**Table S1 (Online only)**

*Moderators of secondary outcomes over timea*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Sleep problems** | **ADHD symptom severity** | **Behaviour difficulties** | **Psychosocial QoL** | **Daily functioning** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **b** | **95% CI** | **p** | **b** | **95% CI** | **p** | **b** | **95% CI** | **p** | **b** | **95% CI** | **p** | **b** | **95% CI** | **p** |
| *Child factors* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADHD medication | 0.14 | -0.08, 0.37 | 0.21 | -0.08 | -0.34, 0.19 | 0.57 | 0.15 | -0.10, 0.41 | 0.25 | -0.12 | -0.41, 0.17 | 0.41 | 0.09 | -0.21, 0.39 | 0.55 |
| ADHD medication # trial arm | -0.31 | -0.62, -0.01 | **0.045** | 0.06 | -0.30, 0.42 | 0.74 | -0.19 | -0.54, 0.16 | 0.30 | 0.17 | -0.23, 0.56 | 0.40 | -0.17 | -0.57, 0.24 | 0.43 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Child aged 5-9 years | -0.05 | -0.24, 0.14 | 0.60 | 0.15 | -0.02, 0.31 | 0.08 | 0.09 | -0.08, 0.26 | 0.30 | -0.19 | -0.38, -0.00 | 0.04 | 0.05 | -0.14, 0.24 | 0.60 |
| Child aged 5-9 years # trial arm | 0.09 | -0.12, 0.29 | 0.41 | -0.19 | -0.42, 0.04 | 0.10 | -0.06 | -0.29, 0.17 | 0.63 | -0.19 | -0.07, 0.44 | 0.16 | -0.05 | -0.31, 0.22 | 0.73 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Internalising comorbidity | -0.05 | -0.28, 0.18 | 0.66 | 0.06 | -0.17, 0.28 | 0.62 | -0.09 | -0.31, 0.13 | 0.43 | -0.01 | -0.26, 0.23 | 0.91 | -0.14 | -0.39, 0.11 | 0.26 |
| Internalising comorbidity # trial arm | 0.08 | -0.13, 0.29 | 0.44 | -0.03 | -0.27, 0.20 | 0.78 | 0.12 | -0.12, 0.35 | 0.33 | -0.23 | -0.49, 0.02 | 0.08 | 0.10 | -0.17, 0.37 | 0.45 |
| Externalising comorbidity | -0.06 | -0.27, 0.15 | 0.58 | 0.11 | -0.08, 0.31 | 0.25 | 0.15 | -0.04, 0.35 | 0.12 | -0.05 | -0.26, 0.16 | 0.65 | 0.13 | -0.10, 0.35 | 0.27 |
| Externalising comorbidity # trial arm | 0.18 | -0.05, 0.39 | 0.12 | 0.06 | -0.18, 0.31 | 0.62 | 0.08 | -0.16, 0.32 | 0.52 | 0.01 | -0.26, 0.28 | 0.92 | -0.02 | -0.30, 0.26 | 0.91 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male sex | 0.07 | -0.19, 0.34 | 0.59 | 0.01 | -0.23, 0.24 | 0.96 | 0.25 | 0.02, 0.49 | 0.04 | -0.14 | -0.40, 0.13 | 0.31 | -0.00 | -0.28, 0.27 | 0.97 |
| Male sex # trial arm | -0.01 | -0.30, 0.28 | 0.94 | 0.06 | -0.26, 0.39 | 0.70 | -0.23 | -0.55, 0.09 | 0.16 | 0.07 | -0.28, 0.43 | 0.69 | 0.03 | -0.35, 0.40 | 0.89 |
| ADHD severity >75th percentile | 0.08 | -0.13, 0.29 | 0.47 | 0.00 | -0.22, 0.23 | 0.98 | 0.05 | -0.14, 0.23 | 0.61 | 0.09 | -0.11, 0.29 | 0.39 | 0.13 | -0.09, 0.35 | 0.26 |
| ADHD severity >75th percentile # trial arm | -0.09 | -0.33, 0.15 | 0.46 | 0.28 | 0.01, 0.54 | **0.04** | 0.26 | -0.01, 0.53 | 0.06 | -0.32 | -0.62, -0.01 | **0.04** | 0.07 | -0.25, 0.38 | 0.68 |
| CSHQ severity >75th percentile | 0.37 | 0.11, 0.64 | 0.005 | 0.05 | -0.15, 0.25 | 0.65 | -0.03 | -0.23, 0.17 | 0.78 | -0.08 | -0.30, 0.14 | 0.47 | 0.23 | -0.00, 0.46 | 0.05 |
| CSHQ severity >75th percentile # trial arm | -0.15 | -0.39, 0.09 | 0.23 | -0.11 | -0.37, 0.16 | 0.43 | 0.02 | -0.25, 0.28 | 0.91 | 0.06 | -0.24, 0.36 | 0.69 | -0.16 | -0.46, 0.15 | 0.31 |
| ASD diagnosis | -0.11 | -0.33, 0.10 | 0.30 | -0.05 | -0.24, 0.14 | 0.62 | 0.01 | -0.18, 0.19 | 0.95 | -0.05 | -0.26, 0.16 | 0.65 | -0.24 | -0.45, -0.02 | 0.03 |
| ASD diagnosis # trial arm | 0.10 | -0.13, 0.34 | 0.40 | 0.21 | -0.05, 0.47 | 0.11 | 0.21 | -0.05, 0.47 | 0.11 | -0.05 | -0.34, 0.24 | 0.73 | 0.26 | -0.04, 0.56 | 0.09 |
| *Parent factors* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High school completion | -0.01 | -0.20, 0.18 | 0.91 | -0.03 | -0.20, 0.14 | 0.73 | 0.03 | -0.14, 0.19 | 0.77 | -0.01 | -0.19, 0.18 | 0.95 | -0.01 | -0.20, 0.18 | 0.91 |
| High school completion # trial arm | -0.03 | -0.23, 0.18 | 0.81 | 0.01 | -0.23, 0.24 | 0.96 | -0.09 | -0.32, 0.14 | 0.43 | 0.04 | -0.21, 0.30 | 0.74 | 0.09 | -0.17, 0.35 | 0.51 |
| Clinical depression symptoms | 0.10 | -0.09, 0.30 | 0.30 | -0.14 | -0.30, 0.03 | 0.12 | -0.16 | -0.33, 0.01 | 0.06 | 0.22 | 0.03, 0.41 | 0.03 | -0.01 | -0.21, 0.19 | 0.89 |
| Clinical depression symptoms # trial arm | 0.02 | -0.19, 0.24 | 0.84 | 0.10 | -0.13, 0.34 | 0.39 | 0.23 | -0.00, 0.47 | **0.051** | -0.14 | -0.40, 0.13 | 0.31 | 0.02 | -0.26, 0.29 | 0.90 |

a Results of the mixed effects linear regression models fitted to the baseline, 3 month, 6 month, and 12 month time points. Reported values are for the pooled main effects and pooled interaction effects of each moderator on each outcome over time.