

# A Case Report on Embolization by Coil in Arteriovenous Fistula due to Trauma

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## Abstract

**Introduction:** Traumatic Arteriovenous Fistula (AVF) Called to an abnormal relationship between artery and vein which occurs in 10% of arterial traumas. If treatment of AVF due to trauma delayed, different outcomes including Heart failure, Varices and Varicose ulcers may accure. In case of chronic traumatic AVF, open surgery may lead to remarkable outcomes, Presence of many lateral veins and varicose veins in fistula, noticeably increases the risk of bleeding during surgery. Endovascular methods such as Fistula Embolization are appropriate alternates with fewer computations instead of open surgeries and easily done by local anesthesia.

**Case Repot:** The patient was a 53-year-old man who was hit by shrapnel pieces in war. In CT angiography, AVF of lower limb was reported. He underwent right lower limb angiography and the fistula between peroneal artery and peroneal vein was amended by edndovascular method with embolization.

**Conclusion:** Edndovascular techniques are more appropriate for treatment of arteriovenous fistula instead of open surgery.

**Key words:** Arteriovenous Fistula/ Coil/ Embolism/ Wounds and Injuries