THE ROLE OF ALPHA 1(A) ADRENOCEPTOR ANTAGONIST TAMСULOSIN FOR THE TREATMENT OF PATIENTS WITH BENIGN PROSTATIC HYPERPLASIA: THE EFFECT OF NOCTURIA AND SLEEP QUALITY

Hypothesis / aims of study
Nocturia is considered to be the main cause of disturbance of sleep maintenance and the quality of life. We assessed the effectiveness of administering alpha 1(A)-adrenoceptor antagonist tamsulosin for the patients with lower urinary tract symptoms with nocturia on quality of sleep.

Study design, materials and methods
From January 2008 to December 2008, 180 patients with lower urinary tract symptoms were prospectively selected for this study. Study was conducted among respondents with nocturia (void/night≥1) (n=296), with participants completing a questionnaire on Medical Outcomes Study (MOS) sleep scale. The effectiveness of tamsulosin was assessed by analyzing the International Prostatic Symptom Score (IPSS), the bother score, the maximal flow rate (Qmax), and postvoid residual urine. The data for these parameters were acquired at baseline and after 4 weeks of treatment.

Results
The patient's population had a mean age of 57.0 years. In the patients, the mean number of void per night was 1.79±1.1, the IPSS total/bother score were 15.2±8.9 and 3.4±1.2, respectively. The clinical parameters, including the IPSS, the bother score, the Qmax and the residual urine showed significantly improved from the baseline. The change of nocturnal frequency was 0.56. For the sleep quality, the sleep problem index was significantly decreased. Among the MOS sleep scale, the subcategories of sleep disturbance, somnolence and sleep adequacy were significantly changed (p<0.05).

Interpretation of results
Alpha 1(A)-adrenoceptor antagonist, tamsulosin, significantly improved sleep quality as well as nocturia. Even the small change of nocturnal frequency can affect largely the associated sleep quality.

Concluding message
Our finding confirms those of studies reporting that sleep disorders are commonly associated with nocturia. Even the small change of nocturnal frequency can affect largely the associated sleep quality.

References

Specify source of funding or grant
N/A

Is this a clinical trial?
Yes

Is this study registered in a public clinical trials registry?
Yes

Specify Name of Public Registry, Registration Number
Chonnam National University Hospital Research Institute of Clinical Medicine

Is this a Randomised Controlled Trial (RCT)?
No

What were the subjects in the study?
HUMAN

Was this study approved by an ethics committee?
No

This study did not require ethics committee approval because
This is an observation clinical study.

Was the Declaration of Helsinki followed?
Yes

Was informed consent obtained from the patients?
Yes