Table H-13. Findings on other approaches for ADHD

| **Study**  **(Companion)**  **N**  **Qualitya**  **Design**  **Age Categoryb** | **Intervention** | **Comparison** | **Follow-up Times** | **Findings–Intervention** | **Findings–Comparison** | **Between group P value** |
| --- | --- | --- | --- | --- | --- | --- |
| **Academic performance** | | | | | | |
| Evans, 201677  326  Fair  RCT  b | Challenging Horizons Program–after school version | Challenging Horizons Program–mentoring version  Community Care | 12 months | GPA  Mean = 2.3 | GPA  Mean = 2.1  GPA  Mean = 2.1 | P= 0.146 |
| Mautone, 201278  61  Fair  RCT  c | Family-School Success-Early Elementary | Coping with ADHD through Relationships and Education | 12 weeks  2 months post-12 weeks | Academic Competence Evaluation Scales score  Mean = 3.38 (SD = 0.57)  ACES score  Mean = 3.39 (SD = 0.48) | Academic Competence Evaluation Scales score  Mean = 3.11 (SD = 0.5)  ACES score  Mean = 3.25 (SD = 0.66) | NR  NR |
| Power, 201279  199  Fair  RCT  b | Family School Success Therapy | Coping With ADHD Through Relationships and Education | 3 months  6 months | Academic Performance Rating Scale  Mean = 3.32 (SD = 0.65)  Mean = 3.51 (SD = 0.64) | Academic Performance Rating Scale  Mean = 3.2 (SD = 0.68)  Mean = 3.36 (SD = 0.76) | NS  NS |
| **Behavior changes** | | | | | | |
| Abikoff, 201580  164  Good  RCT  a | New Forest Parenting Package | Helping the noncompliant child  Control | 6.8 months | Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Total  Mean = 68.01 (SD = 11.69)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Inattention  Mean = 65.60 (SD 13.53)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 68.08 (SD 10.69)  Behavior changes-Conners Teachers Rating Scale Revised Scale-Revised - Total  Mean = 64.27 (SD = 12.27)  Behavior changes-Conners Teacher Rating Scale Revised Scale-Revised - Inattention  Mean = 61.39 (SD = 13.58)  Behavior changes-Conners Teacher Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 64.25 (SD = 11.64) | Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Total  Mean = 63.44 (SD = 10.13)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Inattention  Mean = 61.74 (SD 10.04)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 63.39 (SD 10.24)  Behavior changes-Conners Teachers Rating Scale Revised Scale-Revised - Total  Mean = 62.06 (SD = 11.39)  Behavior changes-Conners Teacher Rating Scale Revised Scale-Revised - Inattention  Mean = 60.48 (SD = 11.79)  Behavior changes-Conners Teacher Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 62.01 (SD = 12.06)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Total  Mean = 76.44 (SD = 9.84)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Inattention  Mean = 75.31 (SD 10.38)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 74.45 (SD 10.67)  Behavior changes-Conners Teachers Rating Scale Revised Scale-Revised - Total  Mean = 70.65 (SD = 11.22)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Inattention  Mean = 68.22 (SD = 11.81)  Behavior changes-Conners Parent Rating Scale Revised Scale-Revised - Hyperactivity  Mean = 70.26 (SD = 11.98) | NS  NS  NS  NS  NS  NS  P=.001  P=.001  P=.001  NS  NS  NS |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Irritability  # patients with outcome = 16  Sadness  # patients with outcome = 10 | Irritability  # patients with outcome = 10  Sadness  # patients with outcome = 2 | NR  NR |
