| **Author, Year, Country**  **Groups, N Enrollment/**  **N Final** | **Age at Intake**  **Mean months±SD** | **Measure** | **Baseline Score, Mean±SD** | **Follow-Up Score, Mean±SD** | **Analytic Data** |
| --- | --- | --- | --- | --- | --- |
| **RCTs** | | | | | |
| Schreibman et al. 201323  US  **IG:** Pivotal Response Training, 20/20  **CG:** PECS, 19/19  Quality: Good | **IG:** 29.5 ± 6.9  **CG:** 28.9 ± 4.2 | VABS, Communication | **IG:** 62.2 ± 4.7  **CG:** 60.2 ± 7.5 | Follow-up:  **IG:** 68.4 ± 14.5  **CG:** 62.6 ± 12.7 | Change over time and across conditions:  Time effect; F=4.09, p=0.037, ES=0.11  Rx effect: F=2.263, p=0.142  Time X Rx: F=1.765, p=0.19 |
| Landa et al. 201224, 25  US  **IG:** Assessment Evaluation and Programming System for Infants and Children (AEPS) curriculum+ additional joint attention and social interaction opportunities, 25/24  **CG:** AEPS curriculum, 25/24  Quality: Good | **IG:** 28.6 ± 2.6  **CG:** 28.8 ± 2.8 | VABS, Communication standard score | **IG+CG:** n=46,  69.7 ± 9.6 | **IG+CG:** n=48,  82.4 ± 20.4, d=0.38 | Significant change score (IG+CG):  n=46, 12.7 ± 19.4, d=0.81, p<0.001 |
| Roberts et al. 201126  Australia  **IG**: Individualized home-based program, 34/27  **CG1**: Small group center-based program combined with parent training and support group, 33/29  **CG2:** Waitlist, 28/28  Quality: Good | IG: 41.5  CG1: 43.1  CG2: 43.7 | VABS-Social | **IG:** 68.7 ± 7.3  **CG1:** 70.1 ± 7.3  **CG2:** 70.8 ± 9.9 | **IG:** 66.4 ± 7.7  **CG1:** 72.6 ± 11.2  **CG2:** 73.1 ± 10.8 | Significant pair-wise group differences on VABS social scale, Mean difference ((95%CI):  IG vs. CG1: 5.2 (0.7, 9.6), p= 0.02  IG vs. CG2: 5.2 (-0.7, 9.7), p= 0.02  CG1 vs. CG2: 0.1 (- 4.3, 4.4), p=0.98  3-group comparison: p=0.03  No significant communication score difference between groups (p>0.05) |
| VABS communication | **IG:** 64.4 ± 12.8  **CG1:** 66.9 ± 12.5  **CG2:** 68.5 ± 17.0 | **IG:** 68.4 ± 15.6  **CG1:** 76.1 ± 17.1  **CG2:** 74.2 ± 15.5 |
| Aldred et al. 201227, 28  UK  **IG:** Parent training in social communication intervention plus community intervention, 14/14  **CG:** Eclectic therapy, 14/14  Quality: Good | **IG:** 51.4 ± 11.8  **CG:** 50.9 ± 16.3 | VABS  communication | **IG:** 22.6 ± 13.3  **CG:** 20.0 ± 10.8 | **IG:** 36.9 ± 21.2  **CG:** 28.7 ± 16.6 | Non-significant mean communication change score  (IG: 14.3, CG: 8.7) after adjusting for baseline score (F 1,25=2.58, p=0.121) |
| Rogers et al. 201229, 30  US  **IG**: Parent-delivered Early Start Denver mode (ESDM), 49/49  **CG**: Eclectic therapy, 49/49  Quality: Fair | **IG:** 21.02 ± 3.51  **CG:** 20.94 ± 3.42 | VABS II: Communication | **IG:** 67.66 ± 13.19  **CG:** 67.29 ± 11.05 | **IG:** 72.55 ± 12.06  **CG:** 74.29 ± 14.55 | No group differences in any of the adaptive measures after 12 week intervention  Group effect size (d):  Communication IG:0.69; G2: 0.84  Daily living IG: -0.08; G2: 0.08  Socialization IG: 0.08, G2: 0.07  Adaptive behavior composite IG: 0.1, G2: 0.29 |
| VABS Daily Living Skills | **IG:** 83.07 ± 12.4  **CG:** 83.21 ± 10.6 | **IG:** 82.25 ± 13.82  **CG:** 84.04 ± 13.5 |
| VABS Socialization | **IG:** 76.68 ± 8.74  **CG:** 77.95 ± 8.01 | **IG:** 77.32 ± 9.19  **CG:** 78.67 ± 10.78 |
| VABS Adaptive Behavior Composite | **IG:** 76.76 ± 10.3  **CG:** 78.22 ± 8.88 | **IG:** 77.43 ± 9.59  **CG:** 80.33 ± 11.34 |
