

# Effectiveness of laser treatment for high eye pressure and early-stage glaucoma in Saudi Arabia

<b>Submission date</b> 30/10/2024	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 31/10/2024	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 31/10/2024	<b>Condition category</b> Eye Diseases	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

This study aimed to see how effective a laser treatment called selective laser trabeculoplasty (SLT) is at lowering eye pressure in people with high eye pressure or early-stage glaucoma. It also looked at how this treatment affects the use of eye medications and identified which patient characteristics are linked to better treatment outcomes.

### Who can participate?

Patients with ocular hypertension (high eye pressure) or mild primary open-angle glaucoma (a common type of glaucoma) were included in this study.

### What does the study involve?

Participants underwent the SLT procedure and had their eye pressure, medication use, and other factors monitored over the course of one year.

### What are the possible benefits and risks of participating?

None

### Where is the study run from?

The study was conducted at King Abdulaziz University in Jeddah, Saudi Arabia.

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

The study collected data retrospectively from January 2023 to January 2024.

### Who is funding the study?

The study was initiated and funded by the investigator.

### Who is the main contact?

Nawaf Almarzouki, [Nawaf.almarzouki@gmail.com](mailto:Nawaf.almarzouki@gmail.com)

## Contact information

**Type(s)**

Public, Scientific, Principal Investigator

**Contact name**

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## Additional identifiers

**EudraCT/CTIS number**

Nil known

**IRAS number****ClinicalTrials.gov number**

Nil known

**Secondary identifying numbers**

Nil known

## Study information

**Scientific Title**

Outcomes of selective laser trabeculoplasty as primary treatment for ocular hypertension and mild open angle glaucoma in the Saudi Arabian population

**Study objectives**

The aim of this study was to assess the efficacy of selective laser trabeculoplasty (SLT) in reducing intraocular pressure (IOP), evaluate its impact on medication use, and identify patient characteristics associated with treatment success

**Ethics approval required**

Ethics approval required

**Ethics approval(s)**

Approved 26/08/2024, Unit of Biomedical Ethics Research Ethics Committee (REC) (King Abdulaziz University Hospital, Jeddah, 21589, Saudi Arabia; +966 126952063; [med.rcommittee@kau.edu.sa](mailto:med.rcommittee@kau.edu.sa)), ref: 247-24

**Study design**

Observational retrospective cohort study

**Primary study design**

Observational

**Secondary study design**

Cross sectional study

**Study setting(s)**

Hospital

**Study type(s)**

Treatment

**Participant information sheet**

Not applicable (retrospective study)

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

Outcomes of laser treatment on intraocular pressure

**Interventions**

Patients with ocular hypertension (OHT) or mild primary open-angle glaucoma (POAG) underwent selective laser trabeculoplasty.

IOP, medication use, and potential influencing factors were monitored over one year

**Intervention Type**

Other

**Primary outcome measure**

Intraocular pressure measured retrospectively using patient records

**Secondary outcome measures**

Glaucoma drops reduction measured retrospectively using patient records

**Overall study start date**

26/08/2024

**Completion date**

30/10/2024

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

Ocular hypertension or mild open angle glaucoma

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

40

**Total final enrolment**

27

**Key exclusion criteria**

Advanced glaucoma or previous ocular surgery

**Date of first enrolment**

01/01/2023

**Date of final enrolment**

30/01/2024

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

Saudi Arabia

**Study participating centre**

King Abdulaziz University Hospital

Jeddah

Saudi Arabia

21589

**Sponsor information****Organisation**

King Abdulaziz University

**Sponsor details**

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**Sponsor type**  
University/education

**Website**  
[http://www.kau.edu.sa/home\\_english.aspx](http://www.kau.edu.sa/home_english.aspx)

**ROR**  
<https://ror.org/02ma4wv74>

## **Funder(s)**

**Funder type**  
Industry

**Funder Name**  
Investigator initiated and funded

## **Results and Publications**

**Publication and dissemination plan**  
Planned publication in a peer-reviewed journal

**Intention to publish date**  
01/12/2024

**Individual participant data (IPD) sharing plan**  
The data set available upon request from the author: Nawaf almarzouki@gmail.com

**IPD sharing plan summary**  
Available on request