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Author: Chandhanarat Chandhanayingyon... Publish Year: 2020

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Tumor-induced bone defects can be reconstructed with three-dimensional (3D) printing technology accurately and anatomically by tailored contour, which can induce bone ingrowth through the porous proofing treatment, reduce long-term mechanical complication, and promote better function of limbs. 5 However, no similar report has been retrieved regarding talus

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[PDF] International Journal of Surgery Case Reports

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Three-dimensional printed, proximal phalangeal prosthesis with metatarsophalangeal joint arthroplasty for the treatment of a **giant cell tumor** of the fifth toe: The first case report Chandhanarat Chandhanayingyonga, Korakod Srikongb, Chedtha Puncreobutr,c,d, Boonrat Lohwongwatanac,d, Rapin Phimolsarntia, Bavomrit Chuckpaiwong,e,* a Division

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Lu M, Min L, Xiao C, et al. Uncemented **three-dimensional-printed** prosthetic replacement for **giant cell tumor** of distal radius: a new design of **prosthesis** and surgical techniques. Cancer Manag Res. 2018;10:265–277. 21.

Cited by: 5 **Author:** Xiang Fang, Hongyuan Liu, Yan Xion...

Publish Year: 2018

Videos of Three-dimensional printed talar prosthesis with bio...

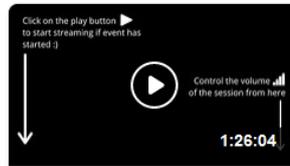
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Biomimetic prosthesis



Removable mandibular



Ocular Prosthesis



10

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 61118

Manuscript Type: CASE REPORT

Three-dimensional printed talar prosthesis with biological function for
giant cell tumor of the talus: A case report and review of literature

Qian-Dong Yang, Mi-Duo Mu, Xu Tao, Kang-Lai Tang

Abstract**BACKGROUND**

Giant cell tumors (GCT) are most commonly seen in the distal femur. These tumors are uncommon in the small bones of the hand and feet, and a very few cases have been reported. A giant cell tumor of talus is rarely seen clinically and could be a challenge to physicians.

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Jan 01, 2020 · A biopsy specimen confirmed a grade 1, giant cell tumor of the bone. An en bloc resection of the proximal phalanx was performed, and the defect was reconstructed with a patient-matched, three-dimensional, printed titanium proximal phalanx endoprosthesis with an MTP joint extension. The postoperative course was uneventful.

Author: Chandhanarat Chandhanayingyong, K... Publish Year: 2020

Total talar replacement with a novel 3D printed modular ...

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Total talar replacement with three-dimensional (3D) printed modular prosthesis was prepared for reconstruction. The 3D printed modular prosthesis was designed exactly as the mirror image of the contralateral talus with complete filling of the sinus tarsi and subtalar joint space.

Cited by: 5 Author: Xiang Fang, Hongyuan Liu, Yan Xiong, W...

Publish Year: 2018

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May 28, 2019 · In this case, the entire talus was replaced with the use of a 3D-printed custom-made talar prosthesis for ankle reconstruction following total talarctomy for Ewing's sarcoma.

Author: Panayiotis J Papagelopoulos, Thomas... Publish Year: 2019

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<https://www.researchgate.net/publication/336177247...>

Giant cell tumor of bone (GCTB) is a locally aggressive tumor, commonly occurs in the long bones, and is rare in the talus and the foot. The talus is a weight-bearing bone and strut reconstruction ...