

JANUARY 2026

Vielight News

Accelerating photobiomodulation.



TBI Research | Advanced Diffusion MRI | Brain Resilience

A [groundbreaking study](#) by the U of Utah with **26 NCAA Div 1 Football players** provides the first evidence that Vielight itPBM could provide neuroprotective effects. Published in the [Journal of Neurotrauma](#) - a top-tier, Q1 journal - the study offers a rigorous validation of a new approach to brain resilience.

In this **double-blind, sham-controlled study**, researchers used **advanced diffusion MRI** to track brain changes across a full football season. The **sham** group showed injury-related increases in **structural stress**, while the **active** group using **intranasal + transcranial PBM (itPBM)** showed **little to no stress**.

This provides **neurophysiological imaging-based evidence (the gold standard)** that brain resilience may be supported.

For decades, the conversation around American football and brain health has revolved around the risks of **Chronic Traumatic Encephalopathy (CTE)** and **Traumatic Brain Injuries**. What if itPBM is the answer? To find the answer, the US Department of Defense is investing \$4.6 million in an n=300 clinical trial conducted by the University of Utah with Vielight technology.

[Read the University of Utah's press release here.](#)

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Newsletter Highlights

TBI Research |
Advanced Diffusion
MRI | Brain Resilience

NBC Feature: "A Major
Breakthrough" in
Brain Resilience

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NBC Feature: "A Major Breakthrough" in Brain Resilience

KSL 5 TV-NBC just called it a "major breakthrough." We call it the future of brain resilience.


As Dr. Larry Carr says, "I think we've solved the problem and potentially saved football."

This isn't just about football. It's about redefining resilience for everyone - from first responders to high-performance professionals.

 The Control Group: Showed increases in tissue stress over the season.

 The Active Group: Used Vielight Neuro itPBM (intranasal-transcranial) technology and maintained a stable, resilient brain profile .

[Read the full news feature here](#)

A brain map showing various colored regions (yellow, green, blue, purple) representing different levels of activity or stress. A red starburst is in the center.

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