

Urethral sleeve sensor: a non-withdrawal method to measure maximum urethral pressure

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Abstract

Introduction and hypothesis This study seeks to evaluate axial variation, comparisons with current technology, performance during dynamic conditions, and patient tolerability of the urethral sleeve sensor (USS) for maximal urethral closure pressure (MUCP) measurements.

Methods Eighteen continent and seven stress incontinent women underwent assessments with USS and urethral pressure profilometry (UPP) in random order. Intravesical (p_{ves}) and urethral (p_{ure}) pressure signals were collected and urethral closure pressure (p_{clw}) was calculated. A visual analog scale (VAS) was used to evaluate subject discomfort.

Results The correlation coefficient between MUCP obtained by UPP and USS techniques was 0.86 ($p < 0.001$). Higher USS pressures were obtained with catheter oriented to 12 o'clock. Continent subjects demonstrated higher values of p_{clw} . MUCP became <0 cm H₂O in subjects with clinical leakage during Valsalva, but not in continent subjects. Subjects tolerated the USS technique better than the UPP technique on VAS ($p < 0.001$).

Conclusions USS technology can be used to evaluate the urethra in both static and dynamic conditions and is better tolerated than withdrawal techniques.

Keywords Profilometry · Sleeve sensor · Urethral pressure · Urodynamics

Introduction

Whenever bladder pressure exceeds urethral pressure, urinary incontinence or bladder emptying occurs. Activities that increase intra-abdominal pressure (such as coughing, straining, or exercising) result in a corresponding increase in bladder pressure and if that bladder pressure exceeds urethral pressure, stress urinary incontinence (SUI) results. Urethral pressure is typically measured as a profile using a small microtip transducer, a perfused side-hole, or a small air balloon on a semi-rigid catheter which is withdrawn through the length of the urethra with a puller device at a determined rate. These techniques collect pressure measurements at discrete sites along the urethra and a graph indicating the pressure at each of these sites along the length of the urethra is known as the urethral pressure profile (UPP) [1]. Only a small portion of the urethra can be measured at any given instant and these techniques often take 30 s or more to obtain and therefore do not allow reliable measurements of the maximum urethral pressure during Valsalva maneuvers or pelvic floor muscle contractions which cannot be maintained for that time period without fatigue. Some investigators place the catheter in a stationary position when maximum urethral pressure is reached and attempt to measure maximum urethral pressure during dynamic conditions such as Valsalva, cough, or during a pelvic floor muscle contraction (PFMC). However,

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The Non Withdrawal Method 3

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Table of Contents The Non Withdrawal Method 3

1. Understanding the eBook The Non Withdrawal Method 3
 - The Rise of Digital Reading The Non Withdrawal Method 3
 - Advantages of eBooks Over Traditional Books
2. Identifying The Non Withdrawal Method 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Non Withdrawal Method 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Non Withdrawal Method 3
 - Personalized Recommendations
 - The Non Withdrawal Method 3 User Reviews and Ratings
 - The Non Withdrawal Method 3 and Bestseller Lists
5. Accessing The Non Withdrawal Method 3 Free and Paid eBooks

- The Non Withdrawal Method 3 Public Domain eBooks
- The Non Withdrawal Method 3 eBook Subscription Services
- The Non Withdrawal Method 3 Budget-Friendly Options
- 6. Navigating The Non Withdrawal Method 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - The Non Withdrawal Method 3 Compatibility with Devices
 - The Non Withdrawal Method 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Non Withdrawal Method 3
 - Highlighting and Note-Taking The Non Withdrawal Method 3
 - Interactive Elements The Non Withdrawal Method 3
- 8. Staying Engaged with The Non Withdrawal Method 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Non Withdrawal Method 3
- 9. Balancing eBooks and Physical Books The Non Withdrawal Method 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Non Withdrawal Method 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Non Withdrawal Method 3
 - Setting Reading Goals The Non Withdrawal Method 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Non Withdrawal Method 3
 - Fact-Checking eBook Content of The Non Withdrawal Method 3
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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