InspireMD Poised to Revolutionize the Carotid Intervention Market

INSPIREMD

Nasdaq: NSPR

Disclaimers

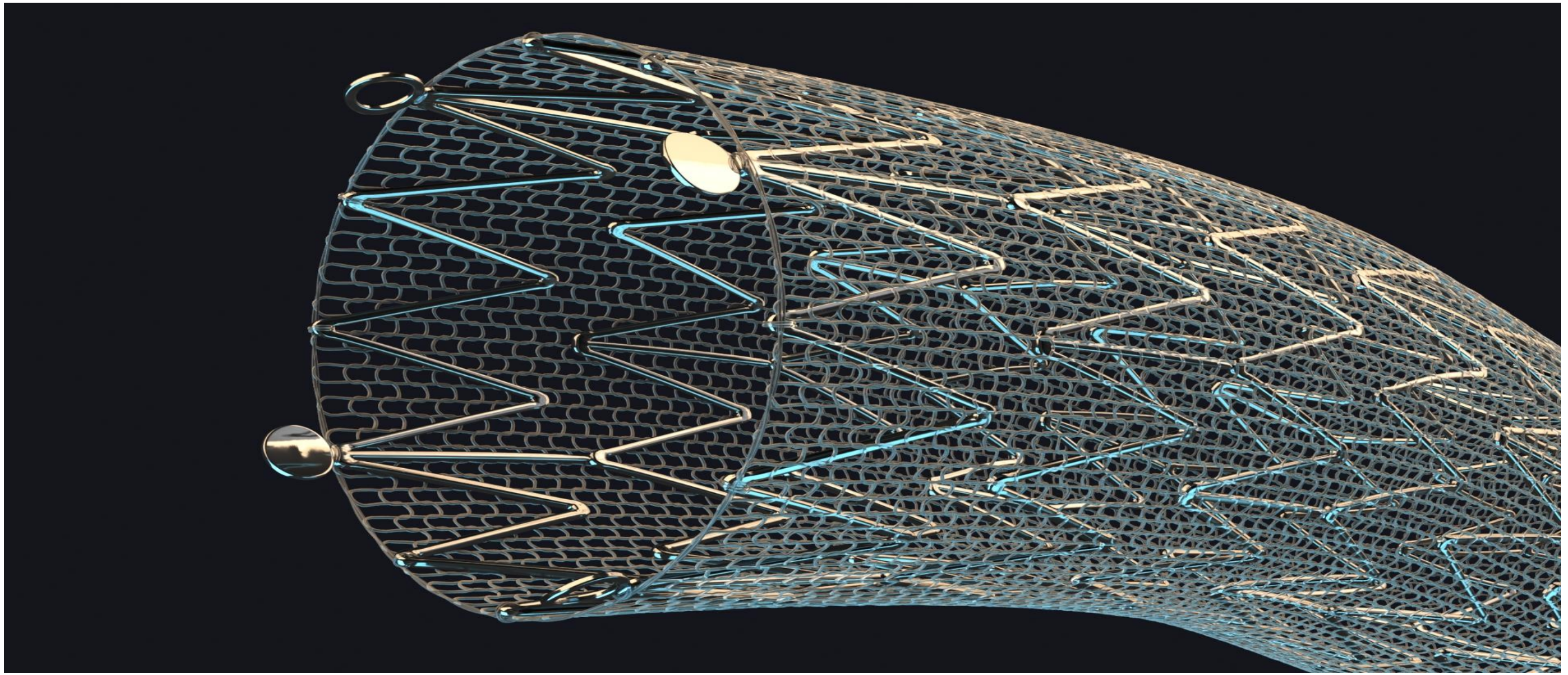
Forward Looking Statement

This presentation contains "forward-looking statements." Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. For example, the Company is using forward-looking statements when it discusses the potential commercialization and market opportunities for its products and product candidates, its cash runway, and its anticipated future milestone Company events. Forward-looking statements are not guarantees of future performance, are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) market acceptance of our existing and new products, (ii) negative clinical trial results or lengthy product delays in key markets, (iii) an inability to secure regulatory approvals for the sale of our products, (iv) intense competition in the medical device industry from much larger, multinational companies, (v) product liability claims, (vi) product malfunctions, (vii) our limited manufacturing capabilities and reliance on subcontractors for assistance, (viii) insufficient or inadequate reimbursement by governmental and other third party payors for our products, (ix) our efforts to successfully obtain and maintain intellectual property protection covering our products, which may not be successful, (x) legislative or regulatory reform of the healthcare system in both the U.S. and foreign jurisdictions, (xi) our reliance on single suppliers for certain product components, (xii) the fact that we will need to raise additional capital to meet our business requirements in the future and that such capital raising may be costly, dilutive or difficult to obtain and (xiii) the fact that we conduct business in multiple foreign jurisdictions, exposing us to foreign currency exchange rate fluctuations, logistical and communications challenges, burdens and costs of compliance with foreign laws and political and economic instability in each jurisdiction. More detailed information about the Company and the risk factors that may affect the realization of forward- looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 10-K and its Quarterly Reports on Form 10-Q. Investors and security holders are urged to read these documents free of charge on the SEC's web site at http://www.sec.gov. The Company assumes no obligation to publicly update or revise its forward-looking statements as a result of new information, future events or otherwise.

This presentation shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or other jurisdiction.

