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[introduction]Popliteal arterial injury is associated mainly with high energy injury, including knee dislocation and complex fracture of proximal tibia or distal femur. It has been recognized that popliteal arterial injury is one of the most limb-threatening peripheral vascular injuries because there is poor collateral circulation. Revascularization surgery was usually performed with simultaneously with fracture reduction and bone fixation. We report a rare case that popliteal arterial injury was treated by EVT. [case report]A 57-year-old man was admitted to our hospital for a treatment of the open right tibial fracture due to a fall from a height during working. As there was no arterial pulse in right lower extremity, CT angiography (CTA) was done and revealed a total occlusion of the right popliteal artery. With an unstable bone fracture, bone fixation was prior to revascularization. Then endovascular treatment (EVT) was performed for the occlusion. IVUS revealed intimal injury of the vessel and occlusion by thrombus. After aspirating the thrombus, balloon angioplasty resulted in a good revascularization. Follow-up CTA, two months after the procedure, revealed no restenosis and good patency of the popliteal artery. [conclusion]EVT was performed for the treatment of the popliteal artery injury, and successful revascularization was obtained. EVT might be an alternative treatment for popliteal arterial injury.