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With rapid emergence of **3D printing** technology, **surgeons** have recently started In this paper we have **reviewed** the literature on applications of **3D printing** in **orthopaedic trauma**, There was good correlation between the **preoperative planning** and of distal radius malunions: a **systematic review** and **meta- analysis**.

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2019. 1. 31. - Finally, we asked the **surgeons** if they would **use 3D printing** in their practice. ... **Surgeons** rated the extent of usefulness of the 3D models in **preoperative planning** as a ... Institutional **review board** approval was obtained for the study. a **meta-analysis**," Journal of **Orthopaedic Surgery** and Research, vol.

3

Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 49726

Manuscript Type: META-ANALYSIS

The use of 3D printing in preoperative planning in orthopaedic trauma surgery: A systematic review and meta-analysis

Abstract

BACKGROUND

With the increasing complexity of surgical interventions performed in orthopaedic trauma surgery and the improving technologies used in three-dimensional (3D) printing, there has been an increased interest in the concept. It has been shown that 3D models allow surgeons to better visualise anatomy, aid in planning and performing complex surgery. It is however not clear how best to utilise the technique and whether this results in better outcomes.

AIM

To evaluate the effect of 3D printing used in pre-operative planning in orthopaedic trauma surgery on clinical outcomes.

METHODS

We performed a comprehensive systematic review of the literature and a meta-analysis. Medline, Ovid and Embase were searched from inception to February 8, 2018. Randomised controlled trials, case-control studies, cohort studies and case series of five patients

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Aug 01, 2016 · From **preoperative planning** to **training** and education to **implant designing**, the **use of three-dimensional (3D) printing** is rising and has become more prevalent in **medical** applications over last decade as **surgeons** and researchers are increasingly utilizing the technology's flexibility in manufacturing objects. **3D printing** is a type of manufacturing process in which materials such as plastic or metal are deposited in layers to create a **3D** ...

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3D printing and its applications in orthopaedic trauma: A ...

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All over the world, **orthopaedic Surgeon's** and allied professionals and scientists are enthusiastically **using 3D printing technology** for **designing patient** specific models, instrumentation, implants, **orthosis** and prosthesis, besides **3D bioprinting** of bone and cartilage scaffolding, and the same has been applied for nearly all areas of **orthopaedic trauma surgery**, from head to foot.

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3D haptic modelling for preoperative planning of hepatic ...

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3D printing in general **surgery** is yet to be thoroughly exploited. The most relevant feature of interest with regard to liver **surgery** is the ability to view the **3D** dimensional relationship of the various hepatic and portal veins with respect to tumor deposits when **planning** hepatic resection. **Systematic review** registration number ...

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3D Printing in Liver Surgery: A Systematic Review ...

<https://www.liebertpub.com/doi/full/10.1089/tmj.2017.0049>

Dec 01, 2017 · Background:Rapid growth of three-dimensional (3D) **printing** in recent years has led to new applications of this technology across all medical fields.This **review** article presents a broad range of examples on how **3D printing** is facilitating liver **surgery**, including models for **preoperative planning**, education, and simulation.



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All over the world, orthopaedic Surgeon's and allied professionals and scientists are enthusiastically using 3D printing technology for designing patient specific models, instrumentation, implants, orthosis and prosthesis, besides 3D bioprinting of bone and cartilage scaffolding, and the same has been applied for nearly all areas of orthopaedic trauma surgery, from head to foot.

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Publish Year: 2018

Clinical efficacy and effectiveness of 3D printing: a ...

<https://bmjopen.bmj.com/content/7/12/e016891> ▾

Dec 01, 2017 · Previous systematic reviews summarise 3D-printed medical devices being used in specific medical fields, such as plastic and reconstructive surgery¹⁰ and preoperative planning for liver resections,¹¹ and increasingly available 3D printing processes used in dentistry and mandibular reconstructions.^{12–14} Systematic reviews on the advantages of 3D-printed devices over conventional methods in surgery ...

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(PDF) Systematic Review of the use of 3D Printing in ...

https://www.researchgate.net/publication/321409898_Systematic_Review_of_the_use_of_3D...

following: (1) the use of 3D printing in surgical training, (2) the use of 3D printing in anatomical education, and (3) the use of 3D printed models preoperatively to aid surgical training.

3D Printing for Education and Surgical Planning in ...

<https://www.sciencedirect.com/science/article/pii/B9780323581189000063>

A common use of 3D printing is to aid in surgical planning. In orthopedic surgery, 3D printing has been used across all subspecialties for this purpose. 3D printing of anatomic models allows the development of surgical approaches and testing the feasibility of procedures. 3D models can be used as templates to prebend fixation plates and theoretically allow for less invasive surgery. In more complex cases, the effect on planned surgery such as osteotomy ...

Author: Paul A. Anderson

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