Developer of CGuard® Prime Carotid Stent Platform

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



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Now Approved in the U.S. CGuard® Prime Carotid Stent System

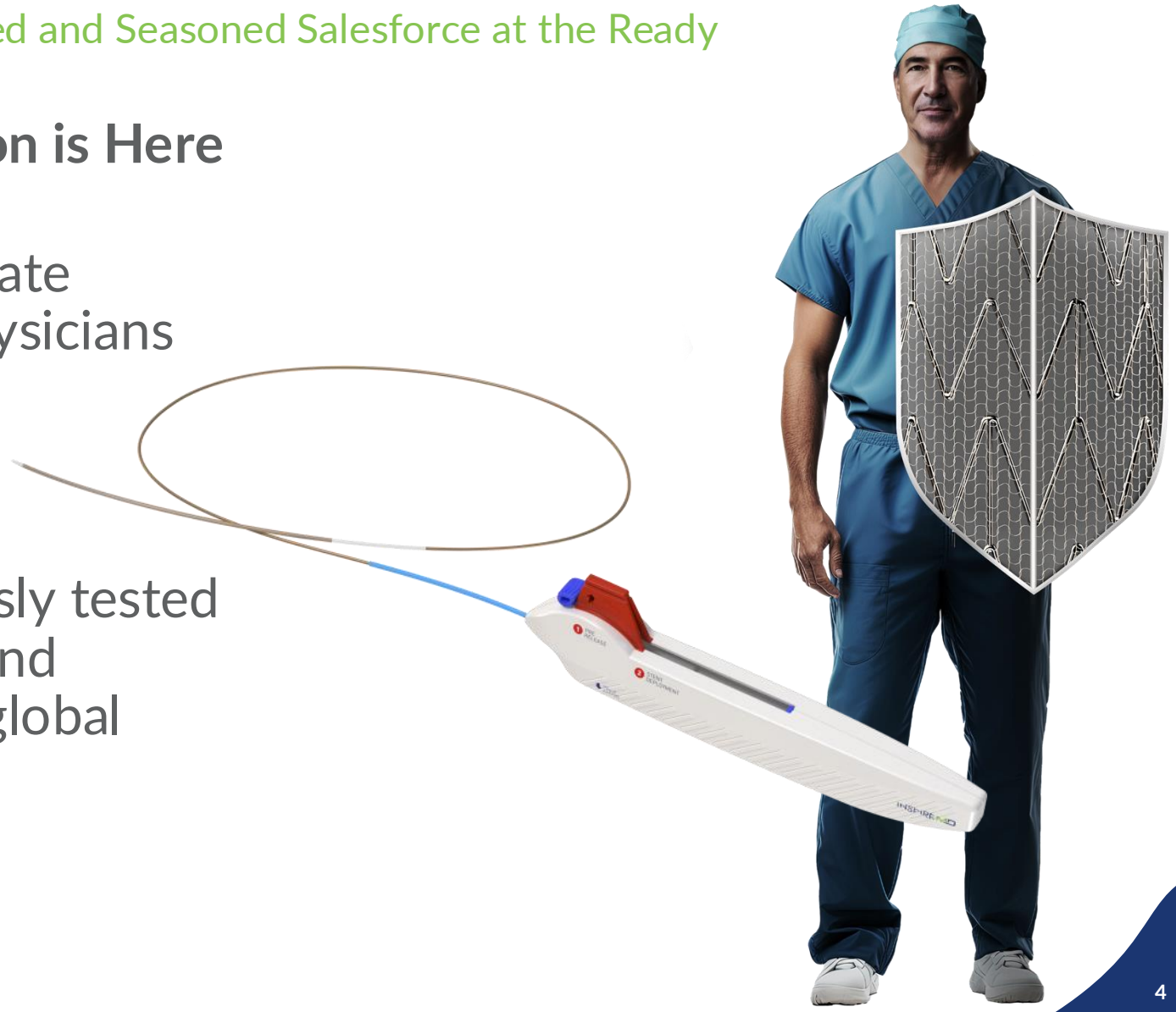
Ongoing U.S. Commercial Launch, With a Trained and Seasoned Salesforce at the Ready

A New Level of Stroke Prevention is Here

- With 60,000+ patients treated worldwide, we're ready to elevate embolic prevention for U.S. physicians and their patients

Tested. Trusted. Ready.

- Our U.S. entry brings a rigorously tested solution to stroke prevention and positions us to become a true global carotid technology leader



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Transforming the Carotid Intervention Market

CGuard®Carotid Stent Platform

Proprietary MicroNet™ Technology

Highly differentiated platform for treatment of carotid artery disease and stroke prevention

CMS Coverage Expanded

Standard Risk and Asymptomatic Reimbursement

Enables stent-first approach to carotid revascularization

Unmatched Clinical Outcomes

Short and Long-Term Results

Ten clinical trials completed with >**2,000** patients presented or published including US IDE trial

Significant Market Potential

Current Treated Market: $1.3 Billion

(Patients treated with CEA + CAS globally), with significant growth potential

Deep Pipeline and Strategic Roadmap

MicroNet™ technology pipeline; SwitchGuard NPS for TCAR; acute stroke with tandem lesions

Expanding Commercial Footprint

Double-digit market share in **>30** served countries (>30% in Italy)

Over **65,000** stents sold to date

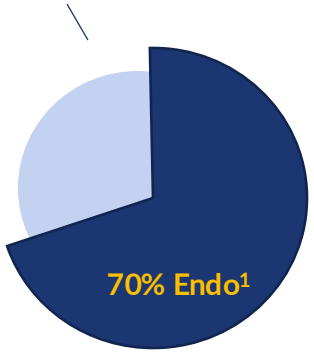
CGuard Prime Received FDA Approval in June 2025

Endovascular Revolution Has Arrived

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

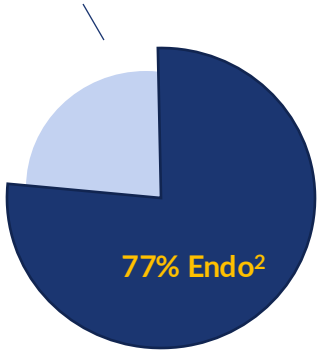
CEREBRAL ANEURYSMS

30% Surgical[1]



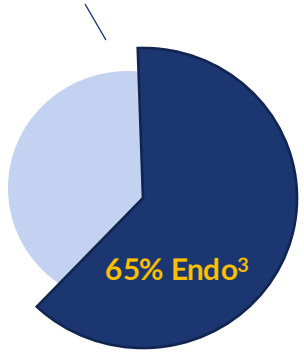
CORONARY ARTERY DISEASE

23% Surgical[2]



