



## **Benefits of The** Infrascanner



## What is the Infrascanner?

A pioneering handheld device utilizing Near-Infrared (NIR) technology to rapidly detect brain hematomas in the field. The device provides swift, non-invasive diagnostics to enhance triage and treatment.



The Infrascanner identifies head trauma patients at high risk of intracranial bleeding



allows for timely medical interventions that can save lives and prevent long-term. disabilities.

Who uses the Infrascanner?













Defence & Homeland Security

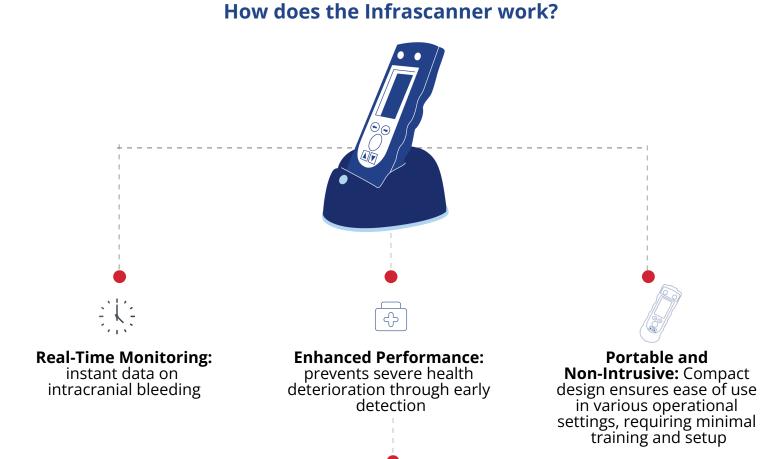


Seniors

Children Sports

Remote

communities



integrating data with Al-enabled predictive analytics to offer comprehensive health insights and personalized interventions.

**Integration with Advanced Technologies:** The device can be part of a larger health monitoring system,





hospitalized for traumatic brain injury (TBI) Between 2006/07 and 2017/18 there were: hospitalizations for head

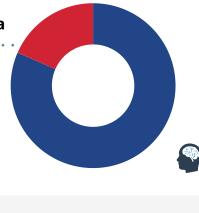
people a year are

53,200 (22.6%) were

Between 2002 and 2016 there were approx 235,471 injury deaths and of

associated with a TBIs

those,

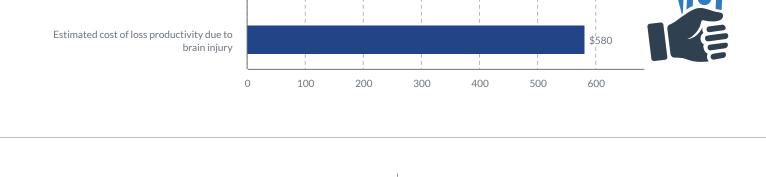




Cost of care following a traumatic brain injury

399,376 injuries in Canada

injury is over \$650 million CDN annually. In terms of lost productivity, the estimated cost of brain injury is \$580 million CDN annually. That means the total cost associated with traumatic brain injuries is estimated to be over a billion dollars each year?



\$1.159Billion dollars CDN Annually.

The Economic Impact of this **lost** 

productivity to Canada is over \$1.7Billion dollars CDN Annually,

with a loss to GDP of over



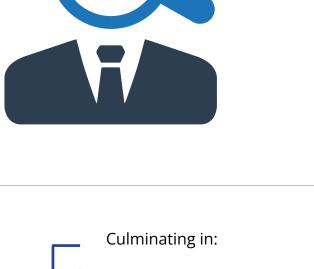
people experience a

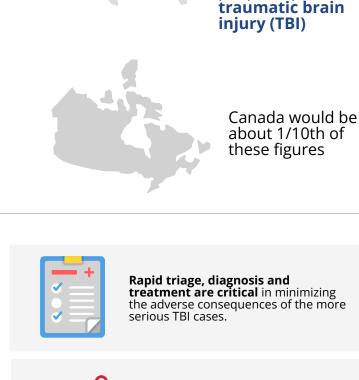
(Full Time Equivalent jobs) per year<sup>3</sup>.

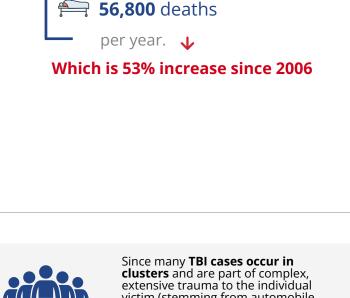
The estimated impact to

lost jobs due to

productivity loss is:







**2.53 million** hospital visits

288,000 hospitalizations and



Infrascanner would have led to avoid ten CT scan, reducing the CT scan rate by 58.8 %.

traumatic event is critical.

For patients with **moderate-to-severe** 

**TBI in particular**, diagnosis within the first hour **(the "golden" hour) of the** 



InfraScan

victim (stemming from automobile

the challenges presented to on-site medical personnel are significant.

The South Eastern Tuscany region

than half.

in Canada.

Emergency Medical Services reported

that through using the Infrascanner technology, Patient remote evacuation was decreased by more

accidents, war-zone explosions, etc.),



Causes of TBI in Canada 1

INFANTS

HOSPITALIZATION

3

Cost of a CT scan in Canada is approximately \$500 each with

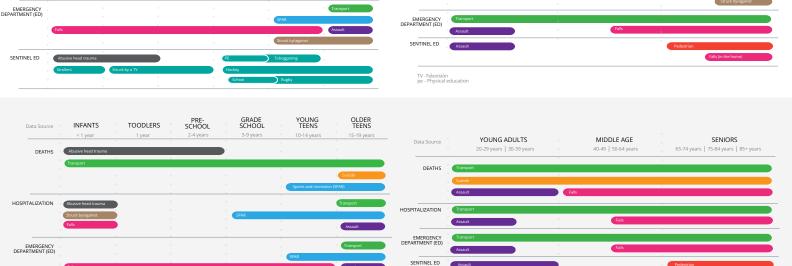
scans done per year.

GRADE SCHOOL OLDER TEENS PRE-SCHOOL



MIDDLE AGE SENIORS

Reducing those scans would save nearly



TV -Televisión pe - Physical educati

https://www.canada.ca/en/public-health/services/injury-prevention/canadian-hospitals-injury-reporting-prevention-program/injury-reports/2020-spotlight-traumatic-brain-injuries-life-course.html 1 https://www.lexology.com/library/detail.aspx?g=df627449-7653-470b-a275-4bd426a81134#:~:text=Based%20on%20the%20current%20estimates,a%20billion%20dollars%20each%20year 2

OMX Economic Impact calculator based on 2020 Federal Input/Output methodology assuming \$1B/year productivity loss and Miscellaneous ambulatory and health care costs