| Myers, 201583  223  Fair  RCT  c | Telemedicine | Usual Care + Consult | 25 weeks | Behavior changes-Vanderbilt caregiver, meeting criteria for inattention  Behavior changes-Vanderbilt caregiver, meeting criteria for hyperactivity  Behavior changes-Vanderbilt caregiver, meeting criteria for Combined  Behavior changes-Vanderbilt teacher, meeting criteria for inattention  Behavior changes-Vanderbilt teacher, meeting criteria for hyperactivity  Behavior changes-Vanderbilt teacher, meeting criteria for combined |  | P<.001  P=.02  P=.005  NS  P=.02  P=.045 |
| Oberai, 201384  61  Fair  RCT  b | Homeopathy | Placebo | 6 weeks  12 weeks | CPRS-R Oppositional  Mean = 56.4 (SD = 7)  CPRS-R Cognition Problems  Mean = 56.6 (SD = 7.4)  CPRS-R Hyperactivity  Mean = 63.7 (SD = 9.8)  CPRS-R ADHD Index  Mean = 58.2 (SD = 7.3)  CPRS-R Oppositional  Mean =49.5 (9.5)  CPRS-R Cognition Problems  Mean = 50.7 (7.7)  CPRS-R Hyperactivity  Mean = 55.6 (11.9)  CPRS-R ADHD Index  Mean = 51.8 (9.1)  Conners Parent Rating Scale – Revised  Effect size = 0.22 | CPRS-R Oppositional  Mean = 63.2 (SD = 8.3)  CPRS-R Cognition Problems  Mean = 67.4 (SD = 5.4)  CPRS-R Hyperactivity  Mean = 78.3 (SD = 7.9)  CPRS-R ADHD Index  Mean = 68.3 (SD = 4.6)  CPRS-R Oppositional  Mean = 66.2 (7.6)  CPRS-R Cognition Problems  Mean = 66.6 (6.2)  CPRS-R Hyperactivity  Mean = 78.2 (6.9)  CPRS-R ADHD Index  Mean = 68.4 (5) | NR  NR  NR  NR  P=.0001  P=.0001  P=.0001  P=.0001  P = 0.005 |
| **Changes in appetite** | | | | | | |
| Mohammadi, 201281  (Mostafavi82)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Appetite score  Mean = 13.26  Loss of appetite  # patients with outcome = 14 | Appetite score  Mean = 12.33  Loss of appetite  # patients with outcome = 11 | P=0.755 |
| **Changes in standardized symptom scores** | | | | | | |
| Hong, 201585  48  Fair  RCT  b | Acupuncture | Waitlist control | 1.5 months | ADHD-RS (Korean version) total score  Mean = -4.91 (SD 10.50)  ADHD-RS Inattention  Mean w/in group change = -2.67 (SD 4.90)  ADHD-RS Hyperactivity/Impulsivity  Mean w/in group change = -2.26 (SD 5.50)  Conners-RS  Mean w/in group change = -2.51 (SD 4.95)  CBCL total score  Mean w/in group change = -7.79 (SD 16.69)  CBCL-ADHD subscale  Mean w/in group change = -1.38 (SD 3.54)  CBCL-external subscale  Mean w/in group change = -1.85 (SD 7.19) | ADHD-RS (Korean version) total score  Mean = -4.00 (SD 11.00)  ADHD-RS Inattention  Mean w/in group change = -1.68 (SD 4.61)  ADHD-RS Hyperactivity/Impulsivity  Mean w/in group change = -2.84 (SD 4.00)  Conners-RS  Mean w/in group change = -1.78 (SD 4.14)  CBCL total score  Mean w/in group change = -3.00 (SD 25.00)  CBCL-ADHD subscale  Mean w/in group change = -0.64 (SD 4.36)  CBCL-external subscale  Mean w/in group change = -1.00 (SD 10.00) | 0.561  0.250  0.956  0.385  0.393  0.247  0.632 |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | ADHD RS attention score  Mean = 11.11  ADHD-RS Hyperactivity score  Mean = 11.62 | ADHD RS attention score  Mean = 11.29  ADHD-RS Hyperactivity score  Mean = 10.96 | P= 0.974  P= 0.720 |