| Green et al. 201031  UK  **IG:** Preschool autism communication intervention (PACT), 77/74  **CG:** Eclectic therapy, 75/72  Quality: Fair | **IG:** 45  **CG:** 45 | VABS Communication | NR | **IG:** 64.3 ± 17.7  **CG:** 67.7 ± 17.5 | No significant group differences with the teacher Vineland Communication (difference of –3·52 (–7·55 to 0·52)) and Adaptive Behavior Composite standard scores (difference of –2·76 (–6·65 to 1·14)) |
| Adaptive behavior composite | NR | **IG:** 60.3 ± 15.2  **CG:** 62.8 ± 14.8 |
| **Prospective cohort studies** | | | | | |
| Strauss et al, 201232, 33  Italy  **IG**: Staff & parent mediated early intervention, 24/24  **CG**: Eclectic therapy, 20/20  Quality: Good | IG: 55.67 ± 17.63  CG: 41.94 ± 13.07 | VABS-Standard Scores socialization | **IG:** 61.96 ± 21.31  **CG:** 56.88 ± 19.21 | **IG:** 67.78 ± 19.93  **CG:** 70.50 ± 24.04 | CG achieved greater gains in adaptive behavior socialization,(t(19) = 3.434, p ≤ .01)  IG did not show an increase in socialization skills after 6 months.  IG& CG: Significant change from baseline communication & daily living scores (p<0.004  IG: No significant change from baseline for Motor skills(p=0.079) but CG had significant change from baseline p=0.001  IG& CG: Significant change from baseline ABC scores, p≤ 0.001  No significant group differences in adaptive measures |
| Communication | **IG:** 71.00 ± 39.24  **CG:** 60.78 ± 30.42 | **IG:** 91.43 ± 40.44  **CG:** 83.56 ± 41.32 |
| Daily living | **IG:** 78.43 ± 33.39  **CG:** 56.44 ± 23.81 | **IG:** 100.26 ± 35.60  **CG:** 88.33 ± 37.29 |
| Motor skills | **IG:** 105.78 ± 22.38  **CG:** 92.00 ± 19.97 | **IG:** 112.87 ± 13.30  **CG:** 106.59 ± 21.63 |
| AB-Composite | **IG:** 79.29 ± 22.84  **CG:** 66.92 ± 19.25 | **IG:** 93.09 ± 23.61  **CG:** 84.88 ± 29.03 |
| Reed et al. 201234  UK  **IG:** ABA, 14  **CG1:** Special nursery, 21 **CG2:** Portage, 18  **CG3:** Local authority-developed parent training, 13  Quality: Fair | **IG:** 39.0 ± 6.9  **CG1:** 41.5 ± 4.0  **CG2:** 39.5 ± 6.3  **CG3:** 40.2 ± 6.3 | VABS composite | **IG:** 58.4 ± 10.6  **CG1:** 53.3 ± 4.2  **CG2:** 56.6 ± 7.0  **CG3:** 54.0 ± 4.5 | VABS composite change score  **IG:** 11.9 ± 7.7  **CG1:** 6.8 ± 15.7  **CG2:** 2.5 ± 6.1  **CG3:** 2.7 ± 8.7 | Significant difference between the  standardized beta coefficient for the IG and CG2, p < 0.05  None of the other standardized  beta coefficients differed between the groups, p values > 0.1 |
| Keen et al. 201035  Australia  **IG:** Professional parent intervention, 17 families/NR  **CG:** Self-directed video based parent intervention, 22 families/NR  Quality: Good | **IG:** 36.38 ± 7.54  **CG:** 35.71 ± 6.92 | SIB-R | **IG:** 451.6 ± 8.12  **CG:** 448.1 ± 9.25 | **IG:** 457 ± 7.62  **CG:** 452.1 ± 11.02 | No significant group difference after controlling for baseline measures (Baseline X IG: Beta=-0.35 SE=0.179, 95% CI: - 0.70 to 0.0008) |

ABC=Autism Behavior Checklist ; AEPS=Assessment Evaluation and Programming System for infants and children; CARS=Childhood Autism Rating Scale; CI= Confidence Interval; ES=effect size ; LEAP=Learning Experiences and Alternate Program for preschoolers and their parents; NR=Not Reported; PACTS= Preschool Autism Communication Intervention; PDD-NOS=Pervasive Developmental Disorder-Not Otherwise Specified; PECS=Picture Exchange Communication System; SIB-R=Scales of Independent Behavior; TEACCH=Treatment and Education of Autistic and related Communication Handicapped Children; VABS= Vineland Adaptive Behavior Scale.