

Validating a measure of eye movements after concussion

ACTRN12624001291572

Status	RECRUITING
Sponsor	Auckland University of Technology
Enrollment	30 participants

Plain Language Summary

After a concussion (also called mild traumatic brain injury, or mTBI), many people experience ongoing symptoms including difficulties with balance, dizziness, and eye movement problems. Assessing how the eyes move and focus is one important way to measure recovery, but existing clinical tools do not always have strong scientific validation. This study is testing the accuracy and reliability of a clinical eye movement test called 'Hart Strings,' comparing it to a high-tech eye-tracking device.

Participants complete the Hart Strings test twice while wearing specialised glasses that precisely record eye movements. Researchers will check whether the results of the simple clinical test match the detailed eye-tracking data — and whether the test gives consistent results when performed twice in the same session.

You may be eligible if you are aged 18 to 40 and either have ongoing symptoms from a concussion in the past six months, or are a healthy person with no history of concussion in the past year. People with balance conditions like BPPV, unmanaged vision problems, or musculoskeletal issues that would affect standing and performing the test are not eligible.

Key Eligibility Criteria

Inclusion (5)

- Healthy participants
- i: 18-40 years old.
- mTBI participants
- i: 18-40 years old.
- ii: have ongoing symptoms from a diagnosis of mTBI (mild traumatic brain injury) within the last six months.

Exclusion (10)

- Healthy group:
- i: a self-reported history of mTBI in the previous 12 months or complaining of residual symptoms from a previous mTBI at any point.
- ii: diagnosed peripheral vestibular conditions such as BPPV, and/or oculomotor or visual problems that are not mitigated with wearing corrective lenses.
- iii: self-reported acute illness; or a positive response to any of the COVID-19 screening questions indicating risk of potential infection.
- iiiii: musculoskeletal issues or medical conditions that would limit the ability to safely and consistently perform the outcome measure (e.g. neck injuries, an ankle sprain limited standing).

... and 5 more (see full listing online)

Locations (1 total)

Auckland, New Zealand

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12624001291572>

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