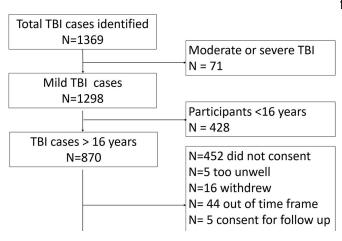


Gender differences found in long-term impact of mild concussions

30 May 2022, by Bob Yirka



Participant flow through the study. Credit: *PLOS ONE* (2022). DOI: 10.1371/journal.pone.0269101

A team of researchers from the University of Waikato, Auckland University of Technology and the University of Auckland, all in New Zealand, has found that women tend to experience more long-term negative impacts from mild concussions than men. In their paper published on the open-access site *PLOS ONE*, the researchers describe their study of people across New Zealand who had experienced one or more concussions and the symptoms they were experiencing eight years later.

As the team notes, a lot of research has been done on moderate and severe traumatic brain injury (TBI) but little has been done to learn about the health implications of those who experience mild TBI. Some research has suggested that people who experience a mild TBI can have lingering symptoms and that mild concussions can lead to ailments such as heightened anxiety, PTSD or difficulties in carrying out job responsibilities.

To learn more about the fate those who experience mild TBI events, the researchers obtained data

from the BIONIC study for participants during the years 2010 and 2011. In analyzing the data, they found 1,298 people who had experienced a mild TBI, of which just 346 had completed a survey regarding their symptoms and 151 of those who had completed a follow-up survey eight years later.

In looking at the data, the researchers found that approximately one third of those who had completed the second survey reported experiencing negative associated symptoms eight years later. They also found something unexpected; women seemed to fare worse than men. Women with mild TBI events were twice as likely to experience PTSD or other health problems that they believed were related to their concussion, than were men. They also found that women who had experienced more than one TBI event were more adversely impacted than were men who had multiple events or women who had experienced only one event.

The researchers conclude by suggesting that injury management for people with mild TBI events needs to be improved, both in the short and long term. They also suggest that people who experience such events should also be treated for mental health problems that may arise due to their injury.

More information: Nicola Jayne Starkey et al, Sex differences in outcomes from mild traumatic brain injury eight years post-injury, *PLOS ONE* (2022). DOI: 10.1371/journal.pone.0269101

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