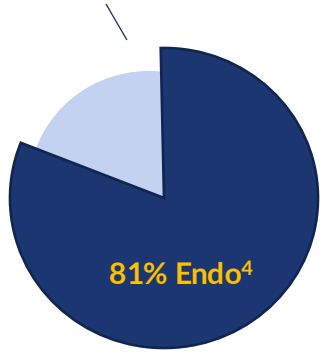
THORACIC/ABDOMINAL AORTIC ANEURYSMS

35% Surgical[3]



PERIPHERAL ARTERIAL DISEASE

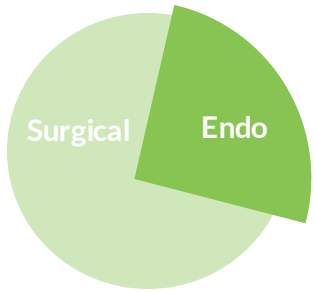
19% Surgical[4]



Already have been converted to endovascular-first procedures

CAROTID ARTERY DISEASE[5]

AWAITING CONVERSION TO ENDO



Market potential for open to endo conversion

[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] Procedures For Selected Nations, 2017 – 2025 presented to InspireMD, Inc. by Health Research International Personal Medical Systems, Inc. Sept. 13, 2021

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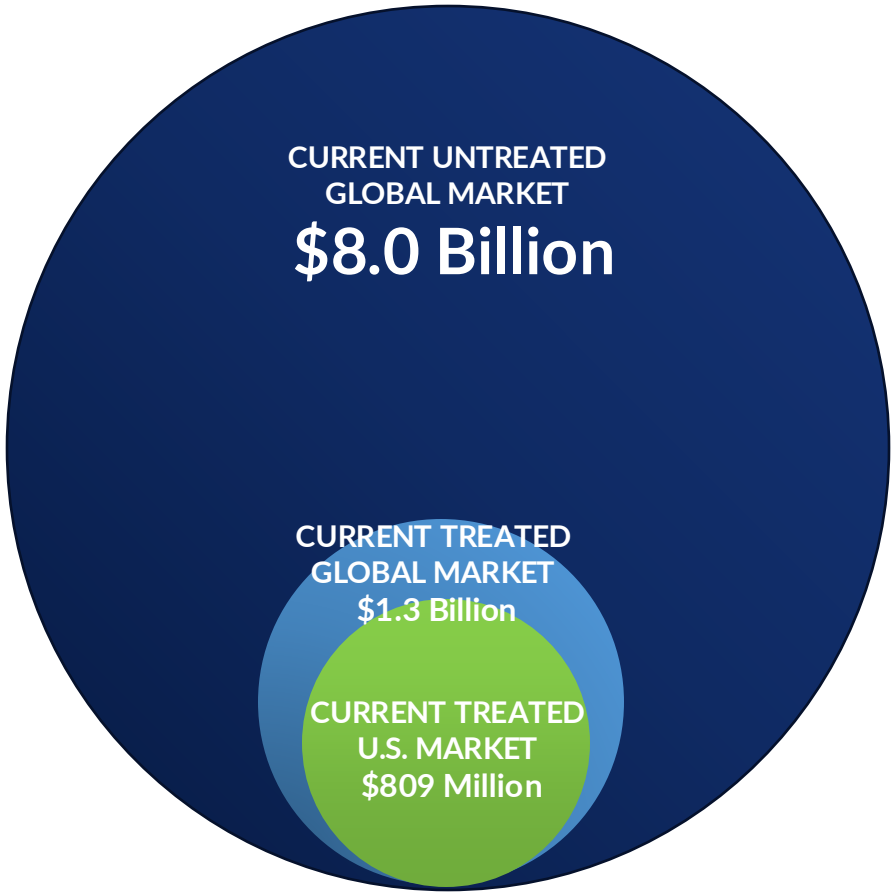
$8B Global Market Potential



~2.8 million
People diagnosed with High Grade Carotid Stenosis (HGCS)

~400,000
Global procedures (CEA/CAS/TCAR) annually to treat HGCS (1)

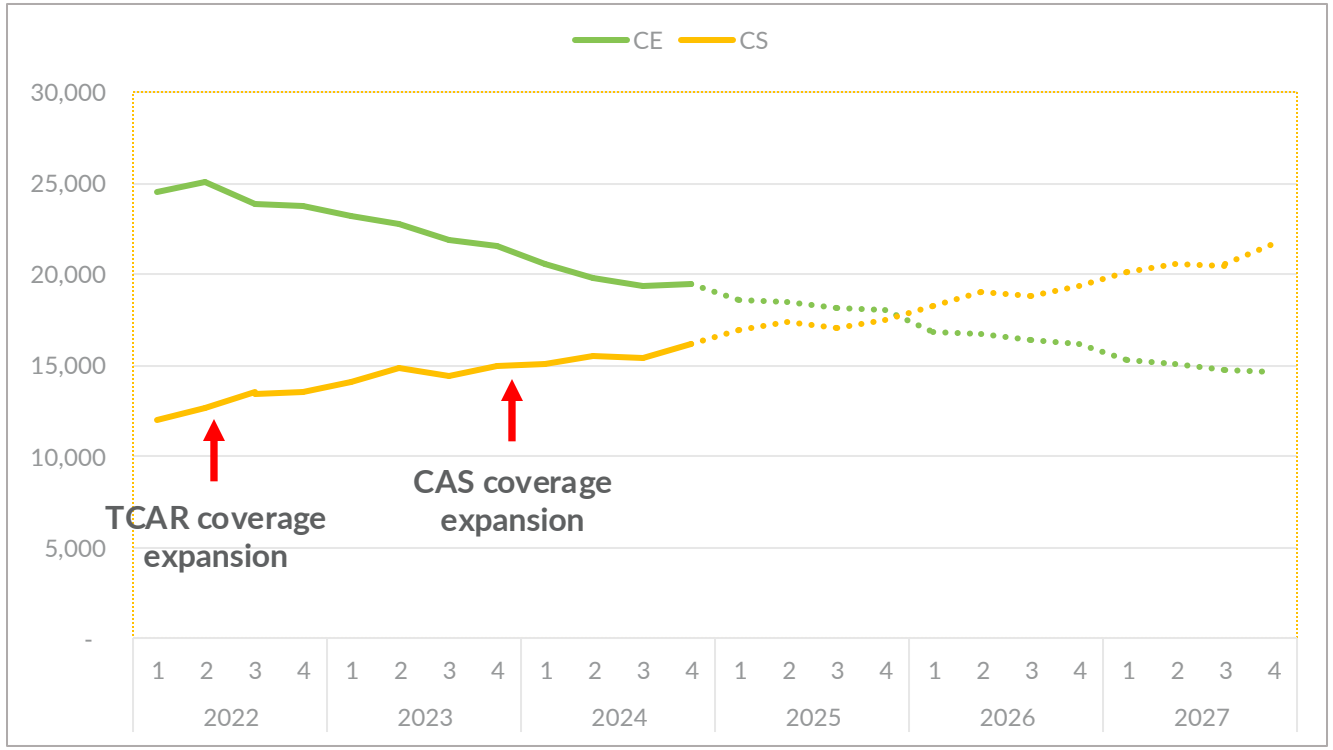
~155,000
US Procedures (CEA/CAS/TCAR) annually

