27 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 27 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 28 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 29 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 29 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 20 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder. 20 Brian et al., 2017 Cross-site randomized control trial of the Social ABCs 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intervals) at follow up  NA RCT Social Orienting (% intervals) at follow up  NA RCT Duration of Joint Engagement from teacher-child interaction (TCX)  NA RCT Duration of Joint Engagement from TCX  NA RCT JJA 1-word utterances from TCX  NA RCT JJA 2-word utterances from TCX  NA RCT JJA 3-word utterances from TCX  NA RCT Frequency of behavioral requests (IBR) in teacher-child interaction  NA RCT IBR 1-word utterances from TCX  NA RCT IBR 2-word utterances from TCX  NA RCT IBR 2-word utterances from TCX  NA RCT IBR 3-word utterances from TCX  NA RCT Simple Play proportion from TCX	Language Social Communication	Distal PCB Low	High Unclear Low Yes WHigh High Low Yes	Yes         No         No           Yes         No	Yes Yes No	75.63 13.18 30 78.34 75.83 8.27 30 76.44 66.5 19.98 30 30.99 1.06 0.92 30 0.36 8.32 9.59 30 7.71 37.68 19.74 30 33.17 59.88 20.85 30 40.21 0.93 0.7 30 0.43 8.29 9.18 30 0.43 8.29 9.18 30 0.43 8.29 9.18 30 0.5.74 37.44 19.54 30 30.52 0.47 0.32 38 0.24 17 12.86 38 7.79 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34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  34 Chang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  35 Chiang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  36 Chiang et al., 2016 Preschool Deployment of Evidence-Based Social Communication Intervention: JASPER in the Classroom.  37 Chiang et al., 2016 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  18       28.63         46.61       20.17       18       40.58         42.85       15.84       18       38.78         6.1       4.94       18       5.26         4.78       4.28       18       2.6         21.27       7.36       18       31.31         26.24       10.06       18       26.94         1.16       2.53       18       0.45         1.07       1.95       18       0.07         3.02       7.78       18       18
Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  Efficacy of caregiver-mediated joint engagement intervention for young children with autism spectrum disorders.  A pilot randomised control trial of a parent training intervention for pre-school children with autism: preliminary findings	37.6 NA 37.6 N	NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver NA Joint Engagement Intervention with Creative Movement Therapy Caregiver 79.2 Parent-training intervention Caregiver	NA Quasi PCX Coordinated Joint Engagment Parent Inititiated at Post NA Quasi PCX Coordinated Joint Engagment Parent Inititiated at Post NA Quasi ESCS Alternate Gaze at Post NA Quasi ESCS Alternate Gaze at 3 months NA Quasi ESCS Showing at Post NA Quasi ESCS Showing at 3 months NA Quasi ESCS Pointing at post NA Quasi ESCS Pointing at 3 months NA Quasi ESCS Pointing at 3 months NA Quasi ESCS Giving at post NA Quasi ESCS Giving at months NA Quasi ESCS Giving at 3 months NA RCT Nonverbal IQ from the Griffiths Scale of Mental Development NA RCT MCDI Words Understood NA RCT MCDI Words said NA RCT MCDI total gestures produced NA RCT ADI-R Reciprocal Social Interaction NA RCT ADI-R Nonverbal Communication	Social Communication Social Communication NA Language Receptive Language Expressive Social Communication NA	Proximal CB NA NA NA Li Proximal CB NA NA NA Li Proximal PCB NA NA NA NA Li Proximal PCB NA NA NA NA Li Proximal PCB NA NA NA NA NA Li Proximal PCB NA NA NA NA NA Li Proximal PCB NA	High High Low No High High Low No High Unclear Low Yes W High High Low Yes	Yes No No No Yes Unclear Yes Unclear Yes Unclear Yes Unclear Yes No No Yes No No Yes No No Yes No No No Yes No No No No Yes No No No No Yes No No No No Yes No No No Yes No No No Yes No No No No No Yes No No No No No Yes No No No No No No No Yes No	No N	3.02       7.78       18       1.51         4.5       6.52       18       2.99         12.06       8.26       18       8         12.94       9.71       18       10.56         0       0       18       0         0.06       0.24       18       0.19         2.88       3.39       18       4.25         3.18       3.8       18       4.31         0.53       1.94       18       0.38         0.12       0.49       18       0.13         77.9       14.8       12       66.1         176.1       121.9       12       100.3         96.6       118.8       12       44         38.6       12.5       12       29.1         18.3       4.9       12       20.1         11       2.8       12       11.9
A pilot randomised control trial of a parent training intervention for pre-school children with autism: preliminary findings and methodological challeng The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum Disorders: A Non-randomized Study with a Blinded Outcome Measure. The Effect of Pivotal Response Treatment in Children with Autism Spectrum		79.2 Parent-training intervention  79.2 Parent-training intervention  79.2 Parent-training intervention  83.3 Pivotal Response Treatment (PRT)	NA RCT ADI-R Repetitive and Stereotyped Behavior  NA RCT Improved Spoken Language Classification from ADI-R Overall Language Rating  NA Quasi ADOS Social Affect Subscale  NA Quasi ADOS Restricted Repetitive Behavior Subscale  NA Quasi ADOS Total Score SARRB  NA Quasi ADOS Calibrated Severity Score  NA Quasi ADOS Calibrated Severity Subscale SA  NA Quasi ADOS Calibrated Severity Subscale RRB  NA Quasi ADOS Calibrated Severity Subscale RRB  NA Quasi Child Behavior Checklist Internalizing T Score at 6 months  NA Quasi Child Behavior Checklist Externalizing T Score at 6 months  NA Quasi Child Behavior Checklist Total T Score at 6 months  NA Quasi Social Responsiveness Scale (SRS) Social Motivation at 6 months  NA Quasi SRS social awareness at 6 months  NA Quasi SRS social cognition at 6 months  NA Quasi SRS Social communication at 6 months	Restricted/Repetitive Behaviors Interests Language Social Communication Restricted/Repetitive Behaviors Interests All All NA Social Communication Restricted/Repetitive Behaviors Interests NA All NA Social Communication NA Restricted/Repetitive Behaviors Interests NA Social emotional NA Challenging behavior NA Social emotional NA Social Communication NA	Distal PCB Low	W High High Low Yes W High High Low Yes W High Low Low No W High High Low No	Yes         No         No           Yes         No         No           Yes         Yes         Yes           Yes         No         No	Yes Yes No No No No No No No Yes	3.9  NA  NA  NA  12 NA  NA  11.9  4.8  1.3  1.2  11  0.6  13.2  5  11  9  6.6  2.1  11  4.8  7.6  2.2  11  5.7  4.2  2.8  61.6  6.1  10  67.1  60.2  7.3  10  69.2  61.6  6.4  10  69.2  61.6  6.4  10  69.1  13.8  5  10  12.7  12.8  3.1  10  11  15.6  4.4  10  17.9  27.9  3.9  10  25.4
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A randomized controlled trial of Pivotal Resp	69.5 NA NA ADOS Total Score mod 69.5 NA NA ADOS Total Score mod 49.2 NA NA NA NA UR 49.2 NA NA NA UR	83.3 Pivotal Response Treatment (PRT)  83.3 Pivotal Response Treatment (PRT)  75 Pivotal Response Treatment  75 Pivotal Response Treatment  75 Pivotal Response Treatment  75 Pivotal Response Treatment  76 Pivotal Response Treatment  77 Pivotal Response Treatment  78 Pivotal Response Treatment  79 Pivotal Response Treatment  70 Pivotal Response Treatment  70 Pivotal Response Treatment  71 Pivotal Response Treatment  72 Pivotal Response Treatment  73 Pivotal Response Treatment  74 Pivotal Response Treatment  75 Pivotal Response Treatment  76 Pivotal Response Treatment  77 Pivotal Response Treatment  78 Pivotal Response Treatment  79 Pivotal Response Treatment  79 Pivotal Response Treatment  70 Caregiver  71 Pivotal Response Treatment  72 Pivotal Response Treatment  73 Pivotal Response Treatment  74 Pivotal Response Treatment  75 Pivotal Response Treatment  76 Pivotal Response Treatment  77 Pivotal Response Treatment  78 Pivotal Response Treatment  79 Pivotal Response Treatment  70 Caregiver  71 Pivotal Response Treatment  72 Pivotal Response Treatment  73 Pivotal Response Treatment  74 Pivotal Response Treatment  75 Pivotal Response Treatment  76 Pivotal Response Treatment  77 Pivotal Response Treatment  78 Pivotal Response Treatment  79 Pivotal Response Treatment  70 Pivotal Response Treatment  70 Pivotal Response Treatment  71 Pivotal Response Treatment  72 Pivotal Response Treatment  73 Pivotal Response Treatment  74 Pivotal Response Treatment  75 Pivotal Response Treatment  76 Pivotal Response Treatment  77 Pivotal Response Treatment  78 Pivotal Response Treatment  79 Pivotal Response Treatment  70 Pivotal Response Treatment  71 Pivotal Response Treatment  72 Pivotal Response Treatment  73 Pivotal Response Treatment  74 Pivotal Response Treatment  75 Pivotal Respons	NA Quasi SRS Autistic Mannerisms at 6 months  NA Quasi SRS Total Score at 6 months  NA RCT Total Utterances from SLO  NA RCT Unintelligible Utterances from SLO  NA RCT Imitative Utterances from SLO  NA RCT Verbally Prompted Utterances from SLO  NA RCT Nonverbally Prompted Utterances from SLO  NA RCT Spontaneous Utterances from SLO  NA RCT VABS Communication Standard Score  NA RCT VABS Expressive Raw Score  NA RCT VABS Receptive Raw Score  NA RCT MCDI Mean length of longest utterance  NA RCT MCDI Words Produced out of 396  NA RCT MCDI Words Produced out of 680  NA RCT Preschool Language Scales Expressive Standard Score	Restricted/Repetitive Behaviors Interests All Language Expressive Language Expressive Language Expressive Social Communication NA Social Communication NA Social Communication NA Language Language Expressive	Distal PCB NA NA NA Lu Distal PCB NA NA NA Lu Distal PCB NA NA NA Lu Proximal CB Low Low Lu Distal PCB Low Low Lu Distal Distal PCB Low Low Lu Distal Distal PCB Low Lu Distal Distal PCB Low Lu Distal Dis	W High High Low No W High High Low Yes	Yes         No         No	Yes Yes No No No No No No No No Yes	14.3       4.5       10       14         138.8       10.4       10       139.8         64.5       28.9       25       51.4         26.1       14.9       25       24.6         19.4       14.2       25       7.1         14.5       15.2       25       16         2.7       3.8       25       0.1         0.9       1.4       25       0.4         78.9       18.9       25       72.8         41.7       14.7       25       34         21.5       14.7       25       18.9         3.7       2.1       25       2.8         172.2       123.6       25       215         289.1       18.9       25       239.9         63.9       11.6       25       63
