

Poised to Revolutionize the Carotid Intervention Market

INSPIREMD

May 2026

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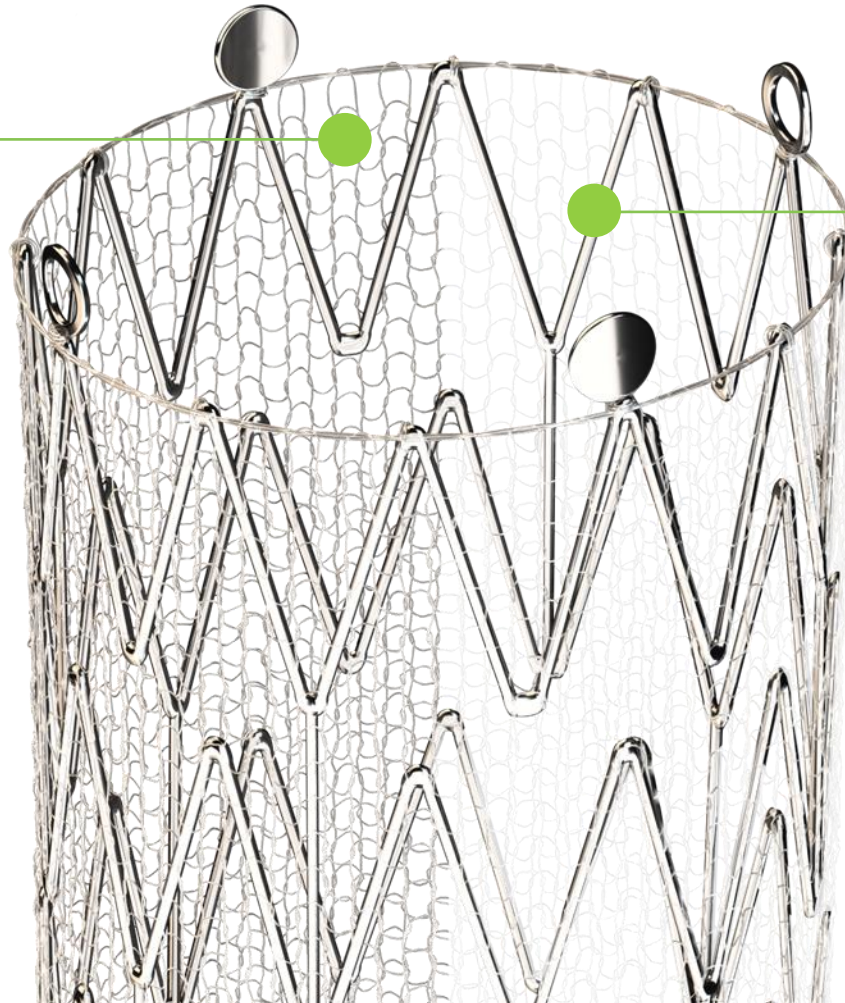
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Developer of CGuard® Prime Carotid Stent Platform

Dedicated to advancing the prevention of stroke and treatment of carotid artery disease

MicroNet™ Mesh-Covered Protection

SmartFit™ Technology



Executive Leadership Team

Deep industry experience and subject matter expertise



Marvin Slosman
Chief Executive Officer

- 30+ years of medical device experience, NSPR since 2019
- Previous CEO/President of ITAMAR Medical, Ovalum Vascular, Phormax Medical
- Prior experience at JNJ, GE Healthcare and Baxter
- BS from University of Alabama, MBA from University of Chicago



Shane Gleason
Chief Commercial Officer

- 20+ years of cardiovascular medical device experience, NSPR since 2023
- Previous CCO of NuVaira; VP Sales of TriVascular, Cordis and Surmodics
- Prior experience at Abbott and Edwards Lifesciences
- BS in Engineering Science and Mechanics from Virginia Tech, MBA from University of Maryland

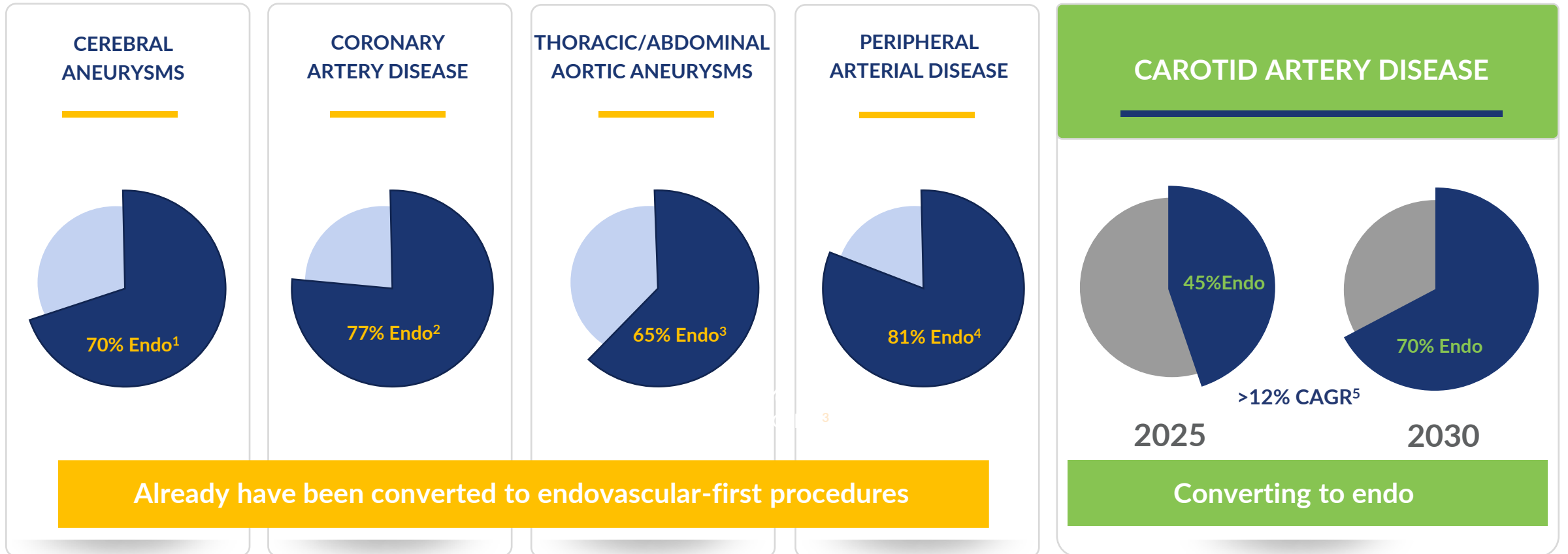


Mike Lawless
Chief Financial Officer

- 20+ years of financial management, NSPR since 2025
- Prior CFO of Lifeward Ltd. and Brooks Life Sciences
- Previous leadership experience at Brooks Automation, PerkinElmer, MFS Investment Management
- BA in Economics from Swarthmore College, MBA from Tuck School of Business at Dartmouth College

