P117 HBA1C MONITORING IN PATIENTS WITH CYSTIC FIBROSIS RELATED DIABETES (CFRD) DURING COVID 19 PANDEMIC

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Introduction Cystic fibrosis (CF) affects the pancreas, particularly the β -cells, leading to cystic fibrosis-related diabetes (CFRD) due to insulin deficiency. There is a lack of UK national guidance on how often HbA1C should be monitored. American Diabetes Association (ADA) recommends HbA1c should be monitored quarterly for patients with CFRD.¹ For most patients with CFRD, the HbA1C treatment goal is <7% to reduce the risk of microvascular complications.¹

We analysed clinical data for all patients with CFRD under Bristol Adult Cystic Fibrosis Centre (BACFC) over 2 years to review HbA1C monitoring in patients with CFRD.

Objectives Review if HbA1C is measured quarterly.

Review if HbA1C target range is achieved.

Methods 83 cases with known CFRD were included. Retrospective data was collected from CF database and ICE, recorded on excel spread sheet with patient identifiers coded and audited against ADA position statement.

Results HbA1C value of <7% (<53mmol/mol) was considered as optimal control. In 2019, 16% (N=13/83) had HbA1C measured 3 times a year which dropped to 10% (N=8/83) in 2020. In 2019, 46.98% (N=39/83) had HbA1C checked once a year whereas in 2020 this number was 38.55% (N=32/83). In 2019, 50% (N=42/83) had optimal HbA1C control; the number dropped to 42% (N=35/83) in 2020. Almost half of the patients i.e. 51.8% (N=43/83) and 49.3% (N=41/83) were seen by diabetes team in 2019 and 2020 respectively.

CONCLUSION A small number of our patients had HbA1C checked quarterly and almost half of them had their HbA1C in the target range. Adherence to ADA guidance was reduced during the COVID-19 pandemic in 2020, due to shielding and reduced face to face clinics. Almost half of the patients were seen by diabetes team and this number was not changed in 2020, although the reviews were not face to face. Action plan devised to improve service and develop a local guideline.

Developing a national guideline for CFRD monitoring should be considered, taking in to account newer technologies for diabetes monitoring.

Abstract P117 Table 1

S. No	Standard/Criteria	Results
1	HbA1C measurement is recommended quarterly for patients with CFRD	10%(8/83)
2	For most patients with CFRD, the A1C treatment goal is <7% to reduce the risk of microvascular complications	42%(35/83)

REFERENCE

1. A Position statement of the American Diabetes Association and a Clinical practice guideline of the Cystic Fibrosis Foundation.

P118 THE ROLE OF PAEDIATRIC RESPIRATORY NURSE SPECIALIST IN MANAGEMENT OF NON-CF BRONCHIECTASIS

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Background BTS 2010 bronchiectasis guideline recommends multidisciplinary care. Nurses play a vital role in bronchiectasis management. In paediatric bronchiectasis, the role of paediatric respiratory nurse specialist (RNS) is understated in literature. An informal survey asking 287 health professionals who were members of a national group showed no dedicated bronchiectasis RNS in any UK region. In 2019, RNS was allocated to take a more active role to support the paediatric bronchiectasis multi-disciplinary team (MDT), education and transition (0.6 WTE) at our centre.

Objective To appraise the current RNS role at a specialist paediatric bronchiectasis centre.

Method Prospective review of RNS role and time spent in bronchiectasis management over a 12 month period.

Results 93 CT-diagnosed bronchiectasis patients (M43:F50) with a median age of 10.05 (range:3.6–16.5) years were cared for during that time. 136 hours were spent by the RNS in supporting children and young people and families with bronchiectasis. Over 12 months, the services provided by RNS included:

- Attendance to monthly MDT clinics (4hours per clinic) to provided support, education, and advice.
- Telephonic reviews and advice (4hours)
- Admission avoidance following remote RNS input=7 patients
- 2 patients identified suitable for home IV programme were supported (out of 9 needing IV's)
- 35 hours were spent on service development including database setup and entry.

Conclusion The RNS can support children and young people with emphasis on education, promoting adherence, remote reviews during exacerbations leading to reduced admissions, development of home treatment programmes and support transition. Nurse-led outpatient clinics can facilitate annual reviews and education. Future work involves a more formal survey to review the paediatric bronchiectasis nurses services within the UK, to develop such clinics further and a network approach with the district hospitals in West Midlands and evaluating the feedback from the families.

REFERENCE

1. British Thoracic Society guideline for non-CF bronchiectasis. *Thorax*, 2010;**65**:1–58.

P119 BREATHING PATTERN DYSFUNCTION IN PRIMARY CILIARY DYSKINESIA: MYTH OR REALITY?

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Background Breathing pattern dysfunction (BPD) is common in patients with obstructive lung disease, e.g., over 50% of patients with severe asthma show evidence of BPD. BPD is also known to affect quality of Life (QoL). Despite disparities