A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for parents of children with autism.  A randomized controlled trial of Pivotal Response Treatment Group for	49.2 NA       NA       NA       UR         49.2 NA       NA       NA       UR         49.2 NA       NA       NA       UR         75.4 Mecham Language Score       31.4 NA       UR	75 Pivotal Response Treatment 75 Pivotal Response Treatment 75 Pivotal Response Treatment 75 Pivotal Response Treatment 76 Pivotal Response Treatment 77 Pivotal Response Treatment 78 Pivotal Response Treatment 79 Pivotal Response Treatment 79 Pivotal Response Treatment 79 Pivotal Response Treatment 70 home-based intervention program 70 Caregiver 70 Impact Online	NA RCT Clinical Global Impression- Severity  NA RCT Clinical Global Impression- Improvement  NA Quasi Total Number of Utterances  NA Quasi Percent Echolalic Utterances  NA Quasi Percent Socialized Utterances  NA Quasi Percent Non-verbal/Incomprehensible Utterances  NA Quasi Number of phrases  NA Quasi Number of morphemes  NA Quasi Number of transformations  NA Quasi Number of transformations  NA RCT Child Language Targets from Parent Child Interaction  NA RCT VABS-II Communication  NA RCT VABS-II Social Skills  NA RCT VABS-II Daily Living Skills	All NA Social Communication NA Social Communication NA Language Expressive Restricted/Repetitive Behaviors Interests NA Social Communication NA Restricted/Repetitive Behaviors Interests NA Language Expressive Language Expressive Language Expressive Language Expressive Language Expressive Language Expressive Social Communication NA Social Communication NA Social Communication NA Social Communication NA Adaptive	Distal PCB Low Low Low Low Low Distal PCB Low	W High High Low Yes W High High Low Yes W High High Low Yes W High High Low No W High High Hom No W High High High No W High High High No W High High High No W High High Low Yes	Yes         No         No           No         No         No           No         No         No           Yes         No         No	Yes Yes Yes No Yes Yes Yes Yes	74.9 12.4 25 80.6 4.6 0.9 25 5 2.4 0.7 25 3.2 154.8 126.5 16 122.4 9.6 12.3 16 11.5 52.4 37.7 16 32.2 37.9 41.2 16 56.3 72 75.4 9 77 129.7 118.4 9 129.5 67 82.4 9 85.6 1.8 1 14 1.95 243.64 237.94 14 210.38 77.36 13.79 14 75.33 75.71 9.07 14 70
Comparison of a Self-Directed and Therapist-Assisted Telehealth Parent-Mediated Intervention for Children with ASD: A Pilot RCT.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Treatment of children with autism: A randomized controlled trial to evaluate a caregiver-based intervention program in community day-care centers.  Randomized controlled caregiver mediated joint engagement intervention for toddlers with autism.  Randomized controlled caregiver mediated j	43.7 NA       NA       NA       UR         43.3 NA       NA       NA       UR         30.8 NA       NA       NA       UR         30.8 NA       NA       NA       UR         30.8 NA       NA       NA       NA	70.3 ImPACT Online 97.1 Caregiver-based intervention program in community day-care centers 97.1 Caregiver-based intervention 97.1 Caregiver-based intervention 97.1 Caregiver-based intervention 97.1 Caregiver-based intervention 97.1 Caregiver 97.3 Joint Engagement Intervention 97.4 Caregiver 97.5 Joint Engagement Intervention 97.5 Caregiver 97.6 Joint Engagement Intervention 97.6 Caregiver 97.6 Joint Engagement Intervention 97.6 Caregiver 97.6 Joint Engagement Intervention 97.6 Caregiver 97.7 Caregiver	NA RCT Autism Behavior Checklist Total Score (Parent)  NA RCT Perceptual/Fine Motor from EIDP  NA RCT Cognition from EIDP  NA RCT Language from EIDP  NA RCT Social/Emotional from EIDP  NA RCT Social/Emotional from EIDP	Motor All NA All NA Motor NA Motor NA Cognitive NA Language Total Social emotional NA Adaptive NA Motor NA Social Communication NA NA NA NA	Distal PCB Low	High High Low Yes  High Low Low Yes  High High Low Yes  High How Yes  High Low Low Yes  High High Low Yes	Yes         No         No           Yes         Yes         Yes           Yes         No         No	Yes No Yes No	83.14       11.27       14       82.85         48.5       18.4       16       56.5         47.9       27.4       16       53.1         36       13.1       16       35.9         27.2       10.8       16       27         30.2       15       16       21.9         31.9       13.1       16       31.9         35.4       16.1       16       36         36.7       0.9       16       38.2         22.01       18.24       19       17.31         34.75       18.39       19       54.69         42.85       19.96       19       27.87         3.11       3.41       19       3.77         0.79       0.23       19       0.05         5.29       2.37       19       3.29
Randomized controlled caregiver mediated joint engagement intervention for toddlers with autism.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous engagement in toddlers with autism spectrum disorder: a randomized controlled trial.  Intervention targeting development of socially synchronous enga	30.8 NA       NA       NA       UR         28.8 NA       NA       NA       UR         44.7 NA       NA       NA       UR         44.7 NA       NA       NA       NA	76.3 Joint Engagement Intervention  76.3 Joint Engagement Intervention  81.6 Interpersonal Synchrony  Clinician  81.6 Interpersonal Synchrony  Clinici	NA RCT Types of Symbolic Play Acts  205.66 RCT IJA from videoed CSBS at post  205.66 RCT JJA from videoed CSBS at follow-up  205.66 RCT Shared Positive Affect from CSBS at post  205.66 RCT Shared Positive Affect from CSBS at follow-up  205.66 RCT Socially Engaged Imitation at post  205.66 RCT Socially Engaged Imitation at follow-up  205.66 RCT Socially Engaged Imitation at follow-up  205.66 RCT MSEL Expressive Language T score at post  205.66 RCT MSEL Expressive Language T score at follow-up  205.66 RCT MSEL Visual Reception T Score at post  205.66 RCT MSEL Visual Reception T Score at follow up  8.3 RCT Total Initiating Joint Attention (IJA) from Class Observation  8.3 RCT Frequency of Pointing from Class Observation  8.3 RCT Frequency of Showing from Class Observation  Frequency of Giving from Class Observation	Play Social Communication NA Language Expressive Language Expressive Cognitive NA Social Communication NA	Distal CB Low Low Low Proximal PCB Unclear Unclear Proximal PCB Unclear Unclear Proximal PCB Unclear Unclear Distal PCB Unclear	High High Low Yes  W High Low Low No  W High High Low No	Yes         No         No           Yes         Yes         No           Yes         No         No	No N	0.26       0.65       19       0.53         7.7       9.33       24       5         8.83       13.22       24       4.42         6.87       7.55       24       5.33         7.57       9.76       24       4.96         0.42       0.24       24       0.35         0.44       0.22       24       0.28         34.08       14.59       24       31.92         34.52       12.33       24       31.36         36.75       14.54       24       32.24         34.44       16.67       24       30.28         7       4.15       9       1.83         2.77       1.99       9       0.14         1.11       1.05       9       0         2.22       2.49       9       0.14
Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for preschoolers with autism.  Teacher-implemented joint attention intervention: pilot randomized controlled study for pre	44.7 NA       NA       NA       UR         44.7 NA       NA       NA       NA         42.6 NA       NA       NA       NA	NA JASPER Educator	8.3 RCT Frequency of Looking from Class Observation 8.3 RCT Total IJA from ESCS 8.3 RCT Frequency of pointing from ESCS 8.3 RCT Frequency of Showing from ESCS 8.3 RCT Frequency of Giving from ESCS 8.3 RCT Frequency of Looking from ESCS 8.3 RCT Frequency of Looking from ESCS 8.3 RCT Total IJA from Taped Play Interaction 8.3 RCT Frequency of Pointing from Play Interaction 8.3 RCT Frequency of Showing from Play Interaction 8.3 RCT Frequency of Giving from Play Interaction 8.3 RCT Frequency of Looking from Play Interaction 8.3 RCT Frequency of Looking from Play Interaction 8.3 RCT Object Engagement from Play Interaction 8.3 RCT Supported Engagement from play Interaction 8.4 RCT Functional Verbal Utterances  NA RCT Functional Verbal Utterances  Vineland Communication	Social Communication Social Communication NA	Proximal CB Low	High High Low No High Low Low No High High Low No W High High Low No	Yes         No           Yes         Yes           Yes         Yes           Yes         Yes           Yes         Yes           Yes         Yes           Yes         Yes           Yes         No           No         No           Yes         No           No         No	No N	0.89       1.45       9       0.71         15.33       10.89       9       9         8.67       9.66       9       4.29         1       0.87       9       0         1.44       3.61       9       0.43         4.22       1.99       9       4.29         6.22       5.19       9       4         1.11       1.57       9       1.29         1.77       2.63       9       0.29         1.11       1.69       9       0.71         2.22       2.99       9       1.71         2.87       1.31       9       4.94         5.58       0.81       9       4.11         39.12       31.45       13       16.14         68.4       15.6       27       74.2