Carotid Stenting Revolution Has Arrived

MicroNet™ covered CGuard® stent platform could become the new gold standard



¹ Bekelis K, Gottlieb DJ, Su Y, et al. Comparison of clipping and coiling in elderly patients with unruptured cerebral aneurysms. J Neurosurg. 2017;126(3):811-818

² Culler SD, Kugelmass AD, Brown PP, et al. Trends in Coronary Revascularization Procedures Among Medicare Beneficiaries Between 2008 and 2012. Circulation. 2015;131(4):362-70

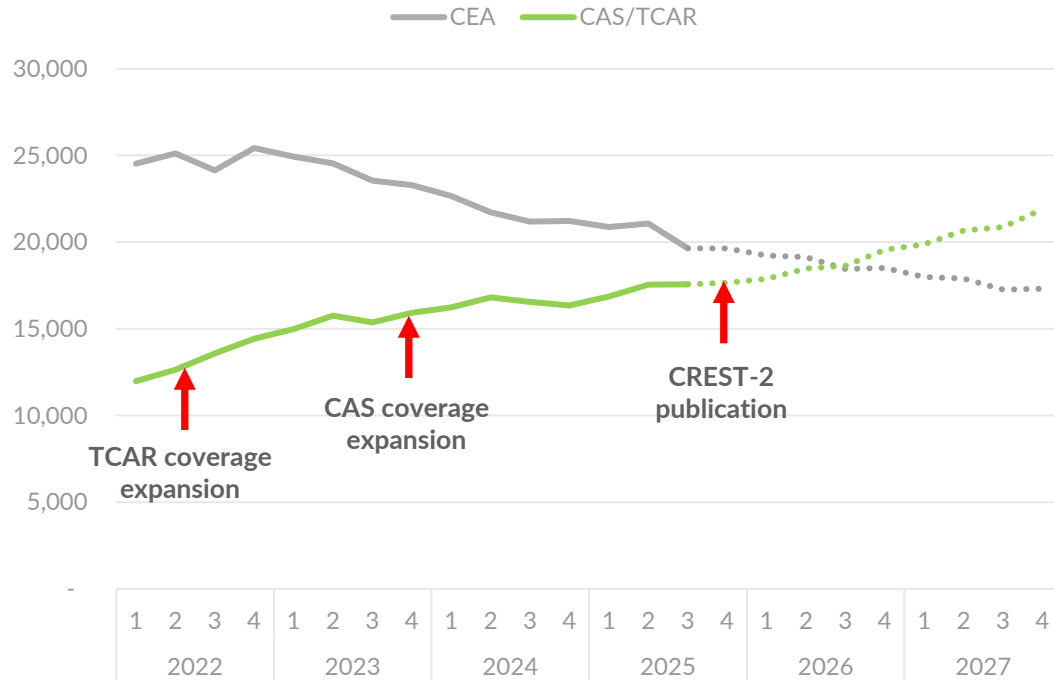
³ Beck AW, Sedrakyan A, Mao J, et al. Variations in Abdominal Aortic Aneurysm Care: A Report From the International Consortium of Vascular Registries. Circulation. 2016;134(24):1948-1958

⁴ Guez, D., Hansberry, D. R., Gonsalves, C. F., Eschelman, D. J., Parker, L., Rao, V. M., & Levin, D. C. Recent Trends in Endovascular and Surgical Treatment of Peripheral Arterial Disease in the Medicare Population. AJR Am J Roentgenol. 2020 May;214(5):962-966.

⁵ Based on claims data, AcuityMD

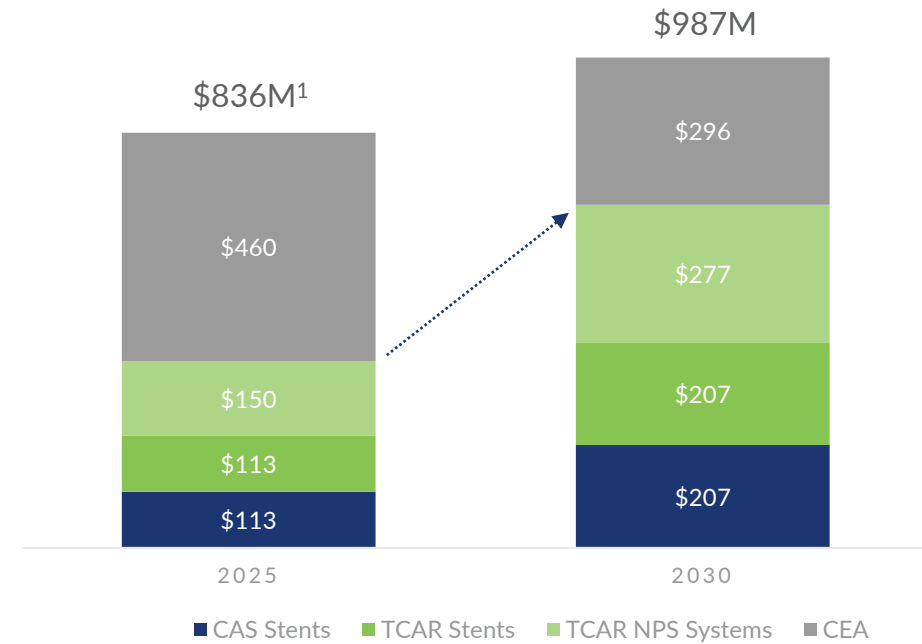
~\$1B U.S. Market Potential

CAS/TCAR continues to gain over CEA



- DRG/CPT data by Facility and HCP
- ~151K annual carotid intervention claims
 - Accounts for ~90% of procedures (does not include Kaiser, Gov't/DoD)
 - 12% stent (CAS + TCAR) CAGR over prior three years, modeled to increase to 13% post CREST-2

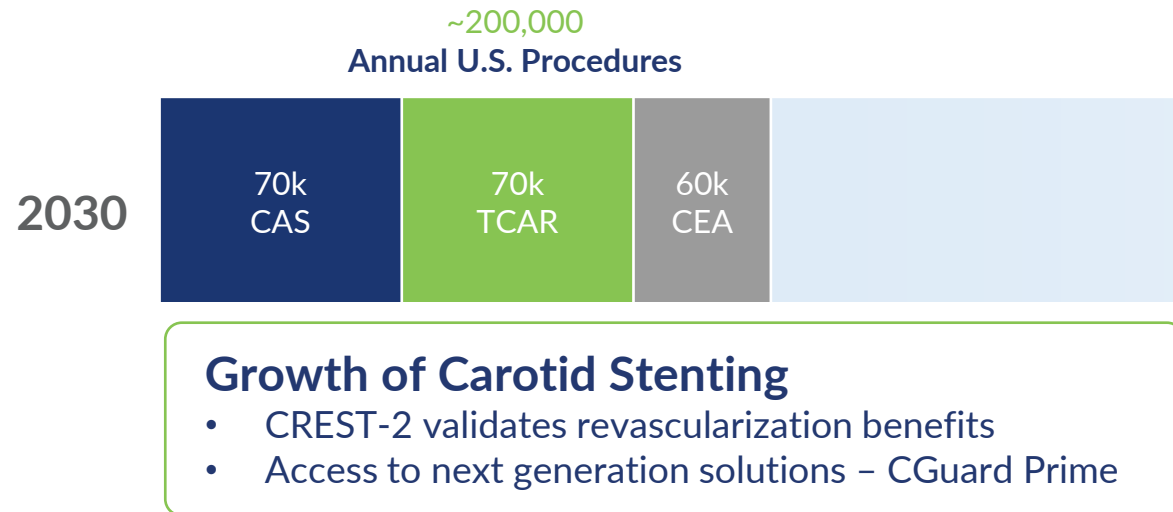
US Market Size



- Stenting Procedure Mix: 50% CAS / 50% TCAR

Carotid Stenting Procedure Volume is Underpenetrated

Only ~10-15% of diagnosed patients treated annually



Carotid Revascularization at an Inflection Point

Momentum. Expansion. Acceleration.

