WHAT'S BEING DONE TO HELP

At Cleveland Clinic's Concussion Center, our innovations include:

WINNING THE FIGHT

When dealing with such a formidable opponent, only a comprehensive approach will do. The game plan in the fight against concussion includes:

CONCUSSION CENTER VITAL STATS:

- 300,000 SPORTS-RELATED CONCUSSIONS ANNUALLY
- 10% ATHLETES SURVIVE CONCUSSIONS ANNUALLY
- 10,000 BASELINE ASSESSMENTS PERFORMED ANNUALLY
- 1,200+ PATIENTS EVALUATED FOR CONCUSSIONS
- 9 ACTIVE CONCUSSION-RELATED RESEARCH PROJECTS
- 2 DEPARTMENT OF DEFENSE-FUNDED RESEARCH PROJECTS

The Cleveland Clinic Concussion Center (C3) can now take painless brain scans. The scans are a patient’s memory, reaction time and vision as well as balance through the use of a belt around the waist. This is done through a series of test modules, allowing physicians and athletic trainers to compare these data with baseline data. The results can help physicians and athletic trainers determine the player’s readiness to return to the classroom and the field of play.

The Cleveland Clinic's Lou Ruvo Center for Brain Health in Las Vegas and Cleveland are collaborating on a landmark study with professional fighters to determine if MRIs of the brain (and other tests) can detect subtle changes in brain health associated with impaired thinking and functioning. These data may help prevent permanent brain injury in fighters and others exposed to repetitive impact — and may be used to develop better protective equipment.

Utilizing one of the few ultra-high field magnetic resonance imaging (MRI) units in existence, a team of Cleveland Clinic researchers are studying methods to improve the detection of subtle brain abnormalities which occur in patients who have suffered a concussion. These scans are so sensitive that brain function changes can be seen up to a week before a player shows signs of a concussion.

Researcher at Cleveland Clinic’s Lou Ruvo Center for Brain Health in Las Vegas and Cleveland are taking painless brain scans. The scans are a patient’s memory, reaction time and vision as well as balance through the use of a belt around the waist. This is done through a series of test modules, allowing physicians and athletic trainers to compare these data with baseline data. The results can help physicians and athletic trainers determine the player’s readiness to return to the classroom and the field of play.

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Our Spine Research Laboratory has developed a wireless, MEMS (Micro-Electro-Mechanical System) intelligent mouthguard that measures impact dynamics. With Bluetooth technology, data from the mouthguard is transmitted to a computer on the sidelines. This helps assess impact data, the health of the mouth guard as the player undergoes rehabilitation, and athletic trainers and physicians can alert when to call a timeout.

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- **NEW TOOLS IN THE FIGHT AGAINST CONCUSSION**

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  - 9 ACTIVE CONCUSSION-RELATED RESEARCH PROJECTS
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- **10,000 BASELINE ASSESSMENTS PERFORMED ANNUALLY**

- **1,200+ PATIENTS EVALUATED FOR CONCUSSIONS**

- **9 ACTIVE CONCUSSION-RELATED RESEARCH PROJECTS**

- **2 DEPARTMENT OF DEFENSE-FUNDED RESEARCH PROJECTS**

- **26 physicians, 61 certified athletic trainers, 80 physical therapists, including 13 with special training in treating dizziness and balance dysfunction, care for athletes at 40+ high schools and 4 colleges in Northeast Ohio.**

Together, we’ll help minimize the long-term effects of concussions when they do occur and improve tomorrow’s care.

"Concussion from sports injuries has truly become a public health crisis affecting athletes of all ages, coaches, parents and healthcare professionals.

1.6 TO 3.8 MILLION CONCUSSIONS OCCUR EACH YEAR

19,167 CONCUSSIONS FROM 50,000 CONCUSSIONS FROM

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