**Supplementary Table 2.** Domain scores of the K-ADI-R verbal algorithm by age

|                      | ASD Mean (SD) | Non-ASD Mean (SD) | Total Mean (SD) | t | p-value |
|----------------------|---------------|-------------------|-----------------|---|---------|
| Below 48 months (verbal) | (N=56; 43%)    | (N=75; 57%)       | (N=131)         |   |         |
| Algorithm A          | 13.00 (4.13)  | 3.29 (3.21)       | 7.48 (6.03)     | 15.20*** | <0.001 |
| A1                   | 2.61 (1.24)   | 0.47 (0.83)       | 1.39 (1.48)     | 11.33*** | <0.001 |
| A2                   | 2.63 (1.21)   | 0.95 (1.06)       | 1.67 (1.40)     | 8.51***  | <0.001 |
| A3                   | 3.26 (1.32)   | 0.84 (0.95)       | 1.89 (1.64)     | 11.78*** | <0.001 |
| A4                   | 4.49 (1.82)   | 1.04 (1.27)       | 2.53 (2.30)     | 12.22*** | <0.001 |
| Algorithm B          | 12.35 (4.49)  | 2.19 (2.44)       | 6.58 (6.13)     | 15.45*** | <0.001 |
| B1                   | 4.00 (2.25)   | 0.51 (1.03)       | 2.02 (2.41)     | 10.88*** | <0.001 |
| B2                   | 2.39 (1.33)   | 0.36 (0.78)       | 1.23 (1.46)     | 10.22*** | <0.001 |
| B3                   | 2.37 (1.50)   | 0.43 (0.81)       | 1.27 (1.50)     | 8.87***  | <0.001 |
| B4                   | 3.60 (1.33)   | 0.89 (1.02)       | 2.06 (1.78)     | 13.19*** | <0.001 |
| Algorithm C          | 4.96 (2.80)   | 0.80 (1.08)       | 2.60 (2.88)     | 10.64*** | <0.001 |
| C1                   | 1.84 (1.28)   | 0.23 (0.56)       | 0.92 (1.23)     | 8.91***  | <0.001 |
| C2                   | 1.23 (1.28)   | 0.28 (0.63)       | 0.69 (1.07)     | 5.14***  | <0.001 |
| C3                   | 0.63 (0.79)   | 0.07 (0.30)       | 0.31 (0.63)     | 5.10***  | <0.001 |
| C4                   | 1.26 (0.79)   | 0.23 (0.45)       | 0.67 (0.81)     | 8.85***  | <0.001 |
| Algorithm D          | 2.86 (1.08)   | 0.41 (0.88)       | 1.47 (1.55)     | 14.43*** | <0.001 |

|                      | ASD Mean (SD) | Non-ASD Mean (SD) | Total Mean (SD) | t | p-value |
|----------------------|---------------|-------------------|-----------------|---|---------|
| 48 months and over (verbal) | (N=450; 61%)  | (N=283; 39%)      | (N=733)         |   |         |
| Algorithm A          | 21.28 (5.88)  | 2.27 (3.04)       | 13.94 (10.52)   | 57.50*** | <0.001 |
| A1                   | 4.00 (1.67)   | 0.17 (0.48)       | 2.52 (2.30)     | 45.72*** | <0.001 |
| A2                   | 6.51 (1.68)   | 0.93 (1.36)       | 4.35 (3.14)     | 49.23*** | <0.001 |
| A3                   | 4.64 (1.58)   | 0.64 (1.09)       | 3.09 (2.41)     | 40.52*** | <0.001 |
| A4                   | 6.14 (2.21)   | 0.53 (0.92)       | 3.97 (3.29)     | 47.68*** | <0.001 |
| Algorithm B          | 16.35 (4.71)  | 1.62 (2.28)       | 10.66 (8.19)    | 56.55*** | <0.001 |
| B1                   | 4.90 (2.58)   | 0.23 (0.72)       | 3.10 (3.08)     | 36.27*** | <0.001 |
| B2                   | 3.54 (0.85)   | 0.33 (0.79)       | 2.30 (1.77)     | 52.23*** | <0.001 |
| B3                   | 3.01 (1.73)   | 0.23 (0.59)       | 1.94 (1.95)     | 31.32*** | <0.001 |
| B4                   | 4.90 (1.39)   | 0.83 (1.16)       | 3.33 (2.37)     | 42.64*** | <0.001 |
| Algorithm C          | 5.80 (2.72)   | 0.55 (1.05)       | 3.77 (3.39)     | 36.87*** | <0.001 |
| C1                   | 2.35 (1.21)   | 0.24 (0.62)       | 1.53 (1.45)     | 30.99*** | <0.001 |
| C2                   | 1.38 (1.35)   | 0.08 (0.35)       | 0.88 (1.25)     | 19.41*** | <0.001 |
| C3                   | 0.68 (0.88)   | 0.01 (0.08)       | 0.42 (0.77)     | 16.22*** | <0.001 |
| C4                   | 1.39 (0.77)   | 0.23 (0.49)       | 0.94 (0.88)     | 24.99*** | <0.001 |
| Algorithm D          | 3.50 (1.24)   | 0.23 (0.73)       | 2.23 (1.92)     | 45.06*** | <0.001 |

* ***p<0.001, †t-test. ASD: Autism spectrum disorder, Algorithm A: Social Interaction, A1: Failure to use nonverbal behaviors to regulate social interaction, A2: Failure to develop peer relationships, A3: Lack of shared enjoyment, A4: Lack of socioemotional reciprocity, Algorithm B: Communication, B1: Lack of or delay in spoken language and failure to compensate through gesture, B2: Relative failure to initiate or sustain conversational interchange, B3: Stereotyped, repetitive, or idiosyncratic speech, B4: Lack of varied spontaneous make-believe or social imitative play, Algorithm C: Restricted, Repetitive, and Stereotyped Patterns of Behavior, C1: Encompassing preoccupation or circumscribed pattern of interest, C2: Apparently compulsive adherence to nonfunctional routines or rituals, C3: Stereotyped and repetitive motor mannerism, C4: Preoccupation with parts of objects or nonfunctional elements of material, Algorithm D: Abnormality of development before 36 months.