

Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 62437

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

The usefulness of computed tomography based three-dimensional reconstructions to assess the critical shoulder angle

Mah D *et al.* Assessing the CSA with 3D-CT reconstructions

Dominic Mah, Uphar Chamoli, Geoffrey C S Smith

Match Overview

- 1** **Crossref** 34 words
Musa B Zaid, Nathan M Young, Valentina Pedita, Brian T Feeley, C Benjamin Ma, Drew A Lansdown. "Radiographic shou ... 1%
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Computed tomography (CT) has been advocated as the best preoperative imaging test for evaluation of these patients (12–17). For PE, the pectus index (or Haller index), a ratio of the measured inside width of the chest divided by the narrowest anterior-posterior diameter of sternum to spine, is commonly used to assess severity (18 , 19).

Cited by: 11

Author: E. Hollin Calloway, Ali N. Chhotani, Yueh ...

Publish Year: 2011

[Use of three-dimensional computed tomography for the ...](#)

<https://www.sciencedirect.com/science/article/pii/S1058274604001454>

Jan 01, 2005 - Preoperative evaluation for a total shoulder arthroplasty includes 2-dimensional analysis of the glenoid through either standard radiographs or computed tomography (CT) images. Recent evidence suggests that these 2-dimensional images may actually misrepresent the 3-dimensional (3D) anatomy of the glenoid. Because 3D reconstructions of CT images allow 3D visualization and ...

Cited by: 270

Author: Young W. Kwon, Kimerly A. Powell, Jae ...

Publish Year: 2005

[3D Computed Tomography - an overview | ScienceDirect ...](#)

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For "anatomical size matching," three-dimensional computed tomography (3D-CT) volumetry is performed both for the donor and the recipient (Figure 46.3) [16,22,23].CT images are obtained using a multidetector CT scanner during a single respiratory pause at the end of maximum inspiratory effort. The upper and lower thresholds of anatomical size matching have not been determined yet.

[Use of Preoperative Three-Dimensional Computed ...](#)

<https://www.researchgate.net/publication/5477877...>

Use of Preoperative Three-Dimensional Computed Tomography to Quantify Glenoid Bone Loss in Shoulder Instability (SS-08) May 2008 Arthroscopy The Journal of ...

[Spiral Computed Tomography With Two- and Three ...](#)

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Oct 22, 1999 - The use of computed tomography with two- and three-dimensional reconstructions in

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Objectives: The objectives of this study were to clarify **the usefulness** of three-dimensional (3D) bronchial images by spiral **computed tomography** (CT) in tracheobronchial stent therapy.

Clinical Usefulness of Three-Dimensional Reconstruction of ...

<https://www.sciencedirect.com/science/article/pii/S0385814612801660>

Jan 01, 1993 · In conclusion, three-dimensional **reconstructions** using a personal computer is useful in the diagnosis and treatment of cholesteatoma. Since its advent, **computed tomography** (CT) scanning has assumed a **critical** role in the development of otolaryngology.

Cited by: 2

Author: Masahiro Kawana, Yuichi Nakano

Publish Year: 1993

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Computed tomography (CT) has been advocated as the best preoperative imaging test for evaluation of these patients (12–17). For PE, the pectus index (or Haller index), a ratio of the measured inside width of the chest divided by the narrowest anterior-posterior diameter of sternum to

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The purpose of this study was to determine if **three-dimensional computed tomography** (3-D CT) scans of the **glenoid** can be used to accurately quantify, by means of a **glenoid** ...

Three-Dimensional Computed Tomography (3-D CT) for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3838878>

Computed tomography (CT) has been advocated as the best preoperative imaging test for evaluation of these patients (12–17). For PE, the pectus index (or Haller index), a ratio of the measured inside width of the chest divided by the narrowest anterior-posterior diameter of sternum to spine, is commonly used **to assess** severity (18 , 19).

Cited by: 11

Author: E. Hollin Calloway, Ali N. Chhotani, Yue...

Publish Year: 2011

Three-dimensional computed tomography for evaluation and ...

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Apr 01, 2011 · **Computed tomography** (CT) has been advocated as the best preoperative imaging test for evaluation of these patients , , , , , . For PE, the pectus index (or Haller index), a ratio of the measured inside width of the chest divided by the narrowest anterior-posterior diameter of sternum to spine, is commonly used **to assess** severity [18] , [19] .

Cited by: 11

Author: E. Hollin Calloway, Ali N. Chhotani, Yue...

Publish Year: 2011

Computed tomography of the shoulders in patients with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2588615>

A relatively high proportion of radiologists (77%) referred to the three-dimensional reconstruction of the upper extremities in their evaluations, and the **use** of the 3-D CT images was associated with an accurate diagnosis of SHEAR ($p < 0.001$). There was not a single case where SHEAR was diagnosed without the **use** of the 3-D CT **reconstructions**.

Cited by: 9

Author: Rahul K Nath, Andrea D Humphries

Publish Year: 2008