

Study into myocardial stunning during haemodialysis and the effect of biofeedback haemodialysis

Submission date 12/09/2003	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 12/09/2003	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 16/06/2014	Condition category Urological and Genital Diseases	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<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

Protocol serial number
N0077122814

Study information

Scientific Title

Study objectives

1. Haemodialysis with ultrafiltration is capable of inducing myocardial stunning in individuals both with and without coronary artery disease
2. Myocardial stunning induced by haemodialysis may be ameliorated by the use of biofeedback-controlled haemodialysis, despite identical total ultrafiltration

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised crossover study

Primary study design

Interventional

Study type(s)

Not Specified

Health condition(s) or problem(s) studied

Urological and Genital Diseases: Haemodialysis

Interventions

We propose to study chronic haemodialysis patients in a randomised crossover study. The first group will undergo an initial period of standard haemodialysis followed by a period of biofeedback-controlled haemodialysis. The second group will do the same in reverse. At the end of both periods, all patients will undergo echocardiography performed at regular intervals throughout a single haemodialysis session, and for a short period afterwards. They will also have Troponin T measured before and after the same dialysis session.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

1. Number of regional wall abnormalities/patient
2. Ejection and shortening fractions

Key secondary outcome(s))

Not provided at time of registration

Completion date

01/04/2003

Eligibility

Key inclusion criteria

Patients on chronic haemodialysis

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

21/02/2003

Date of final enrolment

01/04/2003

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

Southern Derbyshire Acute Hospitals NHS Trust

Derby

United Kingdom

DE22 3NE

Sponsor information

Organisation

Department of Health (UK)

Funder(s)

Funder type

Government

Funder Name

Southern Derbyshire Acute Hospitals NHS Trust (UK)

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?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes