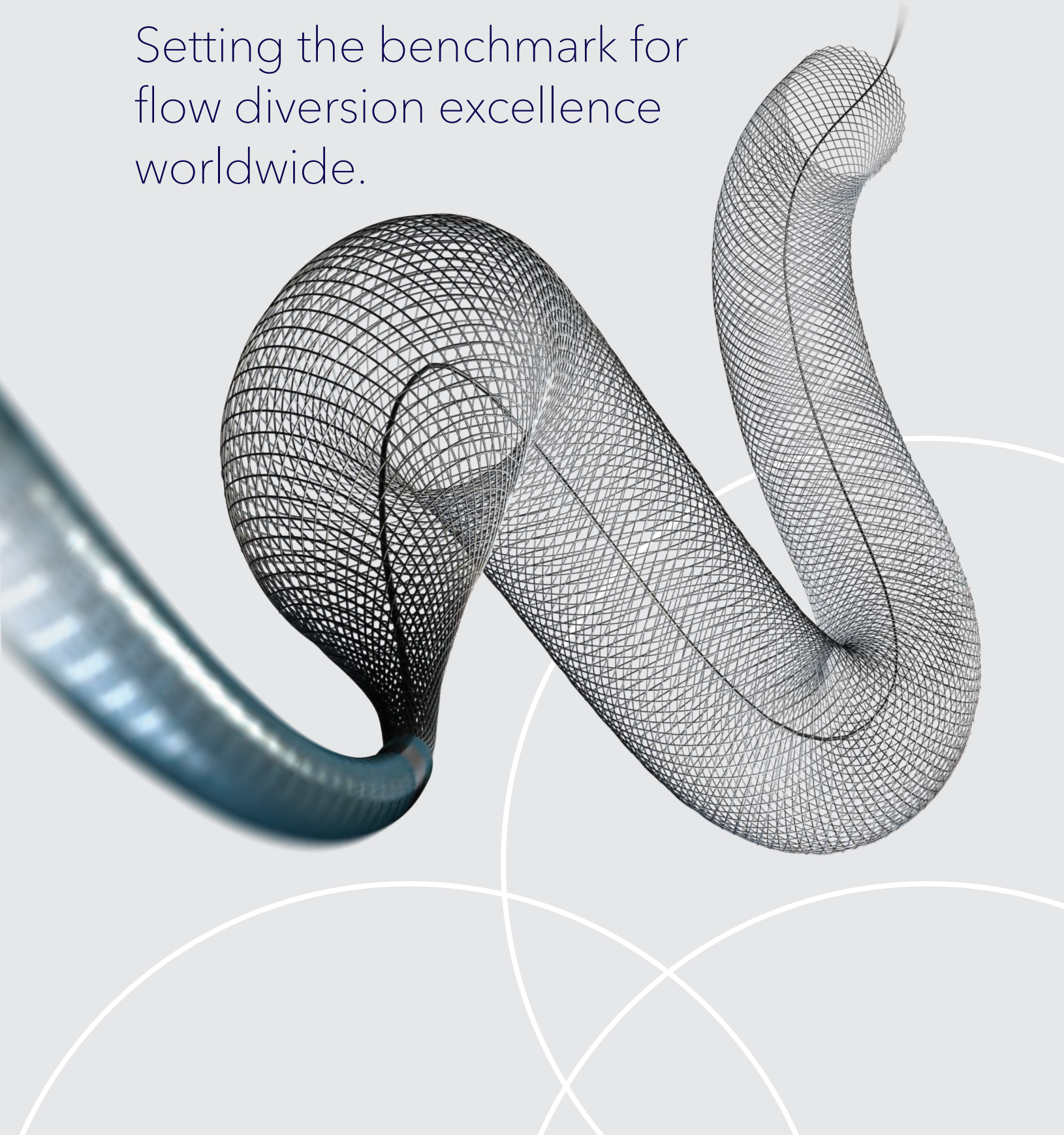




Medtronic
Neurovascular

PIPELINE™ EMBOLIZATION DEVICE FAMILY

Setting the benchmark for
flow diversion excellence
worldwide.