A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A randomised controlled trial of two early intervention programs for young children with autism: Centre-based with parent program and home-based. A	42.6 NA       NA       NA       UR         43.4 NA       NA       NA       NA	90.5 Home-based Building Blocks Program 90.5 Center-based Building Blocks Program	36 Quasi Vineland Social 36 Quasi Reynell Comprehension Standard Score 36 Quasi Reynell Expression Raw Score 36 Quasi Reynell Expression Standard Score 36 Quasi Reynell Expression Raw Score 36 Quasi Reynell Expression Raw Score 36 Quasi Pragmatics Profile Total Q Range 36 Quasi Developmental Behavior Checklist Total 72 Quasi Vineland Communication 72 Quasi Vineland Social 72 Quasi Reynell Comprehension Standard Score 72 Quasi Reynell Comprehension Raw Score 72 Quasi Reynell Expression Standard Score 72 Quasi Reynell Expression Standard Score 73 Quasi Reynell Expression Raw Score 74 Quasi Reynell Expression Raw Score 75 Quasi Pragmatics Profile Total Q Range 76 Quasi Developmental Behavior Checklist Total	Social Communication Language Receptive Language Receptive Language Expressive Language Expressive Social Communication Challenging behavior Social Communication NA Social Communication NA Social Communication NA Language Receptive Language Receptive Language Receptive Language Expressive Language Expressive Social Communication NA Receptive Language Receptive Language Expressive Social Communication NA NA	Distal PCB NA NA NA Lu Distal Gen NA NA NA Lu Distal PCB NA NA NA Lu Distal PCB NA NA NA Lu Distal PCB NA NA NA Lu Distal FALSE NA NA Lu Distal FALSE NA NA Lu Distal Gen NA NA Lu	W High High Low No W High Low Low No W High High Low No W High Low Low No	Yes         No         No           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         No         No           Yes         No         Unclear           Yes         Yes         Yes           Yes         No         No           Yes         No         No           Yes         No         No	Yes No No No No No Yes Yes Yes Yes Yes No Yes Yes	66.4       7.7       27       73.1         2.6       8.4       27       5.7         17.5       6.3       27       22         2.8       7.5       27       4.4         8.8       8.9       27       11.1         62.8       19.4       27       72.2         52.9       29.3       27       42.9         76.1       17.1       29       74.2         72.6       11.2       29       73.1         10.5       17.4       29       5.7         23.7       19.9       29       22         7       15.1       29       4.4         11.4       10.9       29       11.1         73       19       29       72.2         55.7       19.5       29       42.9
Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMPT interventions.  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Teaching young nonverbal children with autism useful speech: a pilot study of the Denver Model and PROMP	38.4 MSEL Expressive Language Age 38.4 MSEL Expressive Language Age 12 NA UR 38.4 MSEL Expressive Language Age 12 NA UR 29.2 NA NA NA UR 29.1 NA NA NA UR 29.2 NA NA NA UR 29.1 NA NA NA UR 29.2 NA NA NA UR 29.1 NA UR 29.2 NA NA NA NA UR 29.1 NA UR 31.6 MSEL Expressive Language Age 16.9 NA UR	100 Denver Model 100 Denver Model Caregiver 100 Denver Model Caregiver 100 Denver Model Caregiver 87.2 Pivotal Response Training Combination 87.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 87.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 87.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 87.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator	75 RCT MCDI Receptive Vocabulary (# of words child says and understands) 75 RCT MSEL Expressive Raw Score 75 RCT MSEL Receptive Raw Score 247 RCT Mullen Expressive Communication at post 247 RCT MCDI Words Produced at post 247 RCT VABS Communication at post 247 RCT Mullen Expressive Communication at follow up 247 RCT MCDI Words Produced at follow up 247 RCT MCDI Words Produced at follow up 247 RCT VABS Communication at follow up 248 RCT VABS Communication at follow up 19.25 RCT Percent Engagement in TCX at Exit 19.25 RCT Percent Engagement in TCX at Follow up 19.25 RCT Join Attention in TCX at exit 19.25 RCT Percent Simple Play in TCX at exit 19.25 RCT Percent Simple Play in TCX at follow-up	Language Expressive Language Receptive Language Expressive Language Expressive Language Expressive Social Communication NA Language Expressive Language Expressive Language Expressive Social Communication NA	Distal PCB Low Low Low Distal Gen Low Low Distal Gen Low Distal Gen Unclear Distal PCB Unclear	W High High Low No W High Low Low No W High Low Low No W High High Low Yes	Yes         No         No           Yes         Yes         Yes           Yes         Yes         Yes           Yes         No         No	Yes No No No No Yes Yes Yes Yes No Yes Yes No Yes Yes No No No No No No No No	50.4       80.07059385       5       69.6         16.2       5.263078947       5       17         18.6       6.69328       5       20         22.5       7       19       26.7         83.2       88.3       19       88.7         59.7       9.6       19       67.1         23.7       11.2       19       28.7         113.3       108.3       19       129.8         62.6       12.7       19       68.4         43.77       31.87       55       5.21         43.58       31.59       55       9.23         14.13       15.4       55       1.91         13.51       13.74       55       3.96         5.32       10.81       55       12.06         5.97       10.48       55       11.26
Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for toddlers with autism: a randomized trial. Hybrid implementation model of community-partnered early intervention for	31.6 MSEL Expressive Language Age	77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.4 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.6 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.7 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.8 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.8 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.8 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.8 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention Symbolic Play Engagement Regulation (JASPER) Educator 77.9 Joint Attention	19.25 RCT Percent Functional Play in TCX at exit 19.25 RCT Percent functional Play in TCX at follow-up 19.25 RCT Percent Symbolic Play in TCX at Exit 19.25 RCT Percent Symbolic Play in TCX at Follow-up 19.25 RCT SPACE joint attention at exit 19.25 RCT SPACE joint attention at follow-up 19.25 RCT SPACE simple play at exit 19.25 RCT SPACE simple play at exit 19.25 RCT SPACE functional play at exit 19.25 RCT SPACE functional play at follow up 19.25 RCT SPACE symbolic play at follow up 19.25 RCT SPACE symbolic play at follow up 19.25 RCT SPACE symbolic play at follow up NA Quasi Vineland-II Communication NA Quasi Vinleland-II Socialization NA Quasi MSEL Nonverbal Developmental Quotient	Play Play NA Play NA Play NA Play NA Social Communication NA Social Communication NA Play NA NA NA NA Social Communication NA Social Communication NA Social Communication NA Social Communication NA	Proximal CB Low High Proximal Gen Low High	High High Low Yes  High High Low No  High High Low No	Yes         No         No           Yes         No         No           Yes         No         No           Yes         No         Yes           Yes         No         No           Yes         Yes         Yes	No N	56.75       26.37       55       1.6         51.25       31.29       55       9.75         3.45       10.4       55       1.47         2.84       7.76       55       0.73         38.02       35.5       55       27.04         28.75       25.57       55       26.25         6.06       3.41       55       6.02         5.46       2.19       55       6.42         9.16       6.3       55       8.93         8.39       4.34       55       8.47         1.74       2.55       55       1         0.71       1.47       55       1         81.38       8.16       16       73.08         74.81       6.83       16       67.54         81.98       23.93       17       64.23
299 Wetherby & Woods, 2006 299 Wetherby & Woods,	18.19 NA       NA       NA       UR         18.19 NA       NA       NA       NA	83 Early Social Interaction Project (SCERTS) Caregiver 84 Early Social Interaction Project (SCERTS) Caregiver 85 Early Social Interaction Project (SCERTS) Caregiver 86 Early Social Interaction Project (SCERTS) Caregiver 87 Early Social Interaction Project (SCERTS) Caregiver 88 Early Social Interaction Project (SCERTS) Caregiver	NA Quasi MSEL Verbal Developmental Quotient NA Quasi VABS Communication NA Quasi VABS Daily Living NA Quasi VABS Social NA Quasi VABS Motor NA Quasi VABS Adaptive Behavior Composite NA Quasi Gaze Shifts NA Quasi Shared Positive Affect NA Quasi Gaze/point follow NA Quasi Gaze/point follow NA Quasi Behavior Regulation NA Quasi Social Interaction NA Quasi Joint attention NA Quasi Inventory of Gestures NA Quasi Inventory of Consonants	cognitive NA Social Communication NA Adaptive NA Social Communication NA Motor NA Adaptive NA Social Communication NA	Distal Gen NA NA Lu Distal PCB NA NA NA Lu Distal PCB NA NA NA Lu Distal Gen NA NA Lu	High Low Low No High High Low No High Unclear Low No W High Unclear Low No	Yes Yes Yes Yes No No No Yes Unclear Yes	No Yes Yes Yes Yes Yes Yes No	73.55       26.16       17       56.07         77.06       19.76       17       62.76         75.88       10.51       17       65.88         77.06       16.35       17       64.41         83.76       14.32       17       71.88         73.82       14.73       17       64.71         5.18       1.51       17       3.28         3.41       2       17       1.31         1.29       0.85       17       0.61         16.18       2.56       17       11.94         5.53       0.63       17       4.11         2.29       1.86       17       0.89         2.94       2.16       17       1.39         3.76       1.68       17       2.72         4.71       2.69       17       3.72
