

Pain Prevents The Early Activation Of Inflatable Penile Prostheses

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Abstract

Introduction:All prosthetic implants are subject to fibrous capsule formation. If capsule formation occurs around a deflated inflatable penile prosthesis (IPP) this may constrict inflation, decreasing the length, girth of the erect penis. To minimise this risk, experts now recommend activation and cycling of the prosthesis as early as two weeks. Accordingly, from 2011, we aimed for early activation of all devices implanted at our institution.

Materials and Methods:We conducted a retrospective audit of all IPPs implanted at our institution in 2011. All cases were carried out in accordance with the 'Perito Minimally Invasive Technique'. Operation and review notes were accessed via electronic medical records. **Results:** 10 cases of IPP implantation were performed at our institution in 2011. The average age of our patients was 54 years (range 28 to 69). Only one patient was able to activate his prosthesis at two weeks post operatively. The remaining 90% patients were unable to activate their prosthesis due to pain. The mean time between implantation and activation was 44 days (range 17 to 57). **Conclusion:**Our data suggests that the early activation of IPPs, despite being beneficial for capsule prevention, may not be possible due to pain in the majority of cases.

INTRODUCTION

All prosthetic implants are subject to fibrous capsule formation. If capsule formation occurs around a deflated inflatable penile prosthesis (IPP) this may constrict inflation, decreasing the length, girth and shape of the erect penis [1]. Capsule formation around an implant may be reduced by expansion exercises [2]. To minimise the risk of capsule formation, experts are now recommending activation and cycling of the prosthesis as early as two weeks [3]. Thus patients are advised to begin cycling the device at two instead of six weeks post-operatively. Accordingly, from 2011, we aimed for early activation of all devices implanted at our institution. We present an audit of our experience one year on.

MATERIALS AND METHODS

We conducted a retrospective audit of all cases of IPP implantation performed at our tertiary institution in 2011. All prosthesis were implanted via an infrapubic approach in accordance with the 'Perito Minimally Invasive Technique,' whereby a 3cm infrapubic incision is made, with 1.5cm corporotomy incisions. [4]. This technique included placement of a drain in the scrotum for 24 hours to prevent painful hematoma collection around the pump, and reduce

risk of infection. All implantations were performed by the same prosthetic urologist. 10 penile prostheses were implanted; the AMS 700 in 6 cases, and the Coloplast Titan in 4 cases. All patients were admitted to the hospital overnight. All patients had their drain removed, and were discharged the following morning. Patients were followed in the outpatient clinic at two weeks where an attempt was made to activate the device. Should pain prevent activation a follow up appointment was made at two weekly intervals until activation and cycling could occur. Patients were then reviewed at six months to ensure that no complications occurred.

Operation and review notes were accessed via electronic medical records. De-identified patient demographic information, including age and cause of impotence where recorded. Additionally, time to successful activation of the device (full inflation) was calculated. As this study represented evaluation of current practice, ethics approval was not required by our institution. No funding was received to complete this project.

RESULTS

10 cases of IPP implantation were performed at our

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