

# Vielight News

Accelerating photobiomodulation.



## GROUNDBREAKING TBI STUDY BY U of UTAH

A groundbreaking TBI study by the U of Utah which utilized the Vielight Neuro Gamma on 43 ex-athletes is now published!

Four assessments were conducted alongside cognitive and neuropsychological tests and a brain MRI:

- Clinical Reaction Time
- Manipulative dexterity
- Grip Strength
- Mini Balance Evaluation Systems Test (MiniBEST)

Pre- and post-treatment results indicated significant improvements in three out of four test domains:

- Reaction time improved by 19.39 ms ( $p < 0.001$ , effect size = 0.75).
- Dominant-hand grip strength increased by 2.70 kg ( $p = 0.003$ ) and nondominant hand by 3.73 kg ( $p < 0.001$ )
- Overall MiniBEST scores improved by 1.32 points ( $p < 0.001$ ), moderate effect size.

This study suggests that transcranial-intranasal PBM moderately improves grip strength, balance, and reaction time in these patients.

This groundbreaking work, led by Dr. Elisabeth Wilde, paves the way for more research in this field.

Read the published study here: [Link](#)

## Newsletter Highlights

New TBI Study  
U of Utah

PBM Lecture Video  
Dr Lew Lim

PBM is Parameter Specific

 VIELIGHT

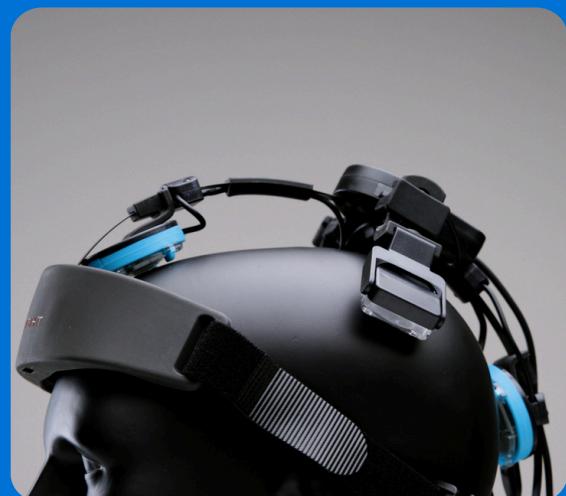


## PHOTOBIOMODULATION LECTURE | PARAMETERS

Curious about the latest research when it comes to brain photobiomodulation and how light energy parameters could be optimized?

Dr. Lew Lim, CEO and Vielight Founder gave a lecture about the importance of parameter optimization of NIR light energy to maximize brain photobiomodulation outcomes at the Applied Psychophysiology & Biofeedback conference in May 2024.

Watch the full lecture here: [Link](#)



### PBM RESULTS ARE PARAMETER SPECIFIC

Photobiomodulation is dependent on the correct wavelength (nm) and irradiance (mw/cm<sup>2</sup>).

Declared wavelengths and irradiance values can vary greatly between devices because of LED technology used, form factor and methods of measurement.

Be cautious of companies attributing research conducted with other devices as attainable to their own. Not all forms of light energy are the same.