

## THE PROPHYLACTIC ANTIBIOTIC THERAPY PREVENTS LOWER URINARY TRACT INFECTION AFTER THE URODYNAMIC TEST?

### Abstract

The prophylactic antibiotic therapy prevents lower urinary tract infection after the Urodynamic Test?

### Hypothesis/ aims of the study

During the Urodynamic Test the manipulation of the uretra and bladder may cause urinary infection. The objective of this study is to assess the lower urinary tract infection in women who passed through the Urodynamic Test, with and without prophylactic antibiotic therapy.

### Study objective, materials and methods

Female patients were selected with the indication to pass through a Urodynamic Study because of lower urinary tract dysfunction. All patients had presented normal results previous to the Study for Uroculture. They were randomized in two groups: group 1 received prophylactic antibiotic-therapy (500mg of levofloxacin) during the test, while placebo was administrated to group 2. After 15 days, all the patients had new urine samples taken for Uroculture.

The patients who were excluded from this study were the ones with allergy to the mentioned antibiotic or using any antibiotic, the ones who had urethral manipulation or having had urinary infection one month prior to the Urodynamic test, the ones who had had intermittent catheterization, pregnant women, the ones with genital dystopia III and IV (POP-Q), the diabetic, the ones presenting genital or urinary malformations, kidney stones and vulvovaginitis.

### Results

Number of women After 15 days	Grupo 1 (levofloxacin)	Grupo2 (placebo)
Uroculture negative	51	42
Uroculture positive	2	2

p = 0,85

### Interpretation of the results

The results showed that there was not significant difference between “the placebo” group and “the antibiotic” group.

### Conclusion

We observed that, despite the patients involved in the project belonged to low economic-social class, the urinary infection occurrence was not statistically significant and that a prophylactic antibiotic therapy during the Urodynamics proves to be unnecessary.

<i>Specify source of funding or grant</i>	Federal University of São Paulo
<i>Is this a clinical trial?</i>	No
<i>What were the subjects in the study?</i>	HUMAN
<i>Was this study approved by an ethics committee?</i>	Yes
<i>Specify Name of Ethics Committee</i>	Human ethic committee (institutional review board- comite de etica em pesquisa- Hospital são Paulo - UNIFESP)
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes