

Supplementary File S8: Cognitive and Emotional Outcomes

Article title: Virtual reality-based early neurocognitive stimulation in critically ill patients: A pilot randomized clinical trial

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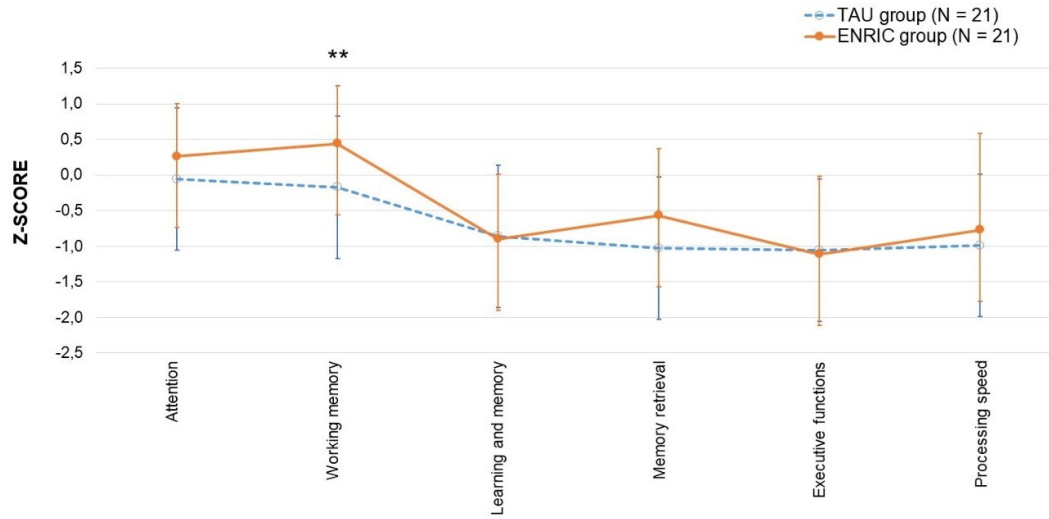
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Results

Cognitive Outcomes One Month after ICU Discharge



COGNITIVE PERFORMANCE ONE MONTH AFTER ICU DISCHARGE

Figure S3. Cognitive outcomes 1 month after ICU discharge [mean (SD)]. ** $p < 0.01$.

Cognitive and Emotional Outcomes One Year after ICU Discharge

Table S3 shows that ENRIC patients performed significantly better than TAU patients on the working memory index, but not on the other cognitive and emotional outcomes.

Table S3. Cognitive and emotional outcomes one year after ICU discharge (student's t -test).

	TAU Group ($n = 14$)	ENRIC Group ($n = 10$)	t	p	95% CI	Cohen's d
<i>Cognitive outcomes, z-score (mean, SD)</i>						
Attention	-0.04 (0.75)	0.33 (1.10)	-0.960	0.347	-1.15 to 0.42	0.190
Working memory **	0.01 (0.65)	0.81 (0.98)	-2.427	0.024	-1.49 to -0.12	0.437
Learning and memory	-1.02 (1.14)	-1.00 (1.39)	-0.037	0.971	-1.09 to 1.05	0.009
Memory retrieval	-0.92 (1.11)	-0.84 (1.33)	-0.167	0.869	-1.12 to 0.95	0.036
Executive functions	-1.22 (1.60)	-1.54 (1.38)	0.516	0.611	-0.98 to 1.62	0.129
Processing speed	-0.88 (1.35)	-0.28 (0.99)	-1.104	0.283	-1.74 to 0.54	0.274
Global neurocognition	-0.73 (0.88)	-0.47 (0.87)	-0.737	0.469	-1.02 to 0.49	0.137
<i>Emotional outcomes, raw score (mean, SD)</i>						
HADS Anxiety	3.77 (4.53)	4.40 (2.91)	-0.683	0.503	-0.40 to 0.21	0.161
HADS Depression	2.69 (2.96)	6.00 (4.97)	-0.884	0.389	-0.43 to 0.18	0.820
Davidson Trauma Scale	7.38 (9.68)	6.50 (8.75)	-0.095	0.926	-0.45 to 0.41	0.143

ICU Intensive care unit, TAU Treatment as usual, ENRIC Early neurocognitive stimulation, HADS Hospital anxiety and depression scale. ** $p < 0.01$.