Market Growth Driver
Reimbursement for the treatment of asymptomatic and standard surgical risk patients increases CAS potential, expected to increase screening and diagnosis

1. 2021 Health Research International Market Report; internal estimates

Carotid Stenting (CAS + TCAR) is on the Rise

- DRG/CPT data by Facility and HCP
- Trailing 12 Quarters through Q4 2024 (one quarter in arrears)
- ~147K annual carotid intervention claims
  - Represents ~90% of procedures (does not include Kaiser, Gov't/DoD)
  - **10.6% stent (CAS + TCAR) CAGR over prior three years** (TCAR reimbursement expansion 2022, CAS 2023)



Diagnosis	2024 Patient Encounters
Carotid Endarterectomy DRG 3 DRG Codes	79,239
Carotid Artery Stent DRG 3 DRG Codes	62,273

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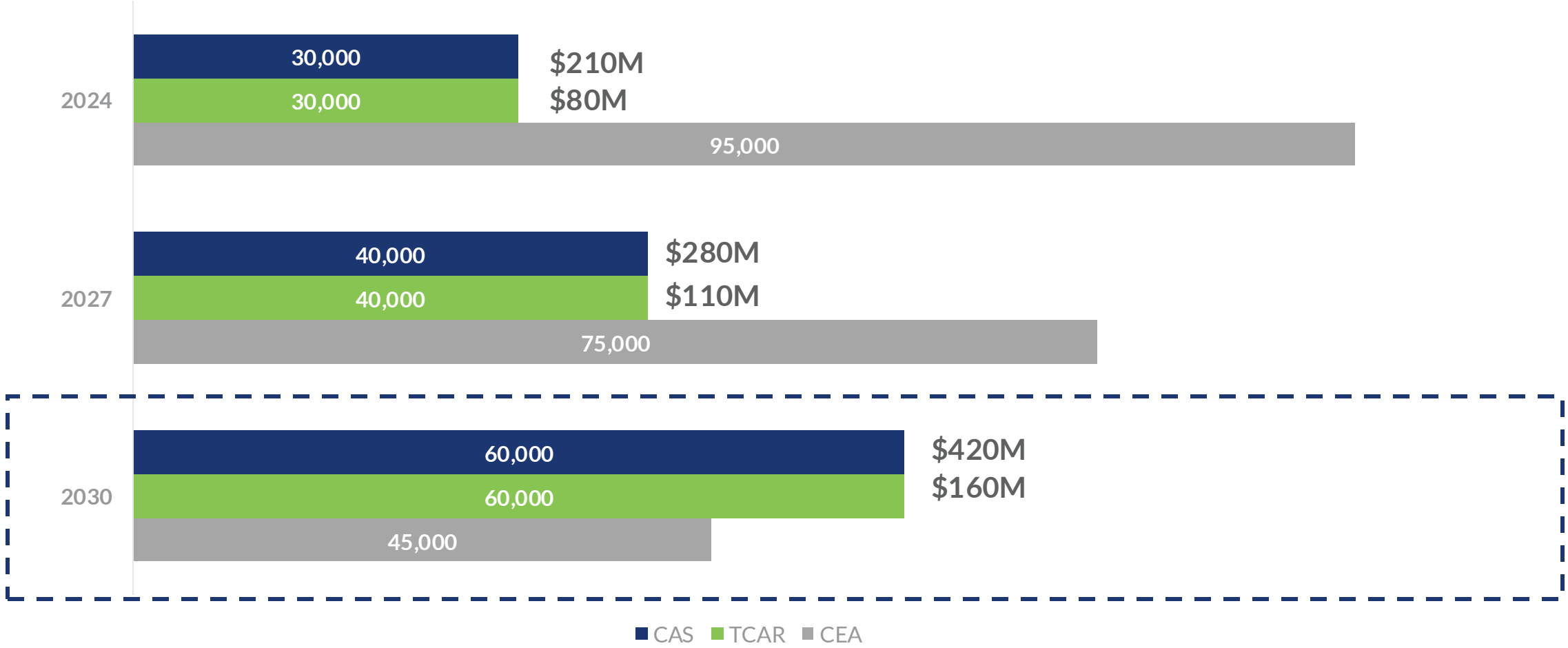
Data provided by acuity MD

