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Treatment of a Relapsed Radius Osteosarcoma with 3D Printed Personalized Prosthesis

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Clinical Image

A 24-year-old male diagnosed with right radius osteosarcoma 6 years ago. The patient was treated by surgical resection and reconstructed by autogenous fibular fixed with a fibular plate in 2016. Unfortunately, tumor was relapsed in 2021 (Figure 1A, 1B) and treated with Anlotinib for 2 months.

We designed a personalized prosthesis and surgical boundary (Figure 1C, 1D). One month after Anlotinib treatment, the patient was treated with surgical resection and reconstructed by the 3D printed personalized prosthesis (Figures 1E-1G). One month later the motion of articulatio carpi, metacarpophalangeal joints and interphalangeal joint are almost normal (Figure 1H).

Thus, 3D-printed personalized implant is a promising tool to reconstruct the radius bone defect.

Ethical Statement

This study was approved by the ethics committee of the Second Affiliated Hospital of Xuzhou Medical University, and the patient had provided written informed consent in accordance with the Declaration of Helsinki.

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