

# Changes in pupil size following phacoemulsification surgery

<b>Submission date</b> 07/02/2015	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 23/06/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 19/06/2015	<b>Condition category</b> Eye Diseases	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

Background and study aims

The aim of this study is to detect the changes in pupil size following cataract surgery.

Who can participate?

Adults aged 48 to 81 and undergoing cataract surgery.

What does the study involve?

All patients will receive the same type of intraocular lens. Measurements will be made five minutes after the operation and then one month after the operation.

What are the possible benefits and risks of participating?

The benefit is better visual acuity after the operation. The risk is complication after standard cataract surgery.

Where is the study run from?

Uskudar University, Istanbul (Turkey).

When is study starting and how long is it expected to run for?

From December 2014 to February 2015

Who is funding the study?

Uskudar University and GMMA Haydarpasa Training Hospital

Who is the main contact?

Dr. Yildirim Yildirim  
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## Contact information

Type(s)

Scientific

**Contact name**

Dr Yildiray Yildirim

**Contact details**

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**Additional identifiers****Protocol serial number**

N/A

**Study information****Scientific Title**

Changes in pupil size following phacoemulsification surgery: a prospective cohort study

**Study objectives**

The pupil size is important in appropriate cases in whom the combination with phacoemulsification and multifocal intra ocular lenses (IOL) implantation would be performed. This is because postoperative visual disturbances may be directly related to the pupil size. Therefore, pupil size assessment of the patients who are to undergo implantation of a multifocal lens is important.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Clinical Research Ethics Committee of Haydarpaşa Numune Training and Research Hospital, Istanbul. 22/12/2014, HNEAH-KAEK 2014/92

**Study design**

Prospective cohort study

**Primary study design**

Observational

**Study type(s)**

Treatment

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

Changes in pupil size developing after phacoemulsification surgery

**Interventions**

All patients will have phacoemulsification surgery and implantation of the same type of intraocular lens. Pupil measurements will be made after each patient waited in a dark room for 5 minutes preoperatively and will be repeated one month after the operation.

**Intervention Type**

Procedure/Surgery

**Primary outcome(s)**

Preoperative and postoperative pupil size changes

**Key secondary outcome(s)**

Optic aberrations

**Completion date**

05/02/2015

**Eligibility****Key inclusion criteria**

- 1- Male and female patients aged between 48 and 81
- 2- Patients with cataracts

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

- 1- Patients who have a history of ocular trauma, uveitis, optic neuropathy or anisocoria and also have other accompanying serious ocular diseases except cataract
- 2- Patients who have a complicated phacoemulsification surgery

**Date of first enrolment**

25/12/2014

**Date of final enrolment**

05/01/2015

**Locations****Countries of recruitment**

Türkiye

**Study participating centre**

**Uskudar University**

Istanbul

Türkiye

34000

**Study participating centre**

**GMMA Haydarpasa Training Hospital**

Istanbul

Türkiye

34000

## Sponsor information

**Organisation**

Uskudar University

**ROR**

<https://ror.org/02dzjmc73>

## Funder(s)

**Funder type**

University/education

**Funder Name**

Uskudar University

## Results and Publications

**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Available on request