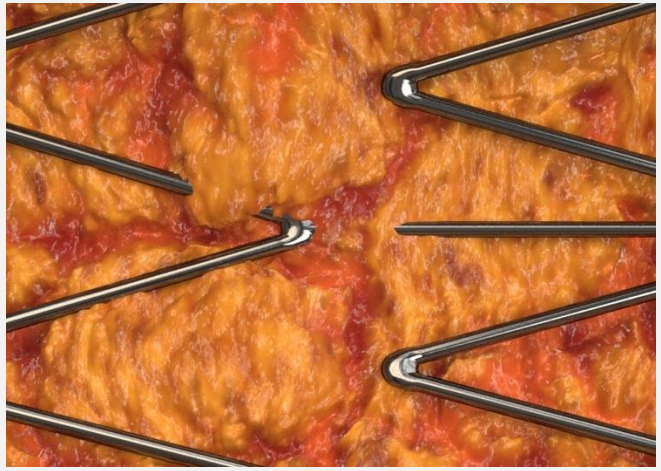
Market Shift

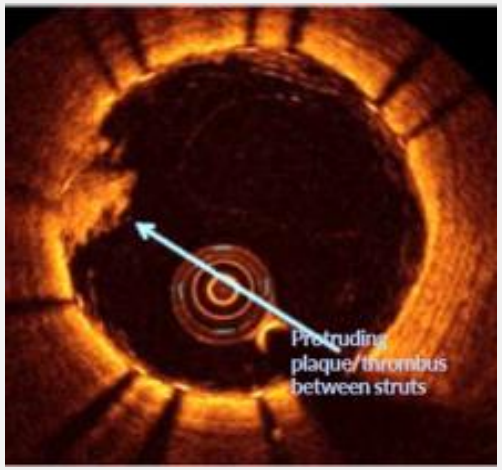
The market has already begun the shift from surgery to stents (procedures and revenue opportunity)



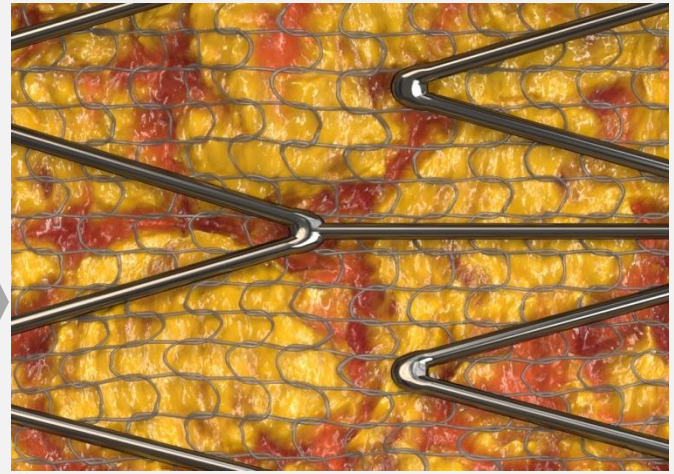
The CGuard® Difference: The Impact of MicroNet™ Technology[1]

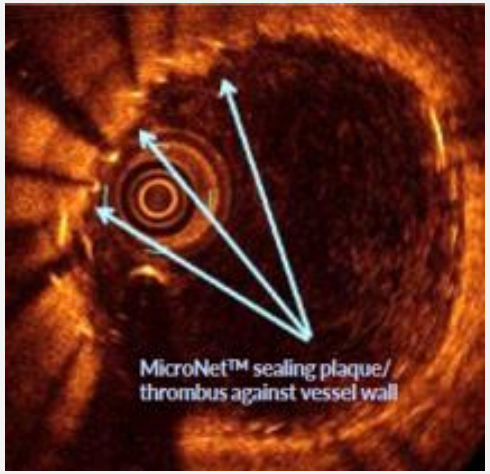
Approximately 2/3 of neurovascular events (stroke, TIA) occur after carotid interventions take place[2]. Prevention depends on the protection from the stent implanted





VS.





Conventional Open Cell Stent (1St GEN):

Larger cell sizes allow increased plaque protrusion risk

CGuard Stent System (2nd GEN):

Stents are covered in MicroNet to minimize plaque prolapse

MicroNet: Advanced Protection Technology

MicroNet captures and locks thrombus & plaque materials against the arterial wall, deterring debris from entering the bloodstream by acting as a mechanical barrier to prevent plaque prolapse

