

Contraindications:

The following conditions are not compatible with MR:

- Pacemaker, defibrillator, or other implanted electronic device
- Foreign metal in body (example: neurosurgical clips)
- Dental braces
- Weight greater than 300 pounds

Exam Information:

- The Brain exam takes about 45 minutes to complete.
- The Heart scan takes about 25 minutes to complete.
- Students can participate in either or both studies.

Office Hours/Appointments:

To make an appointment for your son/daughter, please call 626-397-5840.

Our office hours are Monday-Friday 8AM - 5PM.

Available appointment times are Monday - Saturday, 9AM - 6PM.

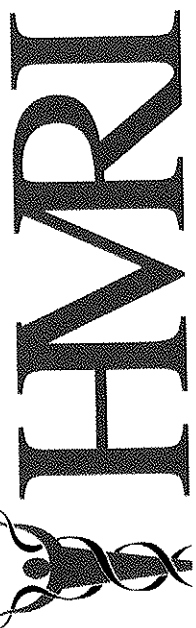
Can I go back in coach?

Evaluating sports-related concussions is one of the most complex issues faced by the medical profession. And, deciding when an athlete has fully recovered from a concussion & can safely Return-To-Play is a difficult challenge. New research supports the addition of pre-season baseline & post-injury assessment, as part of "best practice" in the management of concussion.

Pre-season baseline testing provides important, objective information that is used to track changes and progress of an athlete post concussion.

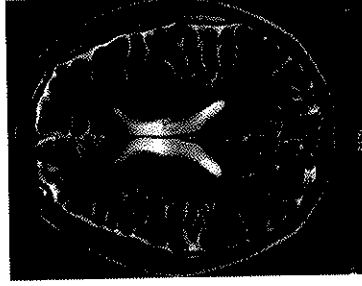
Concussion is Serious!

Ask Us About Baseline Testing Today.



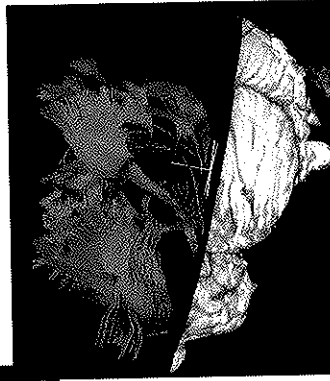
Huntington Medical Research Institutes

**MAGNETIC
RESONANCE
LABORATORY**



NON-INVASIVE

**CUTTING
EDGE
TECHNOLOGY**



**NO
RADIATION!**

HMRI

Magnetic Resonance Lab

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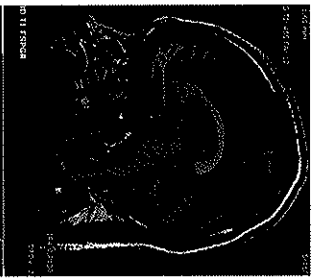
Web: www.hmri.org

UNDERSTANDING MR

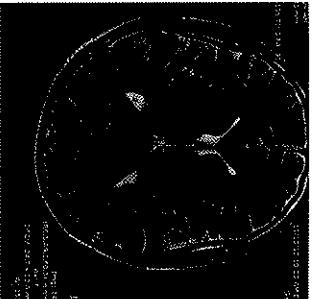
Magnetic resonance (MR) is an imaging technique used to visualize anatomy and physiology of the body. MR scanners use magnetic fields to form images of the body.

MR imaging is widely used in hospitals and out-patient centers for medical diagnosis.

MR imaging is non-invasive and does **NOT** utilize ionizing radiation.



Standard Brain MR Images



Standard Heart MR Images

The HMRI-PUSD Interventional Research Health Screening Programs

The HMRI Magnetic Resonance Laboratory is collaborating with the Pasadena Unified School District, the Pasadena Public Health Department and Young N' Healthy to conduct two interventional screening research programs. The studies focus on the brain and heart, using MR imaging as a screening tool to assess for cardiac anomalies and monitor brain injuries.

HMRI is offering these services at NO cost due to its commitment to translational research as well as its mission of "enhancing knowledge of diseases in order to improve health and save lives."

The longitudinal research studies will define "Removal from Play" guidelines for student athletes, which will help to ensure that they do not sustain repeated injuries, causing life-long consequences during their formative academic years. The services are potentially life-saving and may help offset long-term injury and behavioral problems while improving health outcomes and quality of life.

These prevention-oriented research initiatives are of particular importance to the students of PUSD, who are largely underserved with 67% of students identified as low-income, and thus likely to have minimal access to sufficient health care, including specialized procedures such as magnetic resonance imaging.

The Importance of these Programs:

Sudden Cardiac Death

This is a natural death caused by heart problems and usually occurs within one hour of the onset of acute symptoms. These cardiac diseases often go undetected because there are no symptoms and subjects are usually unaware that they have a condition which could cause sudden cardiac death.

A heart MRI scan will be able to screen for these conditions which are life-threatening to those who physically exert themselves, especially during sports.

Traumatic Brain Injury

Sports activities cause an estimated 20% of all traumatic brain injuries among young adults. Mild traumatic brain injury results from a sequence of injuries which, if left untreated, may cause long-term physical, behavioral and memory deficits.

Along with brain scans that will assess and monitor injuries, we will also conduct some neuro-psychological tests to evaluate cognitive functions.