

URODYNAMIC STUDIES IN INTERSTITIAL CYSTITIS**Aims of Study**

Urodynamic studies are not currently routine in all cases of IC and the disease is mostly a clinical diagnosis after excluding other conditions producing similar symptoms. So we tried to classify the severity of IC using urodynamic study before and during hydrodistension.

Methods

63 patients (men 10, women 53) who were diagnosed as IC between May 1989 to April 2000 were included. Average age was 57 years old (range 24 to 82). Patients had average 53 month history of the disease before diagnosis. Hydrodistension was performed under spinal anesthesia for diagnosis and treatment. We investigated urodynamic study for the patients before hydrodistension and measured intravesical pressure during hydrodistension.

Results

Cystoscopic findings of the bladder after hydrodistension showed glomerulation, hemorrhage, crack, Hunner's ulcer in 77%,62%,26% and 5% respectively in patients. Correlation between cystoscopic findings and intravesical pressure were analyzed before and during hydrodistension. Before hydrodistension, maximum bladder capacity in the patients with a few glomerulation was average 325ml, with severe glomerulation was 184ml, with hemorrhage was 107ml and with crack was 105ml. There was negative correlation between severity of cystoscopic findings and bladder capacity in significantly. Maximum bladder capacity and pressure with a few glomerulation results were average 575ml and 20 cmH₂O, with severe glomerulation were average 503ml and 43cmH₂O, with hemorrhage were average 349ml and 56cmH₂O, with cracks were average 410ml and 63cmH₂O respectively. There was negative correlation between severity of cystoscopic findings and maximum bladder capacity except crack in significantly. There was positive correlation between severity of cystoscopic findings and maximum intravesical pressure in significantly.

Cystoscopic findings	Number of patients	Age	Maximum bladder capacity before hydrodistension (ml)	Maximum bladder capacity during hydrodistension (ml)	Intravesical pressure during hydrodistension (cmH ₂ O)
A few glomerulation	4	59.0±3.37	325.5±105.4	575.0±95.7	20.0±4.2
Severe glomerulation	16	49.0±19.0	183.9±105.1	503.1±191.0 *	43.4±26.5
Hemorrhage	26	57.6±13.1	106.9±55.1 **	348.8±154.6 *	54.9±35.8
Crack	13	61.6±10.0	104.6±51.5 **	410.0±149.7	66.6±27.9 **

* p<0.05 ** p<0.001

Conclusions

It is necessary to treat IC patients according to the severity of symptoms. Intravesical pressure and cystoscopic findings simultaneously may help deciding objective severity of IC.