



Digital Pathways for the Management of Cardio-respiratory Conditions and Covid-19



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Long term conditions management and Covid virtual wards

Community-based remote monitoring pathway for patients with chronic conditions and Covid 19 using digital technology

Need

- Protect clinically vulnerable by reducing clinics and home visits
- Reduce unplanned hospital admissions
- Support patients with Covid 19 on discharge in the community
- Alternative rehabilitation delivery methods required

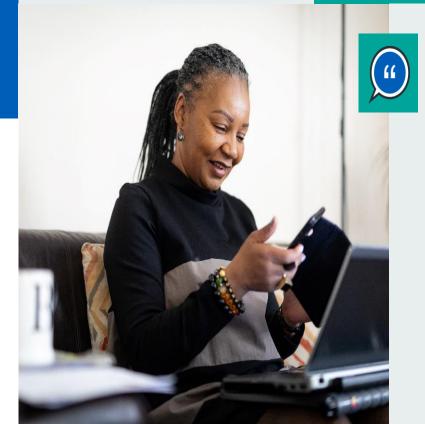
Approach

- Rapidly responded to the needs of 'the system'
- New and innovative way of providing care
- Personalised patient support
- Patients cared for safely in their own homes



Safety

- New pathways of care were provided quickly and safely
- Robust and rapid clinical governance across organisations
- Clear reduction in readmissions (C19)



I feel more able to manage my condition as I've learnt what's normal for me as I have recorded my data.

Patient feedback

Phase 1 - Heart failure and COPD patients (first established spring 2020)

Phase 2 - Digital rehabilitation for heart failure and COPD patients (summer 2020)

Phase 3 - COVID-19 virtual wards for supporting hospital discharges or 'step down' (autumn 2020)

Phase 4 – Virtual ward for supported hospital discharges extended to include patients on weaning doses of oxygen. (January 2021)

How it works for our patients



Set up

Patients are given personalised support to set up and use the technologies, including a patient user guide, a demo session as part of their hospital discharge, telephone and video calls and even socially-distanced, face-to-face training at home if more help is needed.



Alert

Parameters for individual patients based on their baseline data informs an algorithm in the system which automatically flags patients who may be at risk or who are deteriorating using a red, amber, green health status.



Monitor

A management plan is discussed and agreed with the patient and they submit answers to a set of questions and take vital measurements relating to their condition. They upload this data which feeds through in real-time to the platform's central dashboard.



Intervene

A multidisciplinary team, made up of clinicians, nurses and physiotherapists, then work together to diagnose and treat the problem and prevent an unplanned hospital admission wherever possible.

Impact

216



COVID-19 patients have been discharged with remote monitoring at home after a hospital admission with only ten people being readmitted to hospital during their 14-day monitoring period

28

Oxygen weaning patients have accessed the COVID-19 virtual ward

1000

Patients have been supported across the four digital pathways



Patients optimised and supported via the COPD or heart failure pathways

50+

Patients with heart failure and respiratory conditions have been supported so far through the digital rehab pathway



Data Outcomes

- 216 patients referred
- 28 for oxygen weaning

- Currently 8 active patients
- 10 hospital readmissions
- 1 death (in hospital)

Readmission rate: 4.6%

Average GH C19 wards: 9%

- 188 patients discharged after 14-days
- 20 patients discharged before 14-days

Reduction in readmission rate by 50%



What our patients said...

"The patient feels well and thanked me for all the support received over the last 2 weeks which has reduced his anxiety around his illness. He feels the service he has received has been excellent"

Feedback from C19 virtual ward patient discharge phone call

95% of patients felt fully support via the digital rehab program

88% of patients found it very easy to follow and complete the digital rehab program

Feedback from digital rehab patient satisfaction questionnaire

Thanks for getting me well. I came in needing a lot of oxygen. With the care, dedication and support of the team I was able to leave 8 days later, and have continued to improve. Thank you for setting up the "remote monitoring app". It gives confidence you are still being monitored

Written patient feedback



Embedding digital pathways and the future

- Continuing work with NHSX on national digital agenda
- Contributing to C19 oximetry at home national research study with UCL
- Submitted article on C19 virtual ward to BMJ Innovation journal
- Participating in system wide virtual ward board how can what we have learnt be shared with other services/ care pathways?
- Involving patients to develop a 'system' commissioned virtual ward for cardiorespiratory conditions and Covid-19
- Enhancing the digital rehabilitation offer to support the system need for additional 'system' Covid-19 rehabilitation







Questions



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