

SEPTEMBER 2025

# Vielight News

Accelerating photobiomodulation.



## PTSD / Cognition Improvement Study

with the Vielight Neuro Alpha  
👤 16 participants



## PTSD and Cognition Published Clinical Study

A newly [published clinical study](#) with the [Vielight Neuro Alpha](#) suggests that transcranial-intranasal photobiomodulation (itPBM) may offer meaningful support for **PTSD** and **cognition**.

Sixteen active-duty firefighters took part in an eight-week program using the Vielight Neuro Alpha device. The results were encouraging: PTSD symptoms dropped nearly 40%, cognitive scores rose significantly, and pain and mood disturbances eased. Compliance was high, and no adverse effects were reported.

Digging deeper, the study found large effect sizes across several measures: PTSD scores (PCL-5) fell from 28.9 to 17.4 ( $p=0.003$ ), fluid cognition improved from 102.0 to 108.8 ( $p=0.009$ ). Mood disturbance and reintegration readiness also showed moderate to large gains.

While more research is needed, these findings point to a promising, drug-free approach to improving mental resilience and recovery for first responders — a group that sacrifices so much for our communities.

👉 [Read the full study summary](#)

## Newsletter Highlights

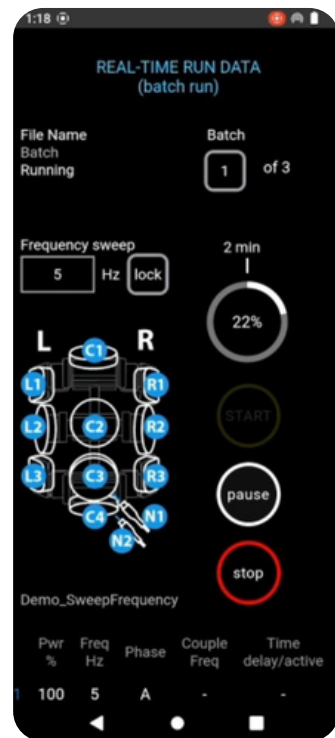
PTSD and Cognition Study | Neuro Alpha

Vie-AI team adds Dr. Marzieh Zare, an AI global leader

Diffusion Tensor Imaging (DTI) and Vielight technology

[NEWSLETTER](#)  
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 VIELIGHT





## Vie-AI Expands with the Addition of an AI Global Leader

We are thrilled to welcome [Dr. Marzieh Zare](#) to the [Vie-AI team](#)!


Our primary mission is to help humanity overcome devastating brain conditions. Dr. Zare shares this vision and her expertise at the intersection of human and machine intelligence will be invaluable as we pioneer new frontiers in neuroscience.

As the original discoverers of PBM-based neuromodulation, our innovation culminated in a landmark achievement in 2023: a [utility patent for an AI-driven system that automates and personalizes brain photobiomodulation therapy](#).


This system enhances our patented transcranial-intranasal PBM technology, which provides [unparalleled access to the top and bottom of the brain](#), through the skull and nasal pathways. Our vision is to make intelligent, advanced neurological care accessible anywhere.

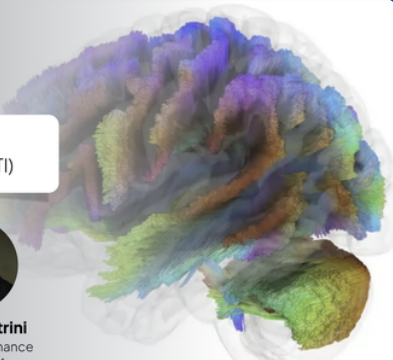
Vielight CTE Study with  
Diffusion Tensor Imaging (DTI)



**Dr. Larry Carr**  
Researcher



**Rico Petrini**  
Sports Performance  
Consultant



### Diffusion Tensor Imaging with Vielight PBM

In this talk from the University of Utah concussion research program, Dr. Larry Carr, shares pilot findings using Diffusion Tensor Imaging (DTI) and functional MRI to track brain changes.

