**Table 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **rTMS features** |  |  |  |  | **Sample size** |  |  |  | **Clinical Outcome** |  |  |  |  |
| **Study** |  | **Site** | **Frequency** | **Intensity** | **Duration** | **Sessions** | **Comparison** | **Follow-up (weeks)** | **TMS** | **Comparison** | **Diagnosis** |  | **Primary** | **Secondary** | **Efficacy of TMS vs comparison** | **Female proportion** | **Mean age** | **Study location** |
| (Baruth et al., 2010) |  | DLPFC (L & R) | 1 Hz | 90% MT | 10 min | 12 (1 per week) | Waiting List | 12 | 16 | 9 | DSM-IV-TR; ADI-R; |  |   | ABC; SRS; RBS; | Not reported | 0.16 | 13.8 | Kentucky |
| (Casanova et al., 2012) |  | DLPFC (L & R) | 1 Hz | 90% MT | 10 min | 12 (1 per week) | Waiting List | 12 | 25 | 20 | DSM-IV-TR; ADI-R; |  |   | ABC; SRS; RBS; | Reduced repetitive behavior and irritability | 0.13 | 13 | Kentucky |
| (Enticott et al., 2014) |  | DMPFC (L & R) | 5 Hz | 100% MT | 15 min | 10 (1 per week day) | Sham | 2 | 15 | 13 | DSM-IV; |  | RAADS; | AQ; IRI; RMET; AMT; | Improved social relatedness | 0.18 | 32.3 | Australia |
| (Panerai et al., 2014) |  | PMC (L) | 8 Hz | 90% MT | 30 min | 10 (1 per week day) | Sham | 2 | 6 | 5 | DSM-IV-TR; CARS; |  | PEP; |  | Not statistically significant improvement in performance | 0 | 13.5 | Italy |
| 1 Hz | 90% MT | 30 min | 10 (1 per week day) | Sham | 2 | 6 |
| (Sokhadze et al., 2009) |  | DLPFC (L) | 0.5 Hz | 90% MT | 10 min | 6 (2 per week) | Waiting List | 5 | 8 | 5 | DSM-IV-TR; ADI-R; |  |   | ABC; SRS; RBS; CGI; | Not reported | 0 | 18.3 | Kentucky |
| (Sokhadze et al., 2014) |  | DLPFC (L & R) | 1 Hz | 90% MT | 5 min | 18 (1 per week) | Waiting List | 20 | 27 | 27 | DSM-IV-TR; ADI-R; |  |   | ABC; RBS; | Not reported | 0.23 | 14.8 | Kentucky |

**Legend:** ABC, Aberrant Behaviour Checklist; ADI-R, Autism Diagnostic Interview - Revised; AMT, Animations Mentalizing Test; AQ, Autism Quotient; CGI, Clinical Global Impression; DLFPC, dorso-lateral prefrontal cortex; DMPCF, dorso-medial prefrontal cortex; DSM-IV-TR, Diagnostic and Statistical Manual of Mental Disorders, IV Ed. Text Revision; IRI, Iterpersonal Reactivity Index; L, left; MT, motor treshold; PEP, Psychoeducational Profile; PMC, pre-motor cortex; R, right; RAADS, Ritvo Autism Asperger Diagnostic Scale; RBS, Repetitive Behavior Scale; RMET, Reading the Mind in the Eyes Test; SRS, Social Responsiveness Scale;