

On-line Table: Categories of off-label use of medication and devices in neuroendovascular procedures

	Category I	Category II	Category III	Category IV
Definition	Evaluated in prospective trial/registry as primary intervention for neurovascular procedures	Evaluated in prospective trial/registry as ancillary intervention for neurovascular procedures	Evaluated in case series as primary/ ancillary intervention for neurovascular procedures	Evaluated in prospective trial/registry as primary/ ancillary intervention for non-neurovascular procedures
Medication	Pro-urokinase, alteplase, nimodipine po (by mouth)	Heparin/low-molecular-weight heparin Aspirin, clopidogrel	Reteplase, abciximab, eptifibatide, Tirofiban, Magnesium, tenecteplase/urokinase; direct thrombin inhibitors: IA nitroprusside, IA nitroglycerin, IA nicardipine, IA verapamil	
Devices	Self-expanding stents (for dissection); Wingspan stent; Onyx-500/ <i>n</i> -BCA for non-AVM embolization; coils (HydroCoil, GDC, Complex Helical) for parent artery or venous sinus occlusion	Microwires: (Synchro 2 ^a soft microwire); microcatheters (Excelsior SL10 ^a) Ekosonic SV catheter, ^b AngioJet ^c	Volcano ^d intravascular sonography; balloon catheters (nondetachable Silicone balloon) for temporary parent vessel occlusion/aneurysm embolization; drug-eluting coronary stents (Taxus express, Cypher, Endeavor) and bare metal coronary stents (Multi-Link, AVE S 660) for extracranial/ intracranial occlusive diseases; compliant balloons (HyperGlide, HyperForm) and noncompliant angioplasty balloon catheters (Maverick, ^a Gateway) for cerebral vasospasm; polyvinyl alcohol, gelatin sponge pledgets for facial artery embolizations	Amplatzer occlusion device, Fluency (covered) stents; other covered stents such as Jostent, ^e Willis, ^f X-pert ^e

^a Boston Scientific.

^b EKOS, Bothell, Washington.

^c Possis Medical, Minneapolis, Minnesota.

^d Volcano, Rancho Cordova, California.

^e Abbott Vascular.

^f MicroPort, Shanghai, China.

^g Abbott Vascular.