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 of after the TOT and oral CFPN-PI for 5days 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 was carried out urine culture, 2cases was Escherichia Coli, 1case 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 2cases, CCL 1case, CPDX-PR 1case. 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 MURF 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