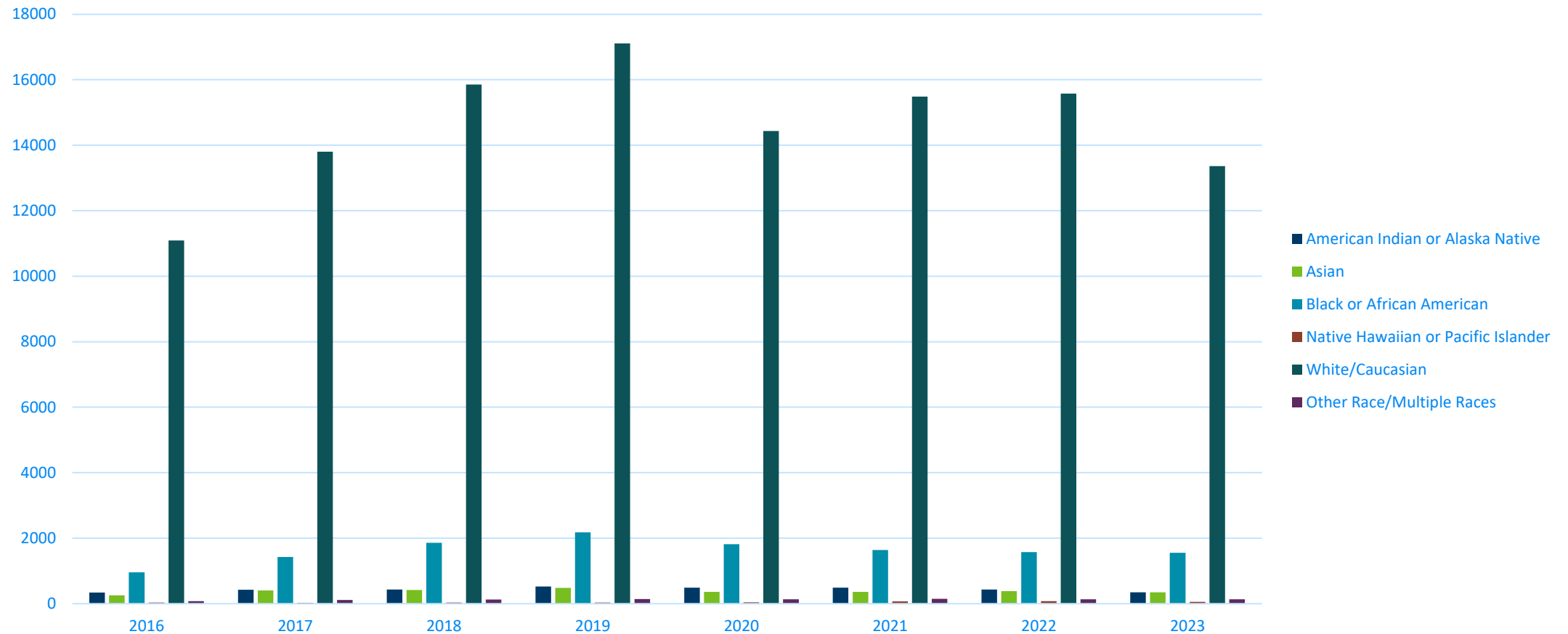
TBI Patient Demographics: Age

The three age groups that account for most TBIs are 85+, 75-84, and 15-24.



