

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 59911

Manuscript Type: CASE REPORT

Retroperitoneal teratoma resection assisted by 3-dimensional visualization and virtual reality: A case report

Tao Liu, Kun Chen, Rong-Mu Xia, Wen-Gang Li

Abstract

BACKGROUND

Primary retroperitoneal tumor is a rare type of tumor with insidious onset, large tumor size at the time of diagnosis, and often extensive involvement of surrounding tissues and blood vessels in the retroperitoneum. Surgery for primary retroperitoneal tumors is technically challenging. Preoperative imaging

Match Overview

- | | | |
|---|--|----|
| 1 | Crossref 25 words
Zhaojie Su, Jiajia Chen, Zhiyuan Shi, Xiaogang Xia, Fuzhen Chen, Boliang Wang, Zhihai Peng, Wengang Li. "Application of ..." | 1% |
| 2 | Internet 12 words
crawled on 19-Oct-2020
www.jove.com | 1% |

Retroperitoneal teratoma resection with the assistance of three-di



ALL

IMAGES

VIDEOS

26,300 Results

Any time ▼

Consensus recommendations of three-dimensional ...

<https://link.springer.com/article/10.1007/s12072-020-10052-y> ▼

Jul 07, 2020 · **Three-dimensional** (3D) **visualization** involves feature extraction and 3D **reconstruction** of CT images using a computer processing technology. It is a tool for displaying, describing, and interpreting 3D anatomy and morphological features of organs, thus providing intuitive, stereoscopic, and accurate methods for clinical decision-making. It has played an ...

Author: Chihua Fang, Jihyun An, Antonio Bru... **Publish Year:** 2020

Post Chemotherapy Robotic Retroperitoneal Lymph Node ...

https://www.researchgate.net/publication/287202608_Post_Chemotherapy_Robotic.

..

Patient summary **Resection** of residual **retroperitoneal** mass after chemotherapy in patients with metastatic testicular cancer can be performed safely via a robotic approach. ... **a case report** ...

Robot-assisted reconstructive surgery of the distal ureter ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1464-410X.2012.11673.x>

Jan 10, 2013 · Following the surgical **technique** in **retroperitoneal** fibrosis, we additionally placed an omental wrap around the diseased ureter to prevent entrapment of the ureter in forming scars 8. An incidentally encountered ectopic ureter in a man undergoing RP is a rare condition that has only been reported in a few **case** reports 32, 33. To our knowledge ...

Cited by: 61 **Author:** Michael Musch, Lukas Hohenhorst, Ann...

Publish Year: 2013

Virtual and Augmented Reality in Oncologic Liver Surgery ...

https://www.researchgate.net/publication/328469096_Virtual_and_Augmented_Reality_in_O...

Oct 01, 2018 · **VR** consists of the 3D **visualization** of the anatomical or pathological structures visible in the medical image through direct volume rendering or 3D surface rendering of ...

Retroperitoneal teratoma resection assisted by 3-dimensional visual



ALL

IMAGES

VIDEOS

20,400 Results

Any time ▼

New three-dimensional head-mounted display system, ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1442-2042.2012.03044.x>

Madoka Kataoka, Hiroshi Fukushima, Yasukazu Nakanishi, Minato Yokoyama, Nobuaki Funata, Toru Motoi, Ken-ichi Tobisu and Fumitaka Koga, **Retroperitoneal Teratoma** in an Adult: A Potential Pitfall in the Differential Diagnosis of Adrenal Myelolipoma, Case Reports in Urology, 2016, (1), (2016).

Cited by: 77

Author: Kazunori Kihara, Yasuhisa Fujii, Hitoshi ...

Publish Year: 2012

Three-dimensional printing – Assisted planning for ...

<https://content.iospress.com/articles/journal-of-x...> ▼

Dec 23, 2019 · 1 Introduction. **Retroperitoneal** tumors are usually large when discovered because of their deep location and insignificant symptoms. In most cases, complete surgical excision is the most preferred treatment, and surgical **resection** with negative microscopic margins is an important prognostic factor [].However, it is sometimes challenging to remove the **retroperitoneal** tumor entirely because of ...

Author: Guoliang Sun, Beichen Ding, Gan Yu,...

Publish Year: 2020

Three-dimensional visualization and virtual simulation of ...

<https://www.researchgate.net/publication/7983145...>

The technique of **3-dimensional tumor visualization and virtual simulation of tumor resections** provides the basis for a successful planning of complex **tumor resections** in children.

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

18,900 Results

Any time ▾

Three-dimensional visualization and virtual simulation of ...

<https://www.researchgate.net/publication/7983145...>

The technique of **3-dimensional** tumor **visualization** and **virtual** simulation of tumor resections provides the basis for a successful planning of complex tumor resections in children.

Consensus recommendations of three-dimensional ...

<https://link.springer.com/article/10.1007/s12072-020-10052-y> ▾

Jul 07, 2020 · Apart from **reconstruction** by a 3D **visualization** software, a further 3D printed model can truly **restore** the characteristics of the organs in vivo and approximate **reality** based on 3DVT. The **advantages** are described as follows [54 , 55 , 56]: (1) the location, size, and shape of the **tumor** can be faithfully represented, and the **relationship** between the **tumor** and **vascular systems** can be observed ...

Author: Chihua Fang, Jihyun An, Antonio Bruno, ... **Publish Year:** 2020

Virtual Reality in Neurointervention

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5999295>

Virtual reality (VR) allows users to experience realistic, immersive 3D **virtual** environments with the depth perception and binocular field of view of real 3D settings. Newer VR technology has now allowed for interaction with 3D objects within these **virtual** environments through the use of VR controllers.

Cited by: 3 **Author:** Chin Siang Ong, Gerard Deib, Pooja Yesant...

Publish Year: 2018

Three-dimensional printing – Assisted planning for ...

<https://content.iospress.com/articles/journal-of-x...> ▾

Dec 23, 2019 · Liu Q. , Gao Y. and Zhao Z. et al., Robotic **resection** of benign nonadrenal **retroperitoneal** tumors: A consecutive **case** series, International Journal of Surgery 55 (2018), 188–192. [5] Chen L. , Zeng X. and Li S. et al. Evaluation of a large adrenal carcinoma with 3D reconstruction of computed tomography images: **A case report** and literature ...

Author: Guoliang Sun, Beichen Ding, Gan Yu, Lia... **Publish Year:** 2020