

Assessing the efficacy and safety of a recently introduced type of surgical device (Preserflo Microshunt) in the treatment of glaucoma

Submission date 19/09/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 11/10/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 11/10/2021	Condition category 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

Glaucoma is a common eye disease affecting the optic nerve and leading to irreversible blindness. This disease is thought to be caused by excess pressure inside the eye. The Preserflo Microshunt is a device similar to a tube that is implanted in the front part of the eye and allows for the drainage of fluid from the eye, relieving the pressure. The aim of this study is to determine how effective is this surgery, if it effectively lowers the pressure in the long term, if it relieves the burden of eye drops in glaucoma patients, and if it is a safe surgical option.

Who can participate?

Data is extracted from patient files of any adult patient with glaucoma who has been implanted with the Preserflo Microshunt between June 2019 and September 2021 at the Hospital de Santa Maria, Centro Hospitalar e Universitário Lisboa Norte

What does the study involve?

The investigators will examine the patient charts to analyze if the surgery effectively reduced eye pressure in a safe manner throughout the patients' follow-up time.

What are the possible benefits and risks of participating?

None as this is a retrospective study

Where is the study run from?

Hospital de Santa Maria, Centro Hospitalar e Universitário Lisboa Norte (Portugal)

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

May 2019 to December 2021

Who is funding the study?

Universidade de Lisboa (Portugal)

Who is the main contact?

Rafael Barão

rafaelbarao@gmail.com

Contact information

Type(s)

Scientific

Contact name

Dr Rafael Barão

ORCID ID

<https://orcid.org/0000-0002-3102-1969>

Contact details

Av. Prof. Egas Moniz

Lisbon

Portugal

1649-035

+351 (0)916316796

rafael.barao@chln.min-saude.pt

Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

Protocol serial number

Nil known

Study information

Scientific Title

Early clinical outcomes of the Preserflo Microshunt

Study objectives

To assess the efficacy (hypotensive power) and safety (rate of complications) of the Preserflo Microshunt, an aqueous drainage shunt aimed for the treatment of medically uncontrolled glaucoma.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approval pending, North Lisbon University Hospital (CHUL) and Lisbon Academic Center (CAML) Ethics Committee (Av. Prof. Egas Moniz, 1649-035 Lisboa; +351 (0)217805405; anapimentel@chln.min-saude.pt)

Study design

Single-center cross sectional observational study

Primary study design

Observational

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Intraocular pressure control in patients with glaucoma

Interventions

Data is extracted from patient files (background history, glaucoma characteristics, baseline intraocular pressure [IOP], preoperative visual acuity [VA], number of ocular hypotensive medication, intra-operative and postoperative complications, follow-up from visits on day 1; at weeks 1, 4; at months 3, 6 and 12 after Preserflo Microshunt implantation; number of postoperative IOP-lowering medication at all timepoints; and previous or subsequent surgical interventions).

Intervention Type

Procedure/Surgery

Primary outcome(s)

The surgical success of Preserflo Microshunt implantation at 12 months postoperative, defined as at least 30% reduction in IOP from baseline and final IOP ≤ 18 mmHg and >5 mmHg, with (qualified success) or without hypotensive drugs (absolute success)

Key secondary outcome(s)

1. Mean IOP in mmHg measured using Goldmann applanation tonometry and retrieved from patient files at the last pre-operative visit and at day 1, day 7, months 1, 3, 6, 12, 18 and 24 postoperative (when respectively applicable)
2. Mean number of hypotensive drugs retrieved from patient files at the last pre-operative visit and at day 1, day 7, months 1, 3, 6, 12, 18 and 24 postoperative (when respectively applicable)
3. Intra-operative or postoperative complications retrieved from patient files at time of surgery, day 1, day 7, months 1, 3, 6, 12, 18 and 24 (when respectively applicable)

Completion date

01/12/2021

Eligibility

Key inclusion criteria

1. Patients submitted to Preserflo Microshunt implantation for medically uncontrolled glaucoma between June 2019 and September 2021
2. Age ≥ 18 years and have agreed to chart review as per GDPR regulations

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Pregnancy or breastfeeding
2. Severe cardiovascular disease (including a stroke or a myocardial infarction 6 months before)
3. Known allergic reaction to MMC

Date of first enrolment

01/06/2019

Date of final enrolment

30/09/2021

Locations**Countries of recruitment**

Portugal

Study participating centre

Hospital de Santa Maria, Centro Hospitalar e Universitário Lisboa Norte

Av. Prof. Egas Moniz

Lisbon

Portugal

1649-035

Sponsor information**Organisation**

Centro Hospitalar Lisboa Norte

ROR

<https://ror.org/020sr6z07>

Funder(s)

Funder type

University/education

Funder Name

Universidade de Lisboa

Alternative Name(s)

Universitas Olisiponensis, University of Lisbon, Technical University of Lisbon, ULisboa | Universidade de Lisboa, University of Lisbon, Portugal, New University of Lisbon (Portugal), ULisboa

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Portugal

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from any investigators whose proposed use of the data has been approved by an independent review committee ("learned intermediary") identified for this purpose, exclusively for individual participant data meta-analysis. Data requests should be addressed to Rafael Barão (rafael.barao@chln.min-saude.pt). Data willing to be shared will include relevant individual participant data that underlie the results reported in this article, after deidentification and anonymisation. Data requests may be submitted from 6 months to up to 24 months following article publication. Use of this data has been included in the patient consent form.

IPD sharing plan summary

Available on request