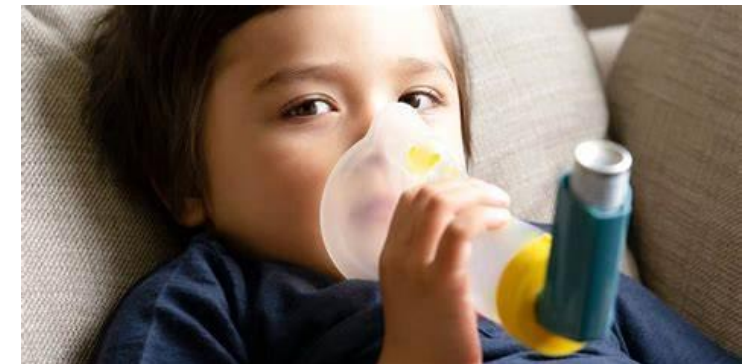




Breath of Fresh Air

Samantha Davies
Deputy Head of Physiotherapy
SBUHB



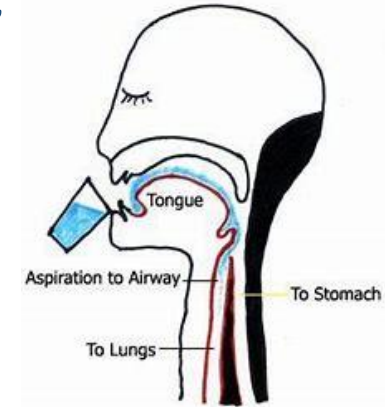
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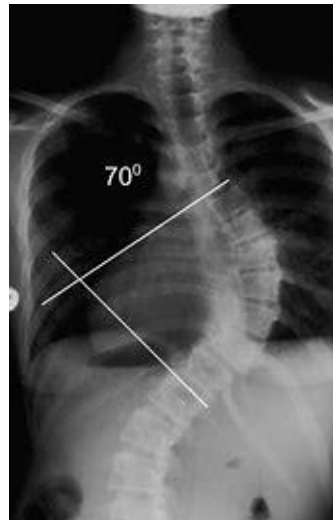
Children and Young People with Cerebral Palsy



- Respiratory pathology - reduced quality of life, increased morbidity and mortality rates
- Severe disability and complex needs:
- Dysphagia
- Gastro-oesophageal reflux
- Scoliosis
- Restrictive lung disease
- Abnormal muscle structure and tone - respiratory secretions clearance
- Risk of recurrent chest infections



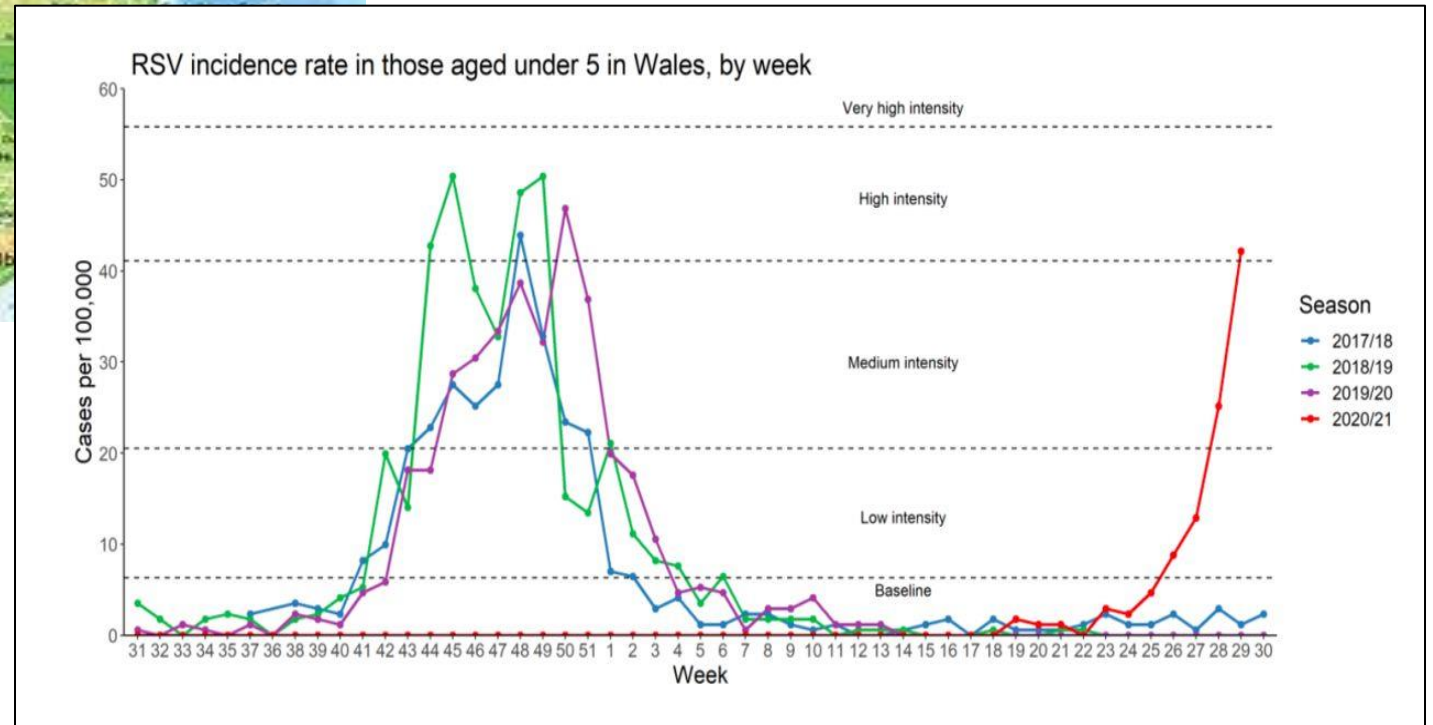
(Seddon et al 2003; Winfield et al 2014)



