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Epilepsy quality improvement programme

***RCPCH EO**

Aim: Achieve a full, quality and interpretable routine EEG recording in 95% of all children and young

people for whom an EEG is requested, within 4 weeks of referral, by May 2020

Background: Many of the children and young people (CYP) referred for EEGs present with intellectual disability (ID), autism spectrum disorder (ASD) and / or anxiety. The recording of full, quality EEGs in this cohort can be challenging for all involved. By improving the preparation and experience of this group of CYP and their families, we hope to improve the quality of the recorded EEG to optimise the accuracy of epilepsy diagnosis within our service.

Additionally, by reducing our EEG waiting list time from 6 to 4 weeks, we aim to see CYP in a timely manner in line with NICE guidance (NICE CG137, 1.6.3).

Our improvement journey – the steps we took





Driver Diagram



How did you diagnose the issue? (pareto, flowchart)



Your tests of change

PDSA 1 Breach date reduced from 6 weeks to 4 weeks

PDSA 2 Families / carers of CYP with ID / ASD / anxiety receive a phone call the day before attending for an EEG. This allows a 'heads-up' and answers any queries or anxieties from the CYP / family / carer

PDSA 3 Feedback questionnaires issued post EEG. These allow CYP and families to reflect on the experience, helping to shape the service to better meet the needs of CYP with ID / ASD / anxiety

PDSA 4 Addendum added to CYP leaflet signposting useful links - 'Having an EEG'

Qualitative Feedback from Families / Colleagues



Bright Spots / Challenges

Bright spots

- Great feedback from families about increased flexibility to tailor the EEG investigation use of melatonin, pre-visit play-dates, non-uniform for staff etc.
- Rewarding, collaborative links now formed to enable future dialogue and multidisciplinary working
- Sharing of challenges and ideas
- Inspiration for other QI ongoing within the team: further information and resources for young
 people in our teenage epilepsy clinic; 'ready-steady-go' transition support; virtual consultation and
 phone triage of children and young people with a first seizure during Covid-19 pandemic.

Challenges

- Time constraints to contact families / carers pre-EEG
- Follow-up call if a CYP had been distressed / struggled with the EEG did not happen.
- Project was EEG appointment based which paused during Covid-19 pandemic.

Team personal learning / next steps

Personal learning

 We had two, rather than one, improvement objectives. This meant that the good work in improving the quality of EEGs was masked by increases in our waiting times (Graph 3 Outcome Data)

Next steps

- Plan for a service user forum to explore further ways of meeting the needs of CYP attending for EEG.
 We currently have five offers of involvement. Increased familiarity with and availability of online group video conferencing may increase the numbers able to participate.
- Plan for interim amateur phone-video, with future charitable funds application for official Trust department video