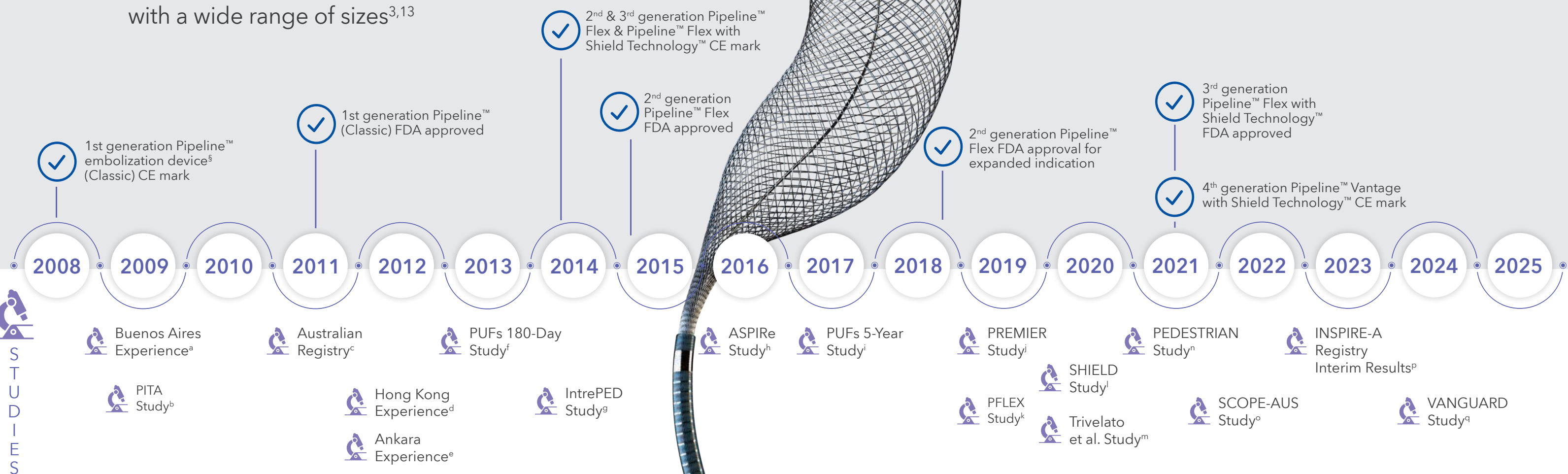
PIPELINE™ EMBOLIZATION DEVICE FAMILY

Setting the benchmark for flow diversion excellence worldwide.^{1,6,7†}

- **PIONEERING**
Unrivaled legacy of innovation^{1-4‡}
- **EFFICACY**
Setting the bar for safe and effective aneurysm treatment^{6,11,12,†}
- **VERSATILITY**
More tailored treatment with a wide range of sizes^{3,13}

SINCE
2008

Medtronic Neurovascular has been leading the way in flow diversion for over 15 years.



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Unrivaled legacy of innovation.

Pipeline™ embolization device was the first FDA approved flow diverter and has continually advanced flow diversion therapy with each new generation¹. For example, Shield Technology™ surface modification, which mimics red blood cell chemistry for enhanced performance in delivery and resheathing forces^{2†}, and the Pipeline™ Vantage 21 system, offering a lower-profile delivery system.^{3,4}

Shield Technology™ is designed to^{2†}:

