Mechanical Thrombectomy Device Update						
Company	Device	Sheath Size (F)	Guidewire (in)	Working Length (cm)		
Arrow International, Inc.	Arrow-Trerotola PTD (Percutaneous Thrombolytic Device)	5	None	65		
	Arrow-Trerotola Over-The-Wire (OTW) PTD (Percutaneous Thrombolytic Device)	7	.025	65,120		
Bacchus Vascular	Trellis-8 Peripheral Infusion Catheter	8	.035	80 or 120 catheter length with treatment areas of 15 or 30		
Boston Scientific Corporation	Oasis Thrombectomy System	6	.018	65, 100		
Cordis Endovascular	Hydrolyser Percutaneous Thrombectomy Catheter	6	.018	65, 100		
Concentric Medical, Inc.	Merci Retrieval System	8, 9	.014	Balloon guide = 95; microcatheter = 150; retriever = 180		
Datascope	ProLumen	6	None	65		
EKOS Corporation	Ultrasound Accelerated Thrombolysis System (USAT)	5, 3	.035, .014	106, 150		
ev3	X-Sizer Catheter System	6, 7	.014	135		
	Helix Clot Buster Thrombectomy Device (Amplatz Device)	7	None	75, 120		
	Castaneda Over-The-Wire Brush	6	.035	65		
IDev Technologies, Inc.	AKónya Eliminator	6	None	60		
	AKónya Eliminator Plus	6	.018	60		
Kensey Nash Corporation	ThromCat Thrombectomy Catheter System	6	.014	150		
Kerberos Proximal Solutions	Peripheral Rinspiration System (7-F Sheath Compatible)	7	.014	65, 135		
	Rinspiration System (6-F Guide Compatible)	5	.014	135		
	Rinspiration System (7-F Guide Compatible)	6	.014	135		
OmniSonics Medical Technologies, Inc.	· ·	5	None	60		
Possis Medical, Inc.	XMI	4	.014	135		
	XMI-RX	4	.014	135		
	XMI-RX+	4	.014	135		
	Spiroflex Rapid Exchange	4	.014	135		
	SpiroflexVG Rapid Exchange	5	.014	135		
	XVG	5	.014	140		
	Xpeedior 120	6	.035	120		
	AVX	6	.035	50		
	DVX	6	.035	90		
Rex Medical	Cleaner	6	n/a	65, 120		
Straub Medical	Rotarex Catheter	6, 8	.018	86, 110		
	Aspirex Catheter	6, 8	.018	86, 110		
	Aspirex Catheter	10	.035	95		
	Aspirex Catheter Flex PE	11	.032	135		

Mode of Operation	CE Mark	FDA Indicated Use	
Mechanical thrombectomy		Used in combination with the rotator drive, permits mechanical declotting of native arteriovenous fistulae and synthetic dialysis	
	Yes	grafts	
Isolated thrombolysis		Controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature	
Venturi effect with fragmentation		AV grafts	
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.		Indicated to percutaneously remove soft, newly formed (less than 5 days old) thrombus from dialysis shunts of 3 to 6 mm	
Mechanical thrombectomy with aspiration and proximal flow arrest		Restoring blood flow in the neurovasculature by removing thrombus in patients experiencing ischemic stroke; patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment; retrieval of foreign bodies misplaced during interventional radiology procedures in the neuro, peripheral, and coronary vasculature	
Wall contact with clot maceration properties	No	AV grafts	
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		Intended for the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature (5.2-F peripheral system and 3-F micro system are approved for delivery of lytics in the peripheral system; the 3-F system is also approved for delivery of contrast agents in the neurovasculature)	
Enclosed cutter with vacuum aspiration	Yes	Mechanical removal of thrombus in synthetic hemodialysis access grafts	
Wall washing impeller technology for clot fragmentation	Yes	Dialysis graft and native fistulae	
Wall contact with rotating brush	Yes	Synthetic AV grafts	
Combination of manual driven axial, rotational, and/or pulsatile motion	Yes	Indicated for use in the mechanical declotting of synthetic dialysis grafts	
	Yes	Indicated for use in the mechanical declotting of synthetic dialysing rafts and native AV fistulae	
High vacuum and saline jets disrupt thrombus and pulls into catheter; enclosed helix for maceration and removal		Indicated for removing thrombus from synthetic hemodialysis access grafts and native vessel dialysis fistulae	
Handheld 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 emboli, and thrombi from the peripheral vasculature	
	Yes Yes	Indicated to infuse physician-specified fluid and remove/aspirate fluid, fresh, soft emboli, and thrombi from the coronary and peripheral vasculature	
Non-thermal ultrasonic energy	No	Treatment of thrombosed synthetic dialysis access grafts	
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 prior to balloon angioplasty or stent placement	
		Removing thrombus in the treatment of patients with sympto- matic coronary artery or saphenous vein graft lesions in vessels ≥2 mm in diameter prior to balloon angioplasty or stent placemer	
	Yes	Breaking apart and removing thrombus from infrainguinal periph eral arteries ≥2 mm in diameter	
	Yes	Breaking apart and removing thrombus from infrainguinal periph eral arteries ≥2 mm in diameter	
	No	Breaking apart and removing thrombus from infrainguinal periph eral arteries ≥3 mm	
	Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries ≥3 mm in diameter	
	Yes	Breaking apart and removing thrombus from infrainguinal periph eral arteries ≥3 mm in diameter	
	Yes	Breaking apart and removing thrombus from AV access conduits	
	Yes	Breaking apart and removing thrombus from infrainguinal peripheral arteries ≥3 mm in diameter	
atraumatic, wall-contact, sinusoidal vortex wire for effective thrombus maceration		Indicated for use in the mechanical declotting of synthetic dialysi grafts; currently pursuing native vessel indication	
Detachment, suction, fragmentation, and transport		No	
Suction, fragmentation, and transport	Yes	No	
	No	No	
	No	No	