

ActiCuf™ Compression Pouch - A Novel Way to Manage Light to Moderate Male Urinary Incontinence

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Purpose: A pilot study to assess a device intended to prevent urine leakage in males with light to moderate urinary incontinence.

Materials and Methods: Twenty-two patients who were seen at the Minneapolis VA Medical Center with light to moderate urinary incontinence were offered to participate in the study. They were given a supply of the devices and instructed on their use. The study lasted from two to five weeks, since some of the candidates who initially described discomfort were switched to a modified version. Patients satisfaction with the device was obtained by a questionnaire, and this was correlated with patient's attributes. The ActiCuf Compression Pouch, by GT Urological, LLC, Minneapolis, Minnesota is a penile compression device that is comprised of two main components; a penile clamp and an absorbent pouch. The device is intended to prevent urine leakage in males with light to moderate urinary incontinence. More specifically, this disposable device consists of a deformable plastic spring intended to apply localized urethral pressure sufficient to prevent urine leakage. Any inadvertent leakage that may occur is captured and absorbed by the absorbent attachment which surrounds the penis.

Results: Eighty six percent reported that the ActiCuf Compression Pouch greatly or somewhat reduced leakage and 85% thought that it absorbed well or somewhat well. Ninety percent felt the device was easy or somewhat easy to put on and 95% felt it was easy to somewhat easy to remove. Eighty four percent stated that the device was either very or somewhat comfortable to wear and 57% said they would purchase the device in the future. Of the eight patients who stated that they would not purchase the device, one had Parkinson's disease and had trouble putting it on, one thought it was uncomfortable to wear, one could not put it on properly, one stated it would not stay on, one had a partial amputation of his fingers and one simply said it did not work for him. Of interest is that of the patients who were somewhat or not satisfied with the device, 75% had a BMI > 30 verses 15% of those who were satisfied.

Conclusions: The ActiCuf Compression Pouch device is overall a very socially acceptable, reliable and convenient alternative for those men with light to moderate urinary incontinence. It appears to be a very acceptable alternative to the use of condom catheters, diapers, male pads or a Cunningham clamp. However, it might not be an ideal management option for obese patients or those with manual dexterity problems.