Aims Attendance to hospital for children and young people with complex medical needs and autism can be frightening and stressful, due to the unfamiliar setting and unknown people, communication difficulties and sensory overload. Currently at our Trust, there are no specific resources for this patient group, and we have received informal and formal feedback that the needs of these young people and their families are not being met. We aim to improve the experiences of children and young people with complex medical needs and autism at our Trust by creating a new patient pathway, involving children and families early to drive change.

Methods We designed a focus group for parents of children with complex medical needs and autism. We identified families from the neurology clinic, and wrote to them to explain the project and our aims and to invite them to take part in the focus group. We followed this up with a phone call to discuss the project further and to answer their questions. The focus group took place in September 2021.

Results Five parents and one grandparent attended the focus group. Between them, they had experience of emergency hospital attendances, inpatient admissions, outpatient appointments, paediatric intensive care, multiple investigations and care across multiple sites in the UK and abroad. Their children attended both mainstream and special schools. There was a wide range of complexity of need, and input from health, school, therapies and social care. The range of experience made for a highly insightful and interesting discussion.

Positive feedback was received for the neurology consultant, epilepsy clinical nurse specialist, play specialists and hospital school team, with a particular focus on parents knowing who to contact when they needed advice and support.

Key areas for change identified included more privacy for adolescents, a leaflet detailing what to expect during an admission, sensory toys, a patient passport and iPads for the emergency department. Families also commented that speech and language therapy input would have been helpful.

Conclusion Patients and families have a much greater insight into the challenges faced than professionals, and their input is the most valuable tool to drive change. Relationships between patients and professionals have a huge impact on experience of care. We will continue to work with families in order to bring about meaningful and impactful change.

THE IDS-2: A NEW MEASURE OF MOTOR PERFORMANCE FOR CHILDREN AND ADULTS

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Aims The Intelligence and Development Scales – 2nd Edition (IDS-2) is a broad developmental assessment containing 30 subtests across six Domains: Intelligence, Executive Functions, Psychomotor skills, Social-emotional skills, Scholastic skills, and Motivation and Attitude. The IDS-2 is used worldwide by health and education professionals. It has recently been adapted and translated into English, with the collection of UK norms for 5;0 to 20;11-year-olds. The Psychomotor skills Domain of the IDS-2 measures gross motor, fine motor and visual motor skills. Gross motor skills are assessed only in 5;0 to10;11-year-olds; fine motor and visual motor skills are assessed at all ages. Standardised tests of psychomotor performance are an important component of neurodevelopmental assessment and in particular for a diagnostic assessment for motor difficulties, including Developmental Coordination Disorder (DCD). This presentation describes the content of the IDS-2 Psychomotor skills tasks and examines aspects of reliability and validity of this new tool.

Methods Trained assessors collected data on the IDS-2 from 1367 individuals (48% male) aged 5;0 to 20;11 years across the UK. The UK standardisation data was used to assess internal consistency for fine motor and visual motor skills, as each of these contain a number of similar tasks. In a separate sub-study test-retest reliability was assessed for gross motor skills, re-testing 49 children (63% male, aged 5;1–10;9) after a mean interval of 16 days. Concurrent validity was examined by comparison of performance on the Movement ABC-2nd Edition (MABC-2). Firstly, a parent/carer of 100 children aged 5;4–15;8 from the UK standardisation sample completed the MABC-2 Checklist. Total Checklist scores were categorised as indicating ‘no movement difficulty’ or ‘highly likely to have a movement difficulty’. The IDS-2 Psychomotor skills scores were then compared for these two groups. Secondly, the performance of 50 children (aged 6;2 to10;11) on the IDS-2 Psychomotor Domain was compared with their performance on the MABC-2 Test. Finally, differential validity was examined by comparing the performance of 25 children (aged 6;2 to10;11) previously diagnosed with DCD to an age and gender-matched typically developing group.

Results Reliability coefficients for the total Psychomotor skills Domain were .78 and .88 for 5–10 and 11–20 years respectively (.66–.89 for fine motor and visual motor subtests). Test-retest reliability was .89 for gross motor skills in 5 to10-year-olds. Concurrent validity with the MABC-2 was supported by (1) statistically significant differences between the two Checklist groups in all three of the IDS-2 subtests and (2) significant correlations between scores (.78, p<.001 for total scores) on the IDS-2 Psychomotor skills Domain and the MABC-2 Test in a group of 50 children. Differential validity was supported, with significantly poorer gross motor, fine motor and visual
motor scores for 25 children with DCD compared to the typically developing group.

**Conclusion** The Psychomotor skills Domain of the new IDS-2 will be a useful addition to the toolkit of assessors working with children and young adults with DCD. The battery also offers a means of assessment across broader domains including Intelligence, Executive Functions and General Development.

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**Abstract 871**

**INFLUENCE OF SCREEN TIME ON SLEEP IN CHILDREN WITH AUTISM SPECTRUM DISORDER IN URBAN POPULATION**

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**Aims** To assess the influence of screen time on sleep in children with Autism Spectrum Disorder in urban population.

**Methods** A cross-sectional study was conducted in a tertiary care hospital in the southern part of India. The study was carried out on children aged between 2-5 years who were diagnosed with autism spectrum disorder by ‘DSM-5 criteria’ and ‘INCLEN Diagnostic Tool for Autism Spectrum Disorder’. After taking informed consent, the demographic details were entered in the proforma. The caregivers completed two sets of questionnaires viz. the Sleep Disturbance Score in Children [1] and the Digital Screen Exposure Questionnaire [2]. The data were entered into a Microsoft Excel worksheet and was analyzed using SPSS 22 version software.

**Results** A total of 63 children were recruited into the study. The median age is 3 years. The mean minutes per day of screen time exposure was 220.60 minutes. Over 60 minutes per day of screen time was reported by 57 children (90.5%). Children having screen time exposure >60 minutes were significantly associated with sleep disturbances with higher SDSC scores (P <0.05). Among them, the disorder of initiating and maintaining sleep was significant (P<0.05) which is represented in a chart in figure 1. The most common media used among children with ASD was mobile phones (68.25%), with YouTube being the favourite content. Children who had less than 60 minutes of screen time were more likely to engage in physical activity in contrast to those who spent more than 60 minutes in front of the screen. Children who spent more than 60 minutes in front of a screen were more likely to have sleep disturbances, with the disorder of initiating and maintaining sleep being the most prevalent. All the results are tabulated in figure 2.

**Conclusion** Studies in the past have shown sleep disturbances among children with ASD but increased screen time is significantly associated with sleep disturbances among children with ASD. Therefore, introducing and maintaining behavioural management of sleep hygiene, as well as limiting screen time, could help children with ASD initiate and maintain sleep.

**REFERENCES**


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**Abstract 923**

**NEW ITEM DEVELOPMENT IN A MEASURE OF EARLY PERSONAL, SOCIAL AND EMOTIONAL SKILLS**

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**Aims** The early years have long been identified as a critical time in a child’s development. For children with developmental delay and disorders, early identification is essential to improved outcomes and quality of life. Clinicians are challenged as to how to accurately assess the strengths and needs of children with developmental delay.

A comprehensive developmental assessment looks at the different core areas of development and maps a child’s performance compared with children of the same age.

This paper looks at the process of identifying and delineating test items in the performance measurement of child’s early personal, social and emotional development from birth to six years.

**Methods** The latest revision of the Griffiths Scales involved a phased process resulting in the release of the Griffiths III in 2016. Initial work in devising test items included reviewing the rationale and development of the original test (1), subsequent revisions (2,3) literature review on the recent research in the area, and a review of other tests that include early childhood development.