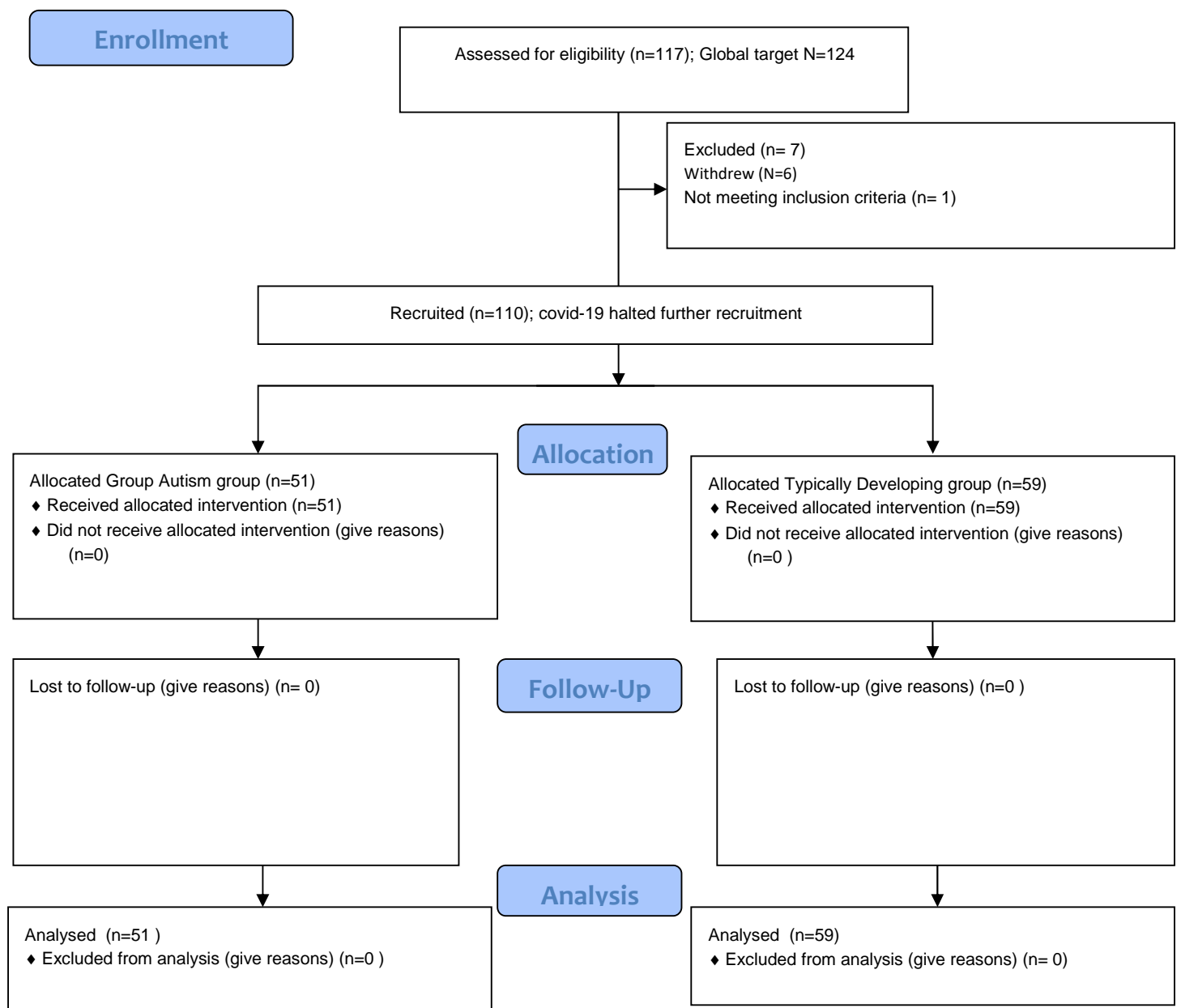## Can the Pirates game be used to help assess children with possible autism?

Participant Flow:

Figure 2 CONSORT Flow Diagram of Enrolment to Analysis

CONSORT 2010 Flow Diagram

Enrollment

Assessed for eligibility (n=117); Global target N=124

Excluded (n= 7)
Withdrew (N=6)
Not meeting inclusion criteria (n= 1)

Recruited (n=110); covid-19 halted further recruitment

Allocation

Allocated Group Autism group (n=51)
♦ Received allocated intervention (n=51)
♦ Did not receive allocated intervention (give reasons) (n=0)

Allocated Typically Developing group (n=59)
♦ Received allocated intervention (n=59)
♦ Did not receive allocated intervention (give reasons) (n=0)

Follow-Up

Lost to follow-up (give reasons) (n= 0)

Lost to follow-up (give reasons) (n=0)

Analysis

Analysed (n=51)
♦ Excluded from analysis (give reasons) (n=0)

Analysed (n=59)
♦ Excluded from analysis (give reasons) (n= 0)

Baseline Characteristics: A tabular summary showing baseline demographic (age and gender) and clinical characteristics of the participants.

Baseline Characteristics	Number in sample (%)	Neurotypical participants (% of group)	Clinical participants (Autism) (% of group)
Boys (Aged 5 -12 Years)	68 (62%)	28 (47%)	40 (78%)
Girls (Aged 5 -12 Years)	42 (38%)	31 (53%)	11 (21%)
Total sample	110 (100%)	59(53%)	51(46%)

Outcome Measures: A tabular summary of the outcome measures listed in the ISRCTN record. Please ensure to list your primary outcome measures in a tabular format and provide your secondary outcome measures in a separate table if available.

Participant group	Mean score on software*
All Clinical participants (Autism) (% of group)	35**
Neurotypical participants (% of group)	31**
Clinical participants 4-7 years	37**
Neurotypical participants 4-7 years	32**
Clinical participants 8-12 years	34**
Neurotypical participants 8-12 years	31**

*Cutoff score for children aged 4-7 was 34 (where 6 errors were made in answering questions), whereas cut off for ages 8–12 was set at 33 (5 errors)

** Significant difference below $p = 0.0001$ between both groups

Using these cut off scores, sensitivity was over 70% and specificity 80%+ for the software in detection of Autism.

Adverse Events: There were no adverse events associated with this trial.