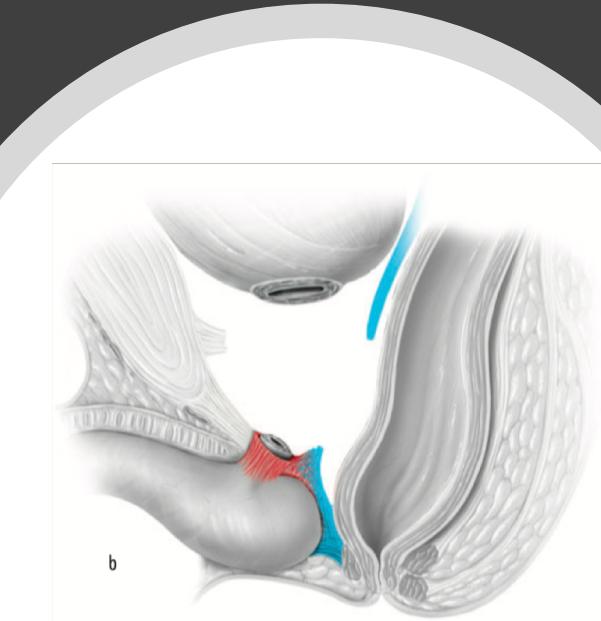
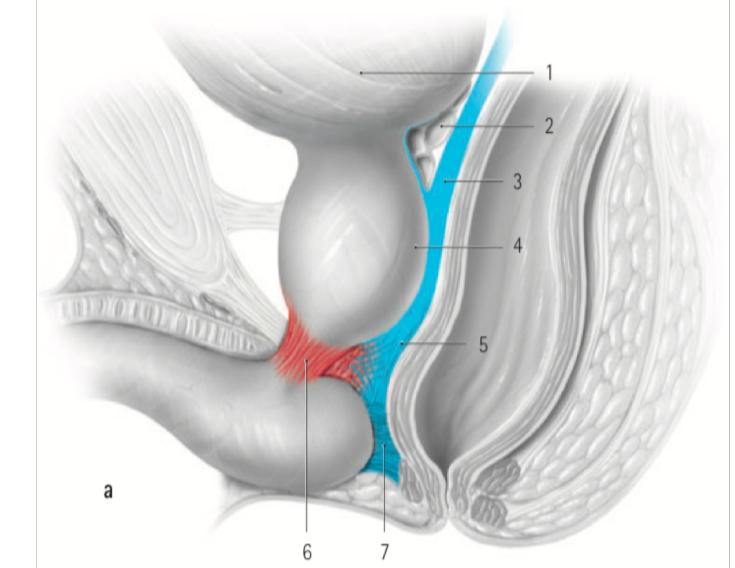


# UroSolutions

Enoch Chang, Michael Good and Apoorva Ramamurthy

# Treating Prostate Cancer

- **Radical Prostatectomy** (RP) is the most common treatment for **prostate cancer**
  - Removal of prostate
  - Often performed **laparoscopically**
- **Complex anatomy** surrounding the prostate which affects treatment outcomes
- Outcomes can have significant medical or social effects



# Clinical Challenge

- The rhabdosphincter is linked to bladder control
  - **Insert stat here**
- Boundary between the rhabdosphincter and the prostate currently identified by eye or by touch (in open RPs)