- Lower friction
- Lower resheathing force, and
- Enhance procedural performance

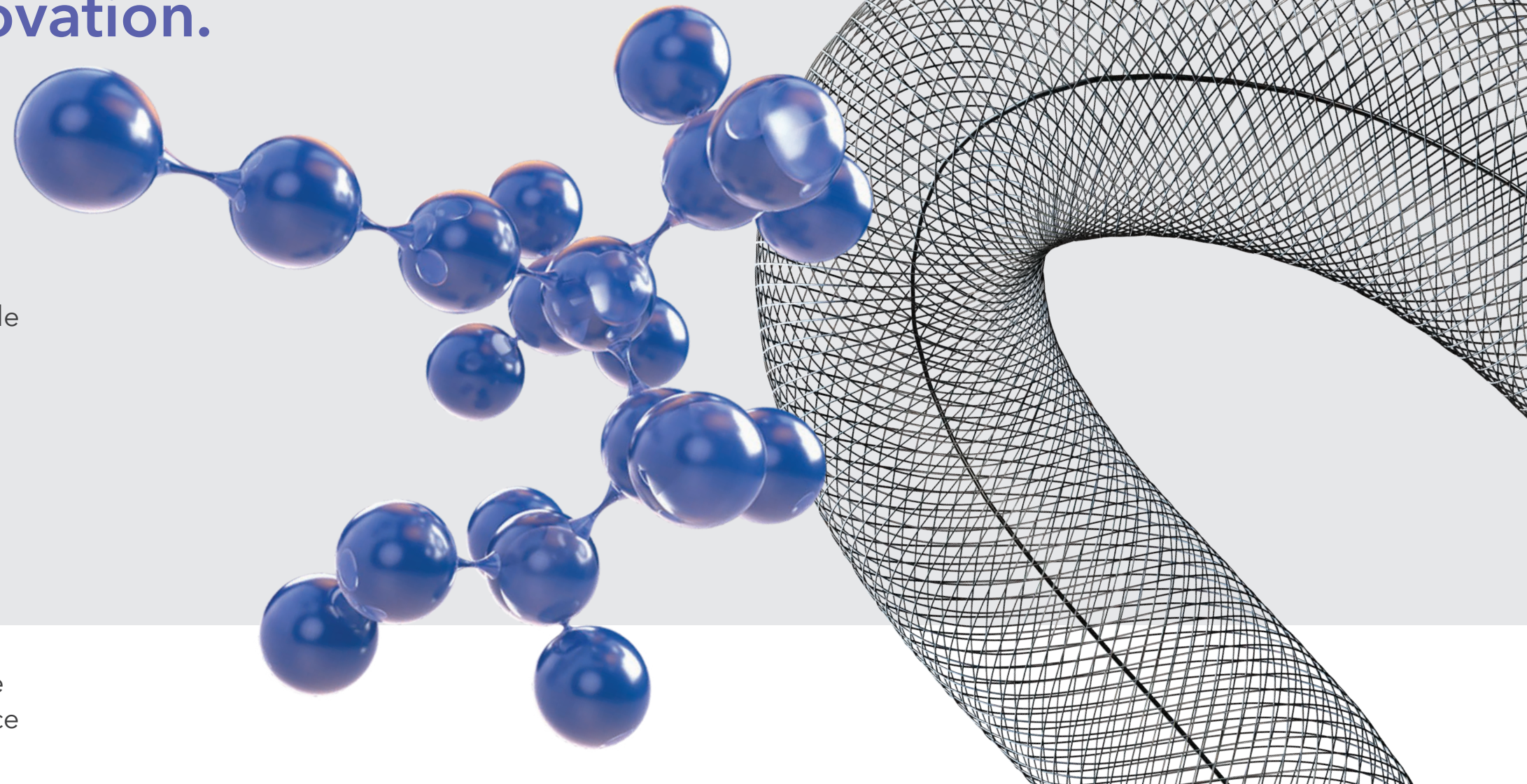
Shield Technology™ improves the customer experience through improvements in delivery and resheathing force through tortuosity.

