

Collado Serra A , LopezGuerrero J A , DominguezEscrig J , Ramirez Backhaus M , GomezFerrez A , Mir C , Casanova J , Iborra I , Casaña M , Solsona E , Arribas L , RubioBriones J
1. Fundación IVO. Valencia, Spain, 2. Fundación IVO, Valencia, Spain, 3. Fundación IVO, Valencia, Spain.

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

MATERIAL AND METHODS

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

	BASELINE		TREATMENT		FOLLOW-UP
SYMPTOMS ASSESMENT (questionnaires)	IPSS/QL ICIQ-UI SF BPIC		IPSS/QL ICIQ-UI SF BPIC		IPSS/QL ICIQ-UI SF BPIC
ASSESMENT	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				

Figure 1



Figure 2

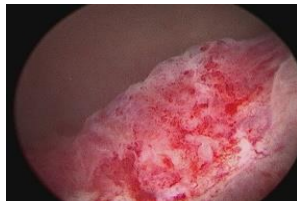
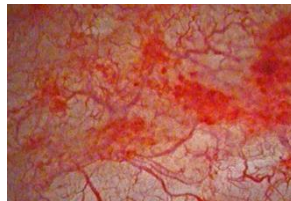


Figure 3



Figure 4



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)

	Baseline	Treatment	FOLLOW-UP
IPSS score	17.23 (6.88)	13.66 (7.80) p=0.007	12.41 (6.89) p=0.984
IPSS items 2,4,7	9.26 (3.24)	7.24 (3.74) p=0.003	6.14 (3.73) p=0.876
IPSS item 4	3.26 (1.57)	2.45 (1.62) p= 0.012	2.00 (1.38) p=0.663
ICQ-UI SF	11.20 (5.58)	8.94 (6.57) p=0.003	7.41 (6.25) p=0.516
BPIC	14.07 (10.75)	7.43 (5.71) p=0.002	8.00 (7.99) p=0.220
Successful treatment		21 of 39 patients 53.8%	18 of 21 patients 85.7%

CONCLUDING MESSAGE

Chronic storage symptoms after pelvic radiotherapy and hyaluronic:

- Clinical utility
- Few secondary effects
- Maintenance of positive effects during follow-up

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