

RCPCH Epilepsy Quality Improvement Programme

October 2022 – May 2023

Mental health and neurodisability support

Hampshire Hospitals NHS Foundation Trust

RCPCH Epilepsy Quality Improvement Programme project team:

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Epilepsy12 national audit results are not yet included within this case study until the publication of cohort 5 in September 2024.

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Project aim: To improve our knowledge about the wider needs of 10 patients with epilepsy under the care of the BNHH paediatric epilepsy team by April 2023.

Background:

The team supports a multidisciplinary epilepsy service comprising epilepsy paediatricians with epilepsy and paediatric neurology/neurodevelopmental expertise, epilepsy nurse specialists, and highly skilled clinical psychologist. The service works within an integrated child health department, including neonatal, general, community/paediatric neurodisability services, medical, and nursing teams, including special school nursing. Children and young people with epilepsy have a significantly increased risk of developing emotional, learning, mental health, and behavioural difficulties compared to their peers and other children with chronic health conditions.

Outreach is available for joint paediatric neurology clinics from their tertiary centre in Southampton who have the skills to identify, evaluate, support, or signpost to CAMHS additional mental health needs and neurodevelopmental conditions such as LD or ASD. The CHECC (Child and Young Person Epilepsy Concerns Checklist) was developed with input from parents, epilepsy charities, and professionals, including paediatric neurologists, neuropsychiatrists, psychologists, epilepsy nurse and general and neurodisability paediatricians. Three different versions of the checklist were created (parent/carer, education, and young person versions).

Different questions were included in each version. All checklists had a specific space to set their top three goals. Checklists were received from education professionals for 41 patients. CHECC aims to facilitate information sharing between education and epilepsy services to identify concerns relating to epilepsy, neurodevelopment, and mental health. It also allows professionals to confirm support that is in place, such as special educational needs provision. CHECC also serves to highlight areas that require further evaluation, such as intellectual (learning) disability (LD), autism spectrum disorder (ASD), attention deficit hyperactivity disorder (ADHD), and developmental coordination disorder (DCD).

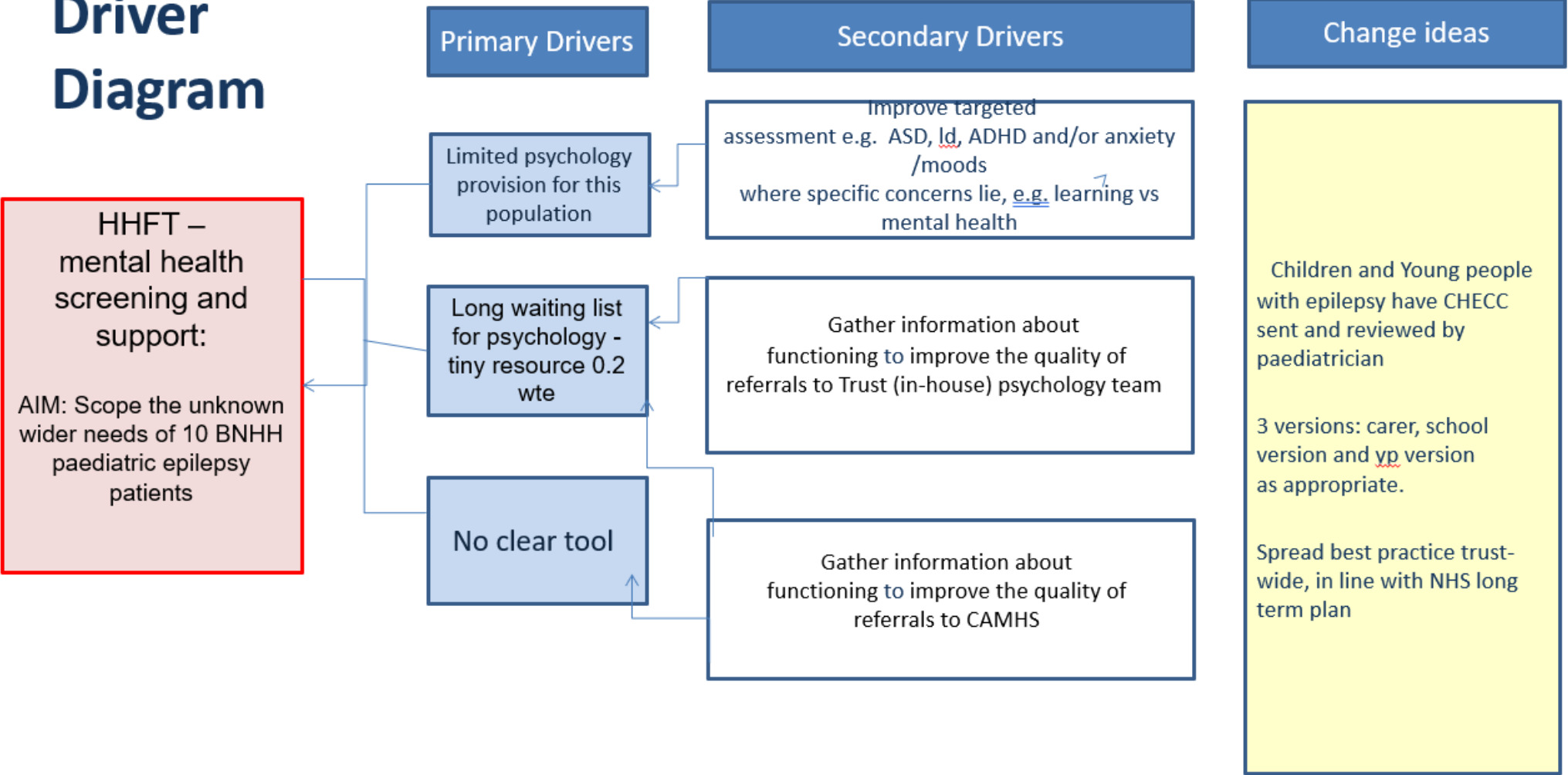
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Area of focus:

