CLOSURE DEVICES

Company Name	Product Name	Type	Puncture Size (F)	Maximum Wire Compatibility (inch)	FDA Approved	Comments
Abbott Vascular	Perclose A-T	Suture	5–8	.038	Yes	Automated knot for secure, mechanical vascular closure of 5- to 8-F access sites; braided polyester suture closure can be challenged and confirmed at the table
	Perclose ProGlide					Automated knot for secure, mechanical vascular closure of 5- to 8-F access sites; monofilament polypropylene suture closure can be challenged and confirmed at the table
	Prostar XL		8.5–10			Designed to close up to 10-F access sites; braided polyester suture for secure, mechanical closure; closure can be challenged and confirmed at the table
	StarClose	Nitinol clip	5, 6			An extravascular nitinol clip that mechanically closes the arteriotomy to ensure rapid hemostasis; closure can be challenged and confirmed at the table
	StarClose SE					Next-generation StarClose with enhanced ease-of-use design; extravascular nitinol clip that mechanically closes the arteriotomy to ensure rapid hemostasis; closure can be challenged and confirmed at the table
AccessClosure, Inc.	Mynx	Extravascular polyethylene glycol (PEG) sealant	5, 6, 7	Utilizes existing procedural sheath	Yes	Designed to minimize pain; uses extravascular, conformable PEG sealant that provides durable hemostasis; dissolves within 30 days, leaving nothing behind
Cardiva Medical, Inc.	Cardiva Catalyst II	Arteriotomy tamponade	5, 6, 7	Works through existing sheath	Yes	Deployable nitinol disc that provides temporary hemostasis at the arteriotomy, allowing it to recoil to the size of an 18-gauge needle; hemostatic coating on the wire accelerates the clotting cascade quickly facilitating vessel closure, preserving the artery, and leaving nothing behind

Prepared by the editors of *Endovascular Today* in conjunction with the product manufacturers.

CLOSURE DEVICES (CONTINUED)

Company Name	Product Name	Type	Puncture Size (F)	Maximum Wire Compatibility (inch)	FDA Approved	Comments
Morris Innovative	FISH (Femoral Introducer Sheath and Hemostasis) Device	Biomaterial (SIS) seal allows for remodeling of host tissue at the arteriotomy	5, 6, 8	Works through existing sheath	Yes	Closure begins with access as the biomaterial sealant is introduced through the procedural sheath; the biomaterial actively approximates the arteriotomy for sealing where it is most effective, completely healing the vessel without scar tissue formation
St. Jude Medical, Inc.	Angio-Seal VIP, Angio-Seal STS Plus	Mechanical seal	6, 8	6 F=.035; 8 F=.038	Yes	Suture, collagen, and anchor sandwich of the arteriotomy; all components reabsorb within 90 days; FDA labeling for immediate restick
	Angio-Seal Evolution		4–8			Next-generation Angio-Seal with automated collagen compaction and enhanced ease-of-use design; suture, collagen, and anchor sandwich of the arteriotomy; all components reabsorb within 90 days; FDA labeling for immediate restick
	VasoSeal VHD, ES, Elite	Extravascular collagen sponge	5, 6, 7, 8	.038		Extravascular: no permanent intra-arterial component; bioabsorbable, proven collagen supports the natural healing process
	VasoSeal Low Profile		4, 5			Smaller design than VHD to accommodate 4- and 5-F puncture tracts
Sutura	SuperStitch	Polypropylene suture and knot	6–12	Works through existing sheath	Yes	True 6- and 8-F suture delivery through the sheath; does not enlarge arteriotomy; available in 6-, 8-, and 12-F, as well as 12-F extended length
Vascular Solutions, Inc.	Duett Pro, Diagnostic Duett Pro	Thrombin and collagen proco-agulant	5–9	Works through existing sheath	Yes	Utilizes the existing sheath, a balloon catheter, and a procoagulant to achieve hemostasis; Duett Pro is approved for use with GP IIb/IIIa inhibitors and ACT of <400