Urology products

Realistic Simulator

Prostate Cancer Treatment Training Model

For advanced minimally invasive procedures

Website: www.aldaver.co.kr
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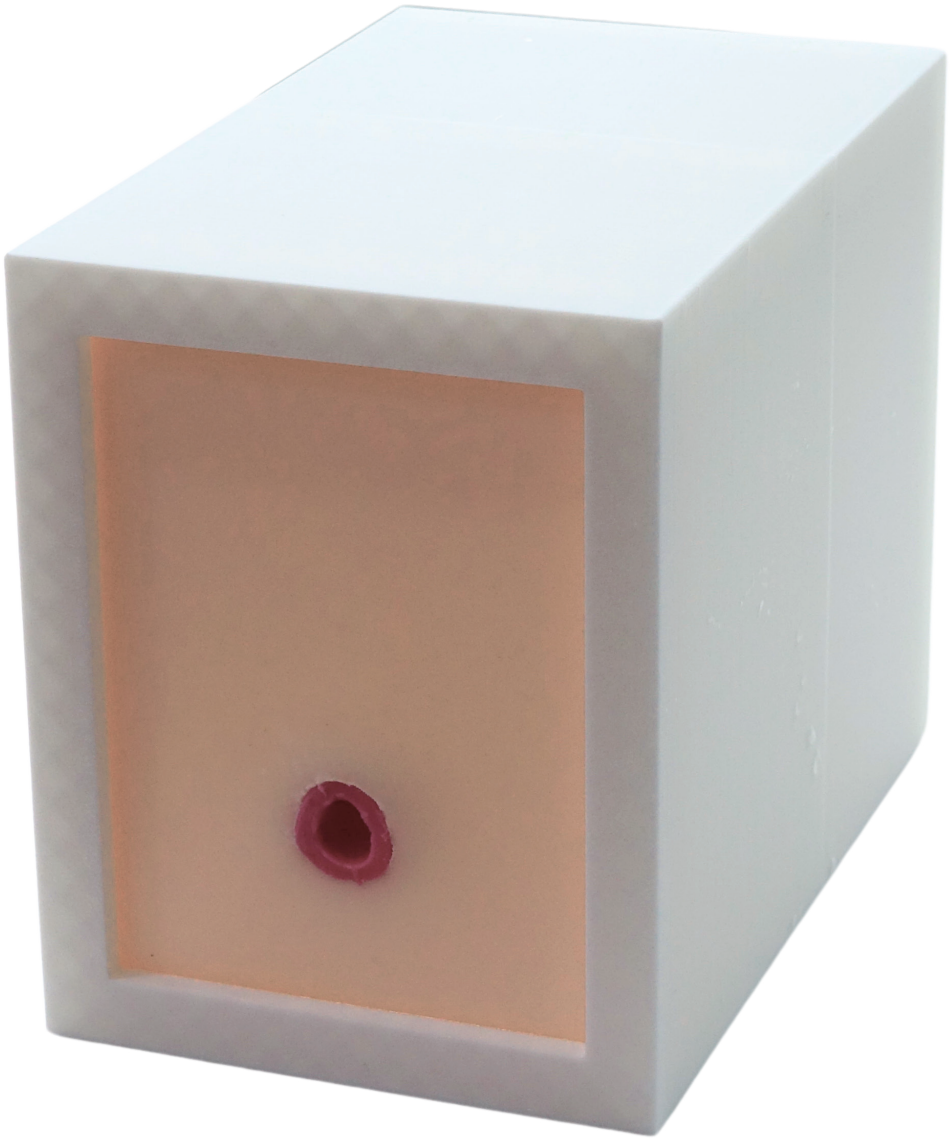
ALDAVER