- This project was chosen to develop Hampshire Hospitals (HHFT) epilepsy service across two DGH hospital sites because the Trust has a different service provided, i.e., different historical funding patterns. Royal Hampshire County Hospital (RHCH) had begun trailing the use of this measure to help provide better care to our epilepsy patients. In Royal Hampshire County Hospital (RHCH), they have some psychology input (0.2 wte) for the assessment of children with epilepsy (including cognitive assessments); Basingstoke and North Hampshire Hospital (BNHH) do not.
- There are regular epilepsy service meetings with HHFT where the enhanced service is discussed at RHCH, and it was decided as a team that it was important to begin to replicate the work being done at RHCH at BNHH. In response to the Epilepsy 12 audit results, the service team planned enhanced service by introducing an epilepsy nurse to HHFT for BNHH in 2019 to capture the needs of Basingstoke and North Hampshire Hospital children and young people with epilepsy whose needs were unknown or uncaptured.

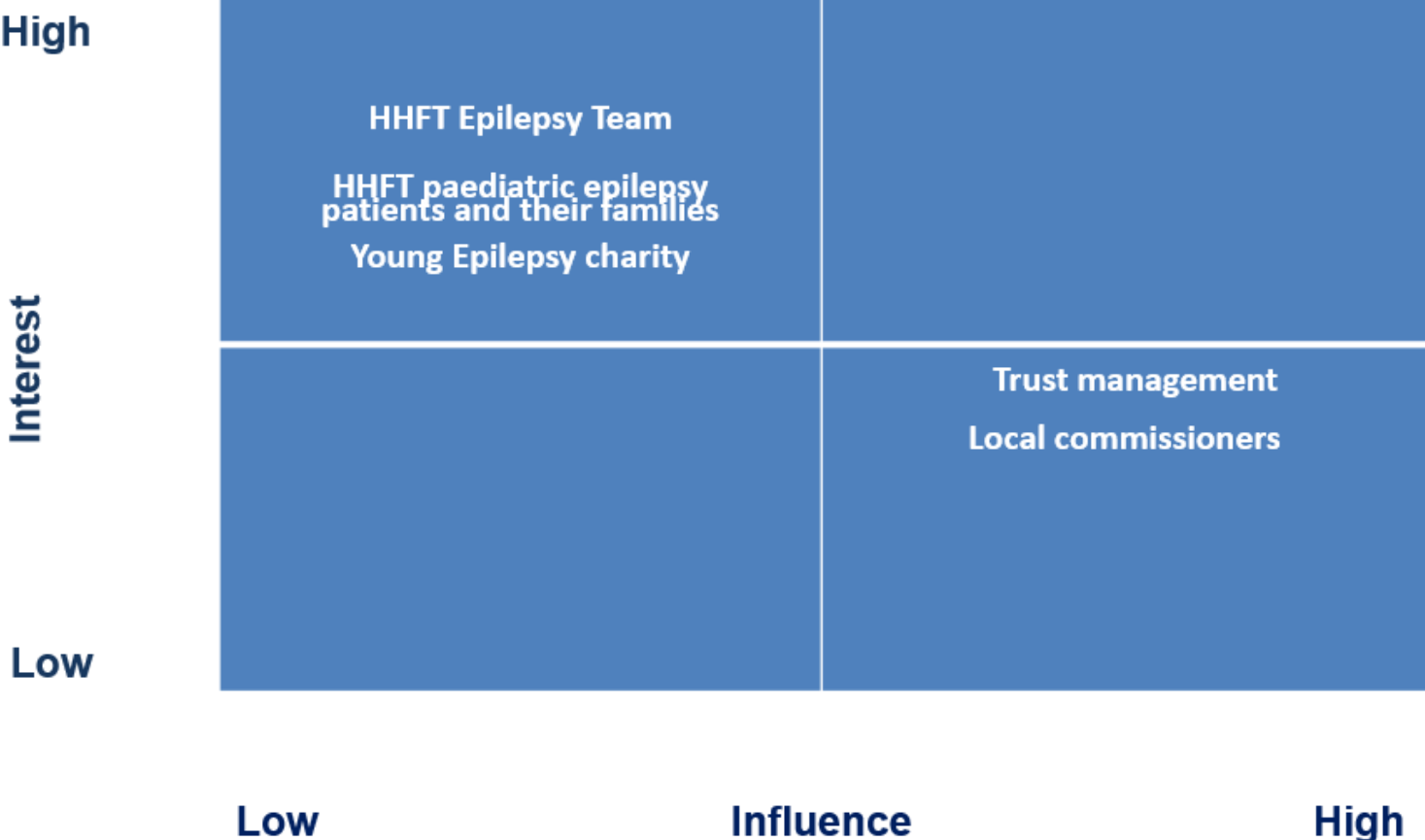
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Driver Diagram



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Stakeholder Map



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First site: RHCH early testing CHECC developer

AREA OF CONCERN	Of 41 children (school completed)	Percentage
Emotion or behaviour concerns	20	49%
Social interaction and/or communication concerns	25	61%
Attention and concentration	32	78%
SEN	16	39%
Difficulties with Core learning skills	29	71%
Concerns with overall cognitive skills	22	53%
Cognitive assessment would be useful	8	20%
Significant impact rated 6/8	10	24%

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Changes:

