

HEADFIRST SOLUTIONS

POWERED BY NEUROMUSCULAR TECHNOLOGY



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headfirstsol.com

WHAT IS HEADFIRST

SOLUTIONS

- ◆ A breakthrough non-intrusive medical system for the MEASUREMENT OF CONCUSSION (mTBI – mild and moderate traumatic brain injury), cognitive and balance disorders
- ◆ The product has also been used with NCAA football teams since 2006 and is currently being used in a number of studies at a number of US Colleges, and leaders in the concussion field
- ◆ This cutting edge technology has been developed for balance and concussion assessment. We aim to create a new effective global protocol for the treatment of mTBI and risk of fall management. This technology was initially developed for the US military, and field tested in Iraq and Afghanistan over 10 years
- ◆ A full test takes only 5 minutes and consists of 3 non invasive medical assessments, including a 1 minute balance assessment on the most advanced force plate technology available in the world today. Two cognition assessments - CHOICE are designed to assess decision-making, planning and strategy, fine motor control and short term memory - MAZE for fine motor control, eye tracking and planning and strategy
- ◆ The software records data in real time and compares one session to the next, allowing a baseline for each patient to be created. This baseline can be used to make objective assessment of any subsequent trauma or compare the player/patient with a peer group



IS  **Balance** **choice**  **MAZE**

WHAT IS HEADFIRST

SOLUTIONS

- ◆ IsoBalance also includes Rehabilitation tools - SPELL and PATHWAY
- ◆ SPELL and PATHWAY are a series of rehabilitation challenges using the patient's postural control. The force plate receives input from the subject which is interpreted by software algorithms to display biofeedback for the patient to engage with on-screen
- ◆ SPELL and PATHWAY are ideally used to assist with patient rehabilitation following an accident or trauma which has resulted in a physical injury which requires assessment for return to play or work

IS  **Balance**  **SPELL**

PATHWAY



IsoGATE

HEADFIRST

MARKET ADVANTAGE

- ◆ HeadFirst Solutions provides accurate, real time results in a non-intrusive and hygienic manner
- ◆ HeadFirst Solutions' fully encrypted database (IsoGATE) keeps a full history for every test and has a rehabilitation module to help patients in recovery. IsoGate is a web-based secure database with multiple encryption levels to satisfy HIPAA and DoD requirements
- ◆ The system is totally portable and rugged enough to work in a "war field" environment
- ◆ The comprehensive test takes 5 minutes – allowing 70 to 100 tests to be performed in a day of operation
- ◆ The accuracy of the results allows objective diagnosis to be made at the time of testing by a medically qualified person
- ◆ The system is efficient and easy to use can be operated by non-medical personnel
- ◆ Statistical data collected from testing can be compared on an individual basis (baseline technology) or against data from other patients

MARKETS

Head First Solutions can provide proactive concussion and balance management in a number of markets:



WHO IS

ISOTECHNOLOGY

- ◆ HEAD FIRST SOLUTIONS has been pioneered by Dr Terence Vardy, an international expert in medical devices, and his qualified team, over the past 15 years
- ◆ Dr Vardy, whose educational credentials and qualifications are extensive, has:
 - Practised on Harley Street, London, United Kingdom from 1988 to 1991
 - Lectured at NASA – at the Ames Research Center, San Jose California and Johnson Space Center, Houston, between 1994 and 1997 on Exercise Countermeasures for -1G
 - Consulted to US Government Officials on medical technology development
 - Been a Prime Contractor to the USA Government Department Of Defense from 1999
 - Been extensively involved in various research projects in the USA, UK, Australia and Russia and has a number of articles published across a wide range of related medical topics
- ◆ IsoTechnology has assembled a team of technical and industry experts to assist in the development of this product. These research personnel and associates, located in many countries, are actively working with the product to ensure the company continues to be the leading edge of technology development in this sector



Dr. Terence Vardy
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IsoTechnology 

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