

Appendix 1

*Summary of Formal Assessment Results for Participants*

| Test& Domain                              | Tang (age 15)                |                                  |               | Zong (age 5)                 |                                  |               | Jie (age 6)                  |                                  |                |
|---|------------------------------|----------------------------------|---------------|------------------------------|----------------------------------|---------------|------------------------------|----------------------------------|----------------|
|   | Standard Scores <sup>a</sup> | Percentile/<br>Age<br>Equivalent | Descriptor    | Standard Scores <sup>a</sup> | Percentile/<br>Age<br>Equivalent | Descriptor    | Standard Scores <sup>a</sup> | Percentile/<br>Age<br>Equivalent | Descriptor     |
| ASRS <sup>b</sup> Total                   | 71                           | 98                               | v. elevated   | 79                           | 99                               | v. elevated   | 72                           | 99                               | v. elevated    |
| Social Communication                      | 65                           | 93                               | elevated      | 78                           | 99                               | v. elevated   | 71                           | 98                               | v. elevated    |
| Peer Socialization                        | 69                           | 97                               | elevated      | 85                           | 99                               | v. elevated   | 79                           | 99                               | v. elevated    |
| Adult Socialization                       | 56                           | 73                               | average       | 82                           | 99                               | v. elevated   | 80                           | 99                               | v. elevated    |
| Reciprocity                               | 64                           | 92                               | sl. elevated  | 74                           | 99                               | v. elevated   | 57                           | 76                               | average        |
| Vineland-II <sup>c</sup><br>Communication | 63                           | 1                                | Low           | 69                           | 2                                | low           | 79                           | 8                                | mod. low       |
| Receptive                                 | 7                            | 2.5 years                        | Low           | 10                           | 2.4 years                        | mod. low      | 14                           | 5.5 years                        | adequate       |
| Expressive                                | 8                            | 5.5 years                        | Low           | 8                            | 2.1 years                        | low           | 8                            | 2.5 years                        | low            |
| Written                                   | 9                            | 8.5 years                        | Low           | 12                           | 4.9 years                        | mod. low      | 13                           | 5.8 years                        | adequate       |
| Vineland-II Socialization                 | 67                           | 1                                | Low           | 74                           | 4                                | adequate      | 81                           | 10                               | mod. low       |
| Interpersonal<br>relationships            | 7                            | 3.6 years                        | Low           | 9                            | 1.8 years                        | low           | 13                           | 4.6 years                        | adequate       |
| Play & Leisure Time                       | 10                           | 8.3 years                        | mod. low      | 8                            | 2.1 years                        | low           | 11                           | 3.6 years                        | mod. low       |
| Coping Skills                             | 10                           | 6.5 years                        | mod. low      | 14                           | 4.5 years                        | mod. low      | 11                           | 3.3 years                        | mod. low       |
| SCQ <sup>d</sup> Total                    | 19                           | -                                | > ASD cut-off | 29                           | -                                | > ASD cut-off | 14                           | -                                | at ASD cut-off |

<sup>a</sup>Scores on the ASRS are T-scores, Vineland-II are V-scale Scores; <sup>b</sup>ASRS- Autism Spectrum Rating Scale (Goldstein & Naglieri, 2009); <sup>c</sup>Vineland Adaptive Behavior Scales-II (Sparrow, Balla, & Cicchetti, 2005), <sup>d</sup>SCQ- Social Communication Questionnaire (Rutter, Bailey, & Lord, 2003).

## Appendix 2

### *Operational Behavioral Definitions*

|                                   | Child Behaviors   |
|-----------------------------------|---|
| Ask Questions<br>(Triad A)        | The child asks context-appropriate question and pauses for about 2-3 seconds or long enough for the other person to speak.                                    |
| Spontaneous Comments<br>(Triad A) | The child has spontaneous comment and pause for about 2-3 seconds or long enough for the other person to speak.   |
| Make Requests<br>(Dyad B and C)   | With parent's prompts, the child uses at least one word to make requests verbally (e.g., "I want car." or "Car, please.") or using AAC for the item he wants. |

## Appendix 3

*Average Percent Inter-observer Agreement for Each Behavior*

| Child Behavior          | Triad A                     | Dyad B                  | Dyad C                      |
|-------------------------|-----------------------------|-------------------------|-----------------------------|
| Ask Questions           | 94%<br>(Range = 89-95)      | N/A                     | N/A                         |
| Spontaneous<br>Comments | 88%<br>(Range = 83-<br>100) | N/A                     | N/A                         |
| Request<br>Making       | N/A                         | 94%<br>(Range = 89-100) | 99%<br>(Range = 94-<br>100) |

**Appendix 4. Percentage of Sessions for Data Collection and IOA on Procedural Integrity**

|                               | Triad A | Dyad B | Dyad C |
|-------------------------------|---------|--------|--------|
| % of Sessions in Baseline     | 33%     | 20%    | 29%    |
| % of Sessions in Intervention | 23%     | 23%    | 25%    |
| % of Sessions in Maintenance  | 50%     | 50%    | 50%    |

*Note.* The procedural integrity and the average IOA on procedural integrity was 100%.