

## EVALUATION OF URINARY TRACT INFECTION AFTER MID-URETHRAL SLING

### Hypothesis / aims of study

Midurethral sling for the treatment of stress urinary incontinence in women is common. Urinary tract infection (UTI) is the most common infection that occurs after sling surgery. The purpose of this study is to evaluate clinical characteristics of the case occurred UTI after Transobturator vaginal tape (TOT).

### Study design, materials and methods

We evaluated the patient characteristics and postoperative UTIs of 53 consecutive women (37-85 years, median) who underwent TOT from August 2009 to February 2015 at our hospital. All patients received prophylactic CEZ 1.0g before and four hours after the TOT and oral CFPN-PI for 5 days thereafter. 8 cases (15.6%) had UTI within 12 months after the operation, we analysed these cases.

### Results

UTI after TOT was caused in 1-6 months (median 3.5 months). One case was needed catheterization for dysuria after the operation, and cut the tape later. 4 cases were carried out urine culture, 2 cases were *Escherichia coli*, 1 case was *Streptococcus* and 1 case was negative. One case of *Escherichia coli* was LVFX, CPFX resistance, and a case of haemolytic streptococcus was also LVFX resistance. All 8 cases have recovered by the antibiotics, using LVFX 4 cases, CFPN-PI 2 cases, CCL 1 case, CPDX-PR 1 case. Cystoscopy was carried out by 3 cases, but tape exposure wasn't admitted.

There was no statistical significant difference between UTI group and not caused UTI group, in the age, BMI, operation time, the blood loss, the Maximum urine flow rate (MUFR) and postvoid residual urine volume (PVR) after TOT (Mann-Whitney U test).

### Interpretation of results

The occurrence of UTI after midurethral sling surgery in this hospital was similar to the report prescribed. In the group that caused UTI and the group not caused it, there was no difference in clinical characteristics. The urine culture result was similarly to the community acquired infection. It was possible to treat by administering the cephem antibiotic though the case who was the quinolone resistance was seen.

### Concluding message

UTI is common after sling surgery, but it can be treated by antibiotics if there are neither a mesh exposure in the bladder, a decrease of MUFR nor an increase of PVR.

### References

1. Risk Factors for Urinary Tract Infection following Incontinence Surgery
2. Risk of Infection After Midurethral Synthetic Sling Surgery: Are Postoperative Antibiotics Necessary?
3. Urinary tract infection before and after mid-urethral slings: culture-proven diagnosis and analysis of risk factors

### Disclosures

**Funding:** No **Clinical Trial:** No **Subjects:** HUMAN **Ethics not Req'd:** retrospective observation study after the surgery, and the intervention of special treatment was not done. **Helsinki:** Yes **Informed Consent:** Yes