- The project aim was to implement the same processes they have been using to run their clinics in Winchester, within the Basingstoke hospital site. Patients from both epilepsy services are seen by Trust psychological services within two pathway streams. The first pathway is for patients who need support with psychological distress and are referred to general paediatric psychology. The second pathway is for patients that have complex needs and have more difficulties in terms of learning or neurodevelopmental difficulties and are referred to the Trusts neuro-disability consultant twice a month, where children are jointly seen together.
- The care provided includes follow-up assessments, monitoring of medications, and physical check-ups. The pathways within Basingstoke do not exist in the same format for their patients.
- The psychology team discusses the referrals with the consultant who has completed the form with the family, then appropriately refers the child to the psychology service for support, where they would decide on the best pathway to address the needs of the patient.
- The team has decided to test a questionnaire on ten children, which will work as a screening tool to determine the patients that should be referred for therapeutic support or those that require advance support from CAMHS due to complex needs that go beyond the remit of the psychology team.
- Currently, this project has been a single-person pilot where all data has been collated from one hospital site. The purpose of joining the EQIP was to spread from one clinician to the whole epilepsy team at a different hospital site.
- It has been difficult for the cross-site team to engage children and young people in collating feedback on or sending back the questionnaire; therefore, the team has liaised with the epilepsy charity Young Epilepsy to support them in this task. Young Epilepsy will create a working group with their children and young people in the epilepsy cohort.
- Examples of what the cross-site team has learned about their project since joining the EQIP include getting a better sense of how many children within their service need additional support and the ability to scope out who these children are and what are their needs.

