



Assess. Detect. Empower.

BrainFx 360 Assessment is a web and tablet based assessment of Neurofunction™. It has three parts:

1. **SELF REPORT** Clients provide their report of their medical history, symptoms (physical, mood, behavioural, social), daily activities, and quality of life via their own secure online profile.
2. **COMPANION REPORT** Clients invite up to 3 people to provide their perspective through an online questionnaire.
3. **PERFORMANCE ASSESSMENT** Clients attend an assessment with a health professional, who has been trained to administer BrainFx 360, for 1-1.5 hrs. They complete 62 multi-sensory, real-life and game-like activities on a tablet that measure performance on 30 cognitive skills. Because more complex cognitive skills are measured, it is designed to discern subtle dysfunction.

The comprehensive report is then **immediately available** to be shared and interpreted by the health care team. When a baseline assessment has been completed, reports can be compared to understand the degree of change, providing a **useful functional and clinical outcome measure**.

COMING IN SPRING 2016:

BrainFx Screen – a shortened 15 minute version of BrainFx 360 to assist in determining whether more comprehensive assessment is needed.

Why? To assist health care teams with the information needed for early detection, diagnosis & treatment of neurological dysfunction, and to assist with clinical decision-making for return to activity. Existing tests are primarily designed for moderate to severe impairments or have poor ecological validity that can miss treatable dysfunction that can profoundly impact quality of life.

BrainFx 360™

Designed for ...

For People (age 10 & Up) with:
Concussion/ Brain Injury
Stroke
Mental Illness
Dementia
Other neurological/ brain disorders
Other conditions with cognitive effects

For People at risk:
Sport
Military
High-risk jobs
Based on medical history

Did you know?

1 in 3 people sustain a brain disorder over the course of their lifetime.

Brain injury and disorders are responsible for more death and disability than cardiovascular disease and cancer combined.

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Research:

COMPLETED:

Peer Review, 2012: >45 health professionals reviewed assessment content in detail for sensitivity to mild to moderate dysfunction.

York University, 2013: Sergio, L., Gage, W. Brain Function: Comparing healthy individuals to individuals who have a history of concussion or brain injury using a new tablet-based assessment.
Results Highlights: N=22; half control; half with diagnosis. Assessment able to predict whether healthy or with dysfunction every time. >15 assessment activities statistically significant between groups.

Middle Tennessee State University, 2015: Searles, C. & Ragan, B. Reliability of the BrainFx 360 Neurofunctional Assessment Tool. *Research Highlights:* Overall reliability – 85% - acceptable for clinical use and significantly higher than other common computerized concussion tools compared to in this study.

Western University, 2015: Holmes, J. Validation of BrainFx 360. *Highlights to date:* Psychometric properties of the balance activities in BrainFx 360 are comparable to that of the gold standard force plate. Researchers are currently analyzing >300 data sets.

IN PROCESS:

Canadian Mental Health Association- WWD Site: HTX REACH Project: Promoting Mental Health and Participation in Life Activities Through Neurofunction. Evaluation by McMaster University.

CIHR eHIPP Grant: *Cognitive behaviour therapy for anxious and depressed youth: Improving outcomes through mobile technology.* Technology partner: BrainFx. Team includes: CAMH, Hospital for Sick Children, Markham Stouffville Hospital, Sunnybrook Hospital, Ontario Shores for Mental Health Sciences, UOIT, University of Toronto, University of Manitoba, University of Alberta, University of Bristol, Bell Canada Chair for Mood & Anxiety Disorders, Child & Youth Mental Health Collaborative, Mood Disorders Association & Youth Speaks & Central LHIN.

Rush Medical Center, Chicago: Using Technology to Characterize the Consequences of Atrial Fibrillation in Female Patients from the Rush Heart Center for Women (RHCW). BrainFx 360 is the assessment tool in study.

Hospital Demonstration Project: To evaluate the clinical utility and economic feasibility of BrainFx 360 in acute care, rehab and out-patient settings. Sites to be announced soon.

Fuelling Future Research:

Every client can help accelerate neuroscience. Assessment results from BrainFx 360 with consent and all personal and health identifying information removed are donated to our research and normative database. We are excited to collaborate with the research community and learn from our Living Brain Bank™!

BrainFx 360 Assessment is intended to provide information about neurofunction only. It does not diagnose any health condition and all results must be interpreted by health professionals within their scope of practice.