Prostate Cancer Simulator

Advanced minimally invasive procedures



ALDAVER

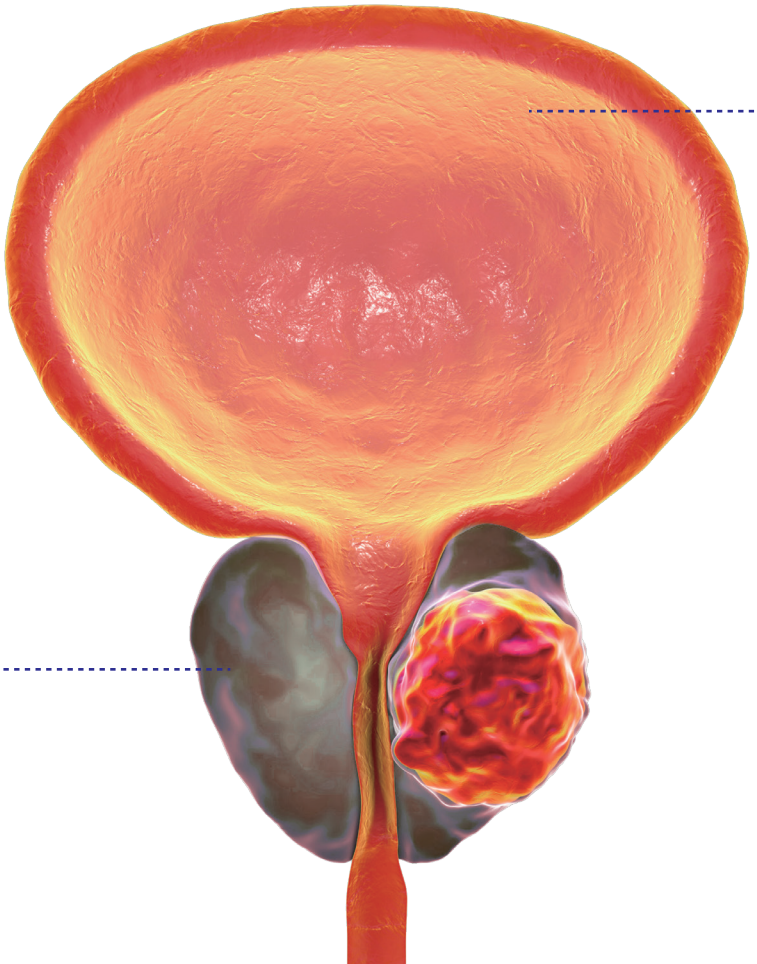
Prostate Cancer Simulator

Introduction

Prostate cancer is one of the most prevalent cancers globally, affecting millions of men each year. Early detection and effective treatment are critical, yet training opportunities for complex surgical procedures are often limited by the lack of realistic models.

ALDAVER introduces the Prostate Cancer Simulator, an advanced training model designed for prostate cancer diagnosis and treatment. This simulator accurately replicates the prostate and surrounding anatomy, incorporating essential organs and structures. It also features HIFU (High-Intensity Focused Ultrasound) reactivity for practicing cutting-edge treatment techniques, along with support for TRUS-guided (Transrectal Ultrasound) imaging and prostate biopsy procedures.

With its clinically accurate design, the Prostate Cancer Simulator provides hands-on, lifelike training to enhance procedural skills and improve patient outcomes.



