

NEUROVASCULAR LIQUID EMBOLIC

Company Name	Product Name	Materials Used	US FDA Indicated Use	Comments
Codman Neurovascular	Trufill n-BCA Liquid Embolic System	The Trufill n-BCA liquid embolic system is comprised of Trufill n-BCA, Trufill ethiodized oil, and tantalum powder; these components must be used as a system	Embolization of cerebral AVMs when presurgical devascularization is desired; PMA device	Trufill n-BCA is a clear, free-flowing liquid, which polymerizes quickly on contact with body fluid or tissue; it offers convenient preparation and delivery, customized radiopacity for visualization, and effective penetration of AVMs
Covidien/ev3	Onyx Liquid Embolic System: Onyx 18 and Onyx 34	EVOH, dimethyl sulfoxide, tantalum	Presurgical embolization of brain AVMs	Onyx liquid embolic system is an EVOH copolymer that provides full penetration and complete packing for neurovascular disorders; obliterating vascular lesions
	Onyx HD-500		Treating intracranial, saccular, sidewall aneurysms that present with a wide neck (≥ 4 mm) or with a dome-to-neck ratio < 2 mm that are not amenable to treatment with surgical clipping	Onyx HD-500 is a high-viscosity formulation liquid embolic for the treatment of intracranial wide-necked aneurysms that provides complete volumetric filling to reduce recanalization and retreatment

AVM, arteriovenous malformation; EVOH, ethylene vinyl alcohol; n-BCA, n-butyl cyanoacrylate; PMA, premarket approval.