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

Submission date 30/10/2024	**Recruitment status** No longer recruiting	[ ] Prospectively registered [ ] Protocol
Registration date 31/10/2024	**Overall study status** Completed	[ ] Statistical analysis plan [ ] Results
Last Edited 31/10/2024	**Condition category** Eye Diseases	[ ] Individual participant data [ ] 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

Contact information

Type(s)
Public, Scientific, Principal investigator

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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), ref: 247-24

Primary study design
Observational

Study design
Observational retrospective cohort study

Study type(s)
Treatment

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(s)
Intraocular pressure measured retrospectively using patient records

Key secondary outcome(s)
Glaucoma drops reduction measured retrospectively using patient records

Completion date
30/10/2024

Eligibility

Key inclusion criteria
Ocular hypertension or mild open angle glaucoma

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 Years

Sex
All

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

ROR
https://ror.org/02ma4wv74

Funder(s)

Funder type
Industry

Funder Name
Investigator initiated and funded

Results and Publications

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