## Location of Incision of the Prostate

negative margin: urinary incontinence

at the  
boundary

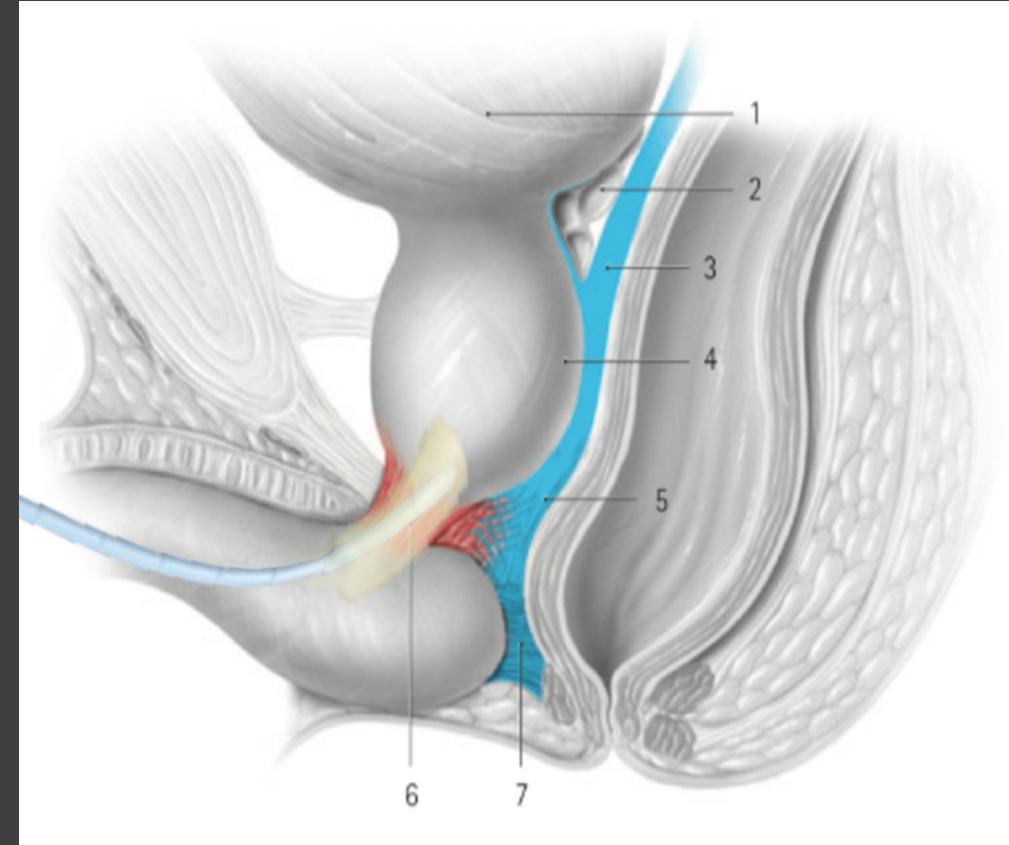
positive margin: recurrence

# Our Solution

A way to accurately identify the boundary between the rhabdosphincter and the prostate to reduce severity of post-procedural urinary incontinence.

# Our Solution

- A catheter based sensor with force detection to quantify the mechanical properties of the tissue
- Catheter is inserted through the urethra
- A balloon with force sensors on it expands to push against the urethral wall
- Boundary is detected and registered spatially



# Benefits

	Imaging resolution of 1 mm	Set-Up and measurement time of 10 minutes	Measurement feedback in 10 seconds	Compatible with existing procedure
<b>Reduces recurrence of cancer and severity of urinary incontinence</b>	✓			
<b>Clearly isolates and identifies the boundaries in imaging</b>	✓			
<b>Provides an indication for where to make surgical incisions</b>			✓	
<b>Simple to implement, set-up and use</b>		✓	✓	
<b>Compatible with laparoscopic surgical devices</b>				✓

# Market Opportunity

**231,000**  
prostatectomies  
annually in the  
United States

x

**\$400**  
price per unit

x

**40%**

= **\$36 million**  
total addressable market

# Competitive Analysis

- There are no existing devices that measure the intermural ureteral length

	UroSolutions	Ureteroscopes	Robotic Surgery Tools
Detects boundary between sphincter and prostate	✓	✗	✗
High imaging resolution	✓	✗	✗
Provides guidance for surgical incisions	✓	✗	✗
Integration with existing surgical procedure	✓	✓	✗

# Our Team



Michael Good | Apoorva Ramamurthy | Enoch Chang

# Overview

**A device to accurately detect the boundary between the sphincter and prostate during radical prostatectomies to reduce severity of urinary incontinence.**

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We are providing a **robust** and **easy** to implement solution that **improves outcomes** in radical prostatectomies.

Q&A