

A new model for continuous care of chronic patients - eCare and eLearning for patients with chronic obstructive pulmonary disease (COPD)

Submission date 14/11/2008	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 23/12/2008	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 07/12/2012	Condition category Respiratory	☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
07/WMW01/53

Study information

Scientific Title

Acronym

Better Breathing

Study objectives

Are home electronic monitoring and electronic learning resources feasible and safe for patients with moderate to severe chronic obstructive pulmonary disease (COPD)?

Ethics approval required

Old ethics approval format

Ethics approval(s)

Carmarthenshire LREC gave approval on the 29th October 2007

Primary study design

Interventional

Study design

Randomised controlled trial

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Chronic obstructive pulmonary disease (COPD)

Interventions

Patients will be randomised into two groups, to either receive standard care or to receive six months telehealth support (doc@HOME), which is an integrated solution for the remote health management of patients with long term conditions and consists of a robust, handheld data collection unit which connects through a standard telephone line at the patient's home to a secure server. doc@HOME is designed to ensure that care follows the patient providing access from anywhere at anytime. Patients will be able to:

1. Complete a system integrated patient tailored questionnaire regarding respiratory status and upload daily
2. Automated daily uploading of physiological measurements obtained from a pulse oximeter and digital thermometer
3. Receive feedback through the system in the form of text/email-like messages between the patient and clinician in response to uploads that can either be automated or targeted according to the review of information received

All patients will be required to fill in a series of questionnaires (St George's Respiratory Questionnaire, the Hospital Anxiety and Depression Score questionnaire and the ED-5Q questionnaire) to assess health status and quality of life at five timepoints: baseline, 1 month, 6 months, 7 months and 12 months. Together, these take about 30 minutes to complete. These will be delivered in face-to-face interviews by a member of the Chronic Disease Management Team.

The first six months of the study will be the active intervention in which half of the sample will receive the telehealth support, after which there will be six months of passive intervention in order to assess changes in general health status and quality of life.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Are home electronic monitoring and electronic learning resources feasible and safe for patients with moderate to severe Chronic Obstructive Pulmonary Disease (COPD)? Measured at baseline, 1 month and 6 months only.

Key secondary outcome(s)

1. Does home telemedicine reduce respiratory hospital admissions?
2. Does home telemedicine reduce community specialist team visits?
3. Does home telemedicine improve quality of life and mood?
4. Is home telemedicine cost-effective?

Measured at all timepoints throughout the trial.

Completion date

01/03/2009

Eligibility**Key inclusion criteria**

Participants (no gender/age specification) will be recruited for the study from the Prince Phillip and West Wales General Hospital Pulmonary Rehabilitation Scheme. The standard inclusion criteria to be accepted through the scheme for pulmonary rehabilitation is patients who:

1. Feel limited by their chest
2. Have a primary physician
3. Spirometric diagnosis of COPD
4. Are on maximal respiratory medications
5. Have no unstable cardiac disease
6. Have no cognitive impairments

In addition, for this project, participants must:

7. Be willing and able to provide informed consent
8. Have a standard telephone line installed in their homes
9. Be willing to have equipment installed in their homes
10. Have attended at least 50% of pulmonary rehabilitation (PR) sessions (aiming for equal baselines)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

1. No other confounding medical condition to the use of the equipment, e.g. unable to see clearly or touch the screen
2. Not in a nursing or residential institution
3. Participation in any investigational drug trial within one month prior to recruitment
4. Mental condition rendering the subject unable to understand the nature, scope and possible consequences of the study

Date of first enrolment

01/11/2007

Date of final enrolment

01/03/2009

Locations**Countries of recruitment**

United Kingdom

Wales

Study participating centre**Respiratory Unit**

Llanelli

United Kingdom

SA15 3LQ

Sponsor information**Organisation**

Informing Healthcare (UK)

ROR

<https://ror.org/04a496k07>

Funder(s)

Funder type

Government

Funder Name

European Community eTEN programme

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/02/2010		Yes	No