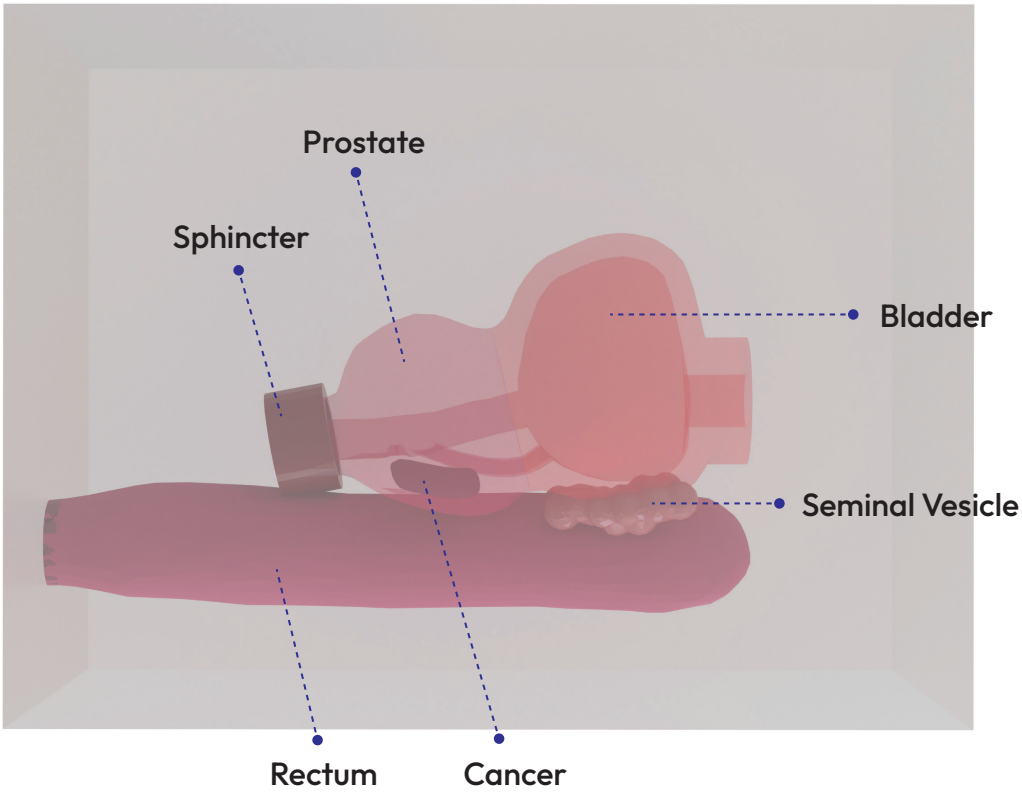
The anatomy of the organ models can be modified to simulate a variety of patient cases with varying levels of difficulty.

The anatomy can be modified based on the location and size of the cancer to simulate different patient cases.

Technical Characteristics

1

Realistic Structure



Human Prostate-Urogenital Anatomy

For the diagnosis and treatment of prostate cancer, essential surrounding organs and structures are implemented, including the bladder, prostate, sphincter, seminal vesicle, and rectum.

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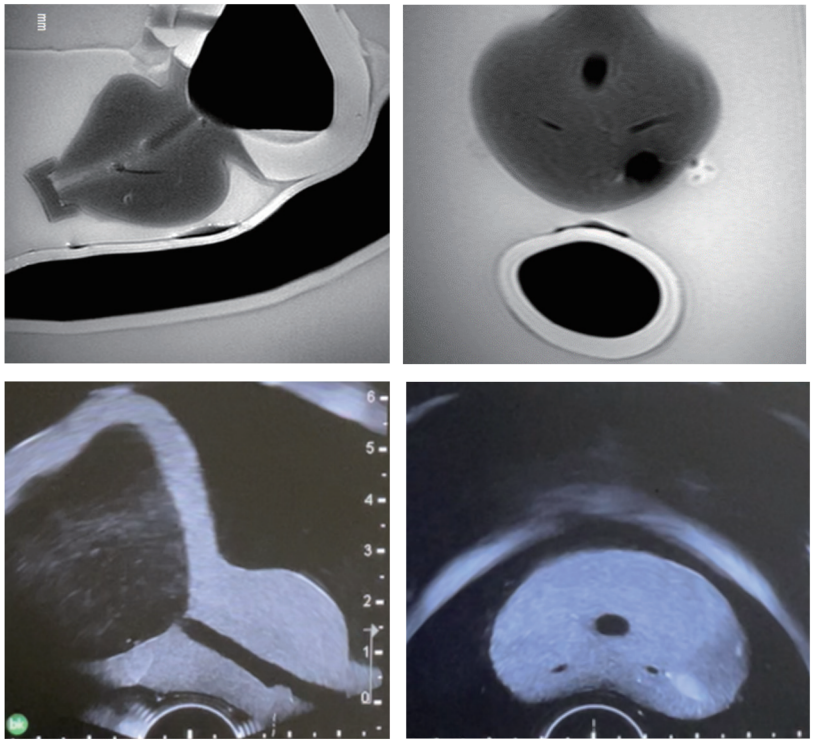
Technical Characteristics