Age Adjusted cases, MHA Data 2016-2022

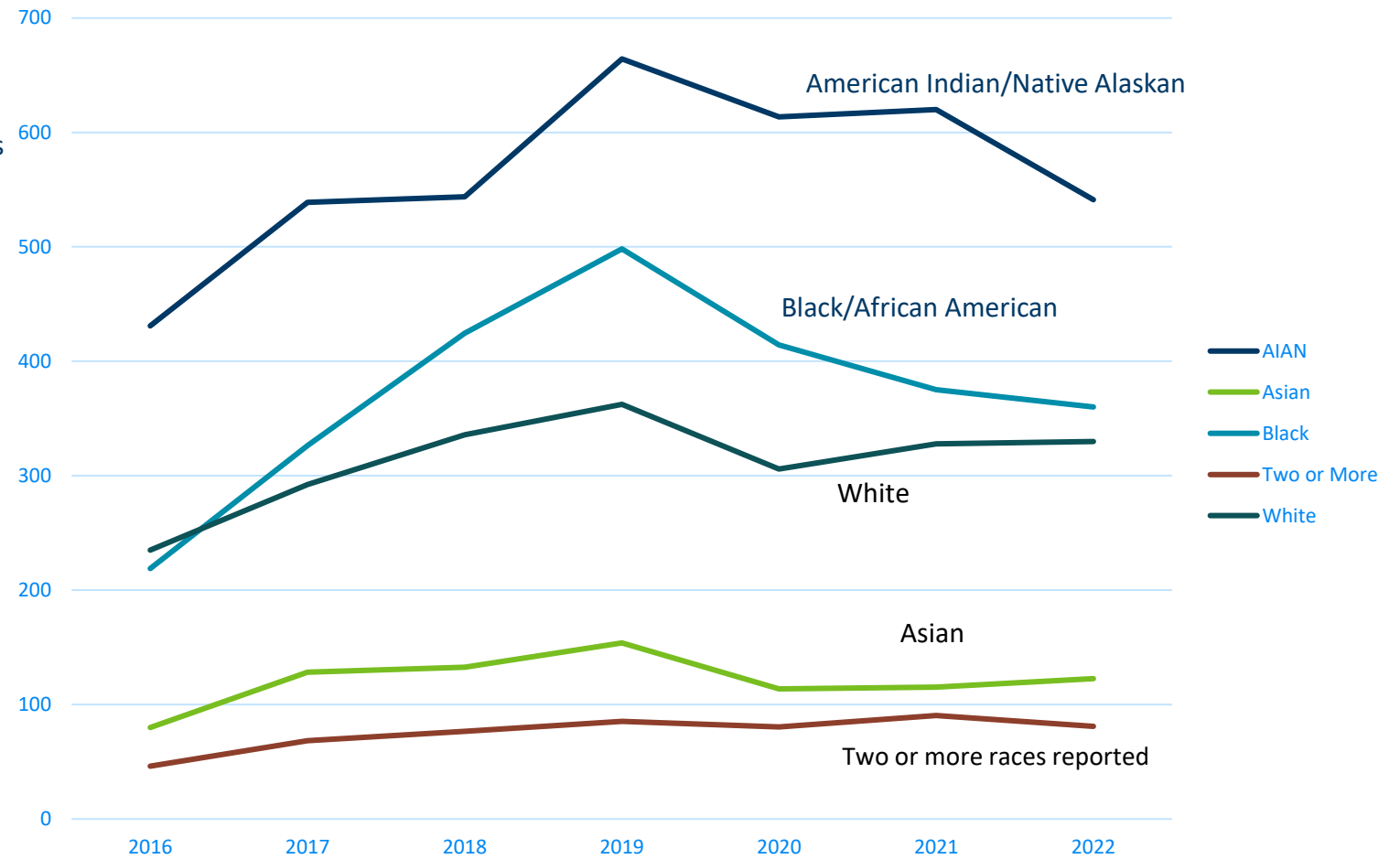
TBI Patient Demographics: Race



TBI cases, MHA Data 2016-2022

TBI Patient Demographics: Race

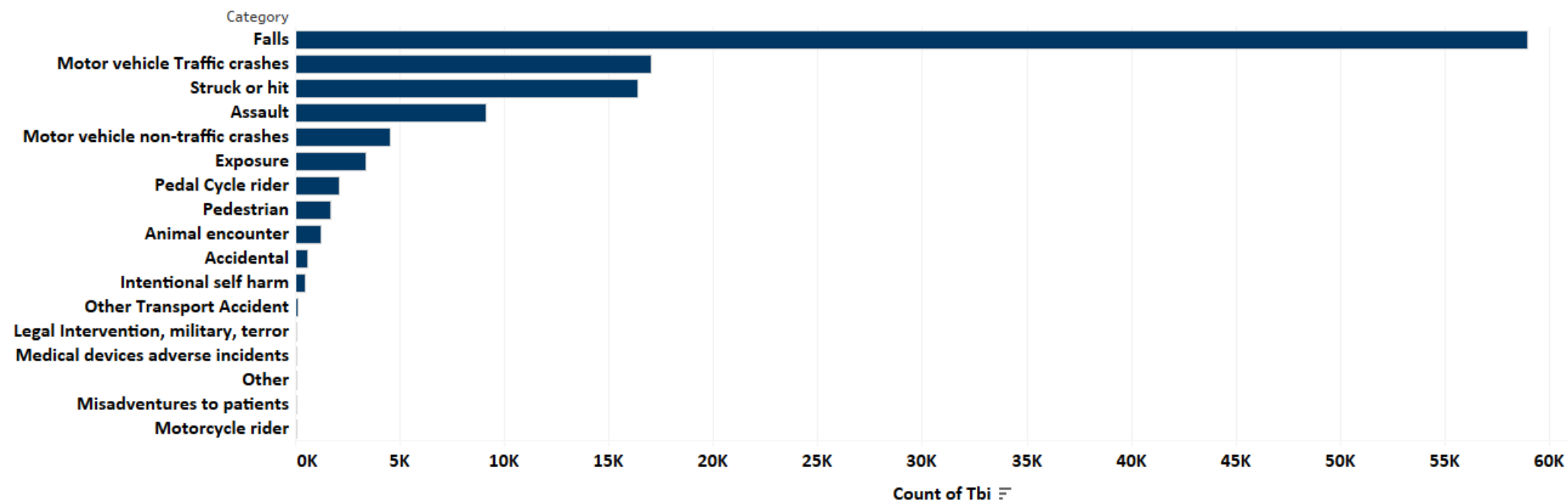
When adjusted for MN population by race, American Indian/Native Alaskan populations experience the highest rate of TBI among Minnesotans.