RSV Surge Predictions 2021-22



- SBUHB fixed-term funding 8-month Paediatric Respiratory Physiotherapy Outreach-In Reach Rapid-response service
- 1.0WTE B7 Specialist Physiotherapist
- Monday-Friday 08:30-16:30hrs



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Priority - Patient Safety

Aim

Based upon population health strategies, the project aimed to deliver 'Cost-effective/ Prudent/ Innovative/ Sustainable healthcare'

Objectives

- Reduce unplanned/emergency access to A&E, Paediatric Assessment Unit and Children's wards
- Reduce hospital admissions to Children's wards for children age 5-16
- Reduce length of hospital stay via early supported discharge
- Educate and upskill parents/carers/education staff in respiratory management - underpinning national drivers
- Improve quality of life (QoL) for CYP – reducing number of chest infections, less antibiotic use/targeted antibiotic use
- Improve parental/carer QoL – to empower parents/carers to manage their CYP's respiratory health, to reduce anxiety by having options to escalate concerns
- Evaluate the impact of the service, including cost-benefit, social-benefit and sustainability
- To influence future service provision using an evidenced-based approach
- Establish scale and spread if successful

Welsh Government and local HB drivers



- **One system of care** - care closer to home
 - **Right care, right place** – innovative solutions to maximise outcomes
 - **Prioritisation** – reduce harm
 - **Building resilience** – self management, upskilling workforce
- SBUHB Recovery & Sustainability Plan 2022-25



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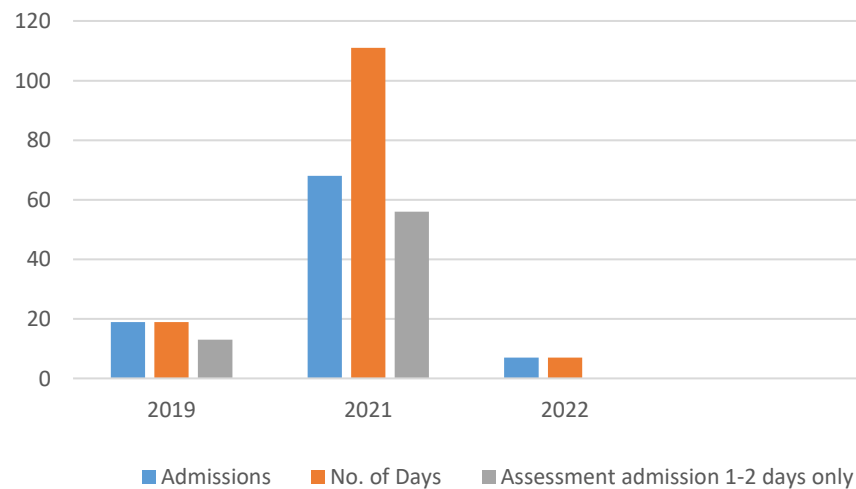
Service areas

IN-REACH (Acute)	OUTREACH (Community)
<p>Morriston</p> <ul style="list-style-type: none"> • Children's wards (M Ward & Oakwood) • PAU • A&E 	<p>Singleton (Hafan y Mor) & Neath Port Talbot Children's Centre</p> <ul style="list-style-type: none"> • Domiciliary • Education settings: <ul style="list-style-type: none"> - Mainstream Schools - Special Schools - Nursery settings
<ul style="list-style-type: none"> • Liaison with acute medical and physio team pre-admission • Respiratory assessment (Ax) - compare to baseline Ax • Escalation of physiotherapy programme as warranted • Liaison with Tertiary Service AHPs and Consultants • Liaison with community-based physios for continuity of care 	<ul style="list-style-type: none"> • Baseline respiratory assessment (Ax) • Home respiratory physiotherapy programme • Teaching programme for parents • Teaching programme for school staff – competency-based • Communication with professionals in primary, secondary and tertiary setting • Establishment of pharmacological processes (nebulisers) • MDT coordination – 3rd sector (Ty Hafan, CP Cymru)

Outcomes – comparison to 2019 and 2021



Admissions 2019/2021/2022



PROMs – improved

- Sleep
- Voice projection
- Alertness
- Feeding
- Empowerment
- Understanding

PREMs – improved

- Communication with tertiary centre
- Holistic care
- Increased trust in MDT working
- Medication regimen – upon admission and prophylactic
- Reduced anxiety

Financial Outcomes



16 admissions were prevented, plus an additional 55 bed days saved compared to 2021 data

6 admissions prevented; 5 bed days saved compared to 2019 data

Average of **14 bed days saved per annum** for assessment-only admissions lasting 1-2 days each

Savings - minimum of **£28,350** in just 8-months

Next steps:

- Acquire permanent funding for an outreach service in SBUHB
- Spread and scale the project across Wales
- Development of digital technology (Telehealth) – forecasting/ prophylactic intervention
- Collaboration with Swansea or Cardiff University to research impact of DNase on lung function and infection rates for children with Cerebral Palsy

Advancing Healthcare Awards Wales 2022



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Thank you for listening

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