299 Wetherby & Woods, 2006 297 Wetherby & Woods, 2006 327 Vivanti et al., 2014 328 Vivanti et al., 2014 329 Wetherby & Woods, 2006 329 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 321 Wivanti et al., 2014 322 Vivanti et al., 2014 323 Vivanti et al., 2014 324 Vivanti et al., 2014 325 Vivanti et al., 2014 326 Vivanti et al., 2014 327 Vivanti et al., 2014 327 Vivanti et al., 2014 328 Vivanti et al., 2014 329 Wetherby & Woods, 2006 329 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 321 Wivanti et al., 2014 322 Vivanti et al., 2014 323 Vivanti et al., 2014 324 Vivanti et al., 2014 325 Vivanti et al., 2014 326 Wetherby & Woods, 2006 327 Vivanti et al., 2014 327 Vivanti et al., 2014 328 Wetherby & Woods, 2006 329 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006 321 Wetherby & Woods, 2006 322 Wetherby & Woods, 2006 323 Vivanti et al., 2014 324 Wetherby & Woods, 2006 325 Wetherby & Woods, 2006 326 Wetherby & Woods, 2006 327 Wetherby & Woods, 2006 327 Vivanti et al., 2014 328 Wetherby & Woods, 2006 329 Wetherby & Woods, 2006 327 Vivanti et al., 2014 328 Wetherby & Woods, 2006 329 Wetherby & Woods, 2006 320 Wetherby & Woods, 2006	18.19 NA NA NA NA UR 18.19 NA NA NA NA UR 18.19 NA NA NA NA NA UR 18.19 NA NA NA NA NA NA UR 18.19 NA NA NA NA NA NA NA UR 18.19 NA NA NA NA NA NA NA NA UR 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod 41.2 MSEL Expressive Language AE 19 ADOS Calibrated Severity Score mod	83 Early Social Interaction Project (SCERTS) Caregiver 87. Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination 87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting Combination	NA Quasi Inventory of Words  NA Quasi Understanding  NA Quasi Inventory of Actions  NA Quasi Inventory of Actions  NA Quasi Actions to others  1023.4 Quasi MSEL Developmental Quotient  1023.4 Quasi VABS Adaptive Behavior Composite  1023.4 Quasi ADOS Severity Score  1023.4 Quasi MSEL Visual Reception Developmental Quotient  1023.4 Quasi MSEL Fine Motor DQ  1023.4 Quasi MSEL Receptive Language DQ  1023.4 Quasi MSEL Expressive Language DQ  1023.4 Quasi VABS Communication  1023.4 Quasi VABS Daily Living Skills  1023.4 Quasi VABS Social  1023.4 Quasi VABS Motor	Language Receptive Social Communication NA Social Communication NA Cognitive NA Adaptive NA All NA Cognitive NA Motor NA Language Receptive Language Expressive Social Communication NA Adaptive NA Motor NA Language Receptive Language Expressive Social Communication NA Adaptive NA Social Communication NA Motor NA	Distal Gen NA NA LA Distal Gen NA NA NA Distal PCB NA NA NA Distal Gen NA NA LA Distal PCB NA NA NA NA LA Distal PCB NA NA NA LA Distal PCB NA NA N	High Unclear Low No High High Low No W High High Low No	YesUnclearYesYesUnclearYesYesUnclearYesYesNoYesYesNoNoYesNoYesYesNoYesYesNoYesYesNoYesYesNoYesYesNoYesYesNoYesYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesNoNo	No No No No No No No Yes No No No No No No Yes Yes Yes Yes Yes	6       5.18       17       3.94         4.24       3.29       17       2         6.18       2.9       17       5         2.82       1.7       17       2.56         67.21       20.17       27       56.26         72.13       13.48       24       72.97         6.89       2.34       27       61.4         73.82       25.21       27       63.24         68.83       17.88       27       61.7         62       24.65       27       49.55         64.18       21.03       27       50.56         73.38       16.47       24       73.17         75.17       13.28       24       74.2         71.42       12.06       24       75         77.46       15.17       24       80.17
27 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  27 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  27 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  28 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  28 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  29 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  29 Vivanti et al., 2014 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  20 Vivanti et al., 2018 Effectiveness and feasibility of the Early Start Denver Model implemented in a group-based community childcare setting.  20 Vivanti et al., 2018 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  21 Boyd et al., 2018 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  23 Boyd et al., 2018 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  23 Boyd et al., 2018 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  24 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  25 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  26 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial  27 Vivanti et al., 2018 Efficacy of the ASAP Intervention for Preschoolers with ASD: A Clu	41.2 MSEL Expressive Language AE 41.3 MSEL Expressive Language AE 41.4 MSEL Expressive Language AE 41.5 MSEL Expressive Language AE 41.6 NA 41.6 NA 42.6 NA 43.6 NA 44.6 NA 44.6 NA 45.6 NA 45.6 NA 46.6 NA 46.6 NA 47.6 NA 47.6 NA 48.6 N	87.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.8 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.9 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R7.0 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.1 Advancing Social-Communication and Play (ASAP) R8.2 Advancing Social-Communication and Play (ASAP) R8.3 Advancing Social-Communication and Play (ASAP) R8.4 Advancing Social-Communication and Play (ASAP) R8.5 Advancing Social-Communication and Play (ASAP) R8.6 Advancing Social-Communication and Play (ASAP) R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Start Denver Model (ESDM) in a Group-based Child Care Setting R8.7 Early Sta	1023.4 Quasi ADOS Social Affect 1023.4 Quasi ADOS Restrictive Repetitive Behaviors 1023.4 Quasi MSEL Overall Age Equivalent 1023.4 Quasi MSEL Visual Reception Age Equivalent 1023.4 Quasi MSEL Fine Motor AE 1023.4 Quasi MSEL Receptive Language AE 1023.4 Quasi MSEL Expressive Language AE 1023.4 Quasi MSEL Expressive Language AE 17.2 RCT Joint Attention coded from videoed ADOS-G 17.2 RCT Social Interaction coded from videoed ADOS-G 17.2 RCT Requesting coded from videoed ADOS-G 17.2 RCT Total Social communication coded from videoed ADOS-G 17.2 RCT Functional play coded from SPA 17.2 RCT Symbolic Play coded from SPA 17.2 RCT Total Play coded from SPA 17.2 RCT Internalizing Behavior from the Caregiver-Teacher Rating form	Social Communication Restricted/Repetitive Behaviors Interests Cognitive NA Cognitive NA Motor NA Language Receptive Language Social Communication NA Play NA Play NA Play NA Social emotional	Distal Gen NA NA Lu Distal Gen NA NA NA Distal Gen Low Low Lu Proximal Gen Low Low Lu	W High High Low No W High Low No W High Low Ves W High Low Low Yes	Yes         No         Yes           Yes         Yes         Yes	No N	11.96       4.67       27       11         4.07       2.33       27       3.55         34.12       11.16       27       29.85         35.26       10.63       27       33.53         35.26       10.63       27       32.97         31.26       11.94       27       26.2         32.48       10.44       27       26.7         23.83       28.36       76       27.27         9.14       8.91       76       8.81         25.49       18.77       76       24.88         58.46       44.07       76       60.96         20.21       9.17       76       20.01         16.95       13.35       76       15.88         46.11       21.43       76       44.87         61.14       8.26       67       63.48
Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Cluster Randomized Controlled Trial Efficacy of the ASAP Intervention for Preschoolers with ASD: A Clu	49.6 NA ADOS Severity mod 49.6 NA NA ADOS Severity Modified ADOS Social Affect sev 49.6 NA ADOS Severity Mod 49.6 NA ADOS Severity	86.3 Advancing Social-Communication and Play (ASAP)  86.4 Caregiver  77 Early Start Denver Model (ESDM)  78 Caregiver  79 Farent-Early Start Denver Model (P-ESDM)  79 Caregiver  77.5 Parent-Early Start Denver Model (P-ESDM)  Caregiver  77.5 Parent-Early Start Denver Model (P-ESDM)  Caregiver	17.2 RCT Externalizing Behavior from the C-TRF 17.2 RCT Total Score from the C-TRF  NA RCT Unengaged (Classroom routines)  NA RCT Some Engagement (Classroom routines)  NA RCT Overall Engagement (Classroom routines)  NA RCT Onlooking (classroom routines)  NA RCT Object Engagement (classroom Routines)  NA RCT Object Engagement (Classroom Routines)  NA RCT Person Engagement (Classroom routines)  NA RCT Supported Joint Engagement (Classroom routines)  NA RCT Coordinated Joint Engagement (Classroom routines)  NA RCT Child Attention from the CBRS  NA RCT Child Initiations from the CBRS  NA RCT Modified ADOS Social Affect  NA RCT ADOS-Restrictive and Repetitive Behavior  NA RCT Mullen DQ	challenging behavior Social emotional NA Social Communication NA Social Communication NA Social Communication NA Other NA Other NA Social Communication	Distal PCB Low	High High High Yes  High High High Yes  High High Low Yes  WHigh High Low Yes  WHigh High Low Yes  WHigh Unclear Low Yes  WHigh Unclear Low Yes  WHigh Unclear Low Yes	No         No         No           No         No         No           Yes         Unclear         Yes           Yes         Unclear         Yes           Yes         Unclear         Yes	Yes Yes No	60.99       5.94       67       61.85         62.71       7.21       67       63.99         0.32       0.19       77       0.36         0.59       0.2       77       0.53         2.66       0.61       77       2.54         0.09       0.12       77       0.1         0.38       0.19       77       0.35         0.05       0.06       77       0.04         0.05       0.06       77       0.08         3.1       0.93       49       3         2.68       0.73       49       2.84         26.61       10.14       41       27.33         3.96       1.86       41       3.82         69.82       17.9       41       67.92
