

THREE YEAR OUTCOMES OF THE REMEEEX SYSTEM® FOR TREATMENT OF RE-DO URINARY INCONTINENCE AND INTRINSIC SPHINCTERIC DEFICIENCY WITH INCONTINENCE OF NEUROGENIC FACTORS

Hypothesis / aims of study

This study was conducted to evaluate the long-term efficacy and safety of the REMEEEX system® (EXternal MEchanical REgulation, Neomedic International, Terrassa (Barcelona), Spain) for treatment of re-do urinary incontinence and intrinsic sphincteric deficiency with incontinence of neurogenic factors.

Study design, materials and methods

A total of 30 patients who underwent REMEEEX system® from August 2006 to September 2007 was included and followed them up for at least 3 years postoperatively. Patients were categorized into failed urinary incontinence (Group A, 11 patients) and intrinsic sphincteric deficiency (Group B, 19 patients). The success rate of the patients after surgery was assessed by cure and satisfaction rate followed up postoperatively after 1, 12, 36 months. Clinical, urodynamic, peri and post-operative data with respect to success rate were analyzed.

Results

The mean age of patients was 62.4 years (range 44-81) and mean follow-up period 42.1 months (range 36-49). Total cure rate and satisfaction rate with REMEEEX system® in group A were 100.0%/94.7% at 1 month and 90.9%/90.9% at 12 months and 90.9%/81.8% at 36 months. In group B, total cure rate and satisfaction rate were 94.7%/89.5% at 1 month and 79.0%/73.7% at 12 months and 76.9%/68.4% at 36 months. Bladder puncture (36.7%) nor surgical wound infection (6.7%) did not statistically influence the cure and satisfaction rate of REMEEEX system® in either group ($P=0.651$, $P=0.421$, respectively) by Fisher's exact test.

Interpretation of results

The REMEEEX system® may be an effective procedure regardless of previous incontinence surgical interventions and intrinsic sphincteric deficiency.

Concluding message

. The absence of adverse events associated with the REMEEEX system® until 3-year follow-up and high subjective and objective 3-year postoperative success rates make the REMEEEX system® a recommendable surgical treatment for re-do urinary incontinence and intrinsic sphincteric deficiency.

<i>Specify source of funding or grant</i>	None
<i>Is this a clinical trial?</i>	Yes
<i>Is this study registered in a public clinical trials registry?</i>	No
<i>Is this a Randomised Controlled Trial (RCT)?</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>	Yeungnam IRB
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes