

Randomised double-blind comparison of hand-held inhalers versus electric compressors and nebulisers, for domiciliary high-dose bronchodilator treatment in severe stable chronic obstructive pulmonary disease (COPD)

Submission date 23/01/2004	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 23/01/2004	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 23/10/2019	Condition category Respiratory	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

ND0020 T331

Study information

Scientific Title

Randomised double-blind comparison of hand-held inhalers versus electric compressors and nebulisers, for domiciliary high-dose bronchodilator treatment in severe stable chronic obstructive pulmonary disease (COPD)

Study objectives

Approximately 200,000 people in the Yorkshire Region have COPD of varying degrees of severity. A recent published regional review has shown that more than 2000 of the more severely disabled patients are currently treated at home with high dose bronchodilators using nebulisers and compressors. This represents a £20k capital cost, an approximate annual £20k servicing cost, and an annual drug bill of £2m. The regional review has shown that this expensive treatment is often introduced without adequate assessments. Hand-held inhalers may be more efficient and cheaper. Projected drug costs if hand held inhalers were used for the usual combination of bronchodilator drugs for such patients in equivalent doses would be approximately £700k per annum with a potential saving to the Health Authorities of more than a million pounds per annum.

Similarly, regular use of newer-generation nebulisers, which are more efficient, might result in a saving of half the drug costs, again without any compromise in patient benefit. Before purchasers can recommend either a trial of high dose hand-held inhalers or the use of newer-generation nebulisers to achieve these savings, it is necessary to show in a controlled double-blind study that patient benefit from equipotent doses in the three systems (current nebuliser treatment versus hand-held treatment versus new-generation nebuliser treatment) are equivalent. This study will provide evidence allowing purchasers to make such judgments. From the patients point of view, the benefit from using hand-held inhalers rather than electric compressors and nebulisers is that the treatment is less complex, taking 15 minutes per day rather than one hour per day to use and would allow people to travel, and not to rely on emergency back-up and service arrangements.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Treatment

Participant information sheet**Health condition(s) or problem(s) studied**

Chronic obstructive pulmonary disease

Interventions

Current nebuliser treatment versus hand-held treatment versus new-generation nebuliser treatment

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Quality of life measured by SGRQ (St George's Respiratory Questionnaire)

Secondary outcome measures

Not provided at time of registration

Overall study start date

01/01/1995

Completion date

31/03/1995

Eligibility**Key inclusion criteria**

Patients with COPD

Participant type(s)

Patient

Age group

Not Specified

Sex

Both

Target number of participants

Not provided at time of registration

Key exclusion criteria

Does not match inclusion criteria

Date of first enrolment

01/01/1995

Date of final enrolment

31/03/1995

Locations**Countries of recruitment**

England

United Kingdom

Study participating centre

Academic Unit of Psychiatry and Behavioural Sciences

Leeds

United Kingdom

LS2 9LT

Sponsor information**Organisation**

NHS R&D Regional Programme Register - Department of Health (UK)

Sponsor details

The Department of Health

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Sponsor type

Government

Website

<http://www.doh.gov.uk>

Funder(s)

Funder type

Government

Funder Name

NHS Executive Northern and Yorkshire (UK)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration