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| **Table S5. Summary of findings:** |
| Parent-mediated interventions for children and adolescents with autism spectrum disorders: a systematic review and meta-analysis |
| **Patient or population**: Children with autism spectrum disorders aged 2-17 years **Intervention**: Parent-mediated interventions**Comparison**: No parent-mediated intervention |
|  Outcomes | Relative effect(95% CI) | No. of participants (Studies) | Certainty of the evidence(GRADE) |
| Primary: Adaptive functioning (parent-rated)(lower is better)Follow up: 4-24 months\*\* | SMD: 0.28 (-0.01 to 0.57) | 301(8 RCTs) (1-8) | ⨁⨁◯◯LOW a,b |
| Primary: Adaptive functioning (clinician-rated)assessed with: CGI-severity (lower is better)Follow up: 3-24 months | SMD: -0.45 (-0.87 to -0.03) | 90(2 RCTs) (9, 10) | ⨁◯◯◯VERY LOW a,c |
| Secondary: Adverse Effects(lower is better)Follow up: 3-24 months | 0 less of 1000(-50 to 50) | 98(2 RCTs) (4, 10) | ⨁⨁◯◯LOW c |
| Secondary: Autism Core Symptoms (parent-rated)(lower is better)Follow up: 2-6 months | SMD: 0.06 (-0.18 to 0.30) | 371(7 RCTs) (7, 9-14) | ⨁⨁◯◯LOW a,b |
| Secondary: Autism Core Symptoms (clinician-rated)(lower is better)Follow up: 3-6 months | SMD: -0.35 (-0.71 to 0.02 higher) | 456 (9 RCTs) (1-4, 8, 13, 15-17) | ⨁⨁◯◯LOW a,b |
| Secondary: Disruptive behavior (parent-rated)(lower is better)Follow up: 2-6 months | SMD: -0.55 (-0.74 to -0.36) | 711(9 RCTs) (12, 17-24) | ⨁⨁⨁◯MODERATE a |
| Secondary: Parental well-being(lower is better)Follow up: 2-12 months | SMD: -0.16(-0.32 to -0.01) | 699(12 RCTs) (2, 5, 11-14, 17, 20, 21, 23-25) | ⨁⨁◯◯LOW a,b |
| Secondary: Child anxietyFollow up: minimum of 8 weeks |  | 0 (0) |  |
| Secondary: Quality of life of the child (parent-rated)Follow up: minimum of 8 weeks |  | 0 (0) |  |
| \***The risk in the intervention group** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI). **\*\*** Adaptive functioning (parent-rated) at a minimum of eight weeks and minimum of six months synthesized as one outcome. **CI:** Confidence interval; **SMD:** Standardized mean difference; **MD:** Mean difference; **PMI**: Parent-mediated interventions; **CGI**: Clinical Global Impressions |
| **GRADE Working Group grades of evidence****High certainty:** We are very confident that the true effect lies close to that of the estimate of the effect**Moderate certainty:** We are moderately confident in the effect estimate: The true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different**Low certainty:** Our confidence in the effect estimate is limited: The true effect may be substantially different from the estimate of the effect**Very low certainty:** We have very little confidence in the effect estimate: The true effect is likely to be substantially different from the estimate of effect |

a. Downgrading by one level due to risk of bias (lack of blinding of participants and outcomes assessors)

b. Downgrading one level due to Imprecision of the results (few participating children and wide confidence intervals)

c. Downgrading by two levels due to Imprecision of the results (few participating children, few studies and wide confidence intervals)

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