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URODYNAMIC CHARACTERISTICS AND CLINICAL INTERVENTIONS OF NEUROGENIC BLADDER BY CEREBROVASCULAR ACCIDENT

Hypothesis / aims of study

To explore the urodynamic characteristics and evaluate the clinical interventions efficacy of neurogenic bladder caused by cerebrovascular accident.

Study design, materials and methods

A total of 40 patients underwent a complete urodynamic study with electromyography from March 2007 to July 2011. The data were analyzed retrospectively.

Results

A total of 23 patients (58%) had detrusor overactivity . Of 5 patients (13%) had acontractile detrusor. Of 36 patients (90%) had security bladder. Of 2 patients (5%) had upper urinary tract dilation. None patients (0%) with cerebral disease had detrusor-sphincter dyssynergia. After given clinical interventions according to urodynamic characteristics, 1 of the 2 upper urinary tract dilation patients water disappeared, and the other reduced. Before clinical interventions, quality of life score(QoI) was (4.4 ± 0.6) . At 2 weeks after clinical interventions, QoI was (3.4 ± 1.0) ,which reduced (1.1 ± 1.0) ;and 3 months later it was (2.9 ± 0.8) ,which reduced (1.5 ± 1.0) .

Interpretation of results

There was significant difference in the quality of life score before and after the clinical interventions (P < 0.01). There was also significant difference in the quality of life score between 2 weeks later and 3 months later (P < 0.01).

Concluding message

The main urodynamic characteristic of neurogenic bladder caused by cerebrovascular accident is detrusor overactivity, and the detrusor-sphincter dyssynergia, reflux and upper urinary tract dilation are rare. Clinical interventions according to urodynamic characteristics can protect renal function and improve the quality of life.

Disclosures

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