TREATMENT WITH INSTILLATION OF HYALURONIC ACID IN PATIENTS WITH A HISTORY OF PELVIC RADIATION THERAPY AND URINARY STORAGE SYMPTOMS

AIMS OF STUDY

To evaluate the clinical utility of bladder instillation of hyaluronic acid in patients with a history of pelvic radiation therapy and storage symptoms with failure of previous treatment with anticholinergic agents.

MATERIAL AND METHODS

- Patients with storage urinary symptoms due to post radiation cystitis treated with bladder instillation of hyaluronic acid.
- Severe urgency episodes with or without incontinence was measured using the PPIUS.
- Eligible patients had three severe urgency episodes with or without incontinence during the 3-day voiding diary period, defined as PPIUS grades 3 and 4, and ≥ eight micturitions/24 hours.
- Prior to instillation, all patients received but did not benefit (persistence of urgency) from antimuscarinic/mirabegron.

RESULTS

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<tr>
<th>SYMPTOMS ASSESSMENT (questionnaires)</th>
<th>BASELINE</th>
<th>TREATMENT</th>
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ASSESSMENT

Flexible cystoscopy
Urodynamic study

INSTILLATIONS

6 weekly + 4 biweekly
Monthly (at least 4 months)

Efficacy

Successful treatment: < three severe urgency episodes with or without incontinence during the 3-day voiding diary period, defined as PPIUS grades 3 and 4, and < eight micturitions/24 hours.

RESULTS

- April 2005 and January 2016
- 39 patients (28 males/11 females)
- Pelvic radiotherapy instillations: median period 30 months (range: 6-407)
- Median follow-up: 23 months (5-129)
- 2 patients with urinary tract infections during treatment (Clavien 2)

INITIAL RADIOTHERAPY TREATMENT

Salvage radiotherapy prostatectomy (13)
Cervix brachytherapy (9)
EBRT prostate (7)
Brachytherapy prostate (6)
Adjuvant radiotherapy of rectal carcinoma (3)
Adjuvant radiotherapy for ovarian cancer (1). Cystoscopy (n=39)
20 % normal (figure 1)
80 % abnormal bladder neck (figure 2) or abnormal bladder findings (figures 3 and 4)
Cystometry (n=24)
Detrusor overactivity (17)
Increased bladder sensation (3)
Low bladder compliance (4)
Pressure Flow
Bladder outlet obstruction (3)

CONCLUDING MESSAGE

Chronic storage symptoms after pelvic radiotherapy and hyaluronic acid:
- Clinical utility
- Few secondary effects
- Maintenance of positive effects during follow-up

We must give more importance to the irritative symptoms after radiotherapy.
Our results suggest that hyaluronic acid may be considered for further studies, including randomized controlled trials with adequate power.

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