

## What demographic and clinical measures were collected at LEAP timepoint 1?

### Clinical Information

- Participant group  
*1 = Typically developing; 2 = Autism; 3 = ID-control; 4 = ID-Autistic*
- Diagnostic status  
*1 = Control (groups 1 & 3); 2 = Autism (groups 2 & 4)*
- Narrow autism definition (ADOS/ADI cut-off)  
*0 = No; 1 = Yes; 777 = Missing/N/A*
- Data collection site (key withheld for confidentiality)
- Initial enrolment schedule  
*Adults, Adolescents, Children, Low IQ*
- Adjusted schedule after IQ/age assessment  
*(Preferred for analyses)*
- Sex at birth  
*-1 = Female; 1 = Male*
- Native language status  
*0 = Non-native; 1 = Native*
- Age in days and years.

### IQ information

- **Preferred Variables for Analysis:**
  - Verbal IQ
  - Non-verbal IQ
  - Full-scale IQ

Raw and T-scores for subtests: Block Design, Vocabulary, Matrix Reasoning, Visual Puzzles, Picture Completion, Similarities

### Medication Use

- **Global Indicator:**
  - Psychoactive medication use
- **Medication Classes (if med\_use = Yes):**
  - Antidepressants (SSRI, TCA, TECA)
  - Antiepileptics
  - Antimigraine preparations
  - Antipsychotics (e.g., Aripiprazole, Clozapine)
  - Anxiolytics

- Hypnotics and sedatives (e.g., Melatonin)
- Psychostimulants for ADHD (e.g., Atomoxetine, Methylphenidate)

## Demographics

- **Ethnicity:** Parent-reported (Asian, Black, White, Mixed, Other)
- **Parental Education:** Mother & Father (Primary → Postgraduate)
- **Handedness:**
  - Categorical (Left, Ambidextrous, Right)
  - Continuous score (+500 to -500)

## Autism Diagnostic Instruments

- **ADI-R:**
  - Social domain total
  - Communication domain total
  - Restricted & Repetitive Behaviours total
- **ADOS-2:**
  - Calibrated Severity Scores (CSS): Social Affect, RRB, Total
  - Imputed CSS for missing data
  - Combined CSS recommended for analyses

## Dimensional Autistic Trait Measures

- **Social Responsiveness Scale-2 (SRS-2):**
  - T-scores and raw scores (parent, self, combined)
- **CSBQ / ASBQ:**
  - Total scores (parent and self-report)
- **Autism Quotient (AQ):**
  - Child, Adolescent, Adult versions
- **Repetitive Behaviors Scale-Revised (RBS-R):**
  - Total score
- **Short Sensory Profile (SSP):**
  - Subscales (Tactile, Taste/Smell, Movement, Auditory Filtering, etc.)
  - Total score and pro-rated scores

## Associated Neurodevelopmental/Psychiatric traits

- **ADHD Rating Scale:**
  - Inattentiveness (parent/self-report)
  - Hyperactivity/Impulsivity (parent/self-report)
  - DSM-5 ADHD categorical indicator (0 = No; 1 = Yes)
- **Beck Anxiety Inventory:**
  - Multiple versions for adult/adolescent/child schedules (raw scores and T-scores)
- **Beck Depression Inventory:**
  - Multiple versions for adult/adolescent/child schedules (raw scores and T-scores)

## DAWBA (Development and Well-Being Assessment)

- Domains: Depression, ADHD, Anxiety (pooled), Behavioural Disorder, Internalising, Externalising

- Scores: Ordinal bands (0–5)
- **Combined/Overall output** recommended for analyses (multi-informant algorithm)

### **Strengths & Difficulties Questionnaire (SDQ)**

- Total Difficulties Score (sum of Emotional, Conduct, Hyperactivity, Peer Problems)
- Subscales: Emotional, Conduct, Hyperactivity, Peer Problems, Prosocial, Impact
- Composite scores: Internalising (Emotional + Peer), Externalising (Conduct + Hyperactivity)

### **Adaptive Functioning – Vineland-II**

- Communication Domain Standard Score
- Daily Living Domain Standard Score
- Socialisation Domain Standard Score
- Adaptive Behaviour Composite (ABC) Standard Score

## **What clinical measures were collected at LEAP timepoint 2?**

### **Basic Demographic Information**

- Participant group
- Diagnostic status
- Native language status  
*0 = Non-native; 1 = Native*
- Parent-reported ethnicity  
*Asian, Black, White, Mixed, Other, Decline, Don't know*
- Parental education  
*Primary, Secondary (GCSE/A-levels), Tertiary (Undergrad/Postgrad), Not known*
- Handedness category  
*Left, Ambidextrous, Right, Missing*
- Continuous handedness score  
*Range: -500 (left) to +500 (right)*

### **Clinical Information**

- Data collection site (key withheld for confidentiality)
- Age/IQ group  
*Adults, Adolescents, Children, Low IQ*
- Sex at birth  
*-1 = Female; 1 = Male*
- Age in days/years

- Reason for non-participation

### **IQ Information**

- IQ test type (e.g., WASI2, WAIS4)
- Subtest raw and T-scores:  
*Block Design, Vocabulary, Matrix Reasoning, Visual Puzzles, Picture Completion, Similarities*

### **Medication use**

- Psychoactive medication use  
*0 = No; 1 = Yes; 2 = Other; 3 = Unknown*
- Medication categories (e.g., Antidepressants, Antipsychotics, ADHD meds)

### **Autism diagnostic instrument: ADOS-2**

- Calibrated Severity Score (CSS) total
- Social Affect CSS
- Restricted/Repetitive Behaviours CSS

### **Dimensional Autistic Trait Measures**

- **SRS-2:** Social Responsiveness Scale  
*T-scores and raw scores (parent/self/combined)*
- **RBS-R:** Repetitive Behaviors Scale
- **CRI:** Childhood Routines Inventory
- **SSP:** Short Sensory Profile (subscales + total)
- **SEQ:** Sensory Experiences Questionnaire

### **Measures of Associated Neurodevelopmental/Psychiatric traits**

- **ADHD Rating Scale (Parent-report)**
  - Inattentiveness subscale
  - Hyperactivity/Impulsivity subscale
- **Strengths & Difficulties Questionnaire (SDQ) – Parent-report**
  - Total Difficulties Score (sum of emotional, conduct, hyperactivity, peer problems)

### **Measures of Adaptive Functioning – Vineland-II**

- Communication Domain Standard Score
- Daily Living Domain Standard Score
- Socialisation Domain Standard Score
- Adaptive Behavior Composite (ABC) Standard Score