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Changes:

- A business case has been submitted to their commissioners that includes documentation on the needs of this group of children and how much more psychology time is required to support them.
- Additionally, the tool has provided more involvement from schools and highlighted important information on issues that would not have necessarily been uncovered, providing a more holistic approach to the care of the child rather than just being focused on the medical. Experiencing a broader perspective of the child and the dynamics within the family as well as in the school.

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Methods:

- The CHECC measure was developed with input from parents, epilepsy charities, and professionals, including paediatric neurologists, neuropsychiatrists, psychologists, epilepsy nurse, general and neurodisability paediatricians.
- Three different versions of the checklist were created (parent/carer, education, and young person version).
- Different questions were included in each version. All checklists had a specific space to set their top three goals.

Data from Round 1

- **Pilot in BNHH:** CHECC forms were sent to the families of 21 patients. School/nursery, parents' version, and self-report versions.
- **Outcome:** Forms received regarding 12 patients, a 57% response rate.
- **Respondents:**
 - 30% from parents
 - 40% from schools
 - 30% from young people
- Despite people presenting in clinic with concerns, contacting them "cold" with a form to complete did not provide the desired information sought; therefore, this did not work. In the original RHCH pilot, the form was mentioned in a clinic, which received a much better response - 41 patients responded.
- Abandoned sending the tool cold in the post without explanation and changed to emailing the form and then following up, which led to a more proactive response.

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- Feedback received from patients and families suggested sending the form before the clinic would be most beneficial.
- Other responses were to digitalise the CHECC tool - next step via Young Epilepsy.
- Ideally, the team would like the CHECC tool to be integrated with the Trust EPR - electronic patient record - to allow paediatricians to review before the clinic or while they are there.

Results:

- The team engaged a variety of sources in this project, namely, parents and the Young Epilepsy charity, which liaised with their connected group of young people. Additionally, the team was also exploring the development of the tool as an app to appeal to young people in place of the paper form. This will take place within the next stage of the project in connection with the Young Epilepsy charity.
- At the end of each checklist, the team captured feedback on using this measure in clinic, asking questions such as whether this 6-page form was too long, too short, or about right. There were a wide range of responses, which confirmed to the team that the length of the form was satisfactory to be used given the spread of responses.
- Other feedback that was helpful was the raised concerns both schools and some families reported.
- All of the 12 respondents who gave feedback on the education CHECC,
 - indicated that it was potentially helpful.
 - 2 were unclear – though this was an earlier version of the checklist.
- After seeking families and schools's views on the measure, the questions were revised.

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Data results of second round of questionnaire feedback captured

Area of Concern	% Identified this as area of concern
Mood/Mental health/Behavioural issues	75%
ASD/Social interaction	80%
ADHD Symptoms	80%
School difficulties	70%
Accessing additional SEND support at school	45%
Epilepsy having significant impact	75%
Accessing additional psychology or counselling support, NHS, charity or private	30%
Attending SEND school or SEND provision	10%

- 75% of returned questionnaires showed having epilepsy was perceived as having a significant impact on their life
- George et al. (2021) PAVES study quoted 56% increased risk- Selected families were chosen to send the CHECC form

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Challenges:

- The team's hospital pressures increased due to winter pressures, so capacity was low in terms of staff resources, which meant being unable to meet regularly as a team. This made it very difficult to bring together the whole team to make a team effort.
- Working as a cross-site team had its challenges with finding a way to effectively communicate together as a team.
- The team experienced a lack of patient feedback at the beginning of the project to fill in the questionnaire used as a screening tool. The team had distributed the questionnaires via postal methods. 10 families have been sent the questionnaire, and one had provided a response.
- The main issue with mental health and neurodevelopmental assessments is that they are very time-consuming, and there's a lengthy waiting list.
- The team experienced difficulties with school involvement and often feedback they had not received it.
- The lack of administration to support the team in evaluating the questionnaire results had also been a challenge.
- Initial attempts to capture data were completely unsuccessful.
- The team member's timelines didn't work out, e.g. having trainee support.
- It was difficult to implement change within the teams that wanted more understanding of the patient group.

