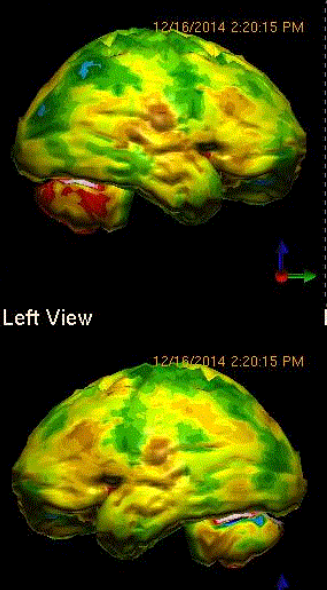


Patient 005

NEURO-LUMINANCE
BRAIN HEALTH CENTERS Denver
Illuminating pathways to a Healthy Brain 855-978-0808
 Neuro-Luminance.com

Patient 005:

18 yo male with history of TBI due to mountain biking accident in which his head hit a tree so hard that it broke his helmet. He was a straight-A student and about to enter college. After the accident, his personality changed. He was irritable and violent. His girlfriend broke up with him. When he started college, he was failing all of his classes. The accident occurred nine months prior to treatment.

<i>Before Treatment</i>		SPECT Scan	
Headache	✓		
Hyperarousal			
Sleep disturbance	✓		
Memory Problems	✓		
Cognitive Problems	✓		
Balance Problems			
Depression	✓		
Anxiety			
Suicidal Ideation			
Irritability	✓		

Patient received 20 treatments with Multi-Watt Infrared Laser over approximately 9 weeks.

After treatment, the patient reported only modest subjective improvement. However, his parents saw a dramatic improvement in mood and outlook. His grades improved to all A's in his college courses.

<i>After Treatment</i>		SPECT Scan	
Headache	✓	ND	
Hyperarousal			
Sleep disturbance	✓		
Memory Problems			
Cognitive Problems			
Balance Problems			
Depression			
Anxiety	✓		
Suicidal Ideation			
Irritability			

Additional Quantitative Measures of Treatment Response (out of 17 measures)