Effects of a Brief Early Start Denver Model (ESDM)—Based Parent Intervention on Toddlers at Risk for Autism Spectrum Disorders: A Randomized Contressand Randomi	21 NA NA Modified ADOS Social Affect sev 31.5 Reynell Expressive Language AE 13.9 NA UR	77.5 Parent-Early Start Denver Model (P-ESDM) Caregiver	NA RCT Mullen Verbal DQ (both language subscales)  NA RCT Mullen Nonverbal DQ  NA RCT MCDI Part I: Phrases Understood  NA RCT MCDI Part 1: Vocabulary Comprehension  NA RCT MCDI Part 1: Vocabulary Production  NA RCT MCDI Part 2: Total Gestures  NA RCT VABS II Communication  NA RCT VABS II Daily Living Skills  NA RCT VABS II Socialization  NA RCT VABS II Adaptive Behavior Composite  NA RCT Imitative Sequences  NA RCT Mean Social Orienting I  NA RCT Mean Nonsocial Orienting  NA RCT Mean Orienting to Joint Attention  NA RCT Time Joint Engaged from Parent-child Interaction (PCX) at Exit	Language NA Language Receptive Language Receptive Language Expressive Social Communication NA Social Communication NA Adaptive NA Social Communication NA Adaptive NA Social Communication NA	Distal Gen Low	High Unclear Low Yes WHigh Unclear Low Yes WHigh High Low Yes WHigh Unclear Low Yes	YesUnclearYesYesUnclearYesYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesNoNoYesUnclearYesYesUnclearYesYesUnclearYesYesUnclearYesYesUnclearYesYesNoNo	No         No         Yes         Yes         Yes         Yes         Yes         Yes         Yes         No         No	56.65       23.65       41       54.35         81.98       14.82       41       80.57         12.73       9.11       41       14.77         106.51       96.81       41       125.72         42.27       61.99       41       38.87         28.02       12.62       41       29.79         72.55       12.06       41       74.29         82.25       13.82       41       84.04         77.32       9.19       41       78.67         77.43       9.59       41       80.33         4.58       3.45       41       3.76         0.47       0.28       41       0.43         0.74       0.28       41       0.6         0.34       0.29       41       0.34         325.17       120.2       41       159.72
Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers With Autism.  Randomized Comparative Efficacy Study of Parent-Mediated Interventions for Toddlers Wi	31.5 Reynell Expressive Language AE  31.5 Reynel	81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.4 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.5 Caregiver  81.6 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.7 Caregiver  81.8 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Caregiver  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)  81.9 Joint Attention, Symbolic Play, Engagement, and Regulation (JASPER)	NA RCT Initiating Joint Attention (IJA) from PCX at exit  NA RCT Initiating Joint Attention (IJA) from PCX at exit  NA RCT Initiating Joint Attention (IJA) from PCX at Follow-up  NA RCT Functional Play from PCX at exit  NA RCT Functional Play from PCX at Follow-up  NA RCT Symbolic Play from PCX at Follow-up  NA RCT Symbolic Play from PCX at Follow-up  NA RCT Highest Play level from PCX at exit  NA RCT Highest Play level from PCX at Follow-up  NA RCT Receptive Language from Reynell at exit  NA RCT Receptive Language from Reynell at exit  NA RCT Expressive Language from Reynell at exit  NA RCT Expressive Language from Reynell at Follow-up  NA RCT Expressive Language from Reynell at Follow-up  NA RCT Initiating Joint Engagement from Classroom Observation at Exit  NA RCT Joint Engagement from Classroom Observation at Exit  NA RCT Time in Child-initiated Joint Engagement at Exit	Social Communication Social Communication NA Social Communication NA Play NA Social Communication NA NA	Proximal CB Low Low H Distal Gen Low Low H Distal Gen Low Low H Proximal Gen Low Low H	gh High High Low Yes gh High Low Yes gh High Low Yes gh High Low Yes gh High Low Low Yes gh High Low Yes gh High Low Low Yes gh High High Low Yes gh High Low Yes gh High High High Low Yes gh High High High Low High High Low Yes gh High	Yes         No         No           Yes         Yes         Yes           Yes         No         No	No N	363.66       132.5       38       266.71         8.08       7.23       41       7         8.66       8.58       38       6.79         4.05       3.25       41       2.85         2.79       2.17       38       2.61         3.6       1.95       41       1.8         4.75       2.83       38       3.08         7.94       3.43       41       7         8.18       3.92       38       8.18         20.87       11.85       41       23.17         32.74       15.24       38       33.38         18.42       8.03       41       19.83         24.26       9.34       38       24.59         8.14       4.03       41       7.33         215.83       136.69       41       90.86
Increasing Responsive Parent-Child Interactions and Joint Engagement: Comparing the Influence of Parent-Mediated Intervention and Parent Psychoeing Sulsrud et al., 2007 Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play skills.  Children with autism's response to novel stimuli while participating in interventions targeting joint attention or symbolic play in symbolic play in tervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.	31.5 Reynell Expressive Language AE 42.9 Reynell Expressive Language Age 21.4 NA 42.6 Reynell Expressive Language Age 20.1 NA 42.3 Reynell Expressive Language Age 20.5 NA 42.6 Reynell Expressive Language Age 20.1 NA 42.6 Reynell Expressive Language Age	82.4 Joint Attention Symbolic Play Engagement Regulation (JASPER)  80 Joint Attention Intervention  81.1 Joint Attention Intervention  81.2 Joint Attention Intervention  81.3 Joint Attention Intervention  81.4 Joint Attention Intervention  81.5 Joint Attention Intervention  81.7 Joint Attention Interven	NA RCT Time in Child-initiated Joint Engagement at Follow Up  14.3 RCT Acknowledgement of probe (proportion of children in each group)  14.3 RCT Coordinated joint looks (proportion of children in group that exhibited them)  14.3 RCT Verbalizations about probe  14.3 RCT Non-verbal gestures  14.3 RCT Mullen DQ at 5 year follow-up  17.35 RCT Mullen DQ at 5 year follow-up  14.3 RCT ESCS Showing  14.3 RCT ESCS Coordinated Joint Attention Looks  14.3 RCT ESCS Pointing  14.3 RCT ESCS Giving  14.3 RCT ESCS Responds to Joint Attention  14.3 RCT Mother-Child Interaction (MCX) Coordinated Joint Attention looks  14.3 RCT MCX Pointing  14.3 RCT MCX Pointing  14.3 RCT MCX Giving	Social Communication Other NA Social Communication NA Social Communication NA Social Communication NA Cognitive NA Social Communication NA	Proximal CB Low Low Horosimal CB Unclear Unclear Low Horosimal CB Unclear Unclear Low Low Horosimal CB Unclear Unclear Low	High High Low Yes  W High High High High Yes  W High Low High Yes  W High Low Low Yes  W High High Low Yes	Yes         No         No           No         No         No           No         No         No           No         No         No           No         Yes         Yes           No         Yes         Yes           Yes         No         Yes	No N	NA       NA       17 NA       NA         NA       NA       17 NA       NA         NA       NA       17 NA       NA         2.5       0.8       17       1.3         0.6       0.3       17       0.83         93.46       22.31       15       89.25         87.73       17.96       14       89.25         0.7       1.19       20       0.17         9.55       7.88       20       10.35         14.65       15.6       20       5.76         5.1       3.54       20       3.59         16.55       6.64       20       9.35         3.55       5.38       20       1.53         2.45       3.1       20       4.53         3.25       2.95       20       2.06
Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a	42.6 Reynell Expressive Language Age 42.7 NA 42.8 Reynell Expressive Language Age 42.9 NA 42.9 42.9 N	81.1 Joint Attention Intervention 95.6 Symbolic Play Intervention 96.6 Symbolic Play Intervention 97.6 Symbolic Play Intervention	14.3 RCT MCX Showing 14.3 RCT MCX Child-initiated JA 14.3 RCT MCX Mother-initiated JA 14.3 RCT SPA Functional Play Types 14.3 RCT SPA Symbolic Play Types 14.3 RCT SPA Level of Play 14.3 RCT MCX Functional Play types 14.3 RCT MCX Symbolic Play types 14.3 RCT MCX Symbolic Play types 14.3 RCT MCX Symbolic Play types 14.3 RCT MCX Level of Play 17.35 RCT ESCS Showing 17.35 RCT ESCS Coordinated Joint Attention Looks 17.35 RCT ESCS Pointing 17.35 RCT ESCS Giving 17.35 RCT ESCS Responds to Joint Attention 17.35 RCT Mother-Child Interaction (MCX) Coordinated Joint Attention looks	Social Communication Social Communication NA Social Communication NA Play NA Social Communication NA	Proximal Gen Unclear Unclear Proximal Gen Unclear Unclear Proximal Gen Unclear	High High Low Yes  High High Low Yes  High High Low Yes  High Low Yes  High Low Low Yes	Yes         No         Yes           Yes         No         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         No         Yes           Yes         No         Yes           Yes         Yes         Yes	No N	2.65       3.08       20       1.23         299       237       20       128         420       194       20       459         24       8.56       20       21.71         6.3       6.65       20       3.12         6.95       2.3       20       6.41         5.95       4.2       20       5.23         3.7       4.28       20       2.58         7.47       2.71       20       5.69         1.29       2.65       21       0.17         12.14       9.3       21       10.35         9.76       10.21       21       5.76         3.05       2.27       21       3.59         12.04       5.91       21       9.35         3.47       3.76       21       1.53
Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Joint attention and symbolic play in young children with autism: a randomized controlled intervention study.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.	42.3 Reynell Expressive Language Age 42.5 NA 42.6 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.1 NA 42.6 Reynell Expressive Language Age 42.1 NA 42.2 Reynell Expressive Language Age 42.3 Reynell Expressive Language Age 42.3 Reynell Expressive Language Age 42.4 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.1 NA 42.2 Reynell Expressive Language Age 42.3 Reynell Expressive Language Age 42.1 NA 42.6 Reynell Expressive Language Age	75.6 Symbolic Play Intervention 75.6 Symbolic Play Interventio	17.35 RCT MCX Pointing 17.35 RCT MCX Giving 17.35 RCT MCX Showing 17.35 RCT MCX Child-initiated JA 17.35 RCT MCX Mother-initiated JA 17.35 RCT SPA Functional Play Types 17.35 RCT SPA Symbolic Play Types 17.35 RCT SPA Level of Play 17.35 RCT MCX Functional Play types 17.35 RCT MCX Symbolic Play types 17.35 RCT MCX Symbolic Play types 17.35 RCT MCX Symbolic Play types 17.35 RCT MCX Level of Play 14.3 RCT MSEL Mental Age at 12 mo 14.3 RCT MSEL Nonverbal Composite at 12 mo 14.3 RCT MSEL Developmental Quotient at 12 mo 14.3 RCT Reynell Expressive Language at Post	Social Communication Social Communication NA Play NA Expressive Expressive	Distal Gen Unclear Unclear Distal Gen Unclear Unclear Distal Gen Unclear Proximal Gen Unclear Distal Gen Unclear	W High High Low Yes W High Low Low Yes W High High Low Yes W High Low Low Yes	Yes         No         Yes           Yes         No         Yes           Yes         No         Yes           Yes         No         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         No         Yes           Yes         No         Yes           Yes         Yes         Yes	NO N	1.28
Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and	42.6 Reynell Expressive Language Age 42.1 NA 42.6 Reynell Expressive Language Age	81.1 Joint Attention Intervention	14.3 RCT Reynell Expressive Language at 6 mo 14.3 RCT Reynell Expressive Language at 12 mo 14.3 RCT Reynell Receptive Language at Post 14.3 RCT Reynell Receptive Language at 6 mo 14.3 RCT Reynell Receptive Language at 12 mo 14.3 RCT Reynell Receptive Language at 12 mo 14.3 RCT Joint Attention (JA) Initiations from ESCS and MCX at Post 14.3 RCT JA Initiations from ESCS and MCX at 6 mo 14.3 RCT JA Responses from ESCS at 6 mo 14.3 RCT JA Responses from ESCS at 12 mo 14.3 RCT JA Responses from ESCS at 12 mo 14.3 RCT Child Initiated JA at 6 mo (MCX) 14.3 RCT Child Initiated JA at 12 mo (MCX) 14.3 RCT Mother Initiated JA at 12 mo (MCX) 14.3 RCT Symbolic Play Level from SPA and MCX at Post 14.3 RCT Symbolic Play Level from SPA and MCX at 6 mo	Language Expressive Language Receptive Language Receptive Language Receptive Language Receptive Social Communication NA	Distal Gen Unclear Unclear Distal Gen Unclear	W High Low Low Yes W High High Low Yes	Yes         Yes         Yes	NO N	35.7       12.57       20       28.06         22.8       6.9       20       18.76         27       7       20       24         31.85       9.21       20       27.31         5.23       3.14       20       3.65         5.44       2.54       20       3.95         6.44       2.89       20       2.91         13.3       7.48       20       8.29         10       3.58       20       9.3         244.9       188.87       20       197.06         363.55       316.58       20       129.4         469.35       191.1       20       371.31         348.4       259.69       20       533         7.21       1.76       20       6.05         7.35       1.08       20       6.05
Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions. Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.	42.6 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age 42.6 Reynell Expressive Language Age 42.5 Reynell Expressive Language Age	81.1 Joint Attention Intervention 81.1 J	14.3 RCT Symbolic Play Level from SPA and MCX at 6 mo 14.3 RCT Symbolic Play Level from SPA and MCX at 12 mo 14.3 RCT Symbolic Play Types from SPA and MCX at Post 14.3 RCT Symbolic Play Types from SPA and MCX at 6 mo 14.3 RCT Symbolic Play Types from SPA and MCX at 12 mo 17.35 RCT MSEL Mental Age at 12 mo 17.35 RCT Reynell Expressive Language at Post 17.35 RCT Reynell Expressive Language at 6 mo 17.35 RCT Reynell Receptive Language at 12 mo 17.35 RCT Reynell Receptive Language at 6 mo 17.35 RCT Reynell Receptive Language at 12 mo 17.35 RCT Reynell Receptive Language at 12 mo 17.35 RCT Reynell Receptive Language at 12 mo 17.35 RCT Joint Attention (JA) Initiations from ESCS and MCX at Post 17.35 RCT JA Initiations from ESCS and MCX at 12 mo 17.35 RCT JA Initiations from ESCS and MCX at 12 mo	Play Play NA Play NA Play NA Play NA Play NA Play NA Cognitive NA Language Expressive Language Expressive Language Expressive Language Receptive Language Receptive Language Receptive Social Communication NA Social Communication	Distal Gen Unclear Unclear Unclear  Distal Gen Unclear	High High Low Yes  W High Low High Yes  W High Low Low Yes  W High Low High Yes  W High Low High Yes  W High Low High Yes  W High Low Low Yes  W High Low High Yes  W High Low High Yes  W High Low High Yes  W High High Low Yes	Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           No         Yes         Yes           Yes         Yes         Yes           No         Yes         Yes           Yes         Yes         Yes           No         Yes         Yes           Yes         Yes         Yes	NO N	7.25       1.98       20       6.06         8.23       2.46       20       6.75         5       4.08       20       2.85         5.63       4.13       20       4.38         9.4       7.58       20       5.34         40.33       13.24       17       32.9         23.67       8.78       21       21.18         31.26       12.94       19       24.18         38.29       15.03       17       28.06         24.12       10.31       21       18.76         29.05       10.93       19       24         35.06       11.18       17       27.31         4.7       3.4       21       3.65         7.36       4.43       19       3.95         7.92       4.81       17       2.91
Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Language Outcome in Autism: Randomized Comparison of Joint Attention and Play Interventions.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.	42.3 Reynell Expressive Language Age 20.5 NA UR	75.6 Symbolic Play Intervention 75.6 Symbolic Play Interventio	17.35 RCT JA Responses from ESCS at 6 mo 17.35 RCT JA Responses from ESCS at 12 mo 17.35 RCT Child Initiated JA at 6 mo (MCX) 17.35 RCT Child Initiated JA at 12 mo (MCX) 17.35 RCT Mother Initiated JA at 6 mo (MCX) 17.35 RCT Mother Initiated JA at 12 mo (MCX) 17.35 RCT Mother Initiated JA at 12 mo (MCX) 17.35 RCT Symbolic Play Level from SPA and MCX at Post 17.35 RCT Symbolic Play Level from SPA and MCX at 6 mo 17.35 RCT Symbolic Play Level from SPA and MCX at 12 mo 17.35 RCT Symbolic Play Types from SPA and MCX at Post 17.35 RCT Symbolic Play Types from SPA and MCX at 6 mo 17.35 RCT Symbolic Play Types from SPA and MCX at 6 mo 17.35 RCT Symbolic Play Types from SPA and MCX at 12 mo 17.35 RCT MSEL Nonverbal Composite at 12 mo 17.35 RCT MSEL Nonverbal Quotient at 12 mo 14.3 RCT Joint Attention (JA) and Shared Positive Affect (SPA) at Exit	Social Communication Social Communication NA Play NA Social Communication NA Social Communication NA Social Communication NA Social Communication NA	Distal Gen Unclear Unclear Le Proximal Gen Unclear Unclear Le	High Low High Yes  W High Low High Yes  W High High Low Yes  W High High How Yes  W High High Low Yes  W High High Low Yes  W High High Low Yes  W High High High Yes  W High High High Yes  W High High High Yes  W High High Low Yes  W High High Low Yes  W High High Low Yes  W High Low High Yes  W High Low Low Yes	No         Yes         Yes           Yes         Yes         Yes           No         Yes         Yes           No         Yes         Yes           No         Yes         Yes           Yes         Yes         Yes	NO N	10.84       4.01       17       9.3         190.58       233.54       19       197.06         309       335.7       17       129.4         535.58       222.76       19       371.31         467.24       277.21       17       533         7.61       2.41       21       6.05         8.14       2.8       19       6.06         9.6       1.73       17       6.75         5       5.38       21       2.85         9.05       9.48       19       4.38         11.26       7.89       17       5.34         42.82       14.08       17       35.87         69.47       22.32       17       58.68         3.65       5.03       20       4.88         1.8       2.57       2.6
Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  Brief Report: Longitudinal Improvements in the Quality of Joint Attention in Preschool Children with Autism.  A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children with Autism  A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children with Autism  A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children with Autism  A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children with Autism  A Randomized Controlled Trial of Preschool-Based Joint Attention Intervention for Children	42.3 Reynell Expressive Language Age 42.4 Reynell Expressive Language Age 41.4 Reynell Expressive Language Age 41.5 NA UR 48.8 Reynell Expressive Language Age 41.5 NA UR	80.5 Joint Attention 80.5 Join	14.3 RCT 14.3 RCT 14.3 RCT 15.4 and SPA and Utterances at Exit 14.3 RCT 16.5 JA and SPA at 6 month follow up 16.5 RCT 17.3 RCT 18.5 RCT 19.6 and SPA and Utterances at 12 month follow up 17.3 RCT 19.6 and SPA and Utterances at 12 month follow up 17.3 RCT 19.6 and SPA and Utterances at 12 month follow up 17.3 RCT 19.6 and SPA and Utterances at Exit 17.3 RCT 19.6 and SPA and Utterances at Exit 17.3 RCT 19.6 and SPA and Utterances at 6 mo Follow up 17.3 RCT 19.6 and SPA and Utterances at 6 mo Follow up 17.3 RCT 19.6 and SPA and Utterances at 12 month follow up 17.3 RCT	Social Communication Social Communication NA	Proximal Gen Unclear Unclear Proximal Gen Unclear Unclear Proximal Gen Unclear Unc	High Low Low Yes WHigh High Low Yes WHigh High Low Yes WHigh High Low Yes WHigh High Low Yes	Yes         Yes           Yes         No           Yes         No <td>NO NO N</td> <td>1.68       1.68         6.15       5.72       20       3.06         4.1       4.64       20       1.75         7.65       6.8       20       3.88         5.3       5.68       20       1.56         4.25       4.64       16       4.88         1.93       3.15       16       1.68         7.91       3.06       16       3.06         3.19       3.58       16       1.75         9.44       3.88       16       3.88         5.75       7.02       16       1.56         1.6       2.6       33       1.6         1.8       3.2       34       0.4         56       22.2       34       62.7         2.4       3.6       34       1.8         57.3       22.8       24</td>	NO N	1.68       1.68         6.15       5.72       20       3.06         4.1       4.64       20       1.75         7.65       6.8       20       3.88         5.3       5.68       20       1.56         4.25       4.64       16       4.88         1.93       3.15       16       1.68         7.91       3.06       16       3.06         3.19       3.58       16       1.75         9.44       3.88       16       3.88         5.75       7.02       16       1.56         1.6       2.6       33       1.6         1.8       3.2       34       0.4         56       22.2       34       62.7         2.4       3.6       34       1.8         57.3       22.8       24
Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  Preschool-Based Social Communication Treatment for Children With Autism: 1	48.8 Reynell Expressive Language Age 21.5 NA UR	78.7 Joint Attention Intervention	25 RCT Seconds in joint engagement with preschool at 12 months 25 RCT Frequency of child initiation of joint attention a with preschool teacher at 12 months 25 RCT Seconds in joint engagement with mother at 12 months 25 RCT Child initiation of joint attention with mother at 12 months 25 RCT Frequency of child initiation of joint attention during ESCS at 12 months 25 RCT Reynell Receptive Raw Scores at 12 months 25 RCT Reynell Expressive Raw Scores at 12 months 25 RCT SCQ: C, social subscale, parents 25 RCT SCQ: C, social subscale, teachers 25 RCT SCQ: C social subscale, teachers 25 RCT SCQ: C, communication subscale parents 25 RCT SCQ: C, communication subscale teachers 25 RCT SCQ: C, communication subscale teachers 25 RCT SCQ: C, social initiation of joint attention with preschool teacher at 6 months 25 RCT Seconds in joint engagement with mother at 6 months	Social Communication Social Communication NA Language Language Expressive Social Communication NA	Proximal PCB Low	High Low Yes  High Unclear Low Yes  High Low Yes  High Low Low Yes  High Low Yes  High Low Yes  High Low Yes  High High Low Yes	NO         NO           Yes         NO           Yes         NO           Yes         NO           Yes         Yes           Yes         Yes           Yes         Yes           Yes         Yes           Yes         Yes           Yes         No           Yes         Yes	No Yes Yes Yes Yes No No No No	57.3       22.8       34       49.2         348.64       131.928       33       338.85         7.15       12.525       33       3.48         363.94       125.866       33       308.85         7.85       8.797       33       7.58         7.85       7.73       33       6.11         32.84       20.782       32       39.41         27.88       20.688       32       34.11         5.28       4.382315238       29       4.13         6.3       3.707587626       33       5.19         4.1       2.307927774       29       4.52         4.88       2.46195542       33       4.12         4.85       5.165       34       3.6         299.47       158.017       34       311.64         371.87       127.085       31       327.33         9.29       10.325       31       4.71
131 Kaale et al., 2014 Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  131 Kaale et al., 2014 Preschool-Based Social Communication Treatment for Children With Autism: 12-Month Follow-Up of a Randomized Trial.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  47 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  48 Dawson et al., 2012 Early behavioral intervention is associated with normalized brain activity in young children with autism.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.	48.8 Reynell Expressive Language Age 21.5 NA UR 48.8 Reynell Expressive Language Age 21.5 NA UR 23.5 NA NA ADOS Severity Score mod	78.7 Joint Attention Intervention 78.7 Joint Attention Intervention 78.7 Joint Attention Intervention 77.1 Early Start Denver Model	25 RCT Child initation of joint attention with mother at 6 months 25 RCT Frequency of child initiation of joint attention during ESCS at 6 months 3276 RCT NC peak latency to faces vs objects 3276 RCT Log EEG spectral power face-object differences 3276 RCT ADI Communication Scores 3276 RCT ADI Social 3276 RCT PDD-BI Expressive Social Communication Composite Scores 3276 RCT PDD-BI Receptive/Expresssion Social Communication Composite Scores 3276 RCT PDD-BI Learning, Memory, and Receptive Language 3276 RCT PDD-BI Semantic Pragmatic Problems 3276 RCT PDD-BI Expressive Language 3276 RCT Mullen ELC at 2 year 3276 RCT Mullen Fine Motor at 2 year 3276 RCT Mullen Fine Motor at 2 year 3276 RCT VABS composite at 2 year	Social Communication Social Communication NA Brain-imaging NA Brain-imaging NA Social Communication NA NA NA Adaptive NA	Proximal Gen Low Low Low  Proximal Gen Low Low  Distal Gen Low Low  Distal Gen Low  Distal PCB Low  Distal Gen Low  Distal PCB	High High Low Yes Western High Unclear Low Yes Send Low Low High Yes Send High High High High High Low Low Yes Send High Low Low Yes Send High High Low Yes Send High High Low Low Yes Send High High High Low Yes Send High High High Low Yes Send High High Low Yes Send High High High High Low Yes Send High High High High High High High High	Yes         Ves           Yes         Unclear         Yes           No         No         Yes           No         No         Yes           No         No         No           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         No         No           Yes         Yes         Yes	No No No No No Yes Yes Yes Yes Yes Yes Yes Your No No No No No No No Yes	9.29 10.325 31 4.71 7.44 7.233 34 6.684  NA NA NA 15 NA NA  8.7 4.9 15 13.2 9.5 5.4 15 14.5 65.4 6.5 15 54.5 65.5 5.6 15 55.3 63.9 3.6 15 57.6 50.4 7.6 15 56.6 64.6 5.8 15 54.4 78.6 24.2 24 66.3 41 17.9 24 34.5 33.5 12.2 24 28.5 68.7 15.9 24 59.1
As Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2010 Randomized, controlled trial of an intervention for toddlers with autism: the Early Start Denver Model.  48 Dawson et al., 2015 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  54 Estes et al., 2015 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  54 Estes et al., 2015 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  55 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  56 Estes et al., 2015 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  57 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism  58 Estes et al., 2015 The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism	23.5 NA  23.5 NA  NA  ADOS Severity Score  mod	77.1 Early Start Denver Model  78.9 Early Start Denver Model  79.9 Early Start Denver Model  70.9 Early Start Denver Model	3276 RCT VABS communication at 2 year 3276 RCT VABS Socialization at 2 year 3276 RCT VABS Daily living skills at 2 year 3276 RCT VABS Motor Skills at 2 year 3276 RCT ADOS Severity Score at 2 year 3276 RCT Repetitive Behavior Scale at 2 year 3276 RCT Repetitive Behavior Scale at 2 year 3276 RCT IQ/ General Conceptual Ability from the Differential Ability Scales (DAS) 3276 RCT Verbal IQ from DAS 3276 RCT Nonverbal IQ from DAS 3276 RCT VABS Adaptive Behavior Composite 3276 RCT VABS Communication 3276 RCT VABS Daily Living Skills 3276 RCT VABS Socialization 3276 RCT ADOS Restricted and Repetitive Behavior 3276 RCT ADOS Social Affect	Social Communication  Social Communication  Adaptive  NA  Motor  All  Restricted/Repetitive Behaviors Interests  cognitive  cognitive  NA  cognitive  NA  Adaptive  NA  Social Communication  NA  Social Communication  NA  Restricted/Repetitive Behaviors Interests  NA  NA  NA  NA  NA  Social Communication  NA  Social Communication  NA  Restricted/Repetitive Behaviors Interests  NA  Social Communication  NA  NA  NA	DISTAI PCB LOW LOW H Distal Gen LOW LOW H Distal PCB LOW LOW LOW H Distal PCB LOW LOW LOW H Distal Gen LOW	gh High High Low Yes gh High High Low Yes gh High High Low Yes gh High Low Yes gh High Low Yes gh High Low Low Yes gh High Low Low Yes gh High Low Low Yes w High Low Low Yes w High Low Low Yes w High High High Yes w High High High High Yes w High High High Yes w High Low Low Yes	res         No         No           Yes         No         No           Yes         No         No           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           Yes         Yes         Yes           No         No         No           Yes         Yes         Yes	Yes Yes Yes Yes No No No No No Ses Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	82.1       21.8       24       69.4         69.2       11.6       24       63.1         64.7       12.4       24       58         77.4       19.8       24       64.1         7       1.9       24       7.3         16.7       13.1       24       22         90.52       26.36       21       79.83         91.29       22.52       21       84.89         90.33       26.38       21       78.72         81.41       17.27       17       72.06         88.35       19.76       17       79.71         83.06       21.56       17       77.71         79.24       16.03       17       69.44         2.48       1.97       21       4 17

