

MECHANICAL THROMBECTOMY DEVICES

Company Name	Product Name	Sheath Size (F)	Guide-wire (inch)	Working Length (cm)	Mode of Operation	CE Mark	FDA Indicated Use
Arrow International, a Division of Teleflex Medical	Arrow-Trerotola PTD (percutaneous thrombolytic device)	5	None	65	Mechanical thrombectomy	Yes	Used in combination with the rotator drive, permits mechanical declotting of native arteriovenous fistulae and synthetic dialysis grafts
	Arrow-Trerotola OTW PTD	7	.025	65, 120			
Bacchus Vascular, Inc.	Trellis-8 Peripheral Infusion Catheter	8	.035	80 or 120 catheter length with treatment areas of 10, 15, or 30	Isolated thrombolysis through introduction of lytic between two occlusion balloons; low-frequency oscillation of dispersion wire increases the clot surface area to enhance the speed of thrombolytic therapy; aspiration port facilitates removal of remaining thrombolytic and lysed debris	Yes	Controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature
	Trellis-6 Peripheral Infusion Catheter	6	.035	80 or 120 catheter length with treatment areas of 10 or 30	Isolated thrombolysis through introduction of lytic between two occlusion balloons; low-frequency oscillation of dispersion wire increases the clot surface area to enhance the speed of thrombolytic therapy; aspiration port facilitates removal of remaining thrombolytic and lysed debris		

OTHER DEVICES

MECHANICAL THROMBECTOMY DEVICES (CONTINUED)

Company Name	Device Name	Sheath Size (F)	Guide-wire (inch)	Working Length (cm)	Mode of Operation	CE Mark	FDA Indicated Use
Concentric Medical, Inc.	Merci Retrieval System: X6 (1.5–3-mm diameter), L4 (2-mm diameter), L5 (2.5-mm diameter), L6 (2.7-mm diameter), K Mini (2.1-mm diameter)	7, 8, 9	.014	Balloon guide=95; micro-catheter=150; retriever=180	Mechanical thrombectomy with aspiration and proximal flow arrest	Yes	Restoring blood flow in the neurovasculature by removing thrombus in patients experiencing ischemic stroke; patients who are ineligible for intravenous tissue plasminogen activator (IV tPA) or who fail IV tPA therapy are candidates for treatment; retrieval of foreign bodies misplaced during interventional radiological procedures in the neuro, peripheral, and coronary vasculature
Cordis Corporation	Hydrolyser Percutaneous Thrombectomy Catheter	6	.018	65, 100	Conventional contrast power injector is used to inject saline solution through the injection lumen; resultant pressure reduction at the tip nozzle creates a 360° vortex that fragments and aspirates thrombus into the exhaust lumen; thrombolytic material is discharged through the exhaust lumen into a collection bag	Yes	Indicated to percutaneously remove soft, newly formed (<5 days old) thrombus from dialysis shunts of 3–6 mm
EKOS Corporation	EndoWave Ultrasound Accelerated Thrombolysis System (USAT)	5	.035	106, 135	Accelerate thrombolysis by delivery of high-frequency, low-power ultrasound to temporarily loosen fibrin matrix to increase clot permeability and drive the lytic agent deep into the clot for better lytic agent binding	Yes	Intended for the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature
	NeuroWave Ultrasound Accelerated Thrombolysis System (USAT)	3	.014	150	Accelerate thrombolysis by delivery of high-frequency, low-power ultrasound to temporarily loosen fibrin matrix to increase clot permeability and drive the lytic agent deep into the clot for better lytic agent binding; disperse infused fluids into the treatment zone	Yes	Intended for the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature; regional infusion of contrast materials into selected vessels in the neurovasculature; to deliver physician-specified fluids to the coronary vasculature
ev3 Inc.	X-Sizer Catheter System	6, 7	.014	135	Enclosed cutter with vacuum aspiration	Yes	Mechanical removal of thrombus in synthetic hemodialysis access grafts
	Helix Clot Buster Thrombectomy Device (Amplatz Device)	7	None	75, 120	Wall washing impeller technology for clot fragmentation		Dialysis graft and native fistulae

OTHER DEVICES

MECHANICAL THROMBECTOMY DEVICES (CONTINUED)

Company Name	Device Name	Sheath Size (F)	Guide-wire (inch)	Working Length (cm)	Mode of Operation	CE Mark	FDA Indicated Use
ev3 Inc./ FoxHollow	Rinspirator PR7-65	7	.014	65	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris	No	Indicated to infuse physician-specified fluid and remove/ aspirate fluid, fresh, soft thrombi from the peripheral vasculature
	Rinspirator PR7		.014	135			
	Rinspirator CP5 (6-F guide compatible)	5	.014	Hand-held fluidic debris removal; simultaneous rinsing to wash vessel walls and aspiration to evacuate debris; for peripheral and coronary use	Yes	Indicated to infuse physician-specified fluid and remove/ aspirate fluid, fresh, soft thrombi from the coronary and peripheral vasculature	
	Rinspirator CP5 (7-F guide compatible)	6	.014				
IDev Technologies, Inc.	AKónya Eliminator	6	None	60	Combination of manual driven axial, rotational, and/or pulsatile motion	Yes	Indicated for use in the mechanical declotting of synthetic dialysis grafts
	AKónya Eliminator Plus		.018				Indicated for use in the mechanical declotting of synthetic dialysis grafts and native AV fistulae
Kensey Nash Corporation	ThromCat Thrombectomy Catheter System	6	.014	150	High vacuum and saline jets disrupt thrombus and pulls into catheter. Enclosed helix for maceration and removal	Yes	Indicated for removing thrombus from synthetic hemodialysis access grafts and native vessel dialysis fistulae
OmniSonics Medical Technologies, Inc.	OmniWave Endovascular System	7	.018	100	Patented, low-power, transverse ultrasonic energy over the entire length of the catheter's Active Zone is designed to rapidly dissolve thrombus and quickly restore blood flow without damaging surrounding structures	No	Indicated for the infusion of physician-specified fluids, including thrombolytics, and for the removal of thrombus in the peripheral vasculature

MECHANICAL THROMBECTOMY DEVICES (CONTINUED)

Company Name	Device Name	Sheath Size (F)	Guide-wire (inch)	Working Length (cm)	Mode of Operation	CE Mark	FDA Indicated Use	
Possis Medical, Inc.	XMI	4	.014	135	High-velocity water jets enclosed in catheter utilize Bernoulli principle for capture, microfragmentation, and removal	Yes	Removing thrombus in the treatment of patients with symptomatic coronary artery or saphenous vein graft lesions in vessels ≥ 2 mm in diameter before balloon angioplasty or stent placement	
	Spiroflex Rapid Exchange							
	SpiroflexVG Rapid Exchange	5		140			Removing thrombus in the treatment of patients with symptomatic coronary artery or saphenous vein graft lesions in vessels ≥ 3 mm in diameter before balloon angioplasty or stent placement	
	XVG	Breaking apart and removing thrombus from infrainguinal peripheral arteries ≥ 3 mm in diameter						
	Xpeedior 120	6					.035	120
	AVX	6		.035			50	Breaking apart and removing thrombus from AV access fistulae and synthetic conduits
	DVX						90	Breaking apart and removing thrombus from infrainguinal peripheral arteries ≥ 3 mm in diameter
Rex Medical	Cleaner	6	n/a	65, 120	Battery-operated, hand-held drive unit initiates the mechanical rotation of an atraumatic, wall-contact, sinusoidal vortex wire for effective thrombus maceration	No	Indicated for use in the mechanical declotting of synthetic dialysis grafts; currently pursuing native vessel indication	