

Sodium hyaluronate for chemical-induced cystitis

Reference, study design, country	Sample size, M/F (%), Age (range)	Tumour type Stage/Grade (%)	Toxicity	Intervention	Radiation/ chemo received	Follow-up Median (range)	Results	Comments
Sommariva (2010) Case series Italy	69 M 100% 54-81 years	24 BCG therapy: 13 pT1, 11 pTa, G2-3 12 MMC 40mg + hyperthermia: 4 pT1 G2-3, 7 pTa, 1 Cis	Iatrogenic acute cystitis. Almost all patients complained of frequency with urgency, with or without burning and/or	Intravesical instillations of sodium hyaluronate, 40 mg diluted in 50 mL, held in bladder for 1 hour, weekly for 8 to 24 weeks, depending on how symptoms released. In the first 4 weeks dexamethasone 32 mg was mixed in for its topical anti-inflammatory action and good mucosal penetration. To allow	Weekly BCG therapy. Cystitis symptoms after 3 rd or 4 th dose.	Outcomes measured before and after treatment (8 weeks)	After 4 weeks BC increased in all patients, and urgency and pain decreased. Mean BC increased from 58.4 to 283.7 mL (mean difference 226.1 ml, 95% CI 207.1 to 245 ml). VAS score dropped from 8.6 to 0.9 at the end of treatment (mean difference -7.7, 95% CI -8.12 to	2 treatment failures were due to a inability to keep drugs in bladder for >10mins. No adverse reactions were observed related to the catheters or

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		18 MMC 40mg: 9 relapsing G1-2 and/or multifocal pTa, 7 pT1, 2 pTaG3 who did not tolerate BCG and refused cystectomy	suprapubic pain that got worse as bladder filled. 10 also had urge-incontinence	patients with marked overactive bladder to keep these drugs within the bladder, lidocaine 2% 30 ml was instilled 30 minutes before treatment. When symptoms were particularly acute oral analgesics and antispastics were also provided, and if necessary the penis was clamped to keep the solution in the bladder. Treatment was continued, for another 4 weeks, even in patients with total remission of symptoms to prevent recurrence.			-7.31).	drugs used. Patients with non-invasive bladder tumours were able to restart their cancer therapy. (15 patients with cystitis after RT for prostate cancer not included as results were reported separately)