Population Adjusted cases, MHA Data 2016-2022

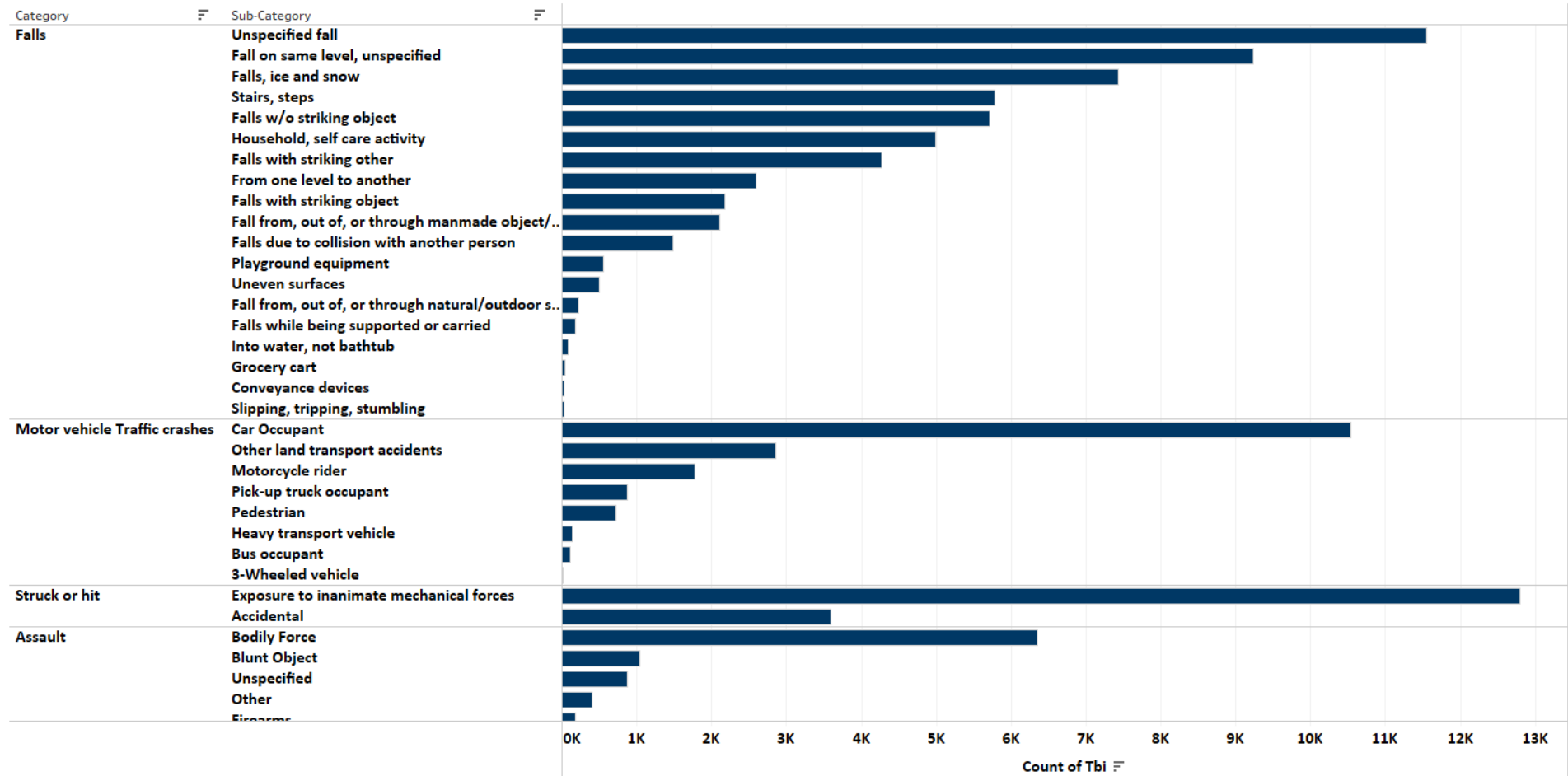
Causes of TBI

TBIs in Minnesota, 2016 – 2022 Mechanism Categories



TBIs in Minnesota, 2016 - 2022

