# An evaluation of improving dialysis adequacy in large haemodialysis patients: the double dialyser study

Submission date 19/09/2007	<b>Recruitment status</b> No longer recruiting	Prospectively registered
		[_] Protocol
<b>Registration date</b>	Overall study status	[] Statistical analysis plan
27/09/2007	Completed	[X] Results
Last Edited 05/08/2021	<b>Condition category</b> Urological and Genital Diseases	Individual participant data

# Plain English summary of protocol

Not provided at time of registration

# **Contact information**

**Type(s)** Scientific

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# **Contact details**

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# Additional identifiers

EudraCT/CTIS number

**IRAS number** 

ClinicalTrials.gov number

Secondary identifying numbers 15603

# Study information

## Scientific Title

An evaluation of improving dialysis adequacy in large haemodialysis patients: the double dialyser study

## **Study objectives**

Health related quality of life for patients treated with a strategy to increase dialysis adequacy will be similar to health related quality of life when treated with standard dialysis.

**Ethics approval required** Old ethics approval format

## Ethics approval(s)

Ethics approval received from the Conjoint Medical Ethics Board of the University of Calgary on the 7th December 2000 (ref: 15603).

**Study design** Randomised, controlled, cross-over study

**Primary study design** Interventional

**Secondary study design** Randomised controlled trial

**Study setting(s)** Hospital

**Study type(s)** Treatment

Participant information sheet

## Health condition(s) or problem(s) studied

Kidney failure/haemodialysis

#### Interventions

All patients were treated for 4 weeks with "4 hours of haemodialysis" three times per week for one month (the run-in period). Then all patients were randomised to receive each of the four noted treatments (below), for six weeks each, in a random order. There was no wash out period between each of the four treatment periods. The intention was that all patients would receive each of the four treatments. Total study time was 24 weeks, plus the 4 week run-in.

1. Standard haemodialysis: four hours of haemodialysis three times per week - haemodialysis was undertaken using a high flux, high efficiency polysulfone dialyser (i.e., F80A dialyser [Fresenius, Inc, Walnut Creek, CA] or equivalent), with a blood flow of 350 - 400 ml/min and a dialysate flow of 500 ml/min

2. Increased dialysate flow: patients received standard dialysis for four hours three times per week but the dialysate flow rate was 800 ml/min rather than 500 ml/min

3. Increased dialysis time: haemodialysis for 4.5 hours, three times per week

4. Double dialyser: patients received haemodialysis for four hours three times per week with two F80A dialysers connected by a Y-connector in a parallel configuration during each run using the method described by Powers et al. Dialysate flow was 800 ml/min

## Intervention Type

Other

**Phase** Not Specified

## Primary outcome measure

'End-Stage Renal Disease (ESRD) symptoms' domain of the Kidney Disease Quality of Life Short Form (KDQOL-SF) measured at the end of each 6-week treatment session.

## Secondary outcome measures

1. Health Utility Index mark 2 (HUI 2) utility score, evaluated during the last week of the treatment (i.e. during week 6 of each treatment period) 2. Exploratory measures of Health-Related Quality Of Life (HRQOL): other domains of the

2. Exploratory measures of Health-Related Quality Of Life (HRQOL): other domains of the Kidney Disease Quality of Life (KDQOL) and 36-item Short Form health survey (SF-36), evaluated during the last week of the treatment (i.e. during week 6 of each treatment period)

# Overall study start date

01/07/2001

# Completion date

01/07/2004

# Eligibility

# Key inclusion criteria

1. Patients on a stable regimen of haemodialysis greater than or equal to 3 months

2. Dry weight greater than or equal to 80 kg

3. Kt/V less than 1.2 on two occasions in the previous 6 months or requirement for greater than

12 hours of haemodialysis per week because of a history of inadequate dialysis

4. Blood flow rate greater than 350 ml/min through a well functioning access

5. Aged greater than 18, both sexes

# Participant type(s)

Patient

**Age group** Adult

**Lower age limit** 18 Years

**Sex** Both

# Target number of participants

Total final enrolment

18

## Key exclusion criteria

- 1. Scheduled renal transplant in the next 6 months
- 2. Contraindication to intradialytic anticoagulation

3. Requirement for greater than 4.5 hours of haemodialysis three times per week for the purpose of volume removal due to excessive interdialytic weight gains or intradialytic hypotension/cramping 4. Failure to provide informed consent

Date of first enrolment 01/07/2001

Date of final enrolment 01/07/2004

# Locations

**Countries of recruitment** Canada

**Study participating centre Foothills Medical Center** Calgary Canada T2N 2T9

# Sponsor information

**Organisation** Kidney Foundation of Canada (Canada)

**Sponsor details** 300-5165 Sherbrooke Street West Montreal Canada H4A 1T6 +1 514 369 4806 webmaster@kidney.ca

# Sponsor type

Research organisation

Website http://kidney.ca

ROR https://ror.org/019a0gk53

# Funder(s)

**Funder type** Research organisation

**Funder Name** Kidney Foundation of Canada (Canada)

Alternative Name(s) La Fondation canadienne du rein, KFOC

**Funding Body Type** Private sector organisation

**Funding Body Subtype** Trusts, charities, foundations (both public and private)

**Location** Canada

# **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

## Study outputs

Output	type
Results	article

Details Date created 19/07/2009

Date added 05/08/2021

**Peer reviewed?** Yes Patient-facing? No