

Epicystostomy

The introduction of a **puncture epicystostomy** is a (mostly acute) procedure that ensures **the derivation of urine** suprapubically from the bladder. This is the introduction of a urinary catheter through the abdominal wall. In some cases, epicystostomy is chosen as a permanent urinary diversion solution with regular catheter changes.

Indications for establishing a puncture epicystostomy include acute urinary retention, if it is not possible to insert a urinary catheter through the urethra - e.g. in the case of urethral stricture, Benign prostatic hyperplasia, pressure from the outside. Furthermore, epicystostomy is indicated for urethral injury. It can also be part of a surgical procedure (open prostatectomy, urethral surgery).

Execution

The conditions for establishing an epicystostomy are suitable coagulation parameters (INR < 1,2, or 1,3) and sufficient bladder filling. After disinfecting the surgical field, we infiltrate the abdominal wall with a local anesthetic. We perform the puncture under ultrasound control **2-3 cm above the symphysis**. We guide the puncture channel at an angle of 80-90 ° ^[1]. The epicystostomy catheter is fixed in the bladder with an inflated balloon, for catheters without a balloon, the epicystostomy is fixed with a suture to the skin. The catheter then drains the urine into a collection bag. Regular exchanges are after 3-4 weeks, during which time the puncture channel is already healed ^[1].

Possible complications

- Discomfort in the area of the bladder in the sense of having to urinate.
- Local infectious complications at the site of the puncture channel.
- Urinary tract infections.
- Bleeding — in case of massive bleeding, surgical revision is necessary.
- Intestinal loop injury — a rare complication, especially when the bladder is small. After that, an open revision with loop treatment is necessary.
- Acute urinary retention due to obstruction or kinking of the catheter.

Links

related articles

- Strictures of the urethra
- Urinary Diversion

References

- KAWACIUK, Ivan. *Urologie*. 1. edition. Galén, c2009. ISBN 978-80-7262-627-7.
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