Spinal Epidural AV Fistula Embolization with EVOH Copolymer Using the Scepter Mini Dual Lumen Balloon

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Abstract

Left unattended, spinal epidural arteriovenous fistulas (EAVF) have a potentially severe clinical course. Embolization using ethylene vinyl alcohol (EVOH) copolymers through regular dual lumen balloons has emerged as a potential option for the treatment of spinal arteriovenous fistulas ^{1, 2, 3}; the main issue of this technique being the navigability of these balloons. The Scepter mini is a low-profile dual lumen balloon, which may be helpful for EVOH embolization of spinal AV fistulas; it may help to overcome the navigation drawbacks. In this technical video, we present a case of EVOH embolization of a right T6 spinal EAVF through a Scepter mini balloon. Of note, great attention should be paid to radiculomedullary arteries arising at the same level or at adjacent levels to avoid severe neurologic complication related to uncontrolled migration of the liquid embolic agent. Moreover, excessive use of embolic material should be avoided to prevent spinal cord compression.

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Arnaud Pouvelle: Data collection, critical review of the manuscript

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