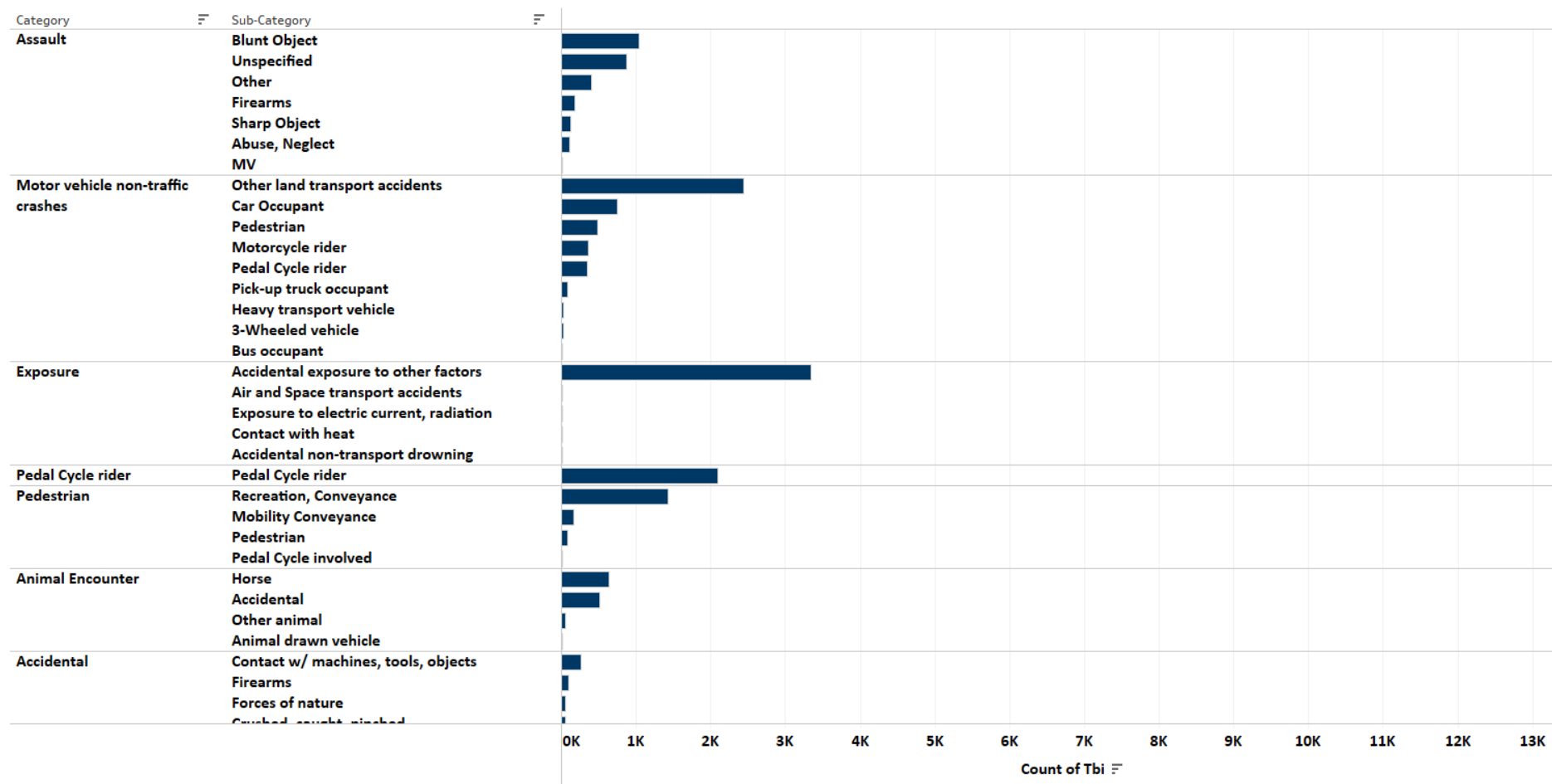
All Mechanism Categories



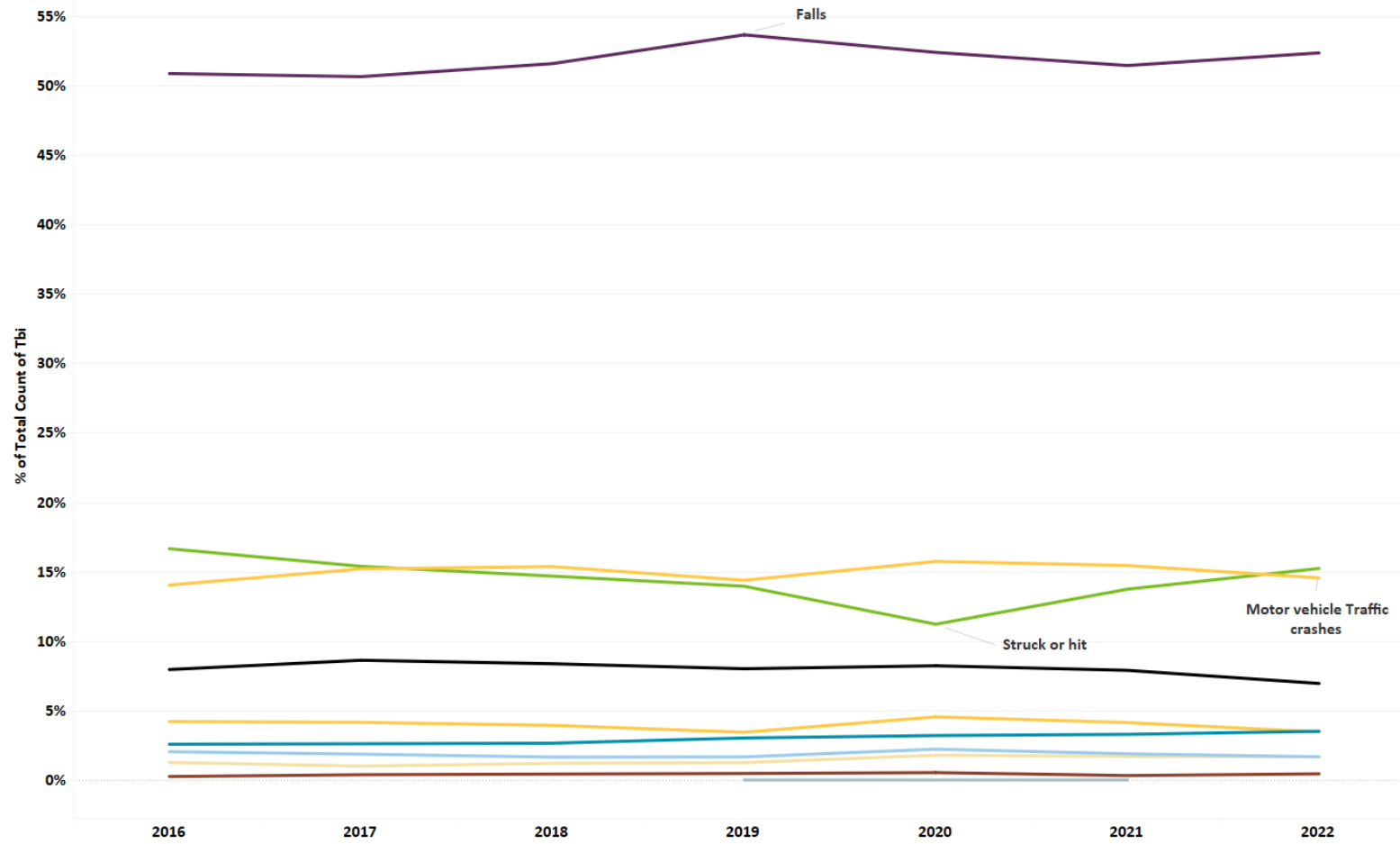
Causes

TBIs in Minnesota, 2016 - 2022

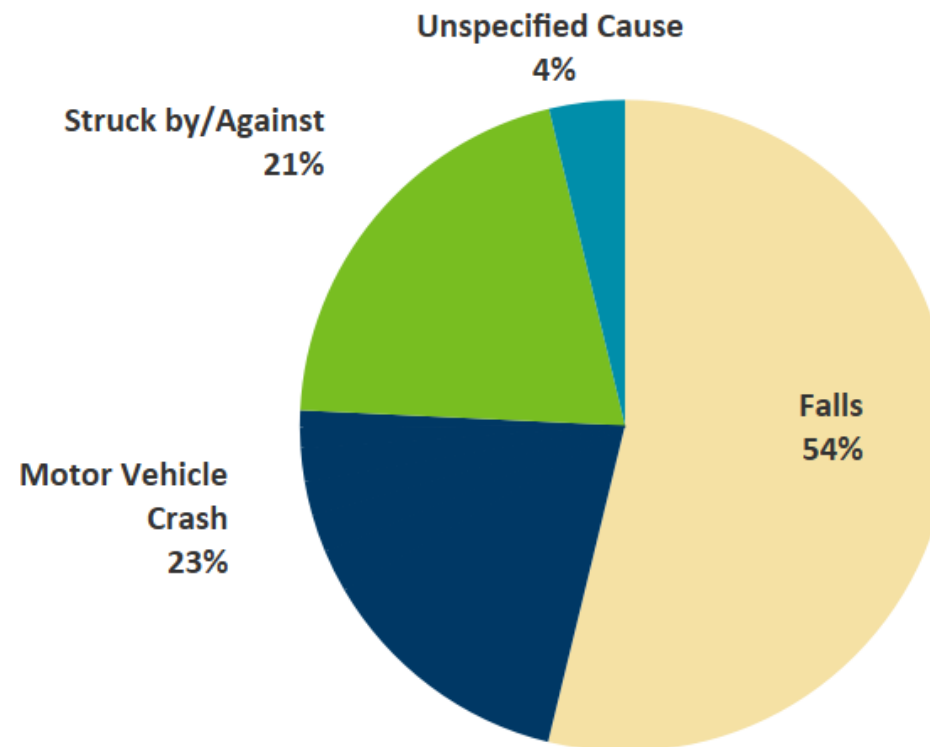
All Mechanism Categories



Causes



Falls remain the leading cause of TBI for Minnesotans making more than half of all cases reported from 2016 through 2021.

