

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

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

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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 ...

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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 ...

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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

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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

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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

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<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

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<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