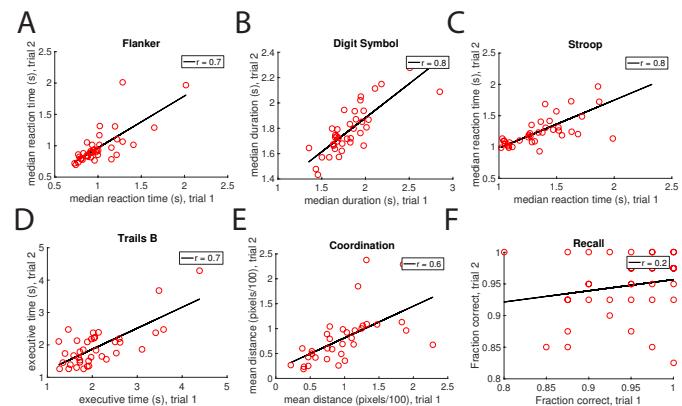


Diagnosis of concussions has increased at the alarming rate of 500% during 2010–2014, and continues to gain national attention¹. If not handled properly, concussions can lead to permanent brain damage. BrainCheck puts over 20 years of research conducted by Dr. David Eagleman at Baylor College of Medicine into the hands of coaches, athletes, and parents. By turning gold-standard neurocognitive tests into interactive, mobile assessments, we provide easy-to-understand data about your brain health—from anywhere you are.

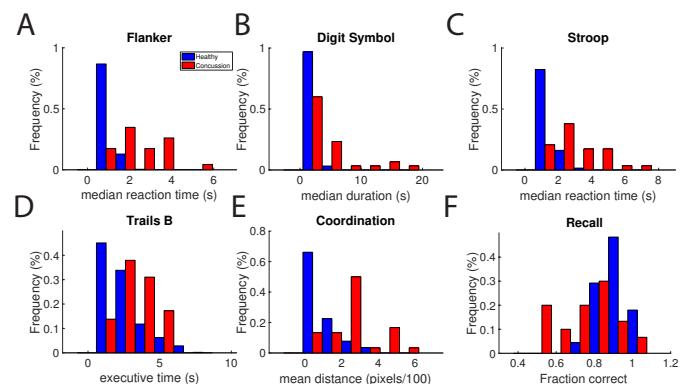
BrainCheck tests showed high test-retest reliability.

When 30 healthy individuals took the BrainCheck tests once a week for three weeks, test scores were consistent over time, showing high test-retest reliability (correlation coefficient 0.8-0.9 on most tests). This means we can have confidence in a user's baseline and that there is little practice or "learning" effect.



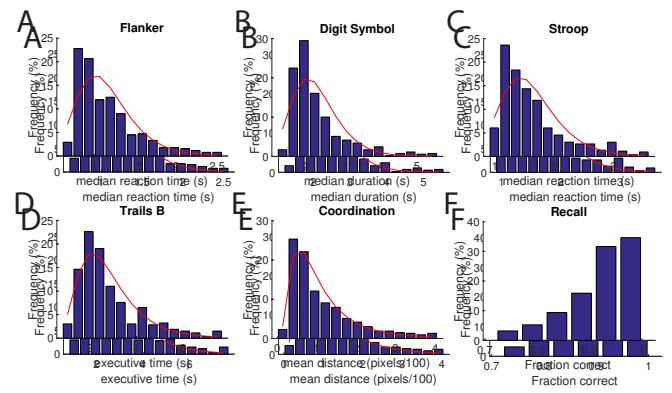
BrainCheck distinguished concussed from non-concussed patients.

In the emergency room of Ben Taub Hospital, we compared BrainCheck results taken from 30 concussed patients and 30 orthopedic controls (i.e. non-brain injured patients). Our tests sensitively (83%) and specifically (87%) distinguished patients with concussion from those without.



BrainCheck is based on a robust data set of individuals from ages 10 to 85.

Over 3,000 healthy individuals have taken BrainCheck tests. Our sample includes males and females from middle schools, high schools, and colleges, as well as older individuals. A robust normative database is important to assess meaningful changes in test scores.



1PR Newswire (2016) Five Hundred Percent Increase in Youth Concussion Diagnoses since 2010 [Press Release] Retrieved from <http://www.prnewswire.com/news-releases/five-hundred-percent-increase-in-youth-concussion-diagnoses-since-2010-300296140.html>



THE SCIENCE

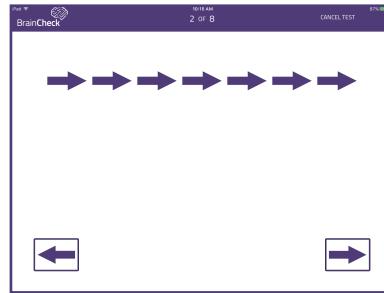
PUTTING NEUROSCIENCE IN YOUR HANDS

Neurocognitive tests use small tasks to directly measure cognitive functions. These tests are crafted to measure specific aspects of brain function, such as reaction time, attention, visual processing, or memory. Using these quantitative measurements, researchers and clinicians gain powerful insight into what's happening in the brain.

BrainCheck tests use objective, standardized methods to get a snapshot of brain health. Scores on these tests can be used to compare a person's brain functioning to that of the rest of the population, to their own previous results, or track recovery over time.

FLANKER TASK

Choose the direction of the central arrow while ignoring distractors to measure executive function.



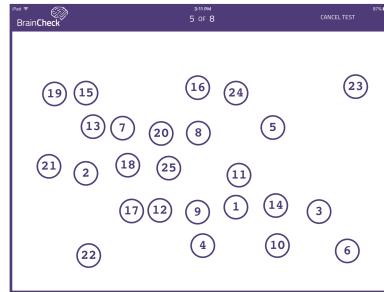
STROOP TASK

Test your attention capacity when presented with conflicting information.



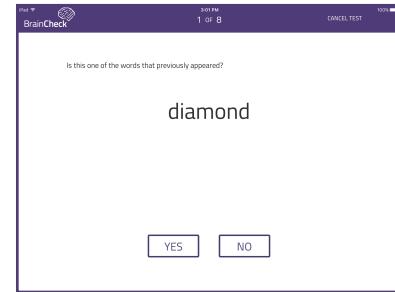
TRAIL MAKING TASK

Select dots in a sequence to assess visual attention and cognitive processing.



MEMORY TASK

Recall words in a sequence to measure memory.



DIGIT SYMBOL SUBSTITUTION

Continuously match symbols to their corresponding digit, as a measure of general cognitive performance.



IMMEDIATE RESULTS

Instant access to test results with ability to compare baseline to post incident.



INCREASING AWARENESS
PROMOTING SAFETY

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