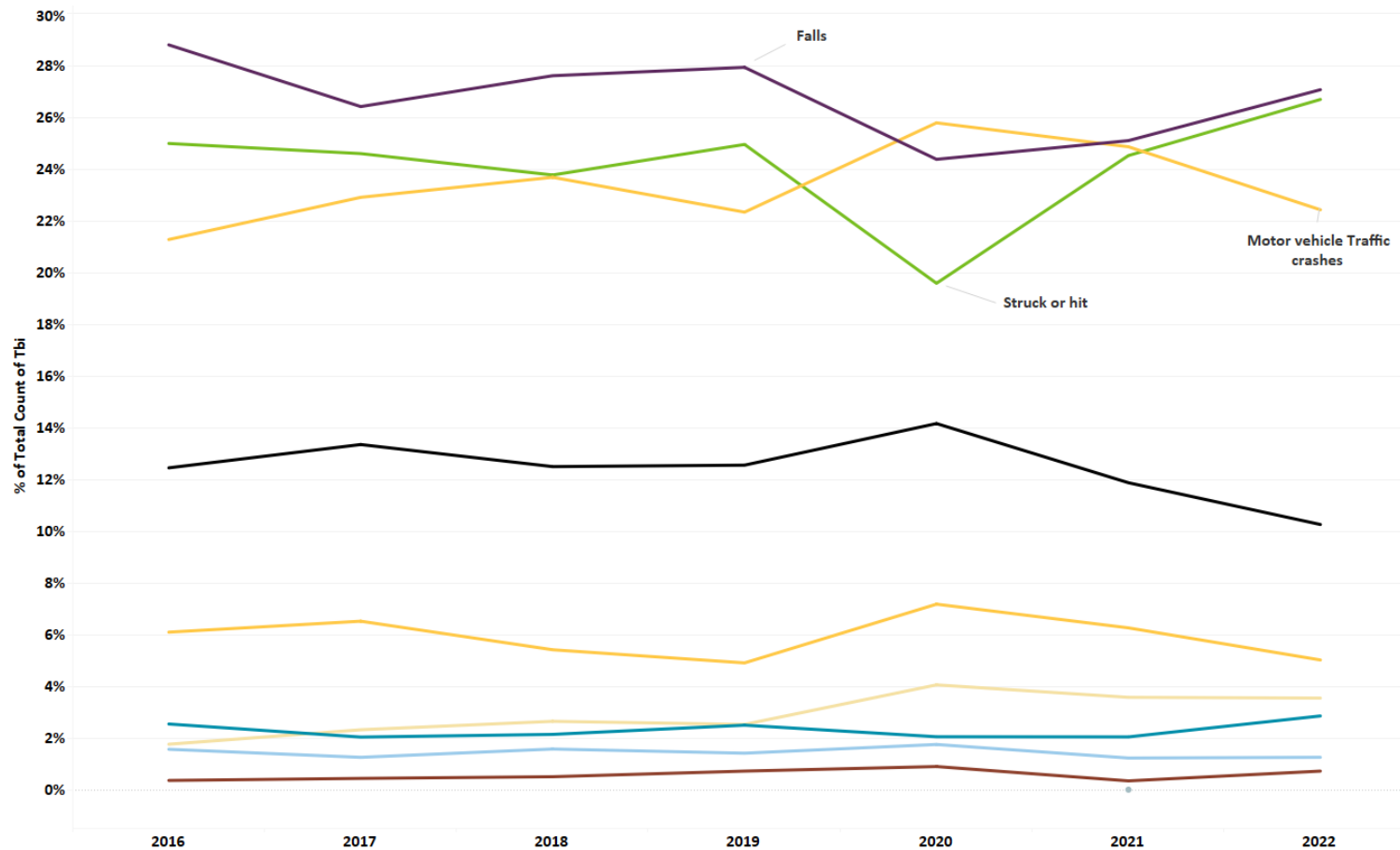


Causes



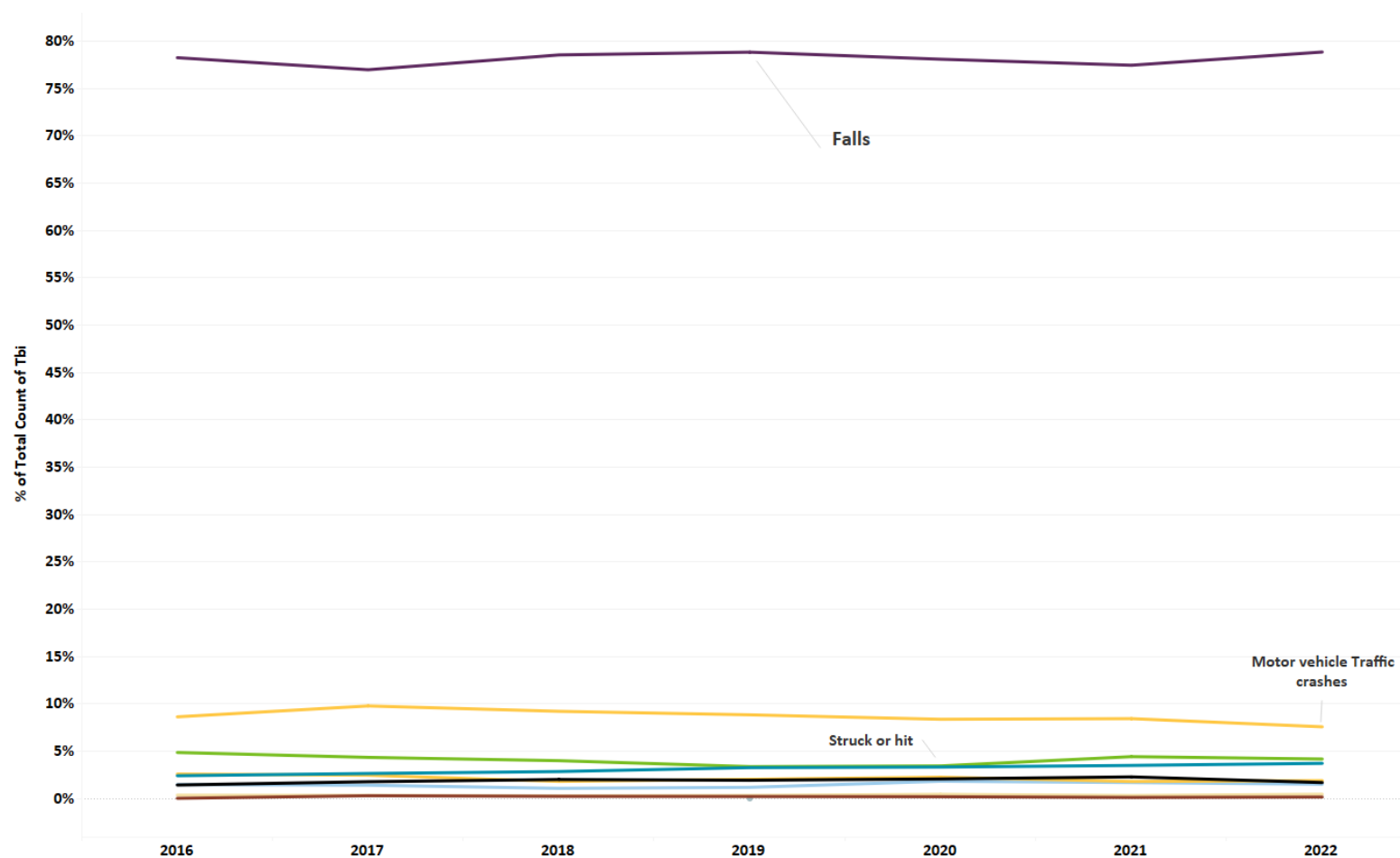
Causes

Top Three causes of TBI among 15–24-year-old Minnesotans MHA Data 2016-2022



