

Physician - Peripheral Artery Diseases and Surgery/Percutan Interventions

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Anterior Prosthetic Knee Dislocation with Popliteal Artery Injury: A Case Report

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Anterior dislocation is very rare in patients with a knee prosthesis. Few cases of acute vascular injury after anterior prosthesis dislocation have been reported in the literature with extremely poor outcomes. Herein, we reported the case of a 69-year-old female who developed an anterior knee prosthesis dislocation after a slip and fall at home, injuring the popliteal artery, which was spontaneously reduced. Following orthopedic controls, the patient was taken to the hybrid operating room, and digital subtraction angiography showed a transection of the right popliteal artery with no distal flow. Emergency fasciotomy and popliteal bypass were performed with simultaneous external fixation of the joint. Distal flow was restored and the limb was saved. External fixation of the knee allowed better stabilization of the joint, and preservation of the repaired vascular injury. Although there are no clear guidelines for management, we emphasize the importance of the hybrid operating room for rapid diagnosis of vascular trauma and rapid transition to open surgery to repair the injury.

Keywords: Injury, knee prosthesis, popliteal artery, trauma.



Figure 1. Digital subtraction angiography.

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