

**Table 2. Study outcome**

Study	Study design	Time since injury	Intervention		Comparison		Results	Follow-up
			Type	Characteristics	Type	Characteristics		
Medd, 2000	RCT	ABI  55 days after ABI	Anger Management Treatment Programme: incl. education and cognitive therapy	n=8, <i>age ± SD: 36 (12)</i>  Female (%): 13	Waitlist	n=8, <i>age ± SD: 34 (9)</i>  Female (%): 13	Aggression (STAXI), Post-intervention Mean Difference (95% CI)  - Trait Anger: -0.75 (-6.38 to 4.88) - Anger-Expression – Out (AX-O): -0.75 (-4.66 to 3.16) - Anger-Expression – In: -3.50 (-7.40 to 0.40) - Anger Control: 1.00 (-3.04 to 5.05)	When completing treatment (mean duration just over 2 weeks, although the range was large, from 0 to 84 days).
Park, 2016	RCT, cross-over	TBI  40 days (15 to 105 days) after TBI	Listening to preferred music for 1 hour	n = 14  <i>Age ± SD: 34.6 (13.7)</i>  Female (%): 20	Listening to classical “relaxation”  Music for 1 hour	n = 14  <i>Age ± SD: 34.6 (13.7)</i>  Female (%): 20	Change in agitation based on Agitated Behavior Scale (ABS):  Independent T-test: <i>T = -2.22, df = 12, p = .046</i>  Mean difference post-intervention:  0.0 (95% CI -5.24 to 5.24)	3 days (incl. wash-out period of 1 day)
Carnevale, 2006	RCT	ABI	1) Natural Setting Behavior Management (NSBM), 12 weeks	n= 15, <i>age ± SD: 40 ± 11</i>  <i>Female (%): 25</i>	2) education only, 4 weeks + 8 weeks no intervention	n = 2) 14; 3) 17 <i>age ± SD: 2) 43 ± 15</i>	Neurobehavioral Functioning Inventory Revised (NFI-R)	3 months

		Mean 7.6 years after ABI			3) no intervention, 12 weeks	3) 30 ± 11 Female (%): 2) 30; 3) 17	No significant effect on aggression ratings were found, neither as reported by the patients themselves nor by their caregivers (data not shown)	
Hart, 2017	RCT	TBI  Median 7 months  (6 to 339 months) after TBI	Anger Self-Management Training (ASMT)  8 sessions of 90 minutes each	n = 60,  <i>age ± SD:</i> 30.4 (10.2)  Female (%): 18	Personal Readjustment and Education (PRE)  8 sessions of education, 90 minutes each	n = 30,  <i>age ± SD:</i> 36.2 (13.3)  Female (%): 20	Change in aggression (STAXI-2), MD of response-rates (%) of ≥1 SD change on scale:  - STAXI-2 Trait Anger: MD (95% CI): 20.0 (1.8, 39.8) - STAXI-2 Anger Expression-Out: MD (95% CI): 11.7 (-9.7, 32.5)  Number needed to treat (ASMT vs. PRE): 5.0  Side effects: Risk ratio (RR)  - Adverse events: RR (95% CI) 2.35 (1.08, 5.09) - Serious adverse events : RR (95% CI) : 0.60 (0.13, 2.71)	8 weeks
Smith, 1994	RCT	ABI  Mean 11 years	Cranial Electrotherapy Stimulation (CES), 45 minutes daily, 4 days a week for 3 weeks	n= 10  <i>age ± SD:</i> 30 years (not reported per treatment group)	1) Sham  45 minutes daily, 4 days a week for 3 weeks	n sham: 6  n control: 5	Profile of Mood States (POMS), subscale anger/hostility  Post-intervention Mean difference CES vs. Sham +	3 weeks

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		(6months to 32 years) after ABI		Female (%): 0	2) Placebo	age ± SD: 30 years (not reported per treatment group) Female (%): 0	placebo (95% CI): -5.68 (-12.73 to 1.38)  Side effects: incidence (n/N, %) of seizures - CES: 0/6 (0%) - Placebo: 1/5 (20%)	
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