2026

Q2 2026 - CGUARDIANS III Trial

Enrollment begins

Q3 2026 - CGuard® Enters the U.S. Market

Restores core U.S. commercial availability

H2 2026 - CGuard® Prime 80 for TCAR

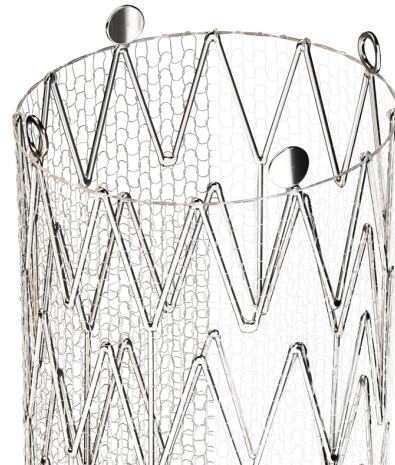
Doubles addressable U.S. market

CAS → CAS + TCAR stenting

H1 2027

Enhanced CGuard® Prime configuration

A delivery system designed to match the performance of the CGuard stent



H2 2027

SwitchGuard NPS for TCAR

Expands value capture across the full TCAR procedure

- ✓ Positions \$NSPR as the leading carotid intervention platform company
- ✓ Broadens addressable market across CAS, TCAR, and NPS
- ✓ Long-term growth and durable platform differentiation

TAILWINDS

CMS Coverage Expanded

Standard Risk and Asymptomatic Reimbursement

Enables stent-first approach to carotid revascularization

Landmark Clinical Evidence

CREST-2 Validates Revascularization Benefit

Reinforces role of carotid stenting in the market

Unmatched Clinical Evidence

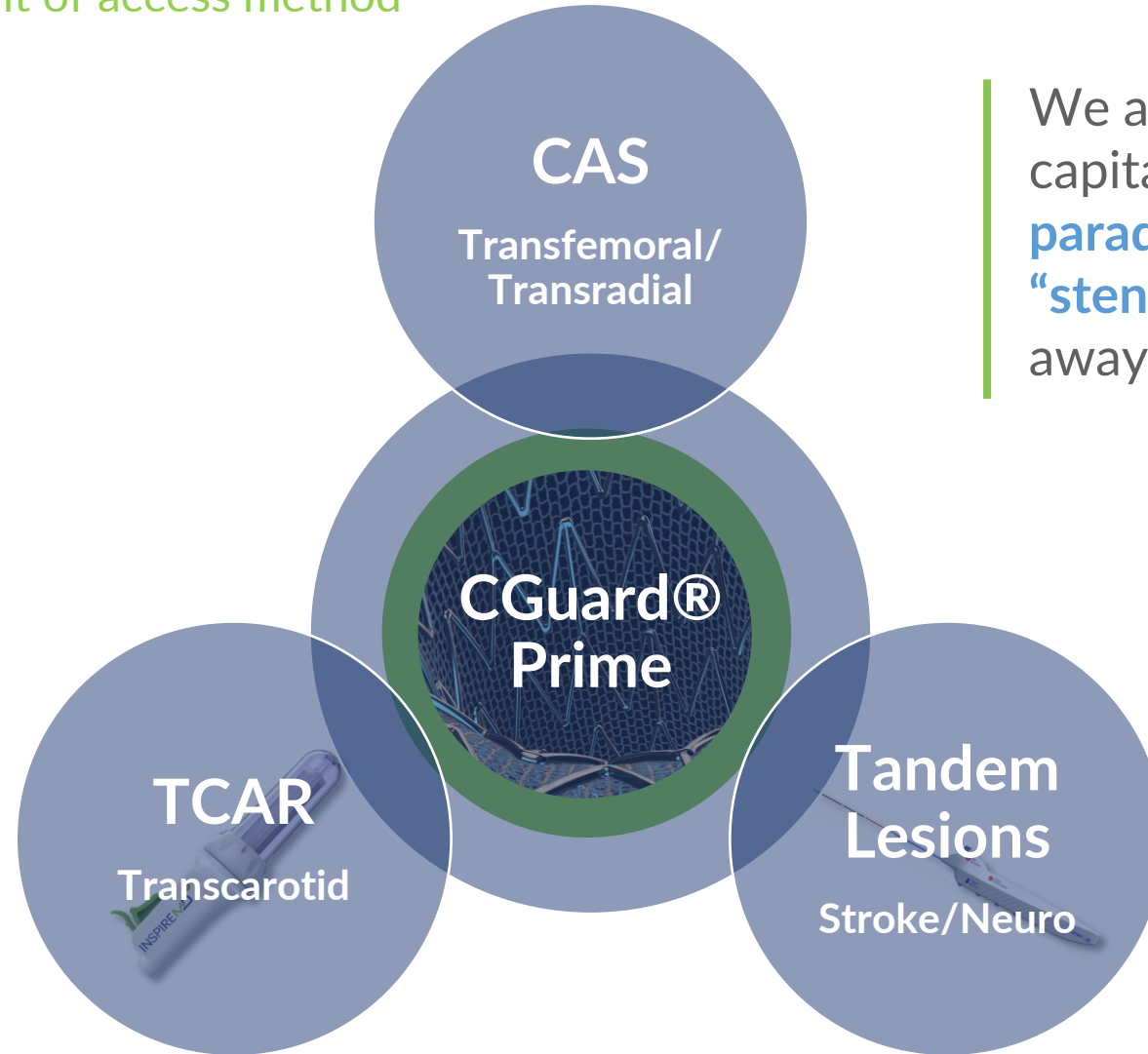
Short and Long-Term Results

Ten clinical trials completed with >2,000 patients presented or published including two pivotal trials reinforced by recent CGUARDIANS II results

