

# The effect of cataract surgical techniques on the corneal endothelium: a comparison between conventional phacoemulsification with Aqualase

<b>Submission date</b> 28/09/2007	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 28/09/2007	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 29/09/2011	<b>Condition category</b> Eye 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

### Contact name

Mr Scott Hau

### Contact details

Moorfields Eye Hospital

162 City Road

London

United Kingdom

EC1V 2PD

+44

Scott.Hau@moorfields.nhs.uk

## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

## Secondary identifying numbers

N0141187713

# Study information

## Scientific Title

## Study objectives

To compare two techniques of cataract surgery: conventional phacoemulsification versus the newer Aqualase technique especially looking at the rate of corneal endothelial cell loss and complications rate seen with each technique.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Not provided at time of registration

## Study design

Randomised controlled pilot 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

Eye Diseases: Cataract

## Interventions

1. Standard phacoemulsification
2. Aqualase

## Intervention Type

Other

## Phase

Not Specified

## Primary outcome measure

Percentage of cell loss

**Secondary outcome measures**

1. Coefficient of variation and hexagonality of cell sizes at 3 months
2. Per-and-postoperative complications

**Overall study start date**

20/09/2006

**Completion date**

20/12/2006

## **Eligibility**

**Key inclusion criteria**

Routine cataracts less than or equal to grade 3 determined by Oxford grading scale

**Participant type(s)**

Patient

**Age group**

Not Specified

**Sex**

Not Specified

**Target number of participants**

30 patients - 30 eyes in each group

**Key exclusion criteria**

1. Other ocular or systemic co-morbidity factors
2. Patients with an axial length greater than 26.5mm
3. Combined procedures
4. Cataracts greater than grade 3

**Date of first enrolment**

20/09/2006

**Date of final enrolment**

20/12/2006

## **Locations**

**Countries of recruitment**

England

United Kingdom

**Study participating centre**  
**Moorfields Eye Hospital**  
London  
United Kingdom  
EC1V 2PD

## **Sponsor information**

### **Organisation**

Record Provided by the NHSTCT Register - 2007 Update - Department of Health

### **Sponsor details**

The Department of Health, Richmond House, 79 Whitehall  
London  
United Kingdom  
SW1A 2NL  
+44 (0)20 7307 2622  
dhmail@doh.gsi.org.uk

### **Sponsor type**

Government

### **Website**

<http://www.dh.gov.uk/Home/fs/en>

## **Funder(s)**

### **Funder type**

Government

### **Funder Name**

Moorfields Eye Hospital NHS Foundation Trust (UK) NHS R&D Support Funding

## **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