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# URODYNAMICS OF ORTHOTOPIC SIGMOID NEOBLADDER

## Hypothesis / aims of study

To evaluate the urodynamic characteristics of the urinary reservoir and urethral after orthotopic sigmoid neobladder surgery.

## Study design, materials and methods

Methods: Between June 2003 and March 2012,80 patients underwent orthotopic sigmoid neobladder surgery. Complete urodynamics were performed in all patients with BONITO-II type urodynamic apparatus of Laborie Company, including fulling urinary bladder pressure measurement, pressure-flow study, static and voiding urethral pressure description.

### Results

The volume of urinary reservoir was 400 to 600ml (mean 450ml), residual urine 300 to 100ml (mean 50ml), maximum detrusor pressure 28cmH2O to 45 cmH2O, storage period Pves 25cmH2O $\sim$ 50cmH2O, micturition period Pves 80cmH2O to 110cmH2O. Urethral closure pressure 40 cmH2O $\sim$ 60 cmH2O. The neobladder was high compliant at early stage and low at late stage.

### Interpretation of results

A large capacity of storage,a comparatively high urethral closure pressure and low intravesical pressure ensure the sigmoid neobladder a good continence, and a micturition period Pves much higher than urethral closure pressure enable a good stream. Nondelemial sigmoid neobladder, which have powerful contractile force that ensure bladder emptying ,according with the physiological demands, is an ideal bladder substitution.

### Concluding message

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### Disclosures

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