A randomised controlled trial to assess the efficacy and safety of patient controlled maligant pleural effusion drainage by indwelling ambulatory pleural catheter, compared to standard care

Submission date	Recruitment status No longer recruiting	Prospectively registered		
07/03/2007		Protocol		
Registration date	Overall study status	Statistical analysis plan		
30/04/2007	Completed	[X] Results		
Last Edited 19/05/2014	Condition category Respiratory	Individual participant data		

Plain English summary of protocol

http://www.ctu.mrc.ac.uk/research_areas/study_details.aspx?s=48

Contact information

Type(s)

Scientific

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Additional identifiers

Clinical Trials Information System (CTIS)

2006-006630-18

Protocol serial number

TIME 2

Study information

Scientific Title

Acronym

The second therapeutic intervention in malignant effusion trial (TIME2)

Study objectives

A cancer induced collection of fluid between the lung and the chest wall (a pleural effusion) affects about 250,000 new patients each year (UK&US), including 25% of patients with lung cancer, 95% with mesothelioma and 40% with breast cancer. The accumulated fluid compresses the lung causing disabling breathlessness that requires painful pleural procedures to drain the fluid. Standard care includes adhering the lung to the chest wall (pleurodesis) which is painful and must be repeated in about 20% of patients. This is then followed by repeated fluid drainage if it fails. These procedures carry significant costs.

The advent of tunnelled ambulatory small-bore chest catheters, drained as required by patients and their carers, presents a different and potentially better strategy. Treatment could be almost entirely outpatient, with the patient controlling their drainage and free from the pain and costs of pleurodesis/drainage; though with the disadvantage of the indwelling catheter. Patients able to promptly drain their own catheter as needed should produce better breathlessness control than intermittent hospital treatment (the primary aim of pleurodesis). This study is a randomised trial which will compare how well breathlessness is controlled by an indwelling catheter compared to standard care in 114 patients with cancer induced pleural effusion and will measure the frequency of problems with the two treatment strategies. If this trial is positive, it will directly improve care for one of the commonest respiratory problems, to the benefit of >250, 000 patients each year.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Milton Keynes Local Research Ethics Committee (ref: 07/Q1603/2)

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Pleural effusion

Interventions

Patients will be randomly assigned (1:1) to either an indwelling ambulatory pleural catheter or standard care for their malignant pleural effusion.

Computer derived allocation will be delivered by the established Oxford/London MRC Clinical Trials Unit systems. In order to minimise biases in trial results randomisation will include minimisation for histological tissue type (mesothelioma vs. non-mesothelioma) as survival is increased in mesothelioma, and the risk of catheter associated subcutaneous tumour invasion may be higher with mesothelioma, and for WHO performance status (0/1 vs. 2/3).

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

The primary outcome will be the average daily Visual Analogue Scale (VAS) defining breathlessness, after removing "breathlessness unresponsive to pleural fluid drainage" - defined as the VAS following first complete pleural fluid drainage. Patients will also record how much their breathlessness has bothered them each day. The daily VAS will be performed at a similar time each day. The patients will perform VAS and record breathlessness for 6 weeks.

Key secondary outcome(s))

The following will be assessed at time of the primary outcome measure and recorded throughout the year of the trial:

- 1. Average daily chest pain assessed using VAS score for 6 weeks
- 2. Self reported health status (quality of life) assessed using Chronic Respiratory Disease Questionnaire (CRDQ) and European Organization for Research and Treatment of Cancer Quality of Life Questionnaire (EORTC QLQ C-30)
- 3. Economic assessment: direct quantification of clinical costs from patient kept diary records and estimated health care costs (Eurogol-5 Dimensions [EQ-5D] Questionnaire)
- 4. Spontaneous pleurodesis rate with ambulatory catheters (This will differ for each patient and will be recorded individually)
- 5. Complication rate with ambulatory catheters (Any complications that arise will be documented throughout the duration of the study)

Completion date

01/01/2009

Eligibility

Key inclusion criteria

- 1. Clinically confident diagnosis of malignant pleural effusion requiring pleurodesis. The diagnosis may be established by:
- a. Histocytologically proven pleural malignancy or
- b. Recurrent large pleural effusion in the context of histologically proven cancer outside the thorax.
- 2. Written informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Not Specified

Key exclusion criteria

- 1. Age < 18 years
- 2. Beginning chemotherapy in the next 4 weeks
- 3. Expected survival <3 months
- 4. Chylothorax
- 5. Previous lobectomy or pneumonectomy on the side of the effusion
- 6. Previous attempted pleurodesis
- 7. Pleural infection
- 8. Total blood white cell count < 1.0 x 109
- 9. Hypercapnic ventilatory failure
- 10. Patients who are pregnant or lactating
- 11. Irreversible bleeding diathesis
- 12. Irreversible visual impairment
- 13. Inability to give informed consent or comply with the protocol

Date of first enrolment

01/04/2006

Date of final enrolment

01/01/2009

Locations

Countries of recruitment

United Kingdom

England

Study participating centre Respiratory Trials Unit

Oxford United Kingdom OX3 7LJ

Sponsor information

Organisation

University of Oxford (UK)

ROR

https://ror.org/052gg0110

Funder(s)

Funder type

Charity

Funder Name

British Lung Foundation (UK)

Alternative Name(s)

BLF

Funding Body Type

Private sector organisation

Funding Body Subtype

Trusts, charities, foundations (both public and private)

Location

United Kingdom

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	13/06/2012	Yes	No
Results article	results	01/10/2014	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2025	No	Yes