3276 RCT

3276 RCT

Combination Combination

Combination Combination

Combination

Adaptive Behavior Composite Irritability

Repetitive Behavior Scale Total Score

Peer Relationships from the ADI-R

Shared Positive Affect from the CSBS

Restricted/Repetitive Behaviors Interests

Social Communication

Social Communication

challenging behavior challenging behavior

Low Low Yes

Analysis ID Outcome Numl Citation ID Reference

27 Brian et al., 2017

Cross-site randomized control trial of the Social ABCs caregiver-mediated intervention for toddlers with autism spectrum disorder.

Age in months Name of Language Age Measure

23.5 NA 23.5 NA 23.5 NA 23.5 NA 23.5 NA

23.5 NA

The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism

The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism

The early start denver model: Outcomes and moderators of an intervention for toddlers with autism.

The Impact of Parent-Delivered Intervention on Parents of Very Young Children with Autism

64 Estes et al., 2015

64 Estes et al., 2015

279 Sullivan, 2013

**ADOS Severity Score** 

ADOS Severity Score

**ADOS Severity Score** 

ADOS Severity Score

ADOS Severity Score

76.9 Early Start Denver Model

76.9 Early Start Denver Model

76.9 Early Start Denver Model

77.1 Early Start Denver Model

25.2 Mullen Expressive Language Age Equivalent

Language Age E Name of Autism Symptomology Assessment Autism Symptomatology Categorization Percent Male Name of Intervention

75.8 Social ABCs

13.1 ADOS-2 Comparison Score

Interventionist Type Intervention Dosage in Design Type Name of Dependent Variable

ADOS-2 Social Affect Score

Social Communication

Unclear Low Yes

Caregiver

32 lower

17 lower

12.84

-0.1917 0.0649 -0.691 0.3075 yes

-0.4249 0.066 -0.9286 0.0787 yes

-0.0771 0.0646 -0.5753 0.4212 yes

-0.1297 0.0647 -0.6283 0.3689 no

-0.2404 0.065 -0.7403 0.2595 no

-0.2658 0.0652 -0.7661 0.2344 no

0.0768 0.0646 -0.4215 0.575 no -0.1088 0.0647 -0.6072 0.3897 no

-0.2037 0.0649 -0.7031 0.2957 no -0.0722 0.0646 -0.5704 0.4261 no

1.708 0.0881 1.1263 2.2898 no

0.981 0.0723 0.4539 1.5082 no

0.0687 0.0646 -0.4296 0.5669 no

0.2341 0.065 -0.2657 0.7339 no 0.916 0.0714 0.3925 1.4396 no

0.3236 0.0654 -0.1777 0.8249 no

0.3782 0.0657 -0.1243 0.8807 no

0.7572 0.0664 0.2522 1.2621 no

0.8528 0.0675 0.3434 1.3621 no 0.5845 0.0646 0.0862 1.0827 no

0.635 0.0651 0.135 1.135 no

0.5262 0.0641 0.0299 1.0225 no 0.6113 0.0649 0.1122 1.1105 no

0.1949 0.0623 -0.2944 0.6842 no 0.1591 0.0622 -0.3298 0.648 no

0.6983 0.0657 0.1958 1.2007 yes

0.6761 0.0655 0.1745 1.1777 no

0.2696 0.0626 -0.2207 0.7599 no -0.5329 0.0642 -1.0295 -0.0364 yes 0.2381 0.0625 -0.2517 0.728 no 0.0363 0.062 -0.4519 0.5244 no

0.1129 0.0621 -0.3756 0.6015 no

-0.0656 0.1181 -0.7392 0.608 yes

0.6814 0.1249 -0.0113 1.374 yes

0.3541 0.1199 -0.3245 1.0328 no 0.2681 0.1191 -0.4084 0.9445 no

0.1903 0.1186 -0.4847 0.8652 no 0.5778 0.123 -0.1095 1.2651 no

-1.0061 0.1329 -1.7207 -0.2915 no

-0.0615 0.1181 -0.7351 0.612 no

0.2677 0.1191 -0.4088 0.9441 no

0.6133 0.1236 -0.0757 1.3023 no

0.2652 0.1191 -0.4112 0.9416 no

-0.2396 0.1189 -0.9155 0.4362 no

-0.4346 0.1208 -1.1159 0.2468 no

-0.2502 0.119 -0.9263 0.4258 no

0.1002 0.1182 -0.5737 0.774 no

0.7379 0.178 -0.089 1.5648 no 0.7346 0.1779 -0.0921 1.5614 no

 0.5768
 0.1736
 -0.2398
 1.3934 no

 0.604
 0.1743
 -0.2142
 1.4222 no

 0.3905
 0.1698
 -0.4173
 1.1982 yes

 0.3824
 0.1697
 -0.4251
 1.1898 yes

0.1577 0.1672 -0.6437 0.9591 yes 1.0728 0.286594 0.0236 2.1221 no

-0.8305 0.1892 -1.6831 0.0221 yes -0.7746 0.1873 -1.6228 0.0736 yes

-0.9714 0.1948 -1.8364 -0.1065 yes -0.7765 0.1873 -1.6248 0.0719 yes

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