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Application of CT-based 3D reconstruction technique in hernia rep

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The 3D reconstruction technique made automated segmentation of the **bony skeleton**, **skin**, **outer abdominal wall**, **vessel**, and hernia sac. The **hernia sac**, **abdominal muscles**, and their anatomic relationship were clearly illustrated in 3D reconstruction images.

Author: Qi Zhang, Xiaojian Fu, Kai He, Hao C... **Publish Year:** 2020

[PDF] Significance of measurements of herniary area and volume ...

https://www.tandfonline.com/doi/pdf/10.3109/10929088.2011.636453

concerning the **application of CT 3D reconstruction** (**3D-CT**) in the **repair** of abdominal wall **hernias**, including obturator **hernias**, slipped **hernias**, intermuscular **hernias** and **hiatal hernias** [3–7]. These papers reported that **CT 3D reconstruction** could identify abdominal **wall defects and hernia** contents more clearly compared with plain **CT** scans, and that diagnosis of **hernia** was easy **based** on **3D-CT**.

Chest wall reconstruction after resection using hernia ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4886030

The patient underwent a **tumor radical resection and chest wall reconstruction** with **hernia repair pieces**, and the postoperative pathology confirmed the chondrosarcoma. There are no postoperative complications such as paradoxical respire after the **surgery** and during our follow-up; furthermore, the patient has maintained good health since the **surgery**.

Cited by: 3 **Author:** Yimin Wu, Guofei Zhang, Zhouyu Zhu, ...
Publish Year: 2016

Classification of Hiatal Hernias Using Dynamic Three ...

https://journals.sagepub.com/doi/abs/10.1177/155335060601300108

Mar 01, 2006 · We have **applied** polygonal **mesh surface modeling techniques** to render dynamic three-dimensional **computed tomography-based models** of the four recognized types of **hiatal hernias**. The resulting images **allow** nearly real-time navigation in ...

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Method. This was a pilot study using a new **technique**, **3D reconstruction**, based on **computed tomography** (CT) scans to measure **abdominal wall defect**, **herniary area**, **herniary volume**, abdominal cavity volume, and the volume of transverse, oblique, and recti abdominis in three patients with incisional **hernias**. Results.

Author: Qi Zhang, Xiaojian Fu, Kai He, Hao Chen... **Publish Year:** 2020

Computed Tomography Imaging in Ventral Hernia Repair: Can ...

https://pubmed.ncbi.nlm.nih.gov/32277369

Introduction: Currently, the need for additional myofascial release (AMR) in addition to retromuscular dissection during open Rives-Stoppa **hernia repair** is determined intraoperatively based on the discretion of the surgeon. We developed a novel method to objectively predict the need for AMR preoperatively using computed tomography (CT)-measured rectus width to **hernia** width ratio (RDR).

Cited by: 1 **Author:** M W Love, J A Warren, S Davis, J A Ewing, ...
Publish Year: 2020

Three-dimensional reconstructed computed tomography ...

https://pubmed.ncbi.nlm.nih.gov/21613771

None of the 19 patients treated based on our **3D reconstruction** method has had neurological complications, except for CSF leakage. This **3D** reconstructed imaging method, combined with Image Overlay, improves the visual understanding of complicated surgical situations, and should improve surgical efficiency and outcome.

Cited by: 10 **Author:** Yohei Bamba, Masahiro Nonaka, Shin Naka...
Publish Year: 2011

[PDF] Significance of measurements of herniary area and volume ...

https://www.tandfonline.com/doi/pdf/10.3109/10929088.2011.636453

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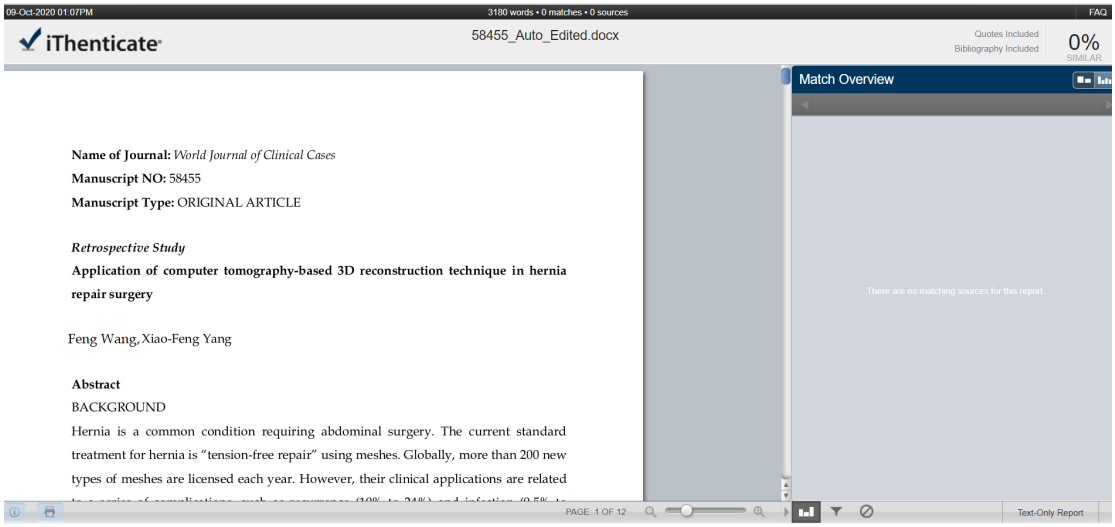
Computed tomography based 3D printed patient specific ...

https://www.sciencedirect.com/science/article/pii/S0976566218302832

Jul 01, 2018 · **3D** printing is an emerging technology and its use in orthopaedics is being explored. We discuss the role of computed **tomography based 3D** printed patient specific jigs in total knee



Name of Journal: *World Journal of Clinical Cases*
Manuscript NO: 58455
Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Application of computer tomography-based 3D reconstruction technique in hernia repair surgery

Feng Wang, Xiao-Feng Yang

Abstract

BACKGROUND

Hernia is a common condition requiring abdominal surgery. The current standard treatment for hernia is "tension-free repair" using meshes. Globally, more than 200 new types of meshes are licensed each year. However, their clinical applications are related

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Author: Qi Zhang, Xiaojian Fu, Kai He, Hao C... **Publish Year:** 2020

Quantitative CT Imaging of Ventral Hernias: Preliminary ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4624799

Significance of measurements of **herniary area** and volume and abdominal cavity volume in the treatment of **incisional hernia**: **Application of CT 3D reconstruction** in 17 cases. **Computer Aided Surgery**. 2012; 17 (1):40–5. doi: 10.3109/10929088.2011.636453

Cited by: 4 **Author:** Zhoubing Xu, Andrew J. Asman, Rebec...
Publish Year: 2015

[PDF] Significance of measurements of herniary area and volume ...

https://www.tandfonline.com/doi/pdf/10.3109/10929088.2011.636453

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