Delivery Force (N)

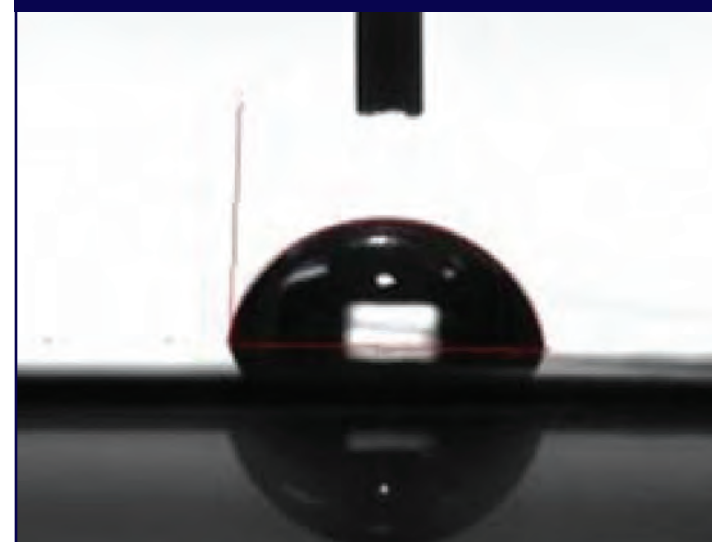
Pipeline™ Flex Embolization Device (PED-400-35)	6.5
Pipeline™ Flex Embolization Device with Shield Technology™ (PED2-400-35)	5.2

Resheathing Force (N)

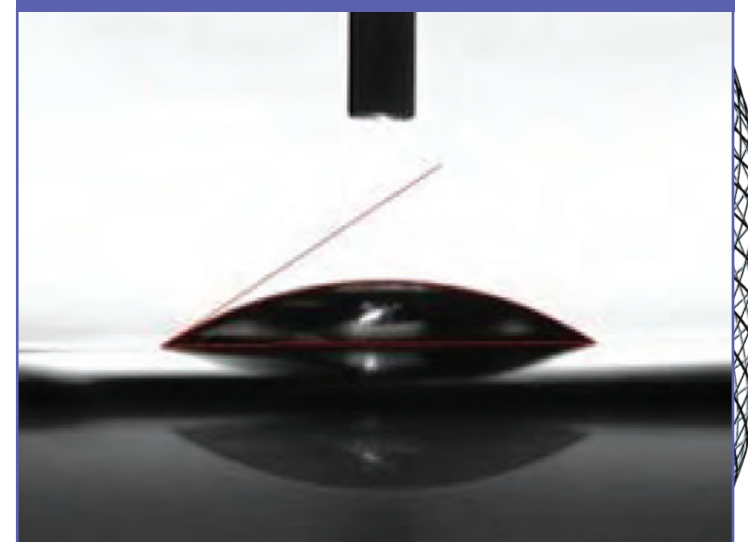
Pipeline™ Flex Embolization Device (PED-400-35)	2.4
Pipeline™ Flex Embolization Device with Shield Technology™ (PED2-400-35)	2.1



Pipeline™ Flex Embolization Device



Pipeline™ Flex Embolization Device with Shield Technology™



Setting the bar for safe and effective aneurysm treatment.

Pipeline™ Embolization Device Family consistently achieves high complete occlusion rates and low adverse events, supported by extensive clinical data from large-scale studies and the legacy of the most studied flow diverter franchise.^{6, a-q, †}

Pipeline™ Embolization Device Family have been studied in over 50k patients^{11†}, and Shield Technology™ implanted in over 100k patients¹² worldwide.

Studied in over
50k+
PATIENTS^{11†}

Shield Technology™
IMPLANTED IN
100k+
patients¹² worldwide

Studied in more than
950
publications^{11†}

INSPIRE-A Interim Report: Pipeline™ Vantage 21 and Pipeline™ Flex with Shield Technology™ Cohorts¹⁴

