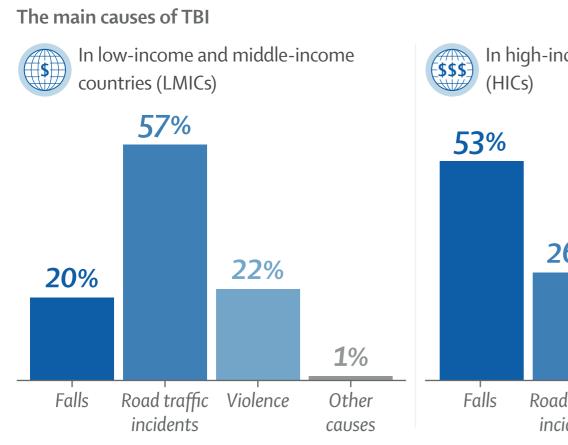
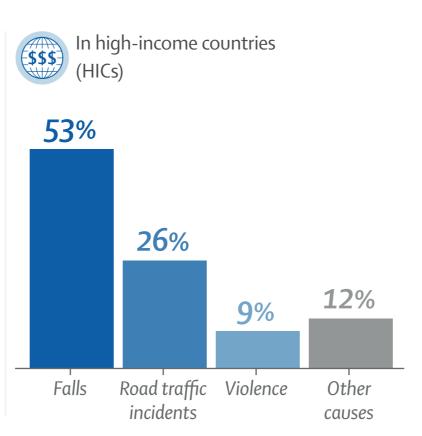
Traumatic brain injury: improving prevention, access to care, and clinical research

Traumatic brain injury (TBI) is a leading cause of injury-related death and disability worldwide







Global impact

346	Worldwide incidence rate per 100 000 people, 2019
50-60m	Number of people who have a TBI worldwide each year
8-1m	Years lived with a disability worldwide due to TBI
90%	Proportion of TBIs that

Key targets for TBI prevention



Road traffic safety
In LMICs, most injuries
are caused by road
traffic incidents



Older people
30-40% of hospital
presentations in HICs are
patients aged ≥65 years



Children and adolescents

Deaths in under-18s

account for 200 000

years of life lost



Violence and crime
The third most
common cause of TBI
globally is violence



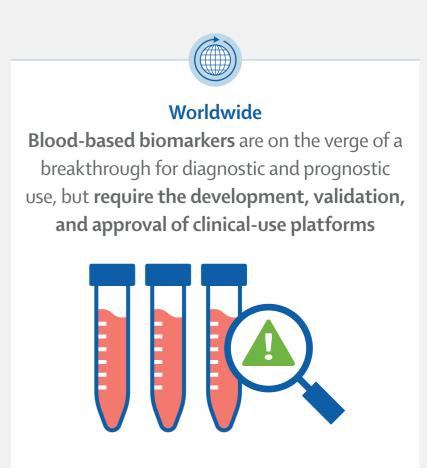
are categorised as mild

Sport
Linked with risk for TBI;
individual sports result
in most hospitalisations

Improved access to care will require close collaboration between policy makers and clinicians







Key areas for future research



Understanding mild TBI

- **>>> Half of hospitalised patients** with mild TBI do not fully recover
- **>>> Better evidence** is needed to inform treatment
- >>> Expand knowledge on the natural history and outcomes of sports-related concussion



Better classification

- >>> Current schemes are insensitive
- >>> Improvement is needed for both initial severity and outcome
- >>> Better identification of meaningful subgroups can lead to improved and individualised treatments



Ensuring future research

- >>> Strengthen international collaborations
- >>> Promote the use of common data elements in research to maximise use for analysis
- Streamline regulatory frameworks

Other areas of research

- >>> Expanding available evidence to inform treatments for older patients, especially those with comorbidities
- >>> Increasing understanding of the relationship between TBI and late-onset neurodegeneration
- >>> Increasing understanding of why outcomes for women are poorer than outcomes for men

Read the full Lancet Neurology Commission for more details

Maas AIR, Menon DK, Manley GT, et al. Traumatic brain injury: progress and challenges in prevention, clinical care, and research. Lancet Neurology 2022. Published online September 29. https://doi.org/10.1016/ S1474-4422(22)00309-X