

## MODIFICATION OF PREPARATION BEFORE URODYNAMIC EXAMINATION OF ELDERLY PATIENTS (REPORT OF 424 CASES)

### Hypothesis / aims of study

As urodynamic examination is a functional test, the accuracy of the results is largely depended on the cooperation and comprehensive ability of the patients. However, most of the elderly patients exist dyspraxia, perceptivity descending and hearing disability, and the accuracy of the urodynamic results will be influenced. Therefore, we use reminding card and individual preparation schedule to improve the preparation before urodynamic examination aiming at enhancing the accuracy of the results.

### Study design, materials and methods

Urodynamic examination after modification of the preparation approach according to the elderly patients' pathophysiological characters were performed to 424 elderly patients (experimental group), and 248 elderly patients (control group) before the approach improved in our center were collected as the controls. The psychological, food, bladder and bowel preparation were explained in detail to the elderly patients and their families at the day before examination and the reminding cards and preparation schedule were explained to them. Then, the patients' compliance, discontinuation and repetition rates of urodynamic examination were compared between the two groups.

### Results

The compliance of patients and the discontinuation and repetition rates between the two groups are shown in Table 1.

Table 1 The compliance, discontinuation and repetition rate between the two groups

Group	Age (y)	discontinuation rate	repetition rate	compliance		
				fully	partially	none
Control	69.1±6.7	6.9%(17/248)	21.4%(53/248)	59.3%(147/248)	35.9%(89/248)	4.8%(12/248)
Experimental	70.9±6.9	1.2%(5/424)	8.5%(36/424)	92.5%(392/424)	7.5%(32/424)	0
<i>t</i> / <i>χ</i> <sup>2</sup>	3.298	14.176	21.487	106.428	83.214	
<i>P</i>	0.001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001*

\*Fisher exact possibility

### Interpretation of results

Although the body function and perceptivity of elderly patients are not very well, however, as multiple measures were adopted to guide the preparation before urodynamic examination, the compliance of patients can be enhanced and the discontinuation and repetition rates of urodynamic examination could be limited.

### Concluding message

The improved preparation approach according to the pathophysiological characters of elderly patients could enhance the patients compliance, improve the preparing condition, and then reduce the discontinuation and repetition rate of urodynamic examination. It is worth to popularize in the urodynamic centers.

### Disclosures

**Funding:** NONE **Clinical Trial:** No **Subjects:** HUMAN **Ethics Committee:** Ethics Committee of The First Affiliated Hospital of Zhengzhou University **Helsinki:** Yes **Informed Consent:** Yes