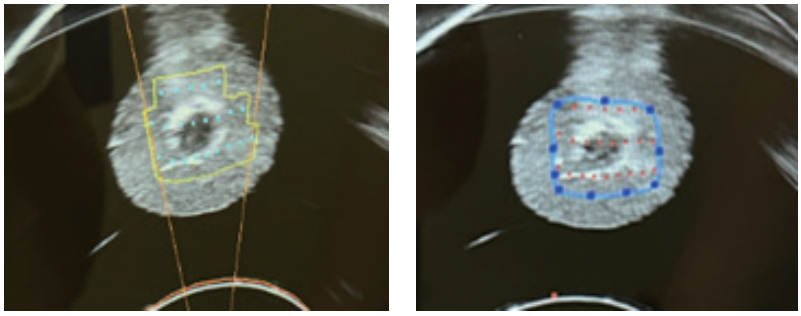
2

Technical Features



Compatible with Medical Imaging Devices: (Top) MRI Image (Bottom) Ultrasound Image

Clear target visibility and differentiation from surrounding tissues, compatible with ultrasound, MRI, etc.



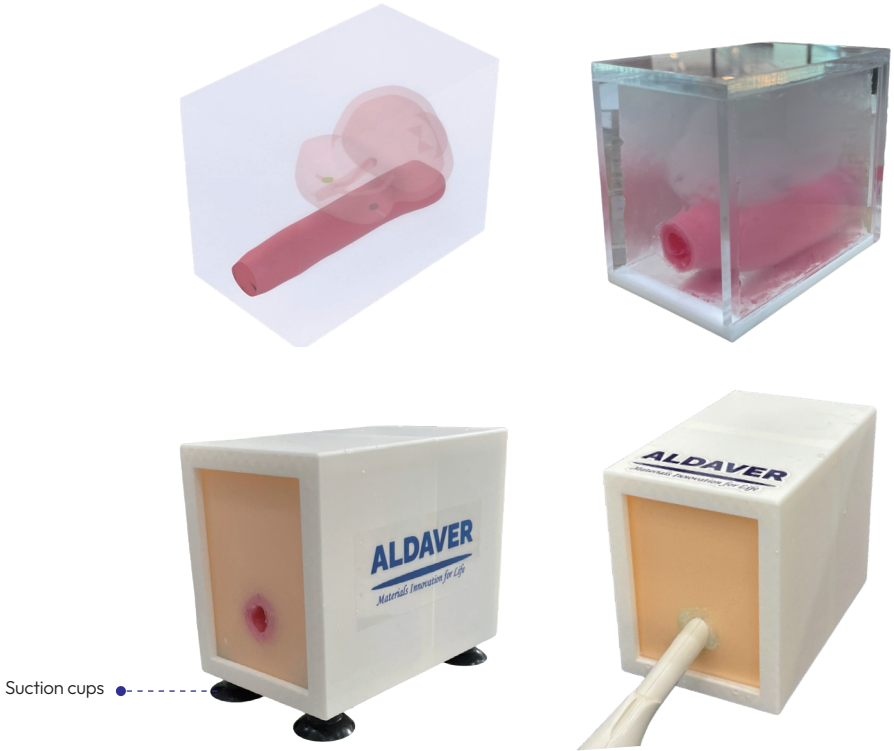
Simulation of Prostate Cancer Treatment Using HIFU: (Left) Before, (Right) After

For prostate cancer diagnosis and treatment simulation, the tumor-mimicking material is designed to exhibit biopsy-compatible properties and realistic HIFU response characteristics.

Technical Characteristics

3

Custom Option



Customization & Usability Features

Our prostate cancer phantom offers extensive customization options for enhanced training scenarios. We provide transparency choices for each organ, ranging from translucent to fully opaque versions to suit different training objectives. We also include usability enhancements such as secure fixing mechanisms for the prostate phantom, addressing common challenges that training managers frequently encounter during setup and use.

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Innovation in medical technology begins with ALDAVER

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