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Outcomes:

- Achieved the project aim and scoped the wider needs of 12 children and young people.
- Paediatricians will have information to draw on to discuss with the family at the next appointment, including information from education, which previously would not have been available.
- This pilot study and recent data indicate that CHECC is an efficient and effective way of enabling education providers to highlight any broader concerns to the epilepsy team, without the need for multiple screening tools.
- The team aims to develop the project further by creating SPREAD with online versions of each checklist.

Lessons learnt

- What the team would have done differently:
 - Brought more epilepsy-focused admin staff in sooner.
 - Financially, the business case is not yet supported, wanting more psychology and SLT-ASD assessment.
- The team has learned about the challenges of changing practice for clinicians, particularly at times when it has been a great challenge. Trust is under increasing financial scrutiny.
- The usefulness of having one form to send people to capture concerns.
- Beginning to scope the size of the unmet need within their Trust, where two Trusts became one, but years later there's still huge differences in service provision.
- In the process of harmonising service delivery across both hospital teams and sites, but still more improvement is needed.

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Hampshire Hospitals epilepsy Padlet

Padlet

Melissa Founleyby • Time

Epilepsy

Information for parents and carers of children and young people with Epilepsy

- Family Support**
 - contact.org.uk: Contact - for families with disabled children
 - nhs.uk: What is PALS (Patient Advice and Liaison Service)?
 - newlifecharity.co.uk: Free helpline
 - turn2us.org.uk: Turn2us - Fighting UK Poverty
 - hampshirehealthyfamilies.org.uk: Hampshire Healthy Families Portal
- Safety & Monitoring**
 - Young Epilepsy: Night time safety equipment
 - epilepsy.org.uk: Information about devices
 - StackPath: Sleep Safety
 - esuk.uk.com: Epilepsy Stacks UK
 - esuk.uk.com: What we do - Anti-suffocation pillow discount or charity funded
 - esuk.uk.com: Pillow Information
 - sudep.org: SUDEP
 - sudep.org: SUDEP Action
 - sudep.org: Support for SUDEP
- Independent Living**
 - epilepsyspace.org.uk: Epilepsy space for 16-25 including wellbeing, independent living, relationships
 - epilepsyspace.org.uk: Home - The Epilepsy Space
 - mercip.org.uk: A useful website for young people with Learning Difficulties
 - mercip.org.uk: Sexuality and relationships
- Emotions, Mental Health and Wellbeing**
 - childline.org.uk: Childline | Childline
 - childline.org.uk: Support for children and young people online or by phoning 0800 1111
 - themix.org.uk: The Mix
 - themix.org.uk: Get Support - The Mix
 - themix.org.uk: A charity supporting young people/young adults online or by phoning 0808 808 4994
 - rcpch.ac.uk: Mental Health Support Diary
 - rcpch.ac.uk: Royal College of Paediatrics and Child Health
 - rcpch.ac.uk: Stay at home activities for children and young people
 - rcpch.ac.uk: Emoji Heart Game
 - rcpch.ac.uk: Royal College of Paediatrics and Child Health
 - rcpch.ac.uk: Emoji card game
 - rcpch.ac.uk: A resource from the Young People Engagement Team
- Epilepsy Information**
 - youngepilepsy.org.uk: Epilepsy and Learning
 - youngepilepsy.org.uk: Children with epilepsy and their learning | Epilepsy in children | Living with epilepsy | About epilepsy
 - widtracingcomplexity.org.uk: Epilepsy within wider Neuro-developmental Disorders
 - widtracingcomplexity.org.uk: Embracing Complexity
 - epilepsy.org.uk: Education and Epilepsy
 - epilepsy.org.uk: Support for Schools
- Epilepsy Booklet**
- Resources for Professionals**
 - neurosymptoms.org: Neurosymptoms.org
 - neurosymptoms.org: CHECC School/Nursery
 - neurosymptoms.org: CHECC - Parents/Carers
 - neurosymptoms.org: CHECC Young Person

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