

## ENHANCING CONCUSSION MANAGEMENT

NeuroTracker Clinician is a 3D visual training system that provides a uniquely valuable tool to aid professionals in the assessment and treatment of concussion and brain trauma. When used with the Shift Concussion Management protocol, NeuroTracker can enable clinicians to precisely align the intervention to the needs of the patient.

NeuroTracker elicits high-level cognitive abilities that may have been impacted by trauma, including:

- executive function
- working memory
- attention
- visual information processing

These abilities are known to be central in cognitive rehabilitation, particularly in concussion and TBI.



## HOW DOES IT WORK?

Training involves putting on 3D glasses and tracking multiple objects as they move around a screen. Clinicians can precisely control the difficulty of each NeuroTracker session to match the abilities of each patient.

Although simple to perform, its adaptive algorithms ensure that each training session is optimally challenging for any individual, no matter their level of cognitive function. As a result, training is both accessible and highly effective.

## OVERVIEW ON SCIENCE

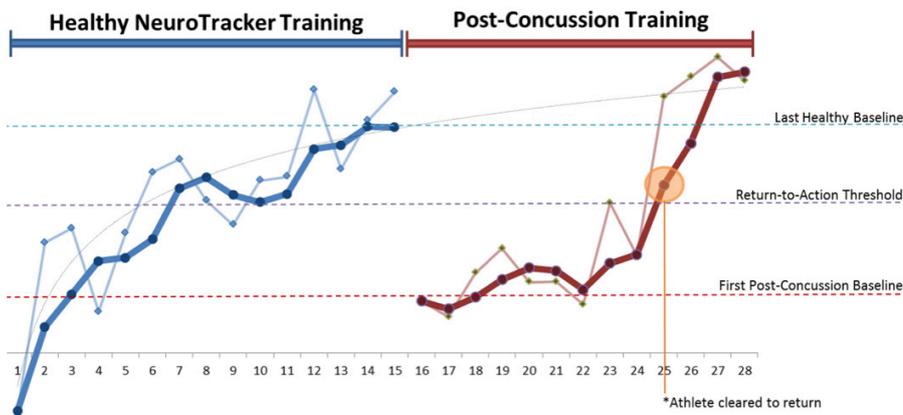
This technology emerged out of 20+ years of neuroscience research. Research-based evidence of the benefits has been shown through robust gains on standardized neuropsychological measures of intelligence, as well as neurophysiological improvements in brain function via qEEG brain scans – changes associated with increased neuroplasticity. Research also includes sports science evidence of far transfer to competitive sports performance.

## NEUROTRACKER FEATURES

- ✓ Quick 6 minute sessions
- ✓ Adaptable to individual level of recovery
- ✓ Relevant to high-level cognitive functions
- ✓ Provides a practical baseline
- ✓ Produces objective session scores
- ✓ Applies to performance training and assessment beyond recovery

# TRAINING PROGRESSION

PROGRESSION OF NEUROTRACKER TRAINING



## HOW DOES IT APPLY TO THE RECOVERY PROCESS?

NeuroTracker is a versatile tool that applies to the recovery process in three distinct ways:

### 1. Injury assessment

NeuroTracker can improve high-level cognitive functions that are typically impacted when an individual sustains head trauma. Following an injury, NeuroTracker scores can be used as an objective indicator to assess return-to-play status.

### 2. Accelerating injury recovery

During the recovery process, NeuroTracker session options can be personalized to provide controlled neurostimulation in short 6 minute sessions.

### 3. Return-to-play indicator

As an individual progresses through their recovery, NeuroTracker scores can be used as a unique indicator of return-to-play readiness.

### Beyond Recovery

Once the patient is recovered, NeuroTracker can also be used for performance assessment and enhancement. By combining NeuroTracker training with customized dual-tasks, there is no limit to the ways it can be adapted to each user!



## KEY SUPPORT

- There are over 25 published research papers and 40 on-going studies around the globe involving NeuroTracker, which includes leading concussion experts and institutions
- NeuroTracker is being used by thousands of athletes, students, soldiers and patients in more than 600 installations worldwide. Notable clients include Manchester United, Atlanta Falcons, Red Bull Racing, US Soccer, French Federation of Rugby, US Special Forces, Canadian Special Forces, and many more!

