Abstract

PREVALENCE AND TREATMENT OUTCOMES OF

STANDARD UROTHERAPY IN CHILDREN WITH LOWER URINARY TRACT DYSFUNCTION

Punnarat Sawangsuk. MD

Introduction: Lower urinary tract dysfunction (LUTD) is a common problem and may be the risk factor

for urinary tract infection and affect the psychosocial development of the child. Prevalence of LUTD in

Thai children is not known. Standard urotherapy is the main treatment of LUTD.

Objective: 1. To determine the prevalence of LUTD in Thai children aged 4-12 years who did not

present with LUTD at the Pediatric Out Patient Clinic, Siriraj Hospital.

2. To evaluate the treatment outcomes of standard urotherapy in those

with LUTD.

Methods: Children aged 4-12 years were recruited to evaluate LUTD by using dysfunction voiding

symptom score -Thai version (DVSS) questionaire. Girls and boys who scored ≥6 and ≥9,

respectively on the DVSS were diagnosed with LUTD and received standard urotherapy. DVSS was

recorded at 3 and 6 months after the treatment to evaluate the outcome. Strengths and difficulties

questionnaire (SDQ) were recorded in LUTD children.

Results: 401 childrens were recruited for DVSS. Mean age was 7.0 ± 2.3 years. 152 childrens (42.9%)

was female. LUTD was diagnosed in 47 (11.7%), 33 childrens (70.2%) were female. Difficult elimination

symptoms were the most common findings (63.6%). Abnormal SDQ was found in 22.2%,

hyperactive/short attention was the most common problem (38.9%). At 3 and 6 months after standard

urotherapy, DVSS improved from 8.91 to 6.55 and 3.82 (p-value 0.006).

Conclusion: Prevalence of LUTD in Thai children aged 4-12 years was 11.7%. Standard urotherapy can

improve DVSS score and thus is recommented for LUTD.

Keywords: Lower urinary tract dysfunction, Dysfunction voiding symptom score questionnaire,

Standard urotherapy, Constipation