Our future opportunity is significantly larger than our market position today

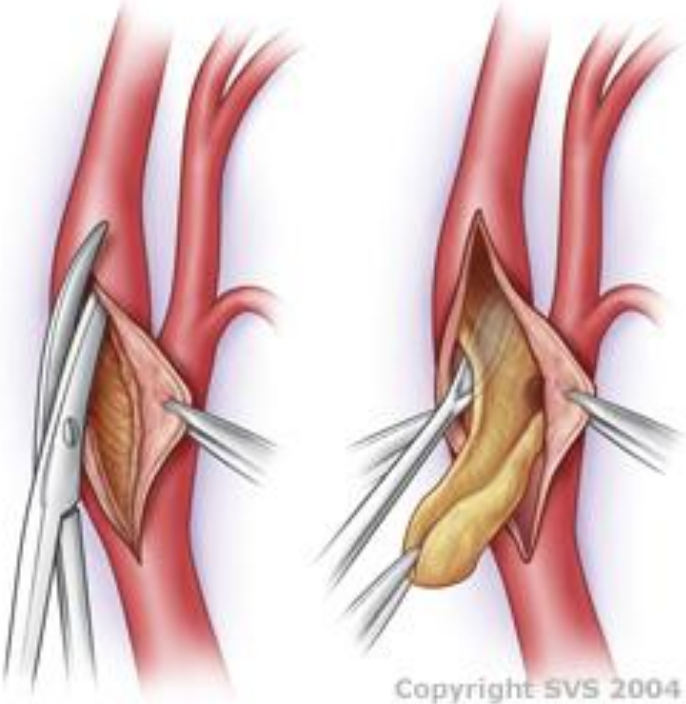
Long-Term Stent Performance is the Cornerstone of Our Business

Benefits are independent of access method



We are positioned to capitalize on the ongoing **paradigm shift toward a “stent first” approach** and away from surgery

A Picture is Worth a Thousand Words...



Surgical Endarterectomy

VS








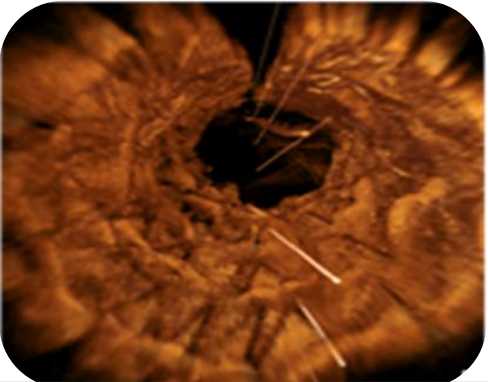
Stenting

Stent Design Comparison

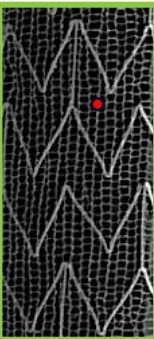
Conventional carotid stents vs CGuard[®] Prime dual layer design

Conventional Carotid Stent

				
ACCULINK [®] RX DEVICE	XACT [®] DEVICE	WALLSTENT [®] MONORAIL [®] DEVICE	PROTÉGÉ RX [®] DEVICE	PRECISE [®] DEVICE




CGuard Prime Dual Layer Design



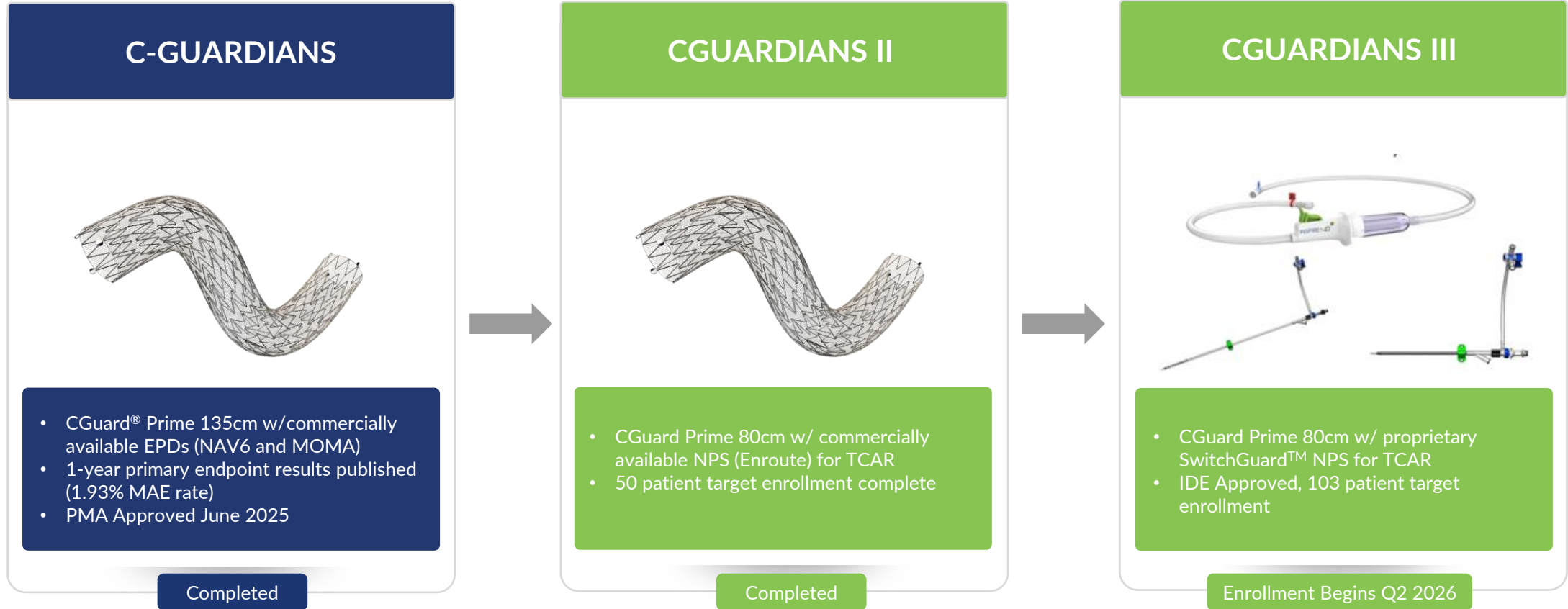
CGuard

- CGuard Prime is designed to prevent embolization by securing carotid plaque behind its MicroNet™ mesh, preventing prolapse through the stent struts while maintaining blood flow to the external carotid artery.
- CGuard Prime has the smallest pore size of any approved carotid stent (150–180 μm)*



Unmatched Foundational Data and Evidence

The CGUARDIANS Family of Carotid Trials (InspireMD)