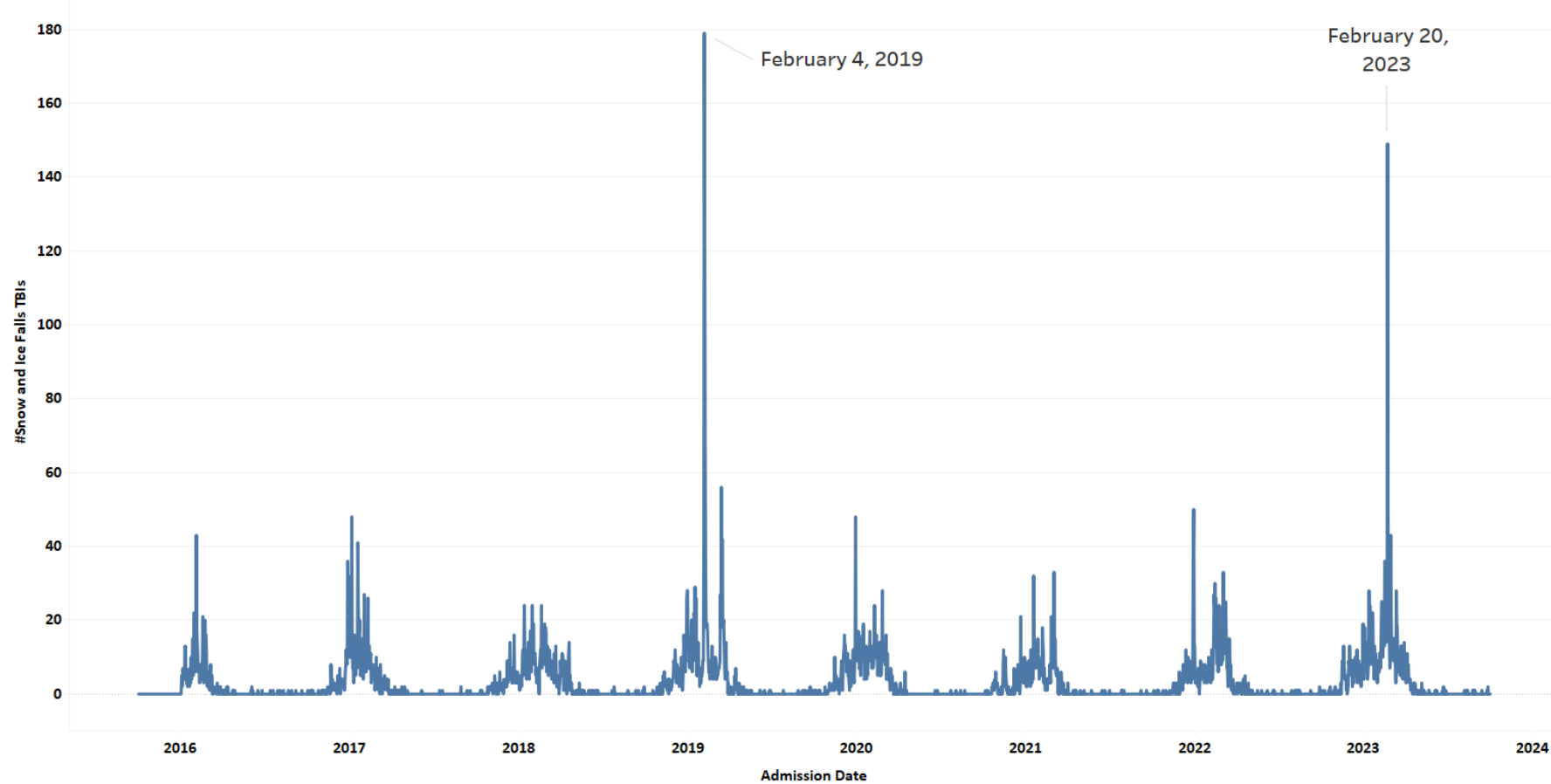
Causes

Falls are the leading cause of TBI among 65+ year-old Minnesotans MHA Data 2016-2022



TBIs due to Snow and Ice related Falls, 2016 -2023.

