

## Summary of Research with "The Magic Mirror" Solo Harp CD

The Scientific Arts Foundation, a Missouri 501 (C)3 nonprofit organization, initiated a Quantitative EEG pilot study, under the direction of William Collins, Ph.D. from Reintegrative Health Institute, measuring brainwaves of 4 women undergoing chemotherapy treatment for cancer.

Pre QEEG measurements were taken, then each woman was given a copy of the solo harp CD, "The Magic Mirror" to listen to once a day for 10 days. The women returned to have Post QEEG measurements gathered.

Results indicated that **listening to "The Magic Mirror" CD actually INCREASED neurological functioning in just 10 days.** Two of the women showed up on the TBI Index indicating their brainwave patterns were indicative of someone who had a traumatic brain injury. Although they were still on the TBI index after 10 days, their individual brainwave frequencies tended to normalize. The QEEG data was analyzed by Dr. Robert Thatcher's normative database (NeuroGuide), one of the most reputable databases available. Subject EEG was compared to normative data and only deviation from the norm was considered.

Dr. Collins states: *...what this pilot study is showing is the exact opposite of what you'd expect to see after a regiment of chemotherapy. I want to emphasize this point because it's critical - normal treatment of chemotherapy would result in a decrease in cognitive functions. We are seeing no decrease; **we're in fact seeing an increase in cognitive processing.** So again, when you're looking at Quantitative EEG, they're actually improving.*

**Red** = significant deviation from the norm

**Green** = a statistically positive change or normalization.

Subject	Delta	Theta	Beta	High Beta	Asymmetry	Coherence	TBI Index
1- Pre	elevated			elevated	Alpha-abnormal		
1- Post	normalized			reduced	Alpha-normal		
2- Pre		elevated	elevated	elevated	Alpha-abnormal		Yes
2- Post		reduced	reduced	reduced	Alpha-normal		Yes
3 - Pre	low	low				Delta-abnormal	
3 - Post	normalized	normalized				Delta-normal	
4 - Pre		elevated	elevated	elevated	Alpha-abnormal		Yes
4 - Post		reduced	reduced	reduced	Alpha-reduced		Yes

In addition, two saliva sample pilot studies were conducted which indicated a sustain impact on immune system biomarkers for up to 72 hours after listening to the CD once.

Abdul Waheed, Ph.D., Research Professor, Dept. of Biochemistry and Molecular Biology at St. Louis University School of Medicine summarizes this pilot study by stating: *These results suggested that the effect of "The Magic Mirror" listening is very effective and could be used in combination with other therapy for cancer or physiologically stressed patients to minimize the effect of their disease.*

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