

Overview of the 37 ADI-R items from the ADI-R Algorithm that were used to calculate the 12 ADI-R sum scores. The item factor loadings are presented in parentheses.

Qualitative impairments in reciprocal social interaction (S)

Sum score: Failure to use nonverbal behaviours to regulate social interaction (S1)

- Direct gaze (.42)
- Social smiling (.39)
- Range of facial expressions used to communicate (.37)

Sum score: Failure to develop peer relationships (S2)

- Imaginative play with peers (.69)
- Interest in children (.66)
- Response to other children's approaches (.66)
- Group play with peers (.69)
- Friends (.30)

Sum score: Lack of shared enjoyment (S3)

- Showing and directing attention (.38)
- Offering to share (.32)
- Seeking to share own enjoyment with others (.44)

Sum score: Lack of socio-emotional reciprocity (S4)

- Offers comfort (.42)
- Use of other's body to communicate (.30)
- Quality of social overtures (.36)
- Inappropriate facial expression (.34)
- Appropriateness of social responses (.35)

Qualitative impairments in communication (C)

Sum score: Lack of, or delay in, spoken language and failure to compensate through gesture (C1)

- Pointing to express interest (.34)
- Conventional instrumental gestures (.34)
- Nodding (.33)
- Headshaking (.30)

Sum score: Lack of varied spontaneous make-believe or social imitative play (C2)

- Spontaneous imitation of actions (.56)
- Imaginative play (.59)
- Imitative social play (.65)

Sum score: Relative failure to initiate or sustain conversational interchange (C3)

- Reciprocal conversation (.34)
- Social chat (.35)

Sum score: Stereotyped, repetitive or idiosyncratic speech (C4)

- Stereotyped utterances (.38)
- Inappropriate questions (.41)
- Pronominal reversal (.34)
- Neologisms/idiosyncratic language (.41)

Repetitive behaviours and stereotyped patterns (R)

Sum score: Encompassing preoccupation or circumscribed pattern of interest (*R1*)

- Circumscribed interests (.34)
- Unusual preoccupations (.34)

Sum score: Apparently compulsive adherences to non-functional routines or rituals (*R2*)

- Verbal rituals (.41)
- Compulsions/rituals (.34)

Sum score: Stereotyped and repetitive motor mannerisms (*R3*)

- Hand and finger mannerisms (.43)
- Complex mannerisms (.43)

Sum score: Preoccupations with part-objects or non-functional elements of materials (*R4*)

- Repetitive use of objects (.32)
- Unusual sensory interests (.34)