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Robotic Ultrasound and Needle Guidance for Prostate ...

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In a multi-center review, the **technology** had a 36% cancer detection rate in 140 **biopsied** patients with 52% accuracy of predicting **pathology** after radical **prostatectomy**[12]. One detriment of the system, however, is that the 3D image and **biopsy** template does not change with patient position and **prostate** ...

Cited by: 13

Author: Deborah R. Kaye, Dan Stoianovici, Misop...

Publish Year: 2014

New Technology and Techniques | Journal of Urology

[https://www.jurology.com/article/S0022-5347\(15\)05311-2/abstract](https://www.jurology.com/article/S0022-5347(15)05311-2/abstract)

Purpose: **Intraoperative** optical **biopsy technologies** may aid in the identification of important anatomical landmarks and improve **surgical** outcomes of robotic assisted radical **prostatectomy**. We **evaluate** the **feasibility** of confocal laser endomicroscopy during robotic assisted radical **prostatectomy**. Materials and Methods: A total of 21 **patients** with **biopsy** proven **prostate cancer** scheduled for robotic assisted radical **prostatectomy** ...

Cited by: 9

Author: Aristeo Lopez, Dimitar V. Zlatev, Kathleen...

Publish Year: 2016

(PDF) The new era of minimally invasive interventions for ...

https://www.researchgate.net/publication/270132588_The_new_era_of...

The **new era** of **minimally invasive** interventions for **prostate cancer**: robot-assisted laparoscopic radical **prostatectomy** and focal therapy Article (PDF Available) in Open Access Surgery · October ...

The Feasibility of Prostate Cancer Detection by Triple ...

<https://www.sciencedirect.com/science/article/pii/S0302283808002509>

To date there is no reliable **imaging** system to discriminate **benign** and **malignant prostate** tissues. The intention of **radical prostatectomy** in localized **prostate cancer** is to remove all **malignant tissue**, which results in excellent cure rates.

Cited by: 27

Author: Georg Salomon, Thorsten Hess, Andreas...

Publish Year: 2009

MR Imaging-guided Prostate Biopsy with Surgical Navigation ...

<https://pubs.rsna.org/doi/abs/10.1148/radiology.220.1.r01j44263>

Magnetic resonance (MR) imaging-guided **prostate biopsy** in a 0.5-T open **imager** is described, validated in **phantom** studies, and performed in two patients. The needles are guided by using fast gradient-recalled echo and T2-weighted fast spin-echo images.

Cited by: 140

Author: Nobuhiko Hata, Masahiro Iizaki, Daniel

7

Name of Journal: *World Journal of Clinical Cases***Manuscript NO:** 46509**Manuscript Type:** ORIGINAL ARTICLE**Retrospective Study**

Feasibility of prostatectomy without prostate biopsy in the era of new imaging technology and minimally invasive techniques

Nian-Zeng Xing, Ming-Shuai Wang, Qiang Fu, Fei-Ya Yang, Chang-Ling Li,
Ya-Jian Li, Su-Jun Han, Ze-Jun Xiao, Hao Ping

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INTRODUCTION

Prostate cancer is one of the most common malignancy worldwide. The

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Imaging techniques for prostate cancer: implications for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3520096>

Introduction. **Prostate** cancer is the most common noncutaneous malignancy affecting men in the US, with 186,320 **new** cases resulting in approximately 28,660 deaths in 2008. 1 Over the past two decades, **prostate** cancer diagnoses have become more common as a result of the aging population and the widespread use of screening tests (for example, serum PSA testing).

Cited by: 175

Author: Baris Turkbey, Peter A. Pinto, Peter L. C...

Publish Year: 2009

New Technology and Techniques | Journal of Urology

[https://www.auajournals.org/article/S0022-5347\(15\)05311-2/ppt](https://www.auajournals.org/article/S0022-5347(15)05311-2/ppt)

Purpose: Intraoperative optical **biopsy** technologies may aid in the identification of important anatomical landmarks and improve surgical outcomes of robotic assisted radical **prostatectomy**. We evaluate **the feasibility** of confocal laser endomicroscopy during robotic assisted radical **prostatectomy**. Materials and Methods: A total of 21 patients with **biopsy** proven **prostate** cancer scheduled for ...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4000157>

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https://www.researchgate.net/publication/270132588_The_new_era_of_minimally_invasive...

PDF | On Oct 1, 2011, Uri Lindner and others published The **new era** of minimally invasive interventions for **prostate** cancer: robot-assisted laparoscopic radical **prostatectomy** and focal therapy

MR Imaging-guided Prostate Biopsy with Surgical Navigation ...

<https://pubs.rsna.org/doi/10.1148/radiology.220.1.r01jl44263>

Jul 01, 2001 · Magnetic resonance (MR) **imaging**-guided **prostate biopsy** in a 0.5-T open imager is described, validated in phantom studies, and performed in two patients. The needles are guided by using fast gradient-recalled echo and T2-weighted fast spin-echo images. Surgical navigation software provided T2-weighted images critical to targeting the peripheral zone and the tumor.

Cited by: 140

Author: Nobuhiko Hata, Masahiro Jinzaki, Daniel ...