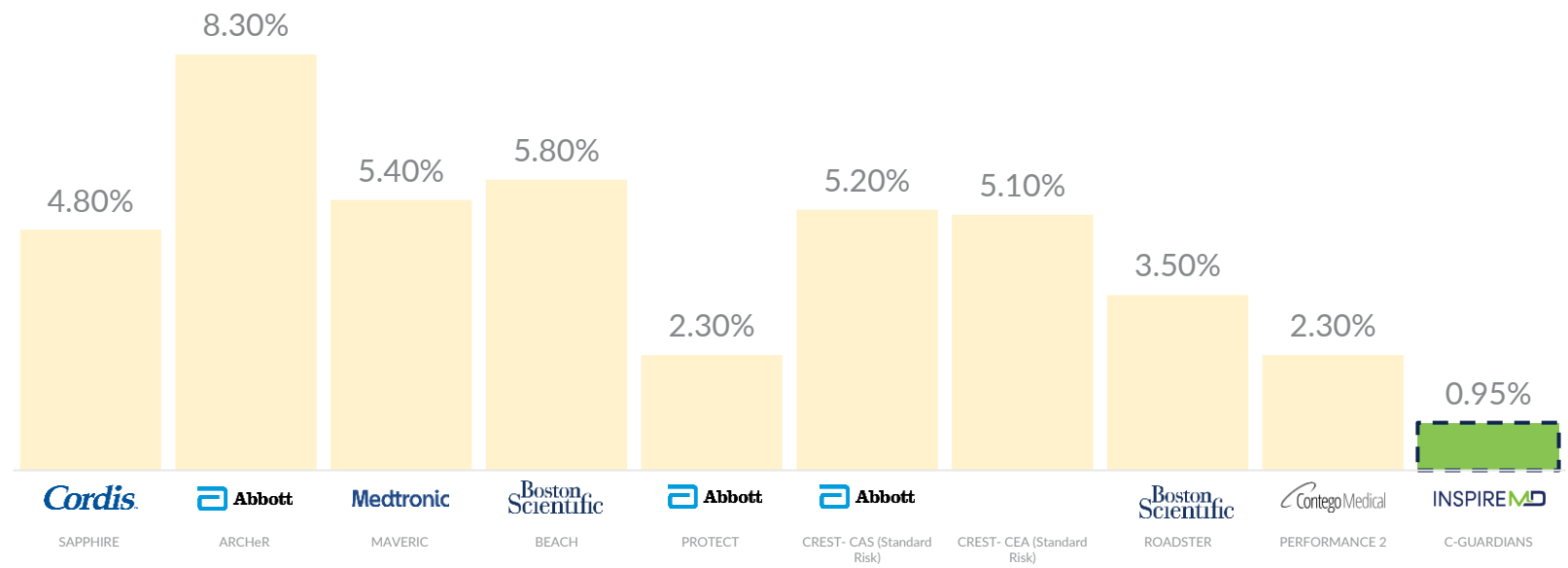
C-GUARDIANS: 30-Day Safety Outcomes

30-Day Death/Stroke/MI (DSMI) rates, compared to other carotid trials

CGUARDIANS 30-day outcomes

	Intention to Treat	Per Protocol ^{1,2}
30-day DSMI	0.95% (3)	0.63% (2)
Death	0.32% (1)	0.0% (0)
Stroke	0.95% (3)	0.63% (2)
MI	0.00% (0)	0.0% (0)

30-day DSMI (multiple FDA trials)



- Demonstrates the lowest 30-day DSMI rates of any FDA approval/clearance trial for carotid intervention (CAS or TCAR)
- Trial includes independent event adjudication
- 0.95% event rate consistent with 1.03% 30-day event rate from >1350 patients in peer-reviewed, published studies of real-world use, supporting the CGuard Stent as a front-line therapeutic option for carotid revascularization

1. Kaplan-Meier estimate for all 1-year endpoints
 2. Per Protocol Analysis excludes 15 patients with Major Protocol Deviations

Yadav JS, et al, N Engl J Med 2004;351:1493-501. Gray WA, et al, J Vasc Surg. 2006 Aug;44(2):258-68. Higashida RT, et al, Stroke. 2010 Feb;41(2):e102-9. White CJ, et al, CCI 2006 Apr;67(4):503-12. Iyer SS, et al, J Am Coll Cardiol. 2008 Jan 29;51(4):427-34. Matsumura JS, et al, J Vasc Surg. 2012 Apr;55(4):968-976.e5. SSED Premarket Approval Application (PMA) Number: P040012/SO34. Kwolek CJ, et al, J Vasc Surg. 2015 Nov;62(5):1227-34. W. Gray VIVA 2023

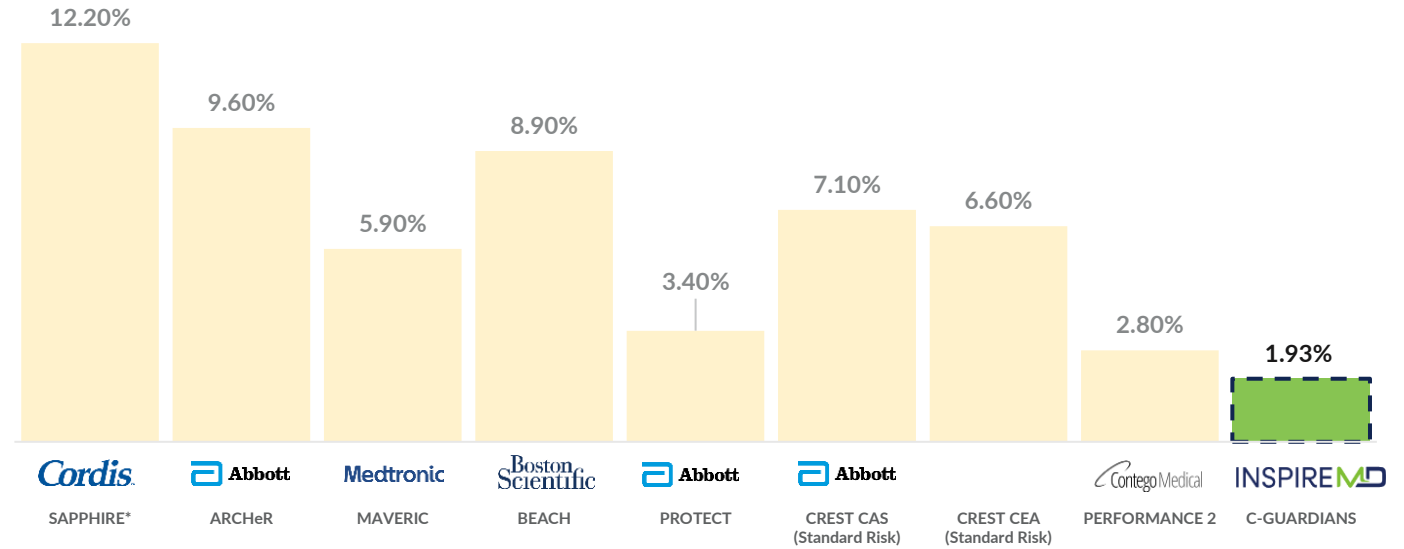
C-GUARDIANS: 1 Year Outcomes

365-Day Death/Stroke/MI (DSMI) rates, compared to other carotid trials

CGUARDIANS 365-day

	Intention to Treat	Per Protocol ^{1,2}
Primary Endpoint: 30-day Death, Stroke, or MI + Ipsilateral Stroke between 31 and 365 days	1.93% (6)	1.70% (5)
Target Lesion Revascularization (TLR) through 365 days.	0.98% (3)	1.01% (3)

