

Summary

Introduction

The aim of my study is determination of efficacy new treatment mode in management of urinary incontinence in patients with muscle and neurogenic dysfunction of pelvic floor. Patients of my study groups suffer from most serious type of incontinence. The management of these patients creates challenges for urologist.

The aims of the study

1. The verification of efficacy and safety of the treatment incontinence in muscle dysfunction of the pelvic floor. new surgery technique – the dynamic pubovaginal sling.
2. To prove superior long-term results following dynamic pubovaginal sling in the treatment of urine incontinence.
3. The comparison of results following the two surgery modes: dynamic pubovaginal sling and tension-free vaginal tape (TVT).
4. The determination and the verification of criteria for the augmentation of the urinary bladder.
5. The verification of efficacy and safety of surgery – the augmentation of the urinary bladder in patients with neurogenic dysfunction of pelvic floor.
6. The determination of safety enterocystoplasty of urinary bladder in patients in renal insufficiency and following kidney transplantation.

The conclusions and the utilizations for clinical practice

1. The dynamic pubovaginal sling is effective mode of the management in patients with ISD (9 out of 10 patients is continent).
 - This surgery of safety mode of treatment (we have no serious complications during surgery or early following surgery).
 - Our modifications decrease the risk of new urgency (only 1 out of 10 patients has urgency de novo).
 - Disadvantage is invasive difficult procedure.
2. The dynamic pubovaginal sling leads to long-term superior results (9 out of 10 patients are continent 5 years following surgery).
 - Urgency de novo is difficult to treat (The urgency de novo in 1 patient remains after 5 years from surgery despite medication).
3. Both mode of treatment leads to superior results (both study group have 9 out of 10 patients continent).
 - The both of mode treatment have low risk of urgency de novo (both 1 out of 10 patients).
 - The advantage of pubovaginal sling is its efficacy and no synthetic material.
 - The disadvantage is invasivity of the procedure.
 - The advantage of TVT is miniinvasiveness.
 - The disadvantage is high price.
 - There are necessary to remind that group of patients with TVT has not so serious values of MCUP and VLLP before surgery.
4. Our newly created criteria for the augmentation enterocystoplasty are useful and are utilized for patient in neurogenic incontinence in patients with renal insufficiency.

5. The augmentation enterocystoplasty is efficient mode of treatment in incontinence in patients with neurogenic dysfunction of the pelvic floor (16 patients are continent, 1 is improved out of 20).
 - The augmentation is safety mode of treatment (we have no complication during the surgery and early following).
 - The surgery leads to statistically significant increasing of bladder capacity
 - The anuric patients have to carry out the bladder cycling aimed at the maintenance of bladder capacity.
 - It is necessary to know about risk of inadequate emptying of bladder and possibility of intermittent catheterization (6 out of 20 patients).

6. The regularly using bicarbonates is high effective in prevention of metabolic hyperchloremic acidosis.
 - The augmented bladder is not complication for patient after kidney transplantation using immunosuppressive medication.
 - The augmentation enterocystoplasty can prevent of deterioration of renal insufficiency.

According to our results we can claim, that our modification – the dynamic pubovaginal sling will be effective and safe mode of surgery for the most complicated group of incontinent patients with muscle dysfunction of pelvic floor. The main disadvantage is invasivity of procedure. We proved usefulness criteria for augmentation enterocystoplasty for patients with neurogenic incontinence. Using augmentation is safety and efficient procedure for patients with neurogenic incontinence combined with renal insufficiency, as it is obvious from our results.