



NeuroCom®  
International, Inc.



## getting injured athletes back on track

NASA-BASED TECHNOLOGY FOR ASSESSING BALANCE AND REHABBING SPORTS INJURIES

### When is it safe for an athlete to return to play?

Pressure on injured athletes and the sports medicine practitioners who work with them can be significant, particularly when a head injury is involved. How can the injured player get back to performance condition quickly and safely? And what are the balance performance parameters for allowing a concussed player – or one with a new knee or hip – to return to his or her sport? Studies have shown that patients consistently under-report or hide their symptoms in order to get back to play. Making good, safe calls on player fitness has been difficult and subjective – until now.

### From NASA to the NCAA: objective, leading-edge balance assessment.

NeuroCom® International, Inc., an international leader in balance and mobility since 1984, originally worked with NASA to test balance in astronauts. Today that same technology provides state-of-the-art objective data related to balance limitations and motor control (both voluntary and involuntary) for sports medicine professionals worldwide. The technology provides objective information about a player's functional limitations so that providers don't have to rely solely on subjective descriptions or observational tests. The result: reduced risk of re-injury, improved athlete safety and a faster, more successful rehabilitation.

### Technology from the leader.

NeuroCom is the industry leader in developing cutting-edge technologies that accurately identify the underlying impairments that can lead to balance problems. From affordable, portable solutions such as VSR™ to the gold-standard NeuroCom SMART EquiTest®, the company's balance assessment solutions are used in more than 90 percent of the top hospitals in the United States, as well as by leading health care and research institutions worldwide.

## play a smarter game

CONTACT US REGARDING BALANCE ASSESSMENT AND REHABILITATION OF YOUR ATHLETES

**800.767.6744**



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# better data. better decisions.

COUNT ON OBJECTIVE, EVIDENCE-BASED INFORMATION FROM  
NEUROCOM'S FAMILY OF BALANCE MANAGEMENT SOLUTIONS TO:



NeuroCom offers a complete line of static and dynamic systems that deliver comprehensive, objective data on balance for improved decision-making.

- **Make safer return-to-play decisions:** Is the star quarterback ready to start the game this weekend? When can your snowboard patient get back on his board and ride? NeuroCom data on postural control and gaze stabilization adds invaluable insight into the complex nature of balance and brain functionality.
  - **Improve concussion care:** Concussions are a growing concern – especially in younger athletes. NeuroCom systems enable you to accurately assess impairment and measure improvement without relying on the testimony of athletes themselves who are often eager to return to play.
  - **Reduce re-injury risk:** Recent studies have shown that recovery from concussion takes several days longer than traditional “how many fingers?” tests of cognitive function have predicted.
  - **Create baseline assessments:** Establish a reliable baseline of patients’ intrinsic sensory, motor control and balance functionality before injuries occur to create an invaluable database for measuring injury impact.
  - **Speed rehabilitation:** Dynamic visual biofeedback on NeuroCom’s SMART EquiTest systems, as well as step-up-and-over, rhythmic weight shifting, and walk across utilizing the long force plate of the Balance Master® solutions enable joint replacement patients to monitor and improve balance performance in real time.
  - **Document gains or changes objectively:** Use NeuroCom data to demonstrate program effectiveness and reinforce positive gains for patient motivation and morale.
- “The information that is generated from the NeuroCom system is critical for making safe return to play decisions. It is the ability to have objective data regarding postural control and gaze stabilization that completes this complex puzzle called concussion.”
- Lori T. Swaldi, PT, DPT, VCS, Owner of STAR Inc., Physical Fitness and Therapy in Marion Heights, Pennsylvania, 2010

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