365-day (multiple FDA trials)



- Demonstrates the lowest primary endpoint event rates of any FDA approval/clearance trial for CAS
- Trial includes independent event adjudication
- 1.93% event rate consistent with 1.99% 1-year event rate from >1100 patients in peer-reviewed, published studies of real-world use, supporting the CGuard Stent as a front-line therapeutic option for carotid revascularization

OUS Clinical Data Supporting CGuard® Periprocedural Safety

CGuard commercially available in Europe since 2015 (CE Mark)

Study	Year	N	DS 30-Day % (n)	DSMI 30-Day % (n)
CARENET	2015	30	0.0%(0)	0.0%(0)
PARADIGM	2016	101	0.0%(0)	0.0%(0)
CASANA	2017	82	1.22%(1)	1.22%(1)
WISSGOTT I	2017	30	0.0%(0)	0.0%(0)
IRONGUARD I	2018	200	2.50%(5)	2.50%(5)
WISSGOTT II	2019	30	0.0%(0)	0.0%(0)
IRONGUARD 2	2020	733	0.5%(4)	1.09%(8)
GREEK Study	2021	103	0.0%(0)	0.0%(0)
SIBERIA	2021	50	0.0%(0)	0.0%(0)
Total		1,359	0.80%(11)	1.03%(14)

CARMEN Meta-Analysis (112 Studies, 68K Patients)¹

30-day and 12-month event rates by stent type (random-effect model)

Event	FGS	SGS	Terumo RoadSaver/ Casper	Gore (not marketed)	INSPIRE MD CGuard
30-day Stroke [%] (95% CI)	3.01 (2.63-3.38)	0.60 (0.28-0.92)	0.50 (0.0-1.15)	2.89 (1.03-4.76)	0.54 (0.17-0.92)
30-day Death / Stroke / MI [%] (95% CI)	4.11 (3.65-4.56)	1.30 (0.64-1.96)	1.33 (0.0-2.66)	4.82 (2.44-7.2)	1.08 (0.55-1.60)
12-month Ipsilateral Stroke [%] (95% CI)	3.51 (2.52-4.50)	0.7 (0.0-1.47)	0.26 (0.0-1.27)	3.1 (1.11-5.1)	0.38 (0.0-0.9)
12-month Restenosis [%] (95% CI)	3.97 (0.28-5.14)	3.38 (1.39-5.37)	7.16 (4.45-9.86)	4.83 (2.36-7.29)	0.34 (0.0-0.82)
12-month Ipsilateral Stroke / Restenosis [%] (95% CI)	8.15 (6.34-9.93)	5.12 (2.14-8.10)	7.86 (5.04-10.68)	7.93 (4.82-11.04)	0.73 (0.0-1.44)

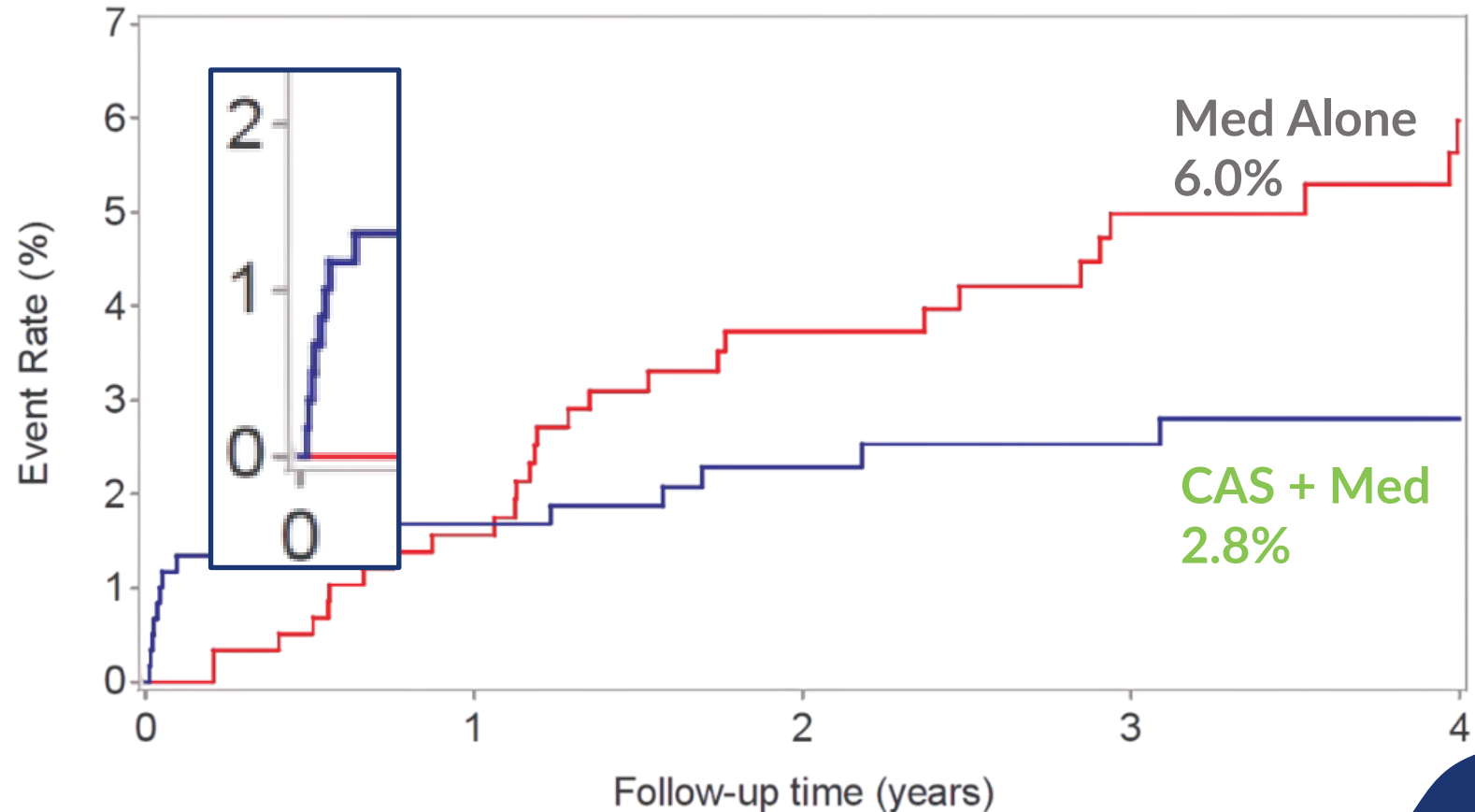
- Improvements from second-generation stents (SGS) relative to first-generation stents (FGS), but important differences exist amongst the SGS
- CGuard®'s MicroNet™ drives improvement both in event reduction (due to improved scaffolding) and restenosis reduction (due to less metal burden)



