

## PROBE OF THE METHOD OF INTERMITTENT CATHETERIZATION BY RELATIVE SAFE BLADDER CAPACITY TO TREAT VESICAL-URETERAL REFLUX

### Hypothesis / aims of study

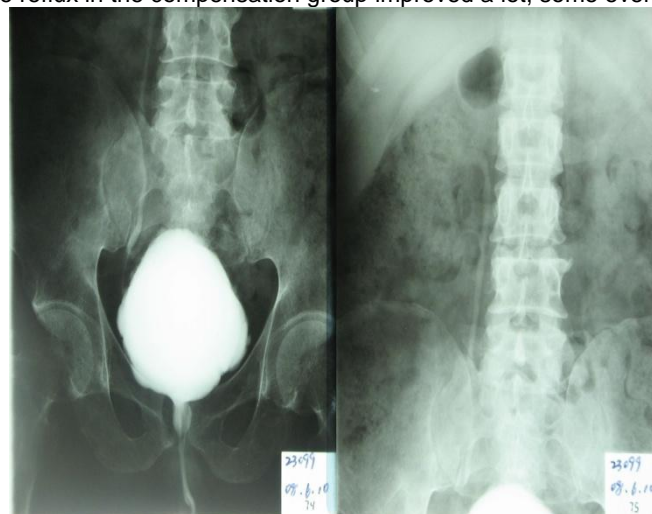
To investigate the effects and indications of the method of intermittent catheterization(IC) by relative safe bladder capacity (RSBC) to treat vesical-ureteral reflux.

### Study design, materials and methods

There were 23 completed SCI patients, age between 7 years~45 years, 15 patients without vesicoureteral reflux injured 1~3months in the control group, 3 patients in the compensation group and 5 patients in the decompensation group, the reflux in the compensation group affected only ureter, however the reflux in the decompensation group affected not only ureter but also the pelvis. All these patients were taken intermittent catheterization according to their own RSBC accompanied with supersonic device, the times of IC a day is that the average total urine volume one day was divided by RSBC, the observation time is over 2 years. During the observation some medicine was used to enlarge some patients bladder capacity.

### Results

According to this method, there were no reflux in the control group; the reflux in the compensation group improved a lot, some even



disappeared, there were no change in the decompensation group.



Picture 1 Compensation group

### Interpretation of results

The results showed vesical-ureter reflux disappeared in 2 compensation patients, the another compensation reflux improved a lot. In this way there were no reflux in the control group. Because of long time pathological changes the ureter muscle and bladder detrusor was in the state of decompensation, this method was no use to change it.

### Concluding message

The method of IC by RSBC can prevent vesical-ureteral reflux to the SCI patients, even it can cure some compensation vesical-ureteral reflux, yet its no use to the decompensation reflux.

<b>Specify source of funding or grant</b>	Beijing Capital medicine development funding 2005
<b>Is this a clinical trial?</b>	Yes
<b>Is this study registered in a public clinical trials registry?</b>	Yes
<b>Specify Name of Public Registry, Registration Number</b>	Beijing Capital medicine development funding 2005
<b>What were the subjects in the study?</b>	HUMAN

<i>Was this study approved by an ethics committee?</i>	Yes
<i>Specify Name of Ethics Committee</i>	Beijing Rehabilitation Research Center Ethics Committee
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes