

The ICSI and ICPI questionnaires are not relevant for the cohort of patients with IC - HL. A urinary tract infection does not exclude the diagnosis of IC but may be an associated condition. Our prognostic model underscores the importance of assessing functional bladder capacity in patients with IC/BPS.

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Aims of study

We evaluated the interrelationships among clinical symptoms, the effects of endoscopic findings on clinical and diagnostic parameters, and developed a prognostic model for Hunner's lesions (HL).

Study design, materials and methods

- Study Site:** Department of Urology, Moscow Multidisciplinary Scientific and Clinical Center named after S.P. Botkin.
- Design:** Prospective cohort study.
- Patients:** 34 patients with Hunner's lesions (HL) were included after screening 60 diagnosed with IC/BPS against inclusion/exclusion criteria.
- Methods:** Analysis of diaries, pain scales (VAS), questionnaires (ICSI, ICPI), lab and instrumental diagnostics. Correlation analysis, pairwise comparisons, and a multivariate logistic model for predicting HL number were performed.

Interpretation of results

Patients with 2 or fewer Hunner's lesions (HL) differ from those with 3 or more HL in terms of urination volume and positive urine culture. A logistic model was developed with a sensitivity of 80.0% and specificity of 64.3%. According to this model, a maximum urination volume of 100 ml or less increases the probability of having 3 or more HL by 85.2%.

Results (Spearman's correlation analysis)

	Number of ulcers	VAS	ICSI	ICPI
Number of ulcers	1,00			
VAS	0,16	1,00		
ICSI	0,15	0,42	1,00	
ICPI	-0,07	0,32	0,56	1,00
Daytime Urinary Frequency	0,12	-0,03	0,07	-0,06
Nighttime Urinary Frequency	0,23	0,11	0,33	0,04
Functional Bladder Capacity	-0,32	-0,28	-0,20	0,02
Extrapelvic Pain	0,06	0,13	0,11	-0,06
Constant Pain	-0,05	0,43	0,57	0,36
Positive Urine Culture	0,22	-0,19	0,19	0,28
Effect of Antibiotic Therapy	-0,03	-0,12	-0,12	-0,31
Urgency Incontinence	0,36	0,18	0,39	-0,00
Age	0,02	0,23	0,27	0,06

Interpretation of results

Parameter	OR	95% CI	p
Functional bladder capacity			
100 ml or less	0.148	0.024–0.926	0.041
> 100 ml			
Positive urine culture	6.990	0.908–53.822	0.062
Note – OR = odds ratio, CI = confidence interval			