



NEW TECHNIQUES AND TECHNOLOGIES

Functional outcomes after prostatic cryosurgery[☆]

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KEYWORDS

Prostatic cryosurgery;
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symptoms;
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Abstract

Objective: To assess the functional effects of prostatic cryosurgery on micturition.

Material and methods: Prospective study of men who underwent cryosurgery (CS) for prostate cancer between 2013 and 2015. Low urinary tract symptoms (LUTS) and quality of life (QoL) were assessed 1 month before surgery using IPSS questionnaire, a three-day voiding diary (3 DVD) and uroflowmetry with ultrasound-measured postvoid residual volume. Need of medical treatment for LUTS was also recorded. The same assessment was performed at 3, 6 and 12 months after CS. Outcomes after surgery were compared to those prior to surgery.

Results: Forty-five patients underwent a CS during the study period, of whom 25 patients could be recruited in the study. Mean age was 73.5 years (range 66–84). Nineteen CS (76%) were performed as a primary procedure, while 6 CS (24%) as a salvage procedure. No statistical differences were found comparing results of IPSS, QoL, D3vd or uroflowmetry and PVR at 3, 6 or 12 months after CS compared to before surgery. Before CS, 8 (32%) patients were on medical treatment for LUTS, while at 6 and 12 months after surgery, 3 (13.6%) and 2 (9.5%) patients required some medication, respectively.

Conclusion: According to the punctuation of IPSS, QoL questionnaire, and a 3-day voiding diary, LUTS does not worsen after CS. Prostatic cryosurgery does not seem to impact uroflowmetry results.

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PALABRAS CLAVE

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Resultados funcionales después de crioterapia prostática**Resumen**

Objetivo: Evaluar las implicaciones funcionales de la crioterapia (CT) prostática sobre la micción.

Material y métodos: Estudio prospectivo de los pacientes tratados mediante CT prostática por cáncer de próstata entre 2013 y 2015. Un mes previo a la cirugía se realizó el cuestionario IPSS con una pregunta sobre calidad de vida (QoL), un diario miccional de 3 días (DM3D) y una flujometría con cálculo ecográfico del residuo posmiccional (RPM). También evaluamos la necesidad de tratamiento médico para sintomatología del tracto urinario inferior (STUI). A los 3, 6 y 12 meses tras la CT, los pacientes se sometieron a la misma evaluación. Los resultados tras la cirugía se compararon con los previos a CT.

Resultados: Cuarenta y cincopacientes se sometieron a CT en el período del estudio y 25 pudieron incluirse en el estudio. La edad media fue 73,5 años (rango 66-84). Diecinueve CT (76%) se realizaron como procedimiento primario, mientras 6 CT (24%) como procedimiento de rescate. No se encontraron diferencias significativas en los resultados del IPSS, QoL, DM3D, o RPM entre los 3, 6 o 12 meses tras la CT respecto a antes de la CT. Previo a la CT, 8 (32%) pacientes recibían tratamiento médico para STUI, mientras a los 6 y 12 meses, 3 (13,6%) y 2 (9,5%) pacientes recibían tratamiento, respectivamente.

Conclusión: De acuerdo con los resultados del IPSS, QoL y diario miccional, la CT no empeora la STUI. La CT no parece afectar a los resultados de la flujometría.

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Introduction

Prostatic cryosurgery (CS) is a minimally invasive treatment of localized prostate cancer, with the aim of providing equivalent oncologic safety to radical prostatectomy or radiotherapy with reduced toxicity and improved functional outcomes.¹

So far, the majority of studies focus their analysis on the oncologic results of CS and its most widely accepted complications. A rate of incontinence requiring the use of pads of 2.9%,² erectile dysfunction in 91% of patients,² rectal fistula in less than 0.5% of cases,^{2,3} urethral stricture in about 3% of patients,⁴ temporary urinary retention in 6% of cases,⁵ and the need for a transurethral resection of the prostate (TURp) has been reported in approximately 1% of cases.⁵ Since 2008, 164 CS have been performed in the Hospital Clinic of Barcelona, and the complication rate observed is similar to that previously described, with a 99% rate of erectile dysfunction, 8% of temporary urinary retention, 1.8% of incontinence requiring pads, 2.5% of urethral stricture, 1.2% of TURp, and 0% of fistula.

Little literature is found detailing functional outcomes of CS regarding the occurrence of lower urinary tract symptoms (LUTS).^{3,6} Due to its pathophysiology,⁷ it seems reasonable that cryosurgery can lead to LUTS. Thus, our objective was to assess the functional effects of prostatic cryosurgery on micturition.

Materials and methods**Patient population**

Prospective study of those consecutive men who underwent a CS for a localized or locally advanced prostate cancer between 2013 and 2015. Among 45 patients who underwent a CS in that period, 18 patients did not consent the inclusion and 2 patients were on a dialysis programme without diuresis. Thus, 25 patients were recruited. Patients' characteristics are summarized in Table 1. Ethical approval was obtained from the Ethical Board and all patients signed a written informed consent prior to entering the study.

Pre-procedure preparation and data collection

Before surgery, all patients underwent a transrectal ultrasound (TRUS) to measure the prostate volume. Seven (28%) patients received 3 months of hormonal treatment due to a prostate volume greater than 40ccs. Patients' low urinary tract symptoms were evaluated 1 month before surgery with the IPSS questionnaire, which includes a single question regarding quality of life (QoL), a 3-day bladder diary (3dBD) and an uroflowmetry with ultrasound-measured post-void residual urine (PVR). The need for medical treatment for LUTS was also recorded.

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