MHA Data 2016-2023

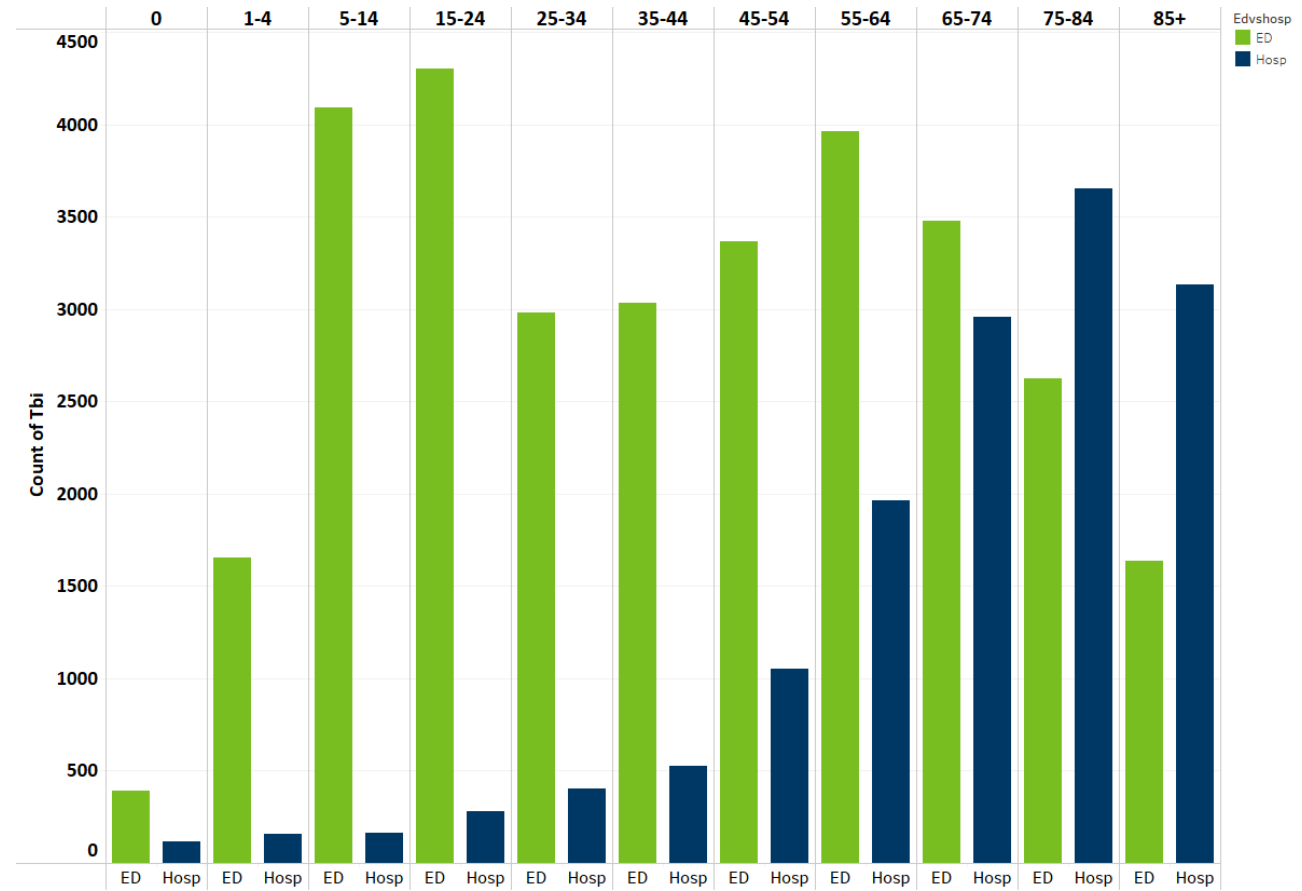


TBI Visit Outcomes

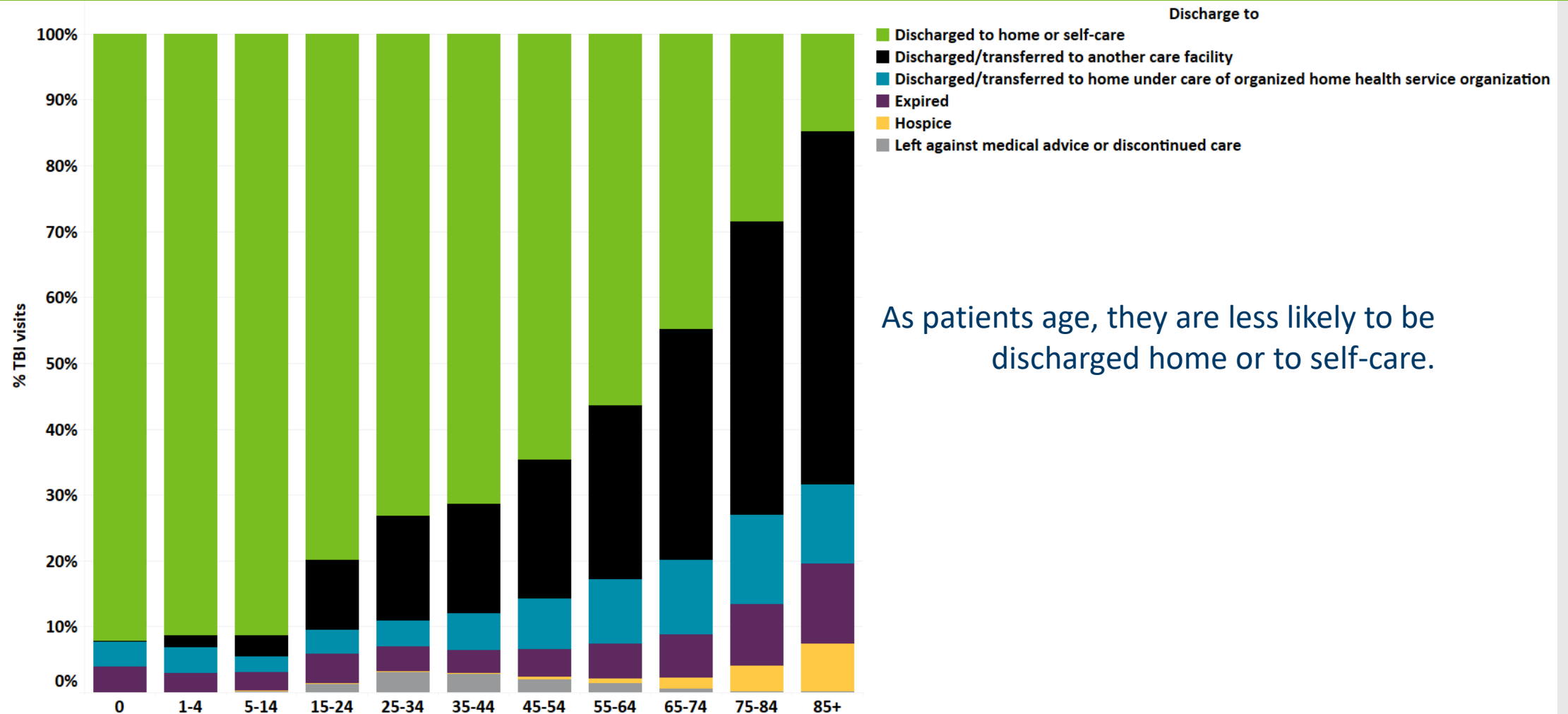
Outcomes

As Minnesotans age, they are more likely to be hospitalized for their TBIs caused by falls.

All TBI cases, MHA Data 2016-2022



Outcomes



As patients age, they are less likely to be discharged home or to self-care.

Efforts connect TBI patients with resources

Resource Facilitation for TBIs

State Mandated

MNTrauma Data

Letters

Text

Syndromic Surveillance

1. Minnesota Facts on Traumatic Brain Injury 2016 – 2021, MDH
2. Minnesota Hospital Association, www.mnhospitals.org

Thank You!

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