BRAID CHANGE: PIPELINE™ VANTAGE 021 VS PIPELINE™ FLEX WITH SHIELD TECHNOLOGY™			
Braid Deformation	Pipeline™ Vantage 21	Pipeline™ Flex with Shield Technology™	P-value
Any Braid Deformation	4/110 (3.64%)	31/530 (5.85%)	0.4899
Foreshortening Rate	0/110 (0.00%)	8/530 (1.51%)	0.3627
Fish-mouthing	3/110 (2.73%)	10/530 (1.89%)	0.6997
Fish-mouthing - Proximal	2/110 (1.82%)	0/530 (0.00%)	0.0293
Fish-mouthing - Distal	1/110 (0.91%)	10/530 (1.89%)	0.6997
Braid Collapse	0/110 (0.00%)	3/530 (0.57%)	>0.9999
Braid Hump	2/110 (1.82%)	11/530 (2.08%)	>0.9999

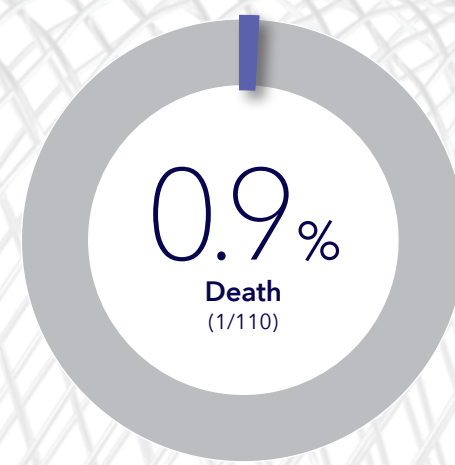
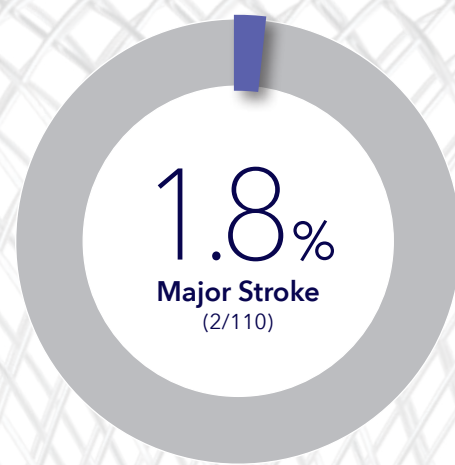
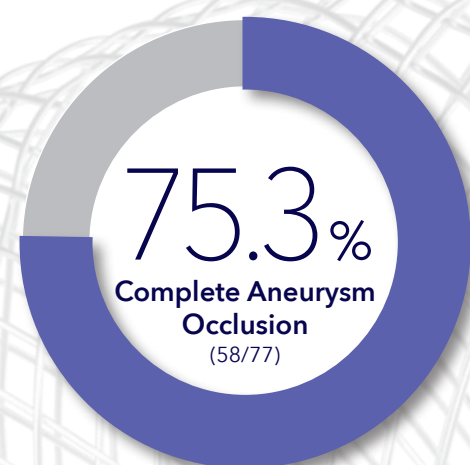
Categorical measures: % (n/N)

Rate (n/N) (%) [# of events]

