

# Economic evaluation of Prostatic Urethral Lift (Urolift) (ECOLIFT)

**First published:** 20/02/2020

**Last updated:** 07/10/2025

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS33766

### Study ID

43662

### DARWIN EU® study

No

### Study countries

France

### Study description

Transurethral surgery such as transurethral resection of the prostate (TURP), laser enucleation or laser vaporisation, is the first line surgical treatment for bladder outlet obstruction secondary to benign prostatic hyperplasia.

Even if bipolar and laser surgery have improved surgical outcomes in terms of length of hospital stay and post-operative complications, these procedures remain associated with a significant amount of infectious and bleeding complications, as well as with some persistent side effects such as sexual dysfunction and urinary incontinence. Prostatic urethral lift (Urolift) has been developed as a minimally invasive alternative to TURP with no need of general anaesthesia, less need of urinary catheter and less exposure to post-operative complication.

Its efficacy and safety have been assessed by 2 clinical randomized trials with evidence of urinary symptom improvement remaining inferior to TURP but durable for 5 years. Urolift preserved overall quality of life better than TURP. Urolift has been recommended by the EAU guidelines and recognized by French authorities but cannot be financed by the hospital itself. Reimbursement of the implants by healthcare system is therefore needed for the distribution of Urolift in France.

The additional cost of the implants could be compensated by a reduced length of hospital stay and a lower rate of post-operative complications inducing healthcare expenditures.

This study aims to assess if Urolift could be a cost-effective therapeutic strategy compared to transurethral surgery with 2 phases design: a field study comparing patients treated with Urolift to those treated with TURP/laser during 1 year follow-up, and an additional study comparing healthcare consumptions during 3 years follow-up between each group using data of the French National Claims Database (SNDS database).

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### **Study status**

Ongoing

## Research institutions and networks

## Institutions

### Bordeaux University Hospital (CHU de Bordeaux)

France

**First published:** 01/02/2024

**Last updated:** 01/02/2024

**Institution**

**Hospital/Clinic/Other health care facility**

### Bordeaux PharmacoEpi, University of Bordeaux

France

**First published:** 07/02/2023

**Last updated:** 08/12/2025

**Institution**

**Educational Institution**

**Hospital/Clinic/Other health care facility**

**Not-for-profit**

**ENCePP partner**

University Hospital of Bordeaux Bordeaux, France,

University Hospital of Lyon Lyon, France,

University Hospital of Montpellier Montpellier,

France, University Hospital of Lille Lille, France,

Hôpital Cochin - APHP Paris, France, University

## Contact details

### **Study institution contact**

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### **Primary lead investigator**

Grégoire ROBERT

[Primary lead investigator](#)

## Study timelines

### **Date when funding contract was signed**

Planned: 15/02/2020

Actual: 04/02/2020

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### **Study start date**

Planned: 01/06/2020

Actual: 21/04/2021

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### **Data analysis start date**

Planned: 01/03/2022

Actual: 23/10/2024

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**Date of interim report, if expected**

Planned: 30/09/2026

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**Date of final study report**

Planned: 30/09/2028

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

NEOTRACT, INC

## Study protocol

[2019-A03269-48\\_PROTOCOLE\\_V6.0 20230131\\_ECOLIFT\\_clean.pdf \(1.74 MB\)](#)

## Regulatory

**Was the study required by a regulatory body?**

No

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**Is the study required by a Risk Management Plan (RMP)?**

Not applicable

## Methodological aspects

### Study type

### Study type list

**Study topic:**

Disease /health condition

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**Study type:**

Non-interventional study

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**If 'other', further details on the scope of the study**

Economic evaluation

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**Data collection methods:**

Combined primary data collection and secondary use of data

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**Main study objective:**

The main objective is to assess the incremental cost-effectiveness ratio of prostatic urethral lift (Urolift) compared to transurethral surgery (TURP/laser) 4 months after initial hospitalization.

## Study Design

**Non-interventional study design**

Cohort

## Study drug and medical condition

**Medical condition to be studied**

Benign prostatic hyperplasia

## Population studied

## **Age groups**

- Adults (46 to < 65 years)
- Adults (65 to < 75 years)
- Adults (75 to < 85 years)
- Adults (85 years and over)

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## **Estimated number of subjects**

1360

## **Study design details**

### **Outcomes**

Incremental cost per avoided complication (based on Clavien Dindo classification) of Urolift compared with classic transurethral surgery (TURP/laser) 4 months after the surgical procedure.

Incremental cost/QALY of Urolift compared to transurethral surgery (1year).

Real cost of hospitalization for each surgery. Healthcare consumptions(4, 12, 36 months).

Benign prostatic hyperplasia retreatment(12, 36 months). Urinary symptoms, sexual side effects, quality of life (4, 12 months).

Time to recovery/return to professional activity (1, 2, 3, 4 months).

Complications associated with surgery (4 months).

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### **Data analysis plan**

SNDS patients will be matched to Urolift patients using a high dimensional disease risk score (hDRS) based on the 1-year SNDS information before surgery. Analyses will be done for each cohort according to matched treatment group:  
Description of populations  
- Comparison of baseline characteristics between Urolift and TURP/Laser cohorts

and between Urolift and SNDS cohorts (before/after hDRS matching)

- Estimation of cost-effectiveness ratios between Urolift and TURP/Laser cohorts (4 months, 1 year)
- Estimation of hospitalization cost for each surgery during hospital stay
- Description of healthcare consumptions, disease retreatments, urinary symptoms, quality of life, time to recovery/return to professional activity, sexual side effects, associated complications
- Comparison between Urolift and TURP/Laser cohorts and between Urolift and SNDS cohorts at 1, 3 years (intention-to-treat analysis using linear regression model and logistic regression model adjusted on potential confounding).

## Data management

### ENCePP Seal

The use of the ENCePP Seal has been discontinued since February 2025.

The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

## Data sources

### **Data sources (types)**

[Administrative healthcare records \(e.g., claims\)](#)

[Other](#)

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### **Data sources (types), other**

Prospective patient-based data collection

## Use of a Common Data Model (CDM)

## **CDM mapping**

No

# Data quality specifications

## **Check conformance**

Unknown

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## **Check completeness**

Unknown

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## **Check stability**

Unknown

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## **Check logical consistency**

Unknown

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# Data characterisation

## **Data characterisation conducted**

No