Image: Prof. Valdés Chávarri

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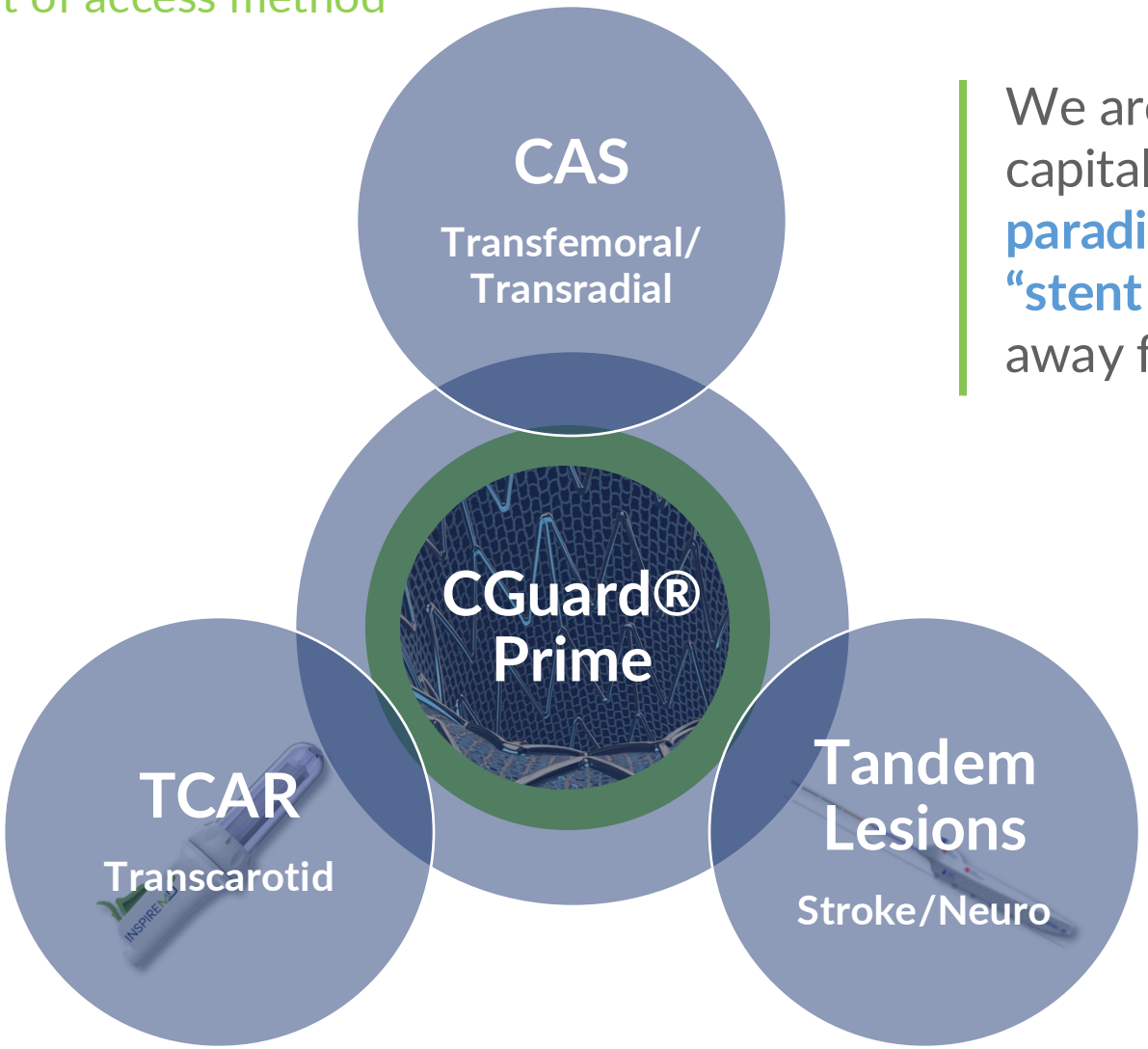
[1,2] Tomoyuki Umemoto, MD. Optical coherence tomography assessment of new generation mesh-covered stents after carotid stenting. Eurointerventional 2017;1348-1355 (published online)

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

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Scientific Advisory Board (Multidisciplinary KOLs)

Sean Lyden, M.D.
Vascular Surgeon

Cleveland Clinic

Chris Metzger, M.D.
Medical Director
Cardiologist

OhioHealth

Kenneth Rosenfield, M.D.
Interventional Cardiologist

Mass General Brigham

Adnan H. Siddiqui, M.D., Ph.D.
Professor, Vice Chairman of the Department of Neurosurgery

UBNS Neurosurgery
UNIVERSITY AT BUFFALO

Unmatched Foundational Data and Evidence

PMA Trial Design (C-GUARDIANS)

Prospective, multicenter international single-arm clinical trial

Pivotal Study Objective

Evaluate the safety and efficacy of the CGuard® Carotid Stent System in the treatment of carotid artery stenosis

Study Metrics

316 Patients – Enrollment completed (23 months)

24 Centers (19 in the United States and 5 in Europe)

Principal Investigators

Chris Metzger, M.D. (Ballad Health, Kingsport, TN)
Piotr Musialek, M.D. (John Paul II Hospital, Krakow, Poland)

Primary Endpoints

Composite of DSMI through 30 days or ipsilateral stroke 31 - 365 days post-index procedure

Calculation will be the composite of the following: incidence of the following major adverse events: death (all- cause mortality), all stroke, and myocardial infarction (DSMI) through 30-days post-index procedure, based on the clinical events or ipsilateral stroke from 31-365-day follow-up, based on CEC adjudication. The rate will be compared to a performance goal of 11.6% developed from published CAS literature.

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* Schofer, J. et al. JACC Cardiovasc. Interv. 2015; Speziale, F. et al. EuroIntervention. 2018; Sirignano, P et al. Cardiovascular Interv. 2020; Musialek et al. EuroIntervention. 2020; Karpenko, A. et al. JACC Cardiovasc. Interv. 2021.

