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URINARY TRACT INFECTION AFTER URODYNAMIC STUDIES IN A TERTIARY UNIT

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Introduction

Urodynamic study (UDS) is a widely used diagnostic tool to evaluate the lower urinary tract. As it is an invasive procedure involving urethral catheterization it has been associated with the development of a urinary tract infection (UTI). The reported incidence of UTI post-UDS has been as high as 20% [1] .The objective of our study was to determine the rate of UTI after UDS in our Physiology Unit.

Methods

A prospective study of patients attending for UDS was carried out between May 2019 and June 2019. We excluded patients attending for an ambulatory urodynamic study, video-urodynamics, already catheterised, receiving prophylactic Gentamicin, presented with UTI, or declined to participate. Patients were requested to provide a mid-stream urine (MSU) sample on the 5th day following their study, which was returned via the patient's GP surgery for microbiology testing. On the same day, patients were requested to complete a validated questionnaire for symptoms of acute cystitis [2]. Significant bacteriuria was defined as ≥10^5 colony forming units / mL.

Results

Out of 61 patients agreed to participate in the study, 45 patients returned their urine sample for testing, of which 42 also returned their questionnaire. Of the 45 patients returning their urine sample for testing, three tested positive for significant bacteriuria (6.67%). Of the 42 patients returning the questionnaire, 20 reported some symptoms of UTI. Out of those, only three (7.14%) had significant bacteriuria and therefore were considered to have a symptomatic UTI.

Conclusion

Our post-UDS symptomatic UTI and significant bacteriuria rates were lower than the ones reported in literature [3] . Our findings support our current policy of not offering prophylactic antibiotics prior to UDS for patients without risk factors for UTI.

References

1) Okorocha I et al. Female urodynamics and lower urinary tract infection. BJU International 2002, 89, 863–867

2)Alidjanov JF et al. Reliability of Symptom-Based Diagnosis of Uncomplicated Cystitis. Urol Int. 2019;102(1):83-95

3)Nadeem et al. Is urinary tract infection after urodynamic study predictable? Urological Science 2017;28:240-242