IncontiMend

A Comfortable Treatment for Male Stress Urinary Incontinence

MALE STRESS URINARY INCONTINENCE (SUI)

The involuntary loss of urine with effort or physical exertion, such as coughing, sneezing, or exercising.

CAUSE

The weakening of urinary sphincter, the junction between the urethra and the bladder.

PROJECT FOCUS: POST-PROSTATECTOMY SUI

This is a major irreversible cause of the condition. Parts of the proximal spinchteric unit are removed alongside the prostate gland, leading to reduced sphincter functionality.

AFFECTED POPULATION

1-in-3 patients diagnosed with prostate cancer undergo radical prostatectomy in the U.S.7

71% of those patients experience SUI within around one year post-surgery.8

Only about 1-in-5 will actually seek treatment, for various reasons.9

CONSEQUENCES

Psychological: Prone to symptoms of anxiety and depression

Social: Disruption of daily routine

Financial: Costs of ineffective treatments

CURRENT SOLUTIONS

<table>
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<tr>
<th>Solution</th>
<th>Price ($)</th>
<th>Durability</th>
<th>Drawbacks</th>
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</table>
| Artificial Urinary Sphincter 1 | 13,952    | 8-10 years  | • Device causing tissue erosion  
|                   |           |             | • Urinary Retention  
|                   |           |             | • Risks of infection and potential postoperative pain                   |
| Pacey Cuff 2      | 89.99     | 6 months    | • Need to remove clamp every 1 to 2 hours to allow urine to flow  
|                   |           |             | • UTI susceptible  
|                   |           |             | • Cannot use while sleeping  
|                   |           |             | • Prone to slippage  
|                   |           |             | • Risk of tissue necrosis  
|                   |           |             | • Painful to use  
|                   |           |             | • May not be suitable for all patient morphologies                     |
| Cunningham Clamp 3 | 38.95     | 3 months    | • Need to remove clamp every 1 to 2 hours to allow urine to flow  
|                   |           |             | • UTI susceptible  
|                   |           |             | • Cannot use while sleeping  
|                   |           |             | • Prone to slippage  
|                   |           |             | • Risk of tissue necrosis  
|                   |           |             | • Painful to use  
|                   |           |             | • May not be suitable for all patient morphologies                     |
| Wiesner Clamp 4   | 29.29     | 4-6 months  | • Need to remove clamp every 1 to 2 hours to allow urine to flow  
|                   |           |             | • UTI susceptible  
|                   |           |             | • Cannot use while sleeping  
|                   |           |             | • Prone to slippage  
|                   |           |             | • Risk of tissue necrosis  
|                   |           |             | • Painful to use  
|                   |           |             | • May not be suitable for all patient morphologies                     |
| Dribblestop Clamp 5 | 19.84    | 3 months    | • Need to remove clamp every 1 to 2 hours to allow urine to flow  
|                   |           |             | • UTI susceptible  
|                   |           |             | • Cannot use while sleeping  
|                   |           |             | • Prone to slippage  
|                   |           |             | • Risk of tissue necrosis  
|                   |           |             | • Painful to use  
|                   |           |             | • May not be suitable for all patient morphologies                     |
| Absorbent Pads 6  | 15-50     | Single use  | • Unfamiliar sensation of wetness  
|                   |           |             | • UTI susceptible  

NEED

Adult anatomically male patients in the U.S. with stress urinary incontinence (SUI) post-prostatectomy need to improve control over the involuntary leakage of their urine in order to decrease their usage of adult briefs.

OPPORTUNITY

Due to the flaws of existing solutions on the market, there is an opportunity for intervention which lies in empowering patients to regain control over their urine flow. Our solution would ensure that patients may comfortably resume the normal course of their daily activities without having to account for managing any significant leakage.

USER NEEDS

Reusable & Affordable  
Low cost and can be used multiple times

Autonomy & Independence  
Can be used by patient without assistance

Adaptable  
Suitable for different patient morphologies

Comfortable & Discreet  
Discreet, long-interval wear

Convenient & Accessible  
Easily adjustable to securely stop leakage

Durable & Robust  
Does not break easily and long-lasting

REFERENCES