

(PD46-12)

# Implantation of the Zephyr ZSI 475 FTM erectile device in cis- and transmen after phalloplasty: initial experience and prospective analysis of surgical outcome

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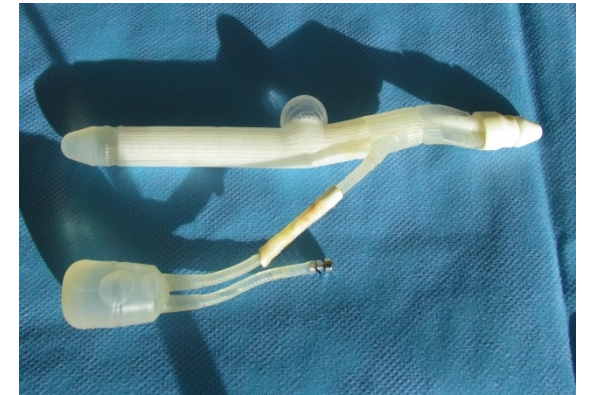
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# Conflicts of interest

- None

# Introduction

- Erectile function after phalloplasty: wish of majority of patients
- Device required
- Until recently: no specific device for neophallus



# Introduction

- March 2016: Zephyr ZSI 475 FTM



- ❖ 1 cylinder
- ❖ Realistic glans shape
- ❖ Fixation plate
- ❖ Testicle-shaped pump

**AIM:** To investigate surgical outcomes after implantation of this device in the neophallus

# Materials and methods

- Prospective, observational study (EC: B670201938703)
- First implant in September 2017
- Follow-up < 3m: excluded
- Descriptive statistics
- Kaplan-Meier analyses for explantation-free survival (EFS)

# Surgical technique

- Parascrotal skin incision, contralateral to vascular anastomosis
- Identification pubic bone
- Creation of cylinder trajectory + Hegar dilation
- Reservoir in Retzius' space (60 cc)
- 4 non-resorbable, polyfilament sutures on periost pubic bone
- Insertion of cylinder with Furlow
- Knotting of sutures
- Connection + test
- Pump in neo-scrotum and wound closure

# Results

- **N = 46** (39 transmen, 7 cismen)
- Median (IQR) **age = 35** (27-43) **years**
- Median (IQR) **follow-up = 12** (8-18) **months**
- **Phalloplasty** type: **RFFF** (33/46, **72%**); **ALT** (13/46, **28%**)
- **Prior** erectile **device**: 27/46, **59%**
  
- Median (IQR) **operation time = 54** (42-60) **minutes**
- Median (IQR) **hospital stay = 1** (1-2) **night**

# Results

- **Intra-operative complications: none**

- **Postoperative complications:**

- ❖ **Cylinder protrusion:** 1/46, **2.2%**
- ❖ **Infection:** 5/46, **11%**
- ❖ **Malpositioning:** 2/46, **4.3%**
- ❖ **Mechanical failure:** 2/46, **4.3%**

**Surgical revision rate:**  
10/46, **22%**



# Results

- **Explantation rate: 9/46, 20%**
- **EFS estimates (SD):**
  - ❖ After **6 months: 83% (5.6)**
  - ❖ After **12 months: 83% (5.6)**
  - ❖ After **18 months: 83% (5.6)**

# Conclusion

**Short-term surgical outcomes are encouraging**

**Prosthesis infection remains the biggest issue**

**Future studies are needed**