Source:
T6.19 Braid Change
Vantage 21vs Shield.sas
Run Date: 20FEB2025

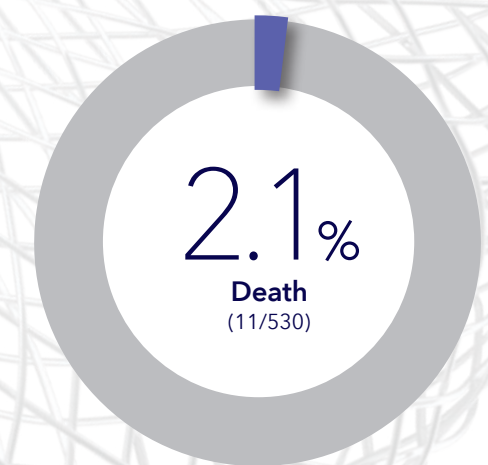
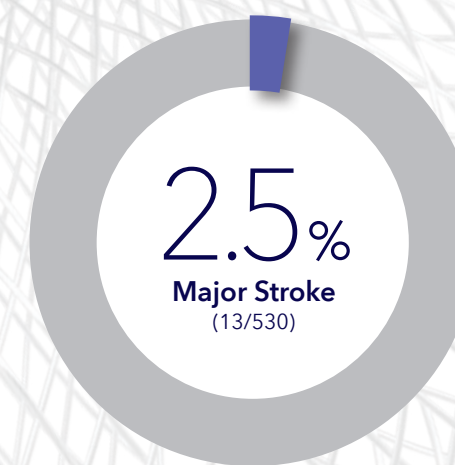
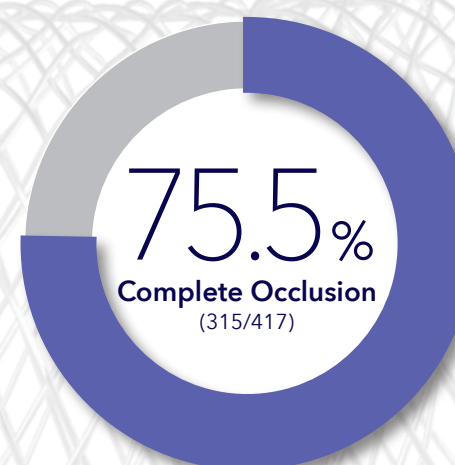
Pipeline™ Vantage 21

Data as of last follow-up date.



Pipeline™ Flex with Shield Technology™

Data as of last follow-up date.



More tailored treatment with a wide range of sizes

Pipeline™ Embolization Device Family offers a comprehensive size range from 2.50mm to 5.00mm diameters in 0.25mm increments and lengths up to 35mm.³ Thus, providing tailored treatment options for diverse patient anatomies.

The importance of “right size device” is critical when considering efficacy, safety, and braid change.¹³

Medtronic offers a wide variety of access options, including the Phenom 21 & Phenom 27 Catheters for flow diversion.



Phenom™ family

Phenom™ 21 Catheter

- Compatible with Pipeline™ Vantage²¹
- When a smaller ID/OD is needed for Pipeline™ Vantage procedures
- Newest Medtronic 021 stainless steel coil & braid technology
- Rounded distal tip is designed to enhance trackability over-the-wire and support device resheathing¹⁵
- 150cm and 160cm length option

Phenom™ 27 Catheter

- Compatible with Pipeline™ Shield²⁰
- Built for Flow Diversion providing the support you need^{15,16}
- Newest Medtronic 0.027" Catheter utilizing stainless steel coil & braid technology
- Optimal navigation featuring three performance zones with progressive flexibility¹⁶⁻¹⁹
- Rounded distal tip is designed to enhance trackability over-the-wire and support device resheathing¹⁵
- 150cm and 160cm length options

Pipeline™ device sizes available for use with Phenom™ 21

Product Catalog Number	Diameter (mm)	Length (mm)
PED3-021-250-10	2.50	10
PED3-021-250-12	2.50	12
PED3-021-250-14	2.50	14
PED3-021-250-16	2.50	16
PED3-021-250-18	2.50	18
PED3-021-250-20	2.50	20
PED3-021-275-12	2.75	12
PED3-021-275-14	2.75	14
PED3-021-275-16	2.75	16
PED3-021-275-18	2.75	18
PED3-021-275-20	2.75	20
PED3-021-300-12	3.00	12
PED3-021-300-14	3.00	14
PED3-021-300-16	3.00	16
PED3-021-300-18	3.00	18
PED3-021-300-20	3.00	20
PED3-021-325-12	3.25	12
PED3-021-325-14	3.25	14
PED3-021-325-16	3.25	16
PED3-021-325-18	3.25	18
PED3-021-325-20	3.25	20
PED3-021-350-12	3.50	12
PED3-021-350-14	3.50	14
PED3-021-350-16	3.50	16
PED3-021-350-18	3.50	18
PED3-021-350-20	3.50	20
PED3-021-350-25	3.50	25

