



Case Report

An Hybrid 2-Stage Technique to Treat a Post-Traumatic Internal Carotid-Jugular Fistula

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Penetrating wounds of the neck involving the carotid arteries can lead to 2 possible and important late sequelae: pseudoaneurysm formation and arteriovenous fistula (AVF), if an artery and the adjacent jugular vein are simultaneously lacerated. Traumatic AVF of the neck are rare complications and if untreated may cause congestive heart failure, cerebral ischemia, thromboembolism, or even rupture complications. Current treatment options for carotid-jugular AVF include operative repair, detachable balloon, coiling, or stenting. We present a hybrid 2-stage technique to treat an internal carotid-jugular vein fistula in a young woman, based first on carotid stenting to reduce the bleeding and reestablish an adequate cerebral perfusion, followed by stent removal and safe vessels surgical reconstruction through carotid-to-carotid bypass and vein repair.