

**SUPPLEMENTAL MATERIAL****Table 1** Study eligibility criteria

<p>Inclusion criteria</p> <ul style="list-style-type: none"><li>• Subject age <math>\geq 18</math> and <math>\leq 80</math> years with a diagnosis of a ruptured or unruptured intracranial aneurysm judged suitable for selective endovascular treatment by coil occlusion during single procedure.</li><li>• Aneurysm size [largest measurement from the cross-sectional images to determine overall aneurysm size, not just the lumen] <math>\geq 5</math> mm and <math>\leq 16</math>mm.</li><li>• If ruptured aneurysm: either World Federation of Neurosurgical Societies (WFNS) grade 1 or 2, or Hunt and Hess 1 or 2.</li><li>• If unruptured aneurysm: Subject grade Modified Rankin Scale (mRS) 0 – 2.</li><li>• Investigator plans to use <math>\geq 70\%</math> in volume Trellix coils to fill target aneurysm.</li></ul>
<p>Exclusion criteria</p> <ul style="list-style-type: none"><li>• Prior treatment (surgical or endovascular) of the target aneurysm.</li><li>• Planned treatment of multiple aneurysms in index procedure.</li><li>• Planned use of other modified coils (Matrix, HydroCoil, or fibered coils).</li><li>• Planned use of liquid embolic material.</li><li>• Life expectancy less than 12 months.</li><li>• Presence of arteriovenous malformation.</li><li>• Fusiform, mycotic, traumatic, or tumoral aneurysms.</li><li>• Intended or planned aneurysm treatment by parent vessel occlusion.</li><li>• Clipping or endovascular treatment of another intracranial aneurysm performed within 30 days before or planned within 30 days following the index procedure.</li></ul>

**Table 2** Embolization coil specifics

Aneurysm	Coil manufacturer	Coil description	Diameter	Length	TX-PE volume	Volume
			mm	cm	mm <sup>3</sup>	mm <sup>3</sup>
C6 segment of the right ICA	SMM	TrelliX	14	20	39.1	148.5
	SMM	TrelliX	14	20	39.1	148.5
	SMM	TrelliX	11	20	40.1	153.6
	SMM	TrelliX	11	20	40.1	153.6
	SMM	TrelliX	10	20	20.3	78.1
	SMM	TrelliX	9	20	20.5	79.4
C6 segment of the left ICA	Medtronic	Axium Prime 3D Super Soft	6	15	-	10.1
	SMM	TrelliX	5	15	16.0	62.1
	SMM	TrelliX	3	4	3.8	14.4
	Balt	Optima Complex 10 Super Soft	2	6	-	3.0
	Stryker	Target 360 Nano	1.5	3	-	1.5
C6 segment of the left ICA <sup>a</sup>	Balt	Optima Complex Soft	6	11	-	6.7
	SMM	TrelliX	3	8	8.4	32.7
	SMM	TrelliX	3	2	1.6	5.3
C6 segment of the right ICA	MicroVention	Cosmos Microplex 10	6	18	-	13.1
	SMM	TrelliX	3	10	10.7	41.8
	SMM	TrelliX	3	2	1.6	5.3
C6 segment of the left ICA	MicroVention	Cosmos Microplex 10	5	15	-	10.9
	SMM	TrelliX	3	4	3.8	14.4
	SMM	TrelliX	3	2	6.2	21.2
	SMM	TrelliX	3	2	6.2	21.2
	SMM	TrelliX	3	2	6.2	21.2
	SMM	TrelliX	3	2	6.2	21.2
	Balt	Optima Complex 10 Super Soft	2	2	-	1.0
C6 segment of the right ICA <sup>b</sup>	Balt	Optima Complex 10 Soft	5	17	-	8.6
	SMM	TrelliX	4	8	8.1	31.4
	MicroVention	HyperSoft Helical	2.5	4	-	2.0
C6 segment of the left ICA	MicroVention	Hypersoft Helical	4	8	-	4.9
	SMM	TrelliX	3	6	6.1	23.6
Posterior communicating artery, right	Stryker	Target 360 Soft	8	20	-	10.1
	SMM	TrelliX	3	10	10.7	41.8
	SMM	TrelliX	3	6	6.1	23.6
	Stryker	Target 360 Soft	3	6	-	4.6
	Stryker	Target 360 Soft	2	4		
Anterior cerebral artery A1-A2 segment, left	Balt	Optima Complex 10 Standard	5	17	-	12.4
	SMM	TrelliX	3	8	8.4	32.7
	SMM	TrelliX	3	4	7.7	28.9
	SMM	TrelliX	3	4	7.7	28.9
	Balt	Optical Helical 10 Super Soft	2	6	-	3.0

Coils for each case are listed in the order implanted.

C6 segment of the ICA = ophthalmic segment of the internal carotid artery.

TX-PE Volume = Trellix Embolic Coil volume prior to the expansion of the shape memory polymer. Volume = Volume of the coil/Trellix Embolic Coil volume with expanded shape memory polymer.

TX-PE Volume and Volume were determined using the calculator at [www.angiocalc.com](http://www.angiocalc.com) in March 2022.

<sup>a</sup> Illustrated in Figure 3.

<sup>b</sup> Illustrated in Figure 2.

Coil manufacturers:

- Balt, Irvine, California, United States
- Medtronic, Dublin, Ireland
- MicroVention, Aliso Viejo, California, United States
- SMM = Shape Memory Medical, Santa Clara, California, United States
- Stryker, Fremont, California, United States