

# Ureteric bridging with a fully coated stent - a new therapy option for severed ureter

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### **Abstract:**

Introduction: Ureteral injury is one of the most serious complications of gynecologic and colorectal surgeries. It is often associated with significant morbidity. Since 2012, we investigated in our clinic a new technique for ureter reconstruction- use of the Allium Ureteric Stent (URS) a metal self-expanding stent which is made of nitinol and covered with a biocompatible, biostable Elast-Eon polymer to make it a nonpermeable tube. These properties contribute for a healing process of the ureter lesion without any subsequent treatment. The stent is inserted minimally invasively using a cystoscope or ureterorenoscope under radiological control using the Seldinger technique. Before using a stent of cours, it has to be diagnosed whether there is a complete missing ureter part which has to be fully bridged and whether a subsequent treatment is necessary

### Materials and Methods:

- Retrospective study.
- 11 patients with ureter injury were treated during
  05/2016-01/2020 use of Allium Ureter Stent (120x10mm,
  200x9mm). Insertion was performed 11x retrograde,
- 4x antegrade under radiological control
- 4 had a severed ureter A "rendezvous maneuver" had to be done.
- 11 cases- ureterorenoscopes was used in order to connect the severed ureter.
- Mean surgery time was 36min (21-57min).
- Average bridging distance was 1.8cm (1.1-6.2cm).
- Average inpatient stay was 2 days.
- Follow-up after 2, 4 and 12 weeks



- The stent was removed after 4 months.

#### Results:

- healing rate of 90.5%
- There were no complications using URS and grasping forceps.
- No leakages, discontinuities or scarred strictures were detected.
- Infection or incrustation of the stent was not detected during stent insertion nor during follow up period.
- Patient satisfaction was very high.

### Conclusion:

Using a fully coated polymeric stent is a good option for treating a damaged ureter. Due to the stent properties wound healing was significantly improved and complete healing was achieved without strictures and subsequent interventions in 90.5%. Long-term studies has to be done.

## Biography:

Joerg Neymeyer is a professor at department of urology, Charitè - Universitätsmedizin Berlin, Germany.

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