| Webster-Stratton, 201186  99  Fair  RCT  c | Incredible Years Program | Waitlist | 5 months | CBCL-mother Attention problems  Mean = 65.8 (SD = 7)  CBCL Father – Attention problems  Mean = 64.8 (SD = 8.6) | CBCL-mother Attention problems  Mean = 68.8 (SD = 9.6)  CBCL Father – Attention problems  Mean = 65.8 (SD = 10) | NS  NS |
| **Functional impairment** | | | | | | |
| Evans, 201677  326  Fair  RCT  b | Challenging Horizons Program–after school version | Challenging Horizons Program–mentoring version  Community Care | 6 months post-treatment | Impairment Rating Scale- Parent report; relation to children  Mean = 1.76 (SD = 1.89)  Impairment Rating Scale- Teacher report; Relation with peers  Mean = 1.93 (SD = 1.91) | Impairment Rating Scale- Parent report; relation to children  Mean = 1.67 (SD = 1.78)  Impairment Rating Scale- Teacher report; Relation with peers  Mean = 1.97 (SD = 1.83)  Impairment Rating Scale- Parent report; relation to children  Mean = 1.8 (SD = 1.69)  Impairment Rating Scale- Teacher report; Relation with peers  Mean = 1.72 (SD = 1.94) | NR  NS  NS |
| Hong, 201585  48  Fair  RCT  b | Acupuncture | Waitlist control | 1.5 months | CGI-S  Mean w/in group change = -0.83 (SD 1.00) | CGI-S  Mean w/in group change = 0.00 (SD 1.00) | 0.012 |
| Oberai, 201384  61  Fair  RCT  b | Homeopathy | Placebo | 6 weeks  12 weeks | CGI-SS  Mean = 2.9 (SD = 0.7)  Clinical Global Impression Severity Scale  Mean = 2.5 (0.7) | CGI-SS  Mean = 3.8 (SD = 0.6)  Clinical Global Impression Severity Scale  Mean = 4 (0.6) | NR  P=.0001 |
| **Gastrointestinal symptoms** | | | | | | |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Stomachache  # patients with outcome = 9  Nausea and vomiting  # patients with outcome = 3 | Stomachache  # patients with outcome = 5  Nausea and vomiting  # patients with outcome = 3 | NR  NR |
| **Sleep disturbance** | | | | | | |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Mean sleep latency (min)  Mean = 17.96  Total sleep (hour)  Mean = 8.51  SDSC sleep score  Mean = 41.3  Insomnia  # patients with outcome = 8  Sleepiness  # patients with outcome = 4 | Mean sleep latency (min)  Mean = 26.37  Total sleep (hour)  Mean = 8.27  SDSC sleep score  Mean = 45.5  Insomnia  # patients with outcome = 8  Sleepiness  # patients with outcome = 4 | P=0.267  P= 0.197  P= 0.528  NR  NR |
| **Tics or other movement disorders** | | | | | | |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Dyskinesias  # patients with outcome = 0  Tics  # patients with outcome = 1 | Dyskinesias  # patients with outcome = 2  Tics  # patients with outcome = 1 | NR  NR |
| **Weight decrease** | | | | | | |
| Mohammadi, 201281  (Mostafavi, 201282)  60  Fair  RCT  b | MPH + melatonin | MPH + placebo | 8 weeks | Weight loss  # patients with outcome = 9 | Weight loss  # patients with outcome = 9 | NR |

a See Methods section “Quality Assessment of Individual Studies” for definitions of quality assessment ratings.

b Age categories: a = children aged ≤6 years, b = children aged 7-17, c = children of all ages ≤17.

Abbreviations: ADHD=attention deficit hyperactivity disorder; CBCL=Child Behavior Checklist; CGI-SS= Clinical Global Impression of Severity of Suicidality; CPRS=Conners Parent Rating Scale; GPA=grade point average; SDSC=Sleep Disturbance Scale for Childre