COMMUNITY ACUTE RESPIRATORY EXCELLENCE (CARE) VIRTUAL WARD
BETTER TOGETHER FOR DIGITAL HEALTHCARE 2023

Ireland's evolving digital healthcare landscape has created an ideal environment that enabled

the Respiratory Integrated Team in Co Donegal

to develop a Virtual Ward funded by Sláintecare Integration Innovation Fund

Antoinette Doherty Advanced Nurse Practitioner Friday 1st December 2023

Exacerbating Chronic Obstructive Pulmonary Disease (COPD) is defined as acute worsening of respiratory symptoms that result in additional therapy including inpatients care

Hospital based COPD expenditure is in the region of 90 million euro nationally based on HIPE data 2022

COPD is among the leading causes of chronic morbidity and mortality in the European Union with an estimated annual economic burden of €25.1 billion

LETTERKENNY UNIVERSITY HOSPITAL (LUH)

LUH has the highest national readmission rate within a month of discharge for COPD at 28.7%

Creating pressure on bed availability & Emergency Department

CARE Virtual Ward

- Is a 20 bedded Virtual Ward went live 2 weeks ago on world COPD day

- Feed back to date from patient has been 100% positive

- The ward has a funded as a managed service model this means all onboarding and upskilling of the patient in respect of the technology is delivered by an external provider

- The respiratory integrated care team are responsible for all clinical assessment, planning and implementation of patient care

- This virtual ward can provides an indicator of respiratory compromise and/ or deterioration in real time using novel monitoring technology in a healthcare platform that supports clinical decision-making

DEVELOPING CARE VIRTUAL WARD FOR PATIENTS WITH COPD

The patient journey continued to be hospital centric with many individuals having multiple admissions

It was decided that a virtual ward could offer a solution in respect of unmet needs within the system

COPD Out reach was limited due to Geography
The virtual ward could offer equity county wide

The patient has been at the centre of this collaborative design process

An Integrated digital platform was designed specifically for this project

CHALLENGE STATEMENT

Our Challenge Statement helped frame our implementation plan

"How might we **empower people** with exacerbating COPD become a **partner** in the management of their **health** and ensure that they receive the right care at the right time as **close to home as possible**".

The following obstacles were over come in the planning phase

DESIGN A BESPOKE INTEGRATED DIGITAL PLATFORM THAT PROVIDES RESPIRATORY RATE TRENDS IN REAL TIME

DEVELOP AN INTEGRATED MULTIMEDIA PATIENT EDUCATION APP

THAT WILL ASSIST AND EMPOWER INDIVIDUALS TO ACHIEVE HIGHER LEVELS OF SELF-MANAGEMENT

1. HOW TO MANAGE OBJECTIVE AND SUBJECTIVE DATA IN REAL TIME

2. WHEN TO SAFELY ACTIVATE RESCUE SCRIPT

3. HOW TO PROVIDE UNSCHEDULED CARE

AS A TEAM WITHIN THE COUNTY

Care and the Patient

CARE Virtual Ward will safely monitor the patient and support them manage their COPD

Also by Empowering patients to increasing their Confidence to become a partner in their health

Daily at the safety huddle objective and subjective data will be reviewed and suitable treatment plan implement

Four different Cohorts of patients will be onboarded to CARE Virtual ward

Cohort one individuals with two admissions of more at LUH

Cohort two supported discharge from ED/MAU or LUH

Cohort Three GP referral individuals with multiple Presentations

Cohort four any readmission. to CARE Virtual Ward

CARE VIRTUAL WARD MONITORING INFORMATION

Respiratory rate (RR) is one of the most important physiologic measures
For predicting patients' deterioration **in addition oxygen saturation and pulse rate will also be monitored and patient will be required to complete a daily symptom assessment.**

If escalation of care is required before or after the <u>Daily safety huddle</u> the following will occur a team member will log a phone call, video call, home visit by integrated team and or the community paramedic to further assess and plan care.

**Ward is monitored Monday/ Friday except public holiday 08.00-16.00 usual service applies after these times Average length of stay 14 days
Help line 08.00- 17.00 daily as outlined above**

CARE Virtual Ward Rescue Script

A COPD rescue pack refers to a short course of steroids and antibiotics issued in advance, for a person with COPD to keep at home and use as part of their acute exacerbation plan this requires close monitoring to maintain patient safety

The future looks bright for COPD Care What we expect

Early detection of an infection with respiratory rate trend should resulted in a reduced level of exacerbation and health care costs

Individuals with COPD will demonstrate better understanding of the signs of an exacerbation

These factors will improve the individuals health and quality of life

CARE Virtual ward will offers a much needed alternate care pathway Reducing readmission to ED / GP presentations & admissions

THANKS FOR LISTENING ITS BEEN A PLEASURE BETTER TOGETHER FOR DIGITAL HEALTHCARE 2023

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