Renal protection against ischaemia-reperfusion in transplantation

Submission date	Recruitment status	[X] Pr
08/06/2009	No longer recruiting	[] Pro
Registration date	Overall study status	[] Sta
09/07/2009	Completed	[X] Re
Last Edited	Condition category	[] Inc
29/05/2015	Injury, Occupational Diseases, Poisoning	

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Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s) Scientific

Contact name Prof Raymond MacAllister

Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers EME 08/52/02; 2 version 7

Study information

Scientific Title

Renal protection against ischaemia-reperfusion in transplantation: a double-blind randomised controlled trial with a factorial design

Acronym

REPAIR

Study objectives

Remote ischaemic preconditioning reduces ischaemia reperfusion injury to the kidney in livingdonor transplantation and improves kidney function.

Link to EME project website: http://www.eme.ac.uk/projectfiles/085202info.pdf Link to protocol: http://www.eme.ac.uk/projectfiles/085202protocol.pdf

Please note that as of 04/08/10 this record has been updated to reflect changes to the exclusion criteria in the lastest protocol (v.7). Please see the revelant section for more details.

Ethics approval required

Old ethics approval format

Ethics approval(s)

University College London Hospitals Local Research Ethics Committee (UCLH LREC) Committee alpha, 08/06/2009, ref: 09/H0715/48

Study design Double-blind factorial design randomised controlled trial

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) Hospital

Study type(s) Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied Kidney transplantation

Interventions

The trial will test whether a simple procedure, the application of a blood pressure cuff to the arm of the donor and the recipient before a kidney transplant, can help protect the donor kidney from the harmful effects of the transplant. The blood pressure cuff to be used is similar to the one that is used to measure blood pressure. It will be inflated continuously for a five-minute period, after which it will be deflated for 5 minutes. This cycle of inflation, followed by deflation, will be performed 4 times in total.

The trial follow up is 5 years, performed in the context of routine clinical follow up.

Intervention Type

Procedure/Surgery

Primary outcome measure

Glomerular filtration rate (GFR) 12 months after transplantation.

Secondary outcome measures

- 1. Rate of fall in creatinine in the first 72 hours after transplantation
- 2. Inflammatory response to surgery in the first 5 days after transplantation
- 3. Protein expression in kidney parenchyma samples using histochemistry
- 4. Protein activation and expression in renal vasculature using immunoblotting
- 5. Kidney fibrosis 6 months after transplantation
- 6. Alloreactivity of T-cells in the first 18 months after transplantation
- 7. Patient outcomes 2 5 years after transplantation using renal registry data

Overall study start date

01/10/2009

Completion date

01/04/2013

Eligibility

Key inclusion criteria

1. Patients undergoing living donor transplantation

2. Patients aged 18 years and above, either sex

Participant type(s) Patient

Age group Adult

Lower age limit 18 Years

Sex

Both

Target number of participants 400

Key exclusion criteria

1. 0,0,0-mismatched renal grafts (no mismatch in HLA-A/B/DR antigens between donor and recipient)

2. Patients on adenosine triphosphate (ATP)-sensitive potassium channel opening or blocking drugs

3. Patients on ciclosporin

4. Patients who have had a previous transplant

5. Patients with a known iodine sensitivity (who cannot undergo iohexol clearance studies)

Added 04/08/2010:

6. Patients with ABO incompatability

7. Any patient requiring HLA antibody removal therapy

Date of first enrolment 01/10/2009

Date of final enrolment 01/04/2013

Locations

Countries of recruitment England

Netherlands

United Kingdom

Study participating centre BHF Laboratories London United Kingdom WC1E 6JJ

Sponsor information

Organisation University College London (UCL) (UK)

Sponsor details

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Sponsor type University/education

Website http://www.ucl.ac.uk/joint-rd-unit/about-us

ROR https://ror.org/02jx3x895

Funder(s)

Funder type Government

Funder Name

Medical Research Council (MRC)/National Institutes of Health Research (NIHR) (UK) - Efficacy and Mechanism Evaluation (EME) Programme (ref: EME 08/52/02)

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	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<u>Results article</u>	results	01/05/2015		Yes	No