

1-YEAR EXPERIENCE OF SAFETY AND EFFICACY OF SODIUM HYALURONATE-CHONDROITIN SULFATE SOLUTION IN INTERSTITIAL CYSTITIS/BLADDER PAIN SYNDROME

Hypothesis / aims of study

A damaged GAG layer may lead to pain, increasing solute leakage into the urothelium. A combination of sodium hyaluronate and chondroitin sulfate (SH-CS), which are main components of GAG layer, are commercially available as intravesical instilling solution. In this study, we reviewed the 1-year follow-up experience of SH-CS solution instillation in interstitial cystitis/bladder pain syndrome(IC/BPS), chronic GAG layer destructing conditions.

Study design, materials and methods

Data of 32 patients with IC/BPS who were treated with SH-CS solution (sodium hyaluronate 1.6% and chondroitin sulfate 2% with calcium chloride in water, Ialuriil[®], IBSA Institut Biochimique SA, Lugano, Switzerland) were retrospectively analyzed. Ialuriil[®] was administered intravesically as manufacturer's recommendations; as weekly 4 times, then biweekly 2 times, and then monthly according to patient's response or symptom relapse. Patients' past medical history, pre- and post-treatment VAS (visual analogue scale), individual response to drug were reviewed and analyzed. Patients' data were analyzed up to after one year of initial intravesical instillation.

Results

Mean age of the patients was 51.9 (27-68, median 41) years old. Among 32 intravesically treated patients, 20 were able to finish the protocol. 18 of 20 patients were female and 2 were male patients. Patients' symptoms were improved within average 4.6 weeks from initial instillation. 3 patients (1 female and 2 males) converted to other modality (bladder augmentation) because of unsatisfied results after 6th instillation, and 18 out of 20 patients were taking analgesics/anticholinergics due to their bladder pain on demand not every day. Post treatment VAS were significantly changed from baseline; 8.3 to 3.9 (p<0.05). There had been no drug related adverse reactions during the whole period of instillation.

Interpretation of results

Intravesical instillation of SH-CS (Ialuriil[®]) is effective treatment for IC/BPS without any significant drug related side effects.

Concluding message

Restoring and maintaining GAG layer integrity take significant part for protective action. In this study, repeated intravesical instillation of SH-CS solution was effective for preventing recurrent infections without any significant side reactions within 1-year follow up. These results supporting that intravesical instillation of SH-CS is effective in recovering damaged GAG layer leading to relieving LUTS from diverse diseases presenting GAG layer destruction.

Disclosures

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