Pipeline™ device sizes available for use with Phenom™ 27

Product Catalog Number	Diameter (mm)	Length (mm)
PED2-250-10	2.50	10
PED2-250-12	2.50	12
PED2-250-14	2.50	14
PED2-250-16	2.50	16
PED2-250-18	2.50	18
PED2-250-20	2.50	20
PED2-275-10	2.75	10
PED2-275-12	2.75	12
PED2-275-14	2.75	14
PED2-275-16	2.75	16
PED2-275-18	2.75	18
PED2-275-20	2.75	20
PED2-300-10	3.00	10
PED2-300-12	3.00	12
PED2-300-14	3.00	14
PED2-300-16	3.00	16
PED2-300-18	3.00	18
PED2-300-20	3.00	20
PED2-300-25	3.00	25
PED2-300-30	3.00	30
PED2-300-35	3.00	35
PED2-325-10	3.25	10
PED2-325-12	3.25	12
PED2-325-14	3.25	14
PED2-325-16	3.25	16
PED2-325-18	3.25	18
PED2-325-20	3.25	20
PED2-325-25	3.25	25
PED2-325-30	3.25	30
PED2-325-35	3.25	35
PED2-350-10	3.50	10
PED2-350-12	3.50	12
PED2-350-14	3.50	14
PED2-350-16	3.50	16
PED2-350-18	3.50	18
PED2-350-20	3.50	20
PED2-350-25	3.50	25
PED2-350-30	3.50	30
PED2-350-35	3.50	35
PED2-375-10	3.75	10
PED2-375-12	3.75	12
PED2-375-14	3.75	14
PED2-375-16	3.75	16
PED2-375-18	3.75	18

Phenom™ catheter sizes

Product Catalog Number	Inner Diameter (I.D.)	Outer Diameter (O.D.) Distal	Length (cm)
FG13150-0615-25	0.021"	0.030" (2.3F)	150
FG13160-0615-15	0.021"	0.030" (2.3F)	160
FG15150-0615-15	0.027"	0.036" (2.8F)	150
FG15150-0630-15	0.027"	0.036" (2.8F)	150
FG15160-0615-15	0.027"	0.036" (2.8F)	160

Product Catalog Number	Diameter (mm)	Length (mm)
PED2-375-20	3.75	20
PED2-375-25	3.75	25
PED2-375-30	3.75	30
PED2-375-35	3.75	35
PED2-400-10	4.00	10
PED2-400-12	4.00	12
PED2-400-14	4.00	14
PED2-400-16	4.00	16
PED2-400-18	4.00	18
PED2-400-20	4.00	20
PED2-400-25	4.00	25
PED2-400-30	4.00	30
PED2-400-35	4.00	35
PED2-425-10	4.25	10
PED2-425-12	4.25	12
PED2-425-14	4.25	14
PED2-425-16	4.25	16
PED2-425-18	4.25	18
PED2-425-20	4.25	20
PED2-425-25	4.25	25
PED2-425-30	4.25	30
PED2-425-35	4.25	35
PED2-450-10	4.50	10
PED2-450-12	4.50	12
PED2-450-14	4.50	14
PED2-450-16	4.50	16
PED2-450-18	4.50	18
PED2-450-20	4.50	20
PED2-450-25	4.50	25
PED2-450-30	4.50	30
PED2-450-35	4.50	35
PED2-475-10	4.75	10
PED2-475-12	4.75	12
PED2-475-14	4.75	14
PED2-475-16	4.75	16
PED2-475-18	4.75	18
PED2-475-20	4.75	20
PED2-475-25	4.75	25
PED2-475-30	4.75	30
PED2-475-35	4.75	35
PED2-500-10	5.00	10
PED2-500-12	5.00	12
PED2-500-14	5.00	14
PED2-500-16	5.00	16
PED2-500-18	5.00	18
PED2-500-20	5.00	20
PED2-500-25	5.00	25
PED2-500-30	5.00	30
PED2-500-35	5.00	35

CONNECTIONS FOR LIFE

Bringing people and
technology together
for life-changing
Neurovascular care



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