

Establishing a Drive Through Respiratory Service

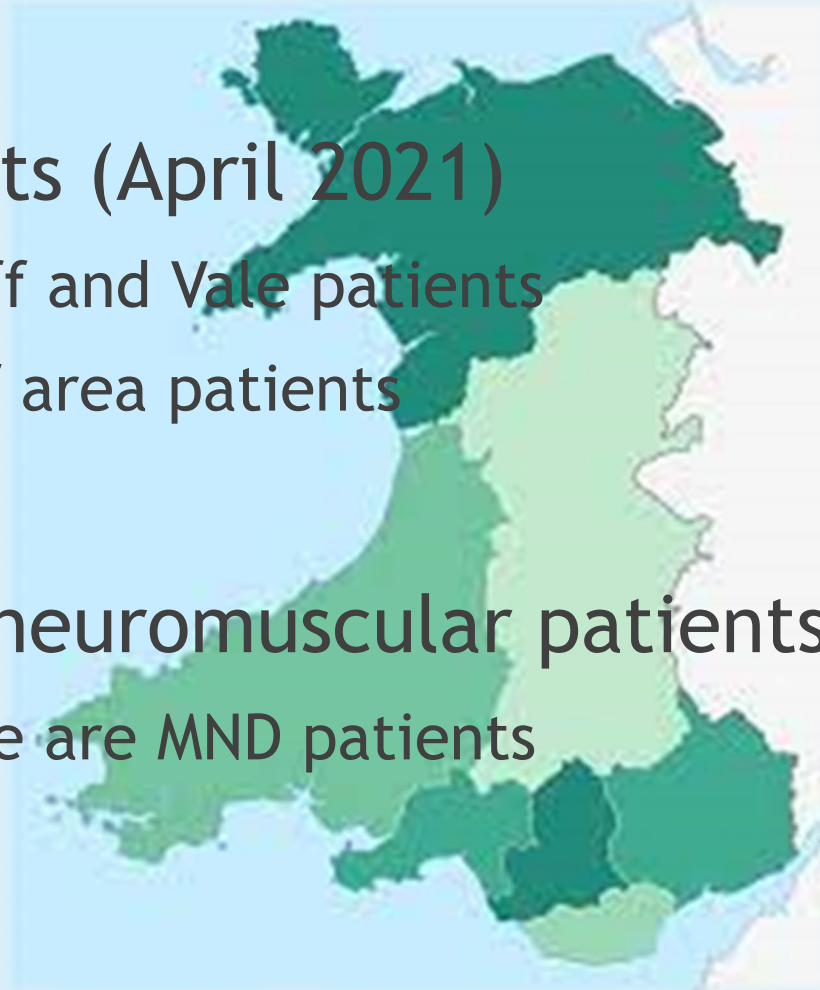


Home Ventilation Team
Cardiff and Vale UHB

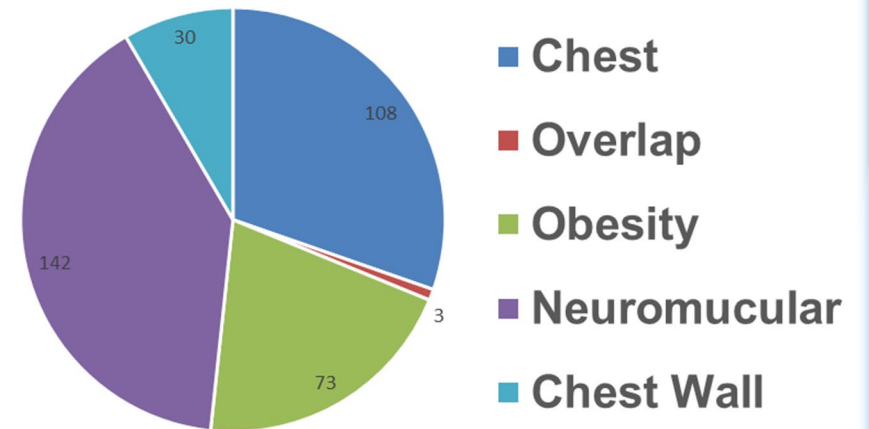
Alice Richards and Donna Akers

The Home Ventilation Team (HVT) Service

- ▶ 356 patients (April 2021)
 - 78% Cardiff and Vale patients
 - 22% out of area patients
- ▶ 142 (40%) neuromuscular patients
 - 46 of these are MND patients



Patient distribution according to disease



- ▶ Assess, monitor and treat ventilatory failure
 - Non-invasive ventilation
 - Cough augmentation

- ▶ Team consists of:
 - 4.88 WTE Respiratory CNSs
 - 1.26 WTE Specialist Physiotherapists

Respiratory care of the MND patient (NG42 1.12, 1.13, 1.14)

- ▶ Assess and monitor respiratory signs and symptoms
- ▶ Baseline of respiratory function and cough effectiveness, then review every 2-3 months
- ▶ Specialist respiratory review
- ▶ Treatment options

Aids prediction of survival and quality of life

Regular monitoring will help decisions about management in a timely way (e.g. PEG, NIV)

COVID-19 Pandemic March 2020

Concerns over environmental contamination and airborne transmission

- ▶ Outpatient clinics stopped
- ▶ Home visits discouraged
- ▶ Patients did not want to see us (scared)



➡ Phone and Virtual reviews
BUT this did not provide effective treatment

Patient satisfaction survey June 2020

- ▶ Concerns with out-patient clinics:
 - Parking
 - Waiting to be seen
- ▶ In light of the pandemic, 95% of patients wanted to review how their consultations were carried out

But ALL patients perceived benefits to in-person face to face consultations

Establishing a Drive Through Service

- ▶ Purchased a tent and a trolley
- ▶ Found a spot and cleared it with car parking and estates
- ▶ Standard operating procedure
- ▶ Risk assessment
- ▶ Directions and appointment slots managed by the HVT



What can be performed in the Drive Through Service

- Signs and symptoms
- Respiratory function tests: Capillary blood gases
SpO₂
SNIP (sniff nasal inspiratory pressure)
- Ventilator reviews (if not on a remote modem system)
- Interface reviews
- Oxygen assessment
- Information dissemination
- Patient and carer support



The Positives of the Drive Through Service

- ▶ No need to find a car parking space
- ▶ No need for the patient to walk
- ▶ Improved communication
- ▶ Improved concordance with guidelines (e.g. NG42)
- ▶ Safer from a COVID perspective (reduced environmental contamination and airborne transmission)



The Challenges of the Drive Through Service

- ▶ Not private (dignity)
- ▶ No electricity supply
- ▶ Cold and wet at times (affects the patients, staff and equipment)
- ▶ Aerosol generating procedures currently cannot be performed (e.g. CPF)



The Future

- ▶ Repeat the satisfaction survey
- ▶ Gather data on time and outpatient space saved
- ▶ Continue with the Drive Through Service (COVID safe for scheduled care)
- ▶ Source funding for a permanent structure



Thank you to the Home Ventilation Team for the dedication and care they give to the patients, and each other

"I'm so small," said
the mole.



"Yes," said
the boy.

"but you
make a huge
difference."

The Boy, the mole, the fox and the Horse. Author Charlie Mackesy