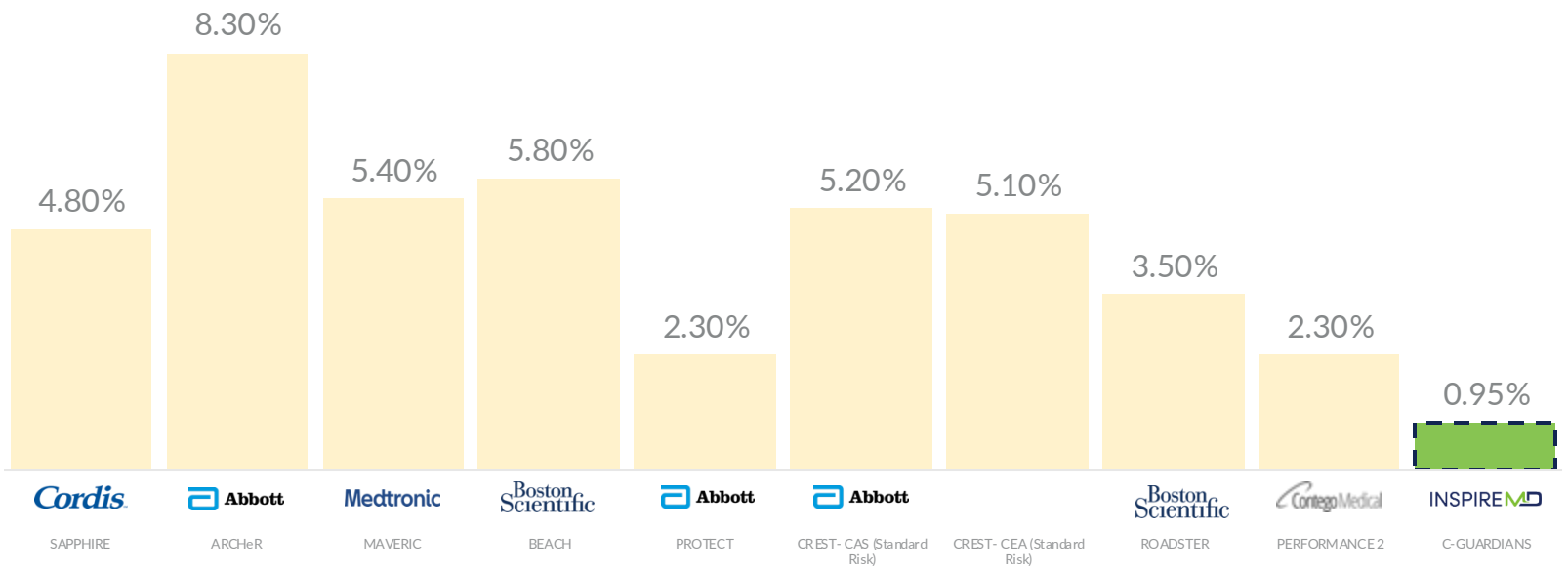
C-GUARDIANS: 30-Day Safety Outcomes

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

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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

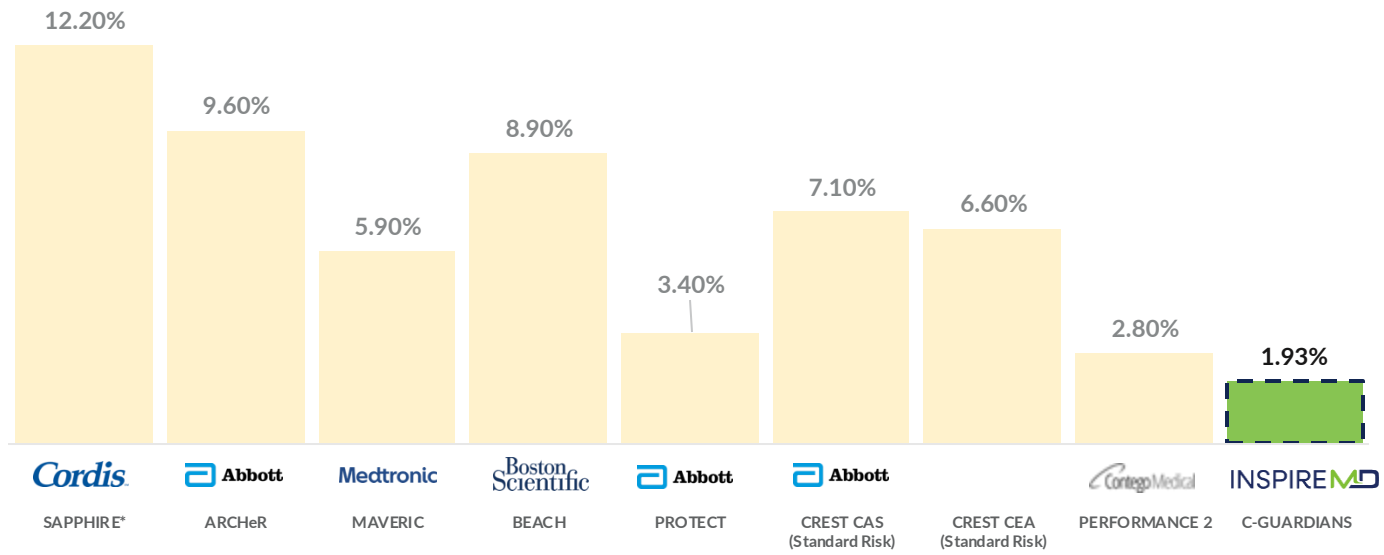
C-GUARDIANS: 1 Year Outcomes

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

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1. Kaplan-Meier estimate for all 1-year endpoints
2. Per Protocol Analysis excludes 15 patients with Major Protocol Deviations
3. SAPPHIRE one-year primary endpoint also included Death/MI from 31-365 days

