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Aim This article presents a **case report** of autogenous **tooth transplantation** to a site which had insufficient bone volume **using** a sinus lift and **allogenic** bone graft.

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**CASE REPORT.** Autotransplantation of an ectopic impacted premolar with sinus lift and **allogenic** bone graft ... Aim This article presents a **case report** of autogenous **tooth transplantation** to a site which had insufficient bone volume **using** a sinus lift and **allogenic** bone graft. ... Endodontic applications of 3D **printing**, International Endodontic ...

**Cited by:** 5**Author:** N. S. Pang, Y. K. Choi, K. D. Kim, W. Park**Publish Year:** 2011

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## A 3D printed surgical analogue to reduce donor tooth ...

<https://www.tandfonline.com/doi/abs/10.1080/14653125.2017.1371960>

**ABSTRACTS** Surgical trauma and prolonged extra-alveolar exposure of the donor **tooth's** root sheath are both complicating factors during **tooth** autotransplantation surgery. This **case report** describes a 12-year-old female patient who underwent surgical **transplantation** of a maxillary second premolar to a central incisor site. A three-dimensional printed analogue of the donor **tooth** was fabricated ...

**Cited by:** 2**Author:** Richard R. J. Cousley, Andrew Gibbons, ...**Publish Year:** 2017

## Virtual Simulation of Autotransplantation Using 3 ...

<https://www.sciencedirect.com/science/article/pii/S0099239918305879>

The present **case** introduced a new approach in the treatment planning procedure **using** virtual 3D rehearsal surgery before autotransplantation surgery of an immature third molar **tooth**. There have been many reports on the advantages of a CARP model for a donor **tooth** in autotransplantation 7 , 12 , 13 , 14



1

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 48081

**Manuscript Type:** CASE REPORT

**Allogenic tooth transplantation using 3D printing: A case report and review of literature**

Xu HD *et al.* Case report of allogenic tooth transplantation

Hu-Di Xu, Richard J Miron, Xiao-Xin Zhang, Yu-Feng Zhang

### Abstract

#### BACKGROUND

The history of allogenic tooth transplantation can be traced back to 16<sup>th</sup> century. Though there have been many successful cases, much needs to be better understood and researched prior to the technique being translated to everyday clinical practice.

### Match Overview



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5073919>

Oct 21, 2016 · **Additionally**, there are **reports** on the outcomes of **using 3D printing** to make custom implants (12.17 %), molds for prosthetics (3.91 %), models of implant shaping (1.74 %), and **models** for patient selection (0.87 %). Note that some **papers used 3D-printing** techniques for multiple purposes, resulting in a total greater than 100 %.

**Cited by:** 152

**Author:** Philip Tack, Jan Victor, Paul Gemmel, Li...

**Publish Year:** 2016

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<https://www.sciencedirect.com/science/article/pii/S0901502717314170>

**Autotransplantation of teeth using computer-aided rapid prototyping** of a three-dimensional replica of the **donor tooth: a systematic literature review** Author links open overlay panel J.P. Verweij 1 F.A. Jongkees 1 D. Anssari Moin 2 D. Wismeijer 2 J.P.R. van Merkesteyn 1

**Cited by:** 8

**Author:** J.P. Verweij, F.A. Jongkees, D. Anssari ...

**Publish Year:** 2017

### [Autotransplantation of an ectopic impacted premolar with ...](https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2591.2011.01902.x)

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2591.2011.01902.x>

**Aim** This article presents a **case report** of **autogenous tooth transplantation** to a site which had insufficient bone volume **using a sinus lift and allogenic bone graft**. **Summary** An **ectopic**, fully impacted **premolar tooth** was autotransplanted from its **ectopic impaction** site into its original site, where there was insufficient recipient vertical bone volume because of sinus expansion.

**Cited by:** 6

**Author:** N. S. Pang, Y. K. Choi, K. D. Kim, W. Park

**Publish Year:** 2011

### [3D printing in orthognathic surgery – A literature review ...](https://www.sciencedirect.com/science/article/pii/S0929664617304138)

<https://www.sciencedirect.com/science/article/pii/S0929664617304138>

The current available **literature** regarding the **use of 3D printing** methods in orthognathic surgery including 3D computer-aided design/computer-aided manufacturing, rapid prototyping, additive manufacturing, **3D printing**, 3D printed models, surgical occlusal splints, custom-made guides, templates and fixation plates is reviewed.

**Cited by:** 6

**Author:** Hsiu-Hsia Lin, Daniel Lonic, Lun-Jou Lo

**Publish Year:** 2018





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### 3D-printing techniques in a medical setting: a systematic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5073919>

Oct 21, 2016 · The growing surgical applications of 3D printing have made it interesting to analyze the current implementation of this new technology. This article gives an overview of the current usage of 3D-printing techniques in human medicine, more specifically surgery, based on a systematic literature review using three major literature databases.

Cited by: 152

Author: Philip Tack, Jan Victor, Paul Gemmel, Lie...

Publish Year: 2016

### Autotransplantation of an ectopic impacted premolar with ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2591.2011.01902.x>

Aim This article presents a case report of autogenous tooth transplantation to a site which had insufficient bone volume using a sinus lift and allogenic bone graft. Summary An ectopic, fully impacted premolar tooth was autotransplanted from its ectopic impaction site into its original site, where there was insufficient recipient vertical bone volume because of sinus expansion.

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Publish Year: 2011

### Autotransplantation of teeth using computer-aided rapid ...

<https://www.sciencedirect.com/science/article/pii/S0901502717314170>

Autotransplantation of teeth using computer-aided rapid prototyping of a three-dimensional replica of the donor tooth: a systematic literature review Author links open overlay panel J.P. Verweij 1 F.A. Jongkees 1 D. Anssari Moin 2 D. Wismeijer 2 J.P.R. van Merkesteyn 1

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Author: J.P. Verweij, F.A. Jongkees, D. Anssari M...

Publish Year: 2017

### 3D-printing techniques in a medical setting: a systematic ...

<https://biomedical-engineering-online.biomedcentral.com/articles/10.1186/s12938-016-0236-4> ▾

Oct 21, 2016 · The papers described the use of 3D printing for surgical guides, anatomical models, and custom implants. 3D printing is used in multiple surgical domains, such as orthopedics, maxillofacial surgery, cranial surgery, and spinal surgery.

Cited by: 152

Author: Philip Tack, Jan Victor, Paul Gemmel, Lie...

Publish Year: 2016

### Endodontic applications of 3D printing - Anderson - 2018 ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/iej.12917>

The endodontic literature for 3D printing is limited to case reports and pre-clinical studies. Endodontic applications for stent-guided EMS, rapid prototyping of anomalous teeth, autotransplantation and educational modelling are documented within the literature.

Cited by: 7

Author: J. Anderson, J. Wealleans, J. Ray

Publish Year: 2018