CREST-2 Outcomes Highlight CAS

- Stroke and death (S/D) out to 4-years was 6.0% for medical therapy and 2.8% when CAS was added
 - **Absolute difference of 3.2% favoring CAS was significant**
 - Only 31 people with high-grade asymptomatic carotid stenosis needed to be treated to prevent a primary event at 4 years
 - **Note- No primary events happened on the day of the procedure- what is left behind matters!**
- S/D out to 4-years was 5.3% for medical therapy and 3.7% when CEA was added
 - **Absolute difference of 1.6% favoring CEA was not significant**

Any Perioperative Stroke or Death Plus Ipsilateral Stroke Thereafter up to 4 Years





TCAR

CGUARDIANS II: Zero Major Adverse Events at 30 Days

Preliminary results from first 36 TCAR patients | presented at Charing Cross Symposium 2026

Study Overview

- Multicenter, single-arm pivotal U.S. trial evaluating CGuard[®] Prime (80cm) with TCAR using ENROUTE Transcarotid Neuroprotection System
- 50 patients enrolled (target complete)
- High surgical risk population ($\geq 50\%$ symptomatic / $\geq 80\%$ asymptomatic stenosis)

Principal Investigators & Study Leadership

- Patrick Muck, MD – Co-National Principal Investigator
- Patrick Geraghty, MD – Co-National Principal Investigator
- 11 U.S. investigational sites

Preliminary Data (First 36 Patients)

- 100% Acute Device Success
- 97% Technical Success
- Strong performance across complex lesion types

30-DAY CLINICAL OUTCOMES (SECONDARY ENDPOINTS)

0%
DEATH



0%
STROKE



0%
MYOCARDIAL
INFARCTION



0%
STENT
THROMBOSIS

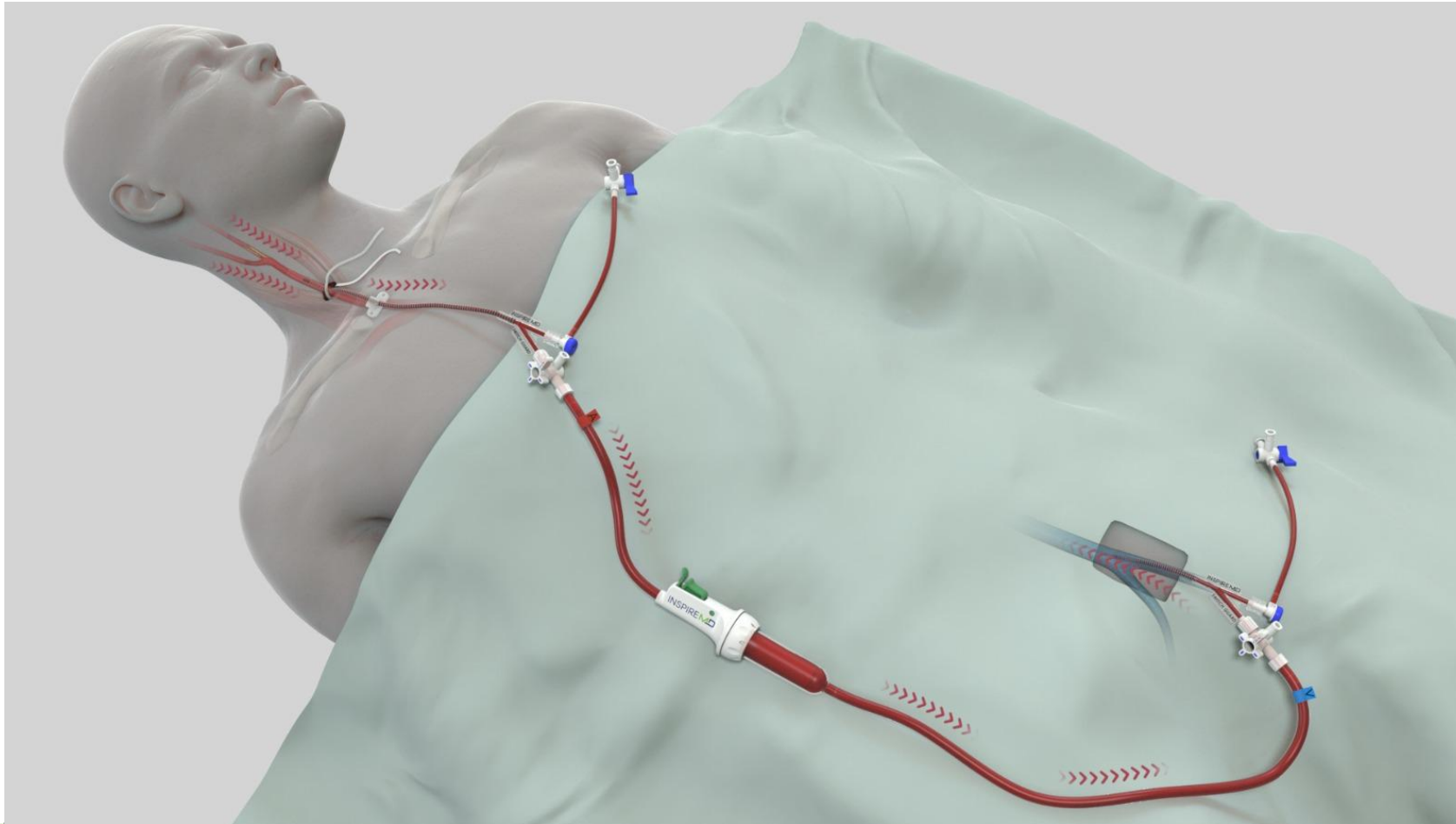


0%
DEVICE-
RELATED SAE's



Zero major adverse events at 30 days in the first 36 TCAR patients treated with CGuard Prime (80cm) and the ENROUTE Neuroprotection System

Transcarotid Arterial Revascularization (TCAR): Direct Carotid Access with Reverse Flow







InspireMD Combines SwitchGuard NPS with Best-in-Class CGuard® Implant



Commercial and Corporate

CMS Final National Coverage Determination, October 11, 2023

The final decision memorandum, which affects NCD 20.7 sections B4 and D, revises Medicare coverage for Percutaneous Transluminal Angioplasty (PTA) of the carotid arteries concurrent with stenting by:

-  **Expanding coverage** to individuals previously only eligible for coverage in clinical trials;
-  Expanding coverage to **standard surgical risk** individuals by removing the limitation of coverage to only high surgical risk individuals;
-  Adding **formal shared decision-making** with the individual prior to furnishing CAS; and
-  Allowing **MAC discretion** for all other coverage of PTA of the carotid artery concurrent with stenting not otherwise addressed in NCD 20.7.

