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Reconstruction Using a Free Vascularized Fibular Graft after Frozen Autograft Reconstruction for Osteosarcoma of the Distal Tibia: A Case Report

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ABSTRACT

Recently we have been performing biological reconstruction for malignant bone tumors of the extremities using frozen autografts. Here we present a case treated with free vascularized fibular graft (FVFG) after this method. A 23-year-old man developed osteosarcoma in his left distal tibia. There was nonunion after frozen autograft reconstruction, which we treated with FVFG. Twenty-four months later, bridging between the host bone and the frozen autograft was achieved. Our department has achieved bone union in almost all cases, but we sometimes encounter cases of nonunion after this method because of delayed blood supply. In these instances, reconstruction using FVFG may represent an attractive choice for salvage treatment.

KEYWORDS

Free Vascularized Fibular Graft; Frozen Autograft Reconstruction; Malignant Bone Tumor

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