Roadmap / Milestones

Key Value Drivers

2026

✓ CGUARDIANS II Enrollment Completion & PMA-S Submission
CGuard Prime® indicated stent for TCAR

Potential CGuard Prime TCAR Approval
CGuard Prime indicated stent for TCAR

U.S. Manufacturing Ramp

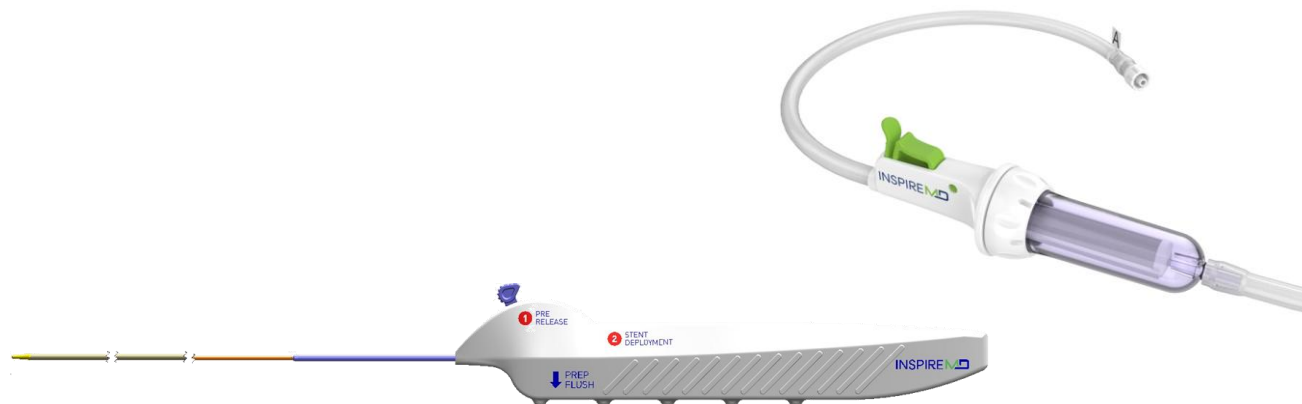
Enhanced CGuard Prime Delivery System

2027

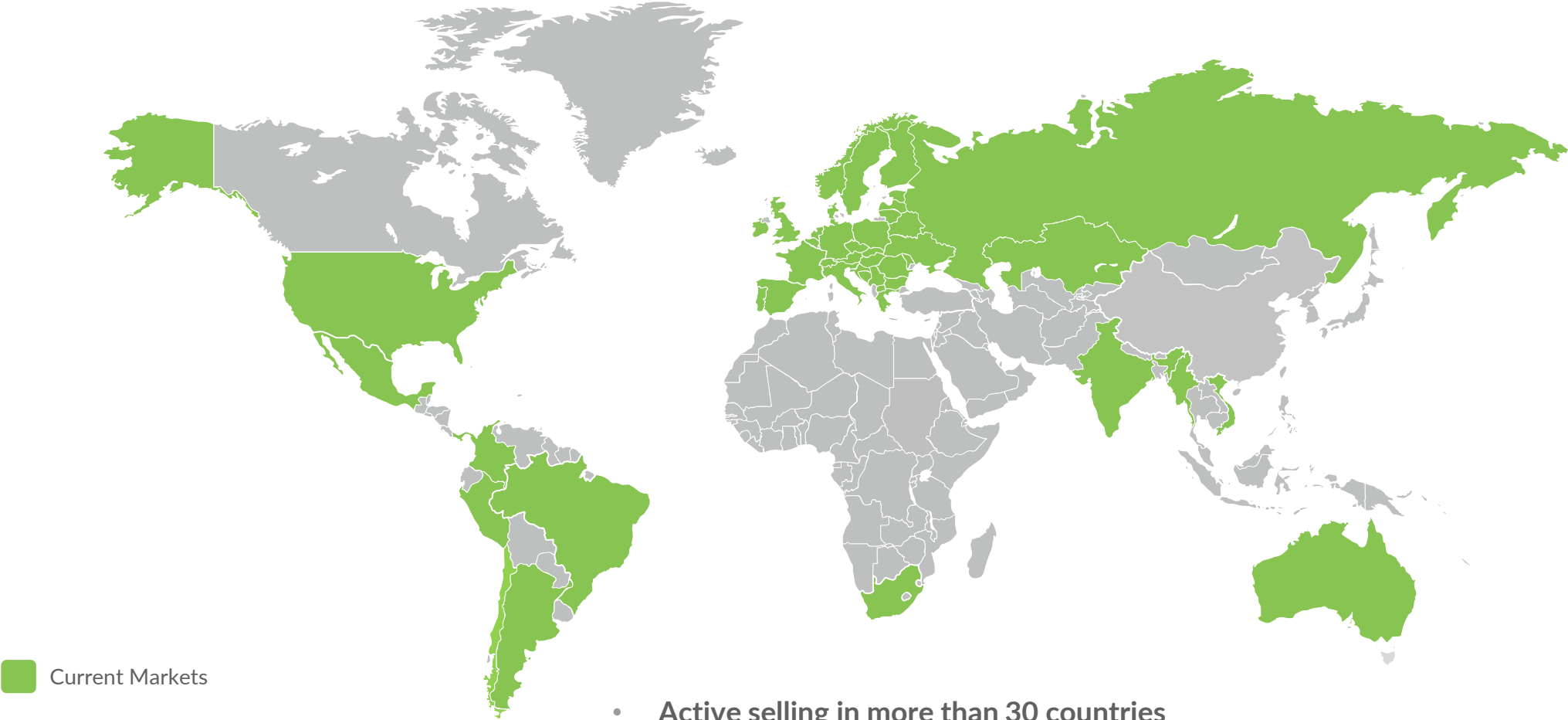
Potential SwitchGuard NPS Clearance / Launch (Full
TCAR Tool Kit)

CGuard Prime indicated stent with SwitchGaurd
Neuro Protection for TCAR

Potential Portfolio Expansion



Commercial Footprint



■ Current Markets

- Active selling in more than 30 countries
- Over 70,000 systems sold
- Average CAS market share of 25% OUS

Robust Intellectual Property Portfolio

Proprietary platform technology supported by IP

Patent Rights	Issued	Pending
USA	20	7
Rest of World	54	21

InspireMD will continue to strengthen and broaden its patent protection globally to enable future pipeline products

IP Counsel: Kligler and Associates, P.A.

Transformational July 2025 PIPE and May 2023 Financing Up To \$153.7 Million

To advance the company towards successful U.S. commercialization and path to profitability

July 2025 PIPE Financing of \$40.1 million

May 2023 Financing of up to \$113.6 million

- \$42.2 million upfront funding
- \$71.4 million tied to the achievement of four milestones (\$17.9 million each) each expiring upon the earlier of 5 years or 20 trading days following the achievement of the following milestones:
 1. **Complete, July 2024:** Release of primary and secondary end points related to one year follow up study results from the C-Guardians pivotal trial;
 2. **Complete, July 2025:** Receipt of Premarket Approval (PMA) from the FDA for the CGuard® Prime Carotid Stent System (135 cm);
 3. Receipt of FDA approval for the SwitchGuard trans carotid system and CGuard Prime 80 cm; and
 4. Completion of four quarters of commercial sales of the CGuard in the U.S.

Strong validation from leading fundamental healthcare investors, with additional participation by select NSPR Board members.

ROSALIND

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