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. Langhof, LINC 2024

OUS Clinical Data Supporting CGuard® Periprocedural Safety

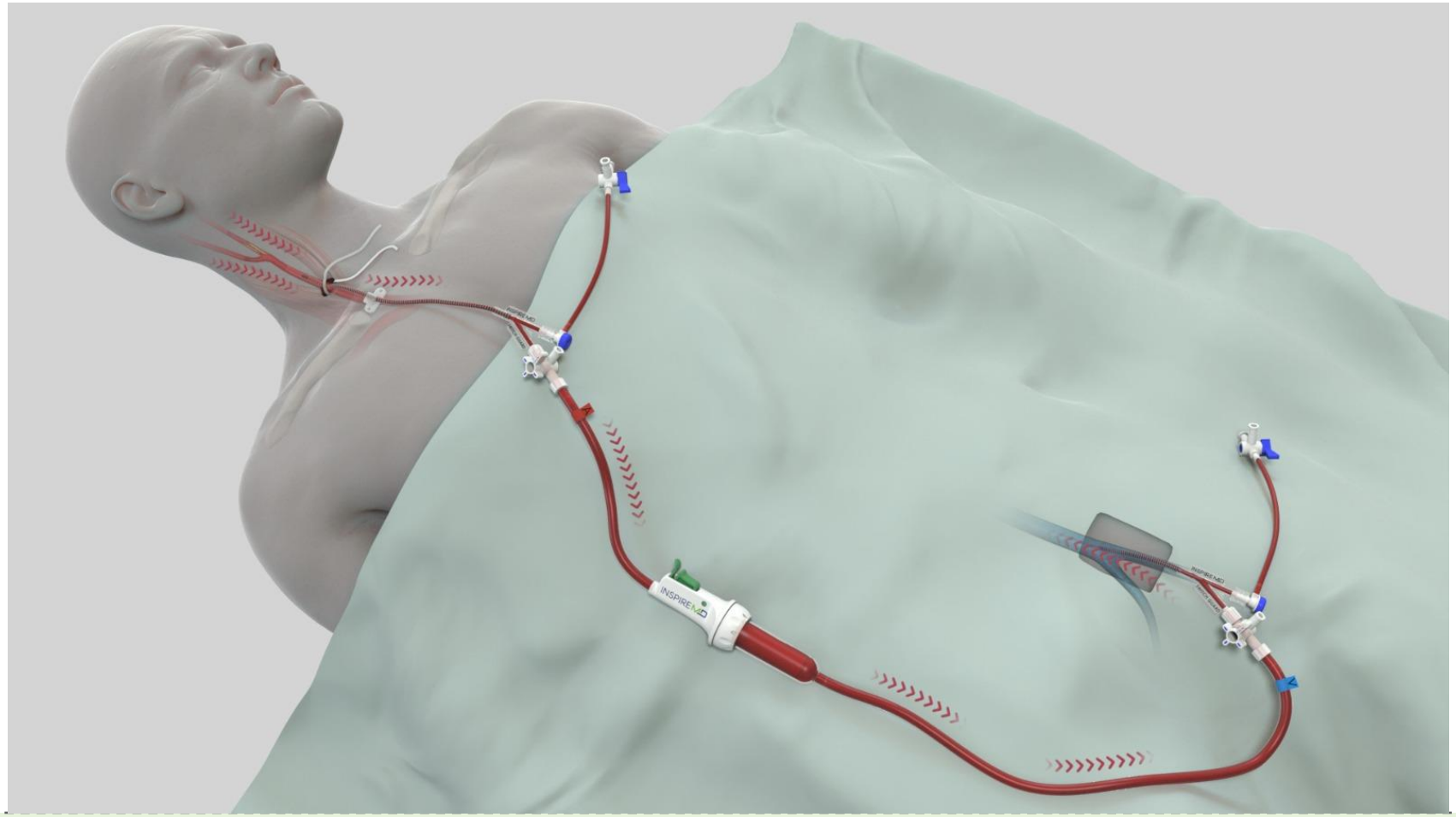
CGuard commercially available in Europe since 2015 (CE Mark)

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)**

1. Schofer, J. et al. JACC Cardiovasc. Interv. 2015; 2) Casana, R. et al. Eur. J. Vasc. Endovasc. 2017; 3) Musialek, P. et al. Interv. Cardiol. 2016
4. Wissgott, C. et al. Int. Soc. Endovasc. Spec. 2017; 5) Speziale, F. et al. EuroIntervention 2018; 6) Wissgott, C. et al. J Endovasc Ther. 2019
7. Sirignano, P et al. Cardiovascular Interventions 2020;8) Tigkiropoulos, K. et al. Journal of EndoTherapy 2021; 9) Karpenko, A. et al JACC Cardiovasc. Interv. 2021

TCAR

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



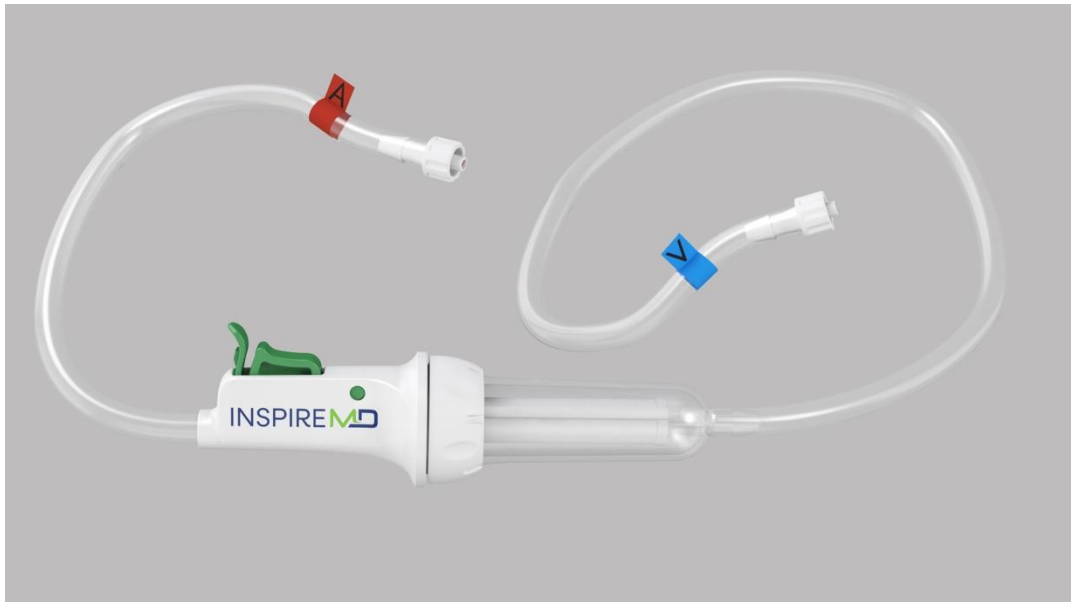
InspireMD Combines SwitchGuard NPS with Best-in-Class CGuard® Implant

1. Transient flow reversal combined with sustained embolic prevention in transcervical revascularization of symptomatic and highly-emboligenic carotid stenoses for optimized endovascular lumen reconstruction and improved peri- and post-procedural outcomes, Advances in Interventional Cardiology 2020;16, 4 (62):495-506

Developing Comprehensive TCAR Solution

80cm

CGUARD® PRIME



SWITCH GUARD

TCAR Market Opportunity

~3,000 TCAR-trained physicians in the U.S.[1]

~30,000 TCAR procedures **(~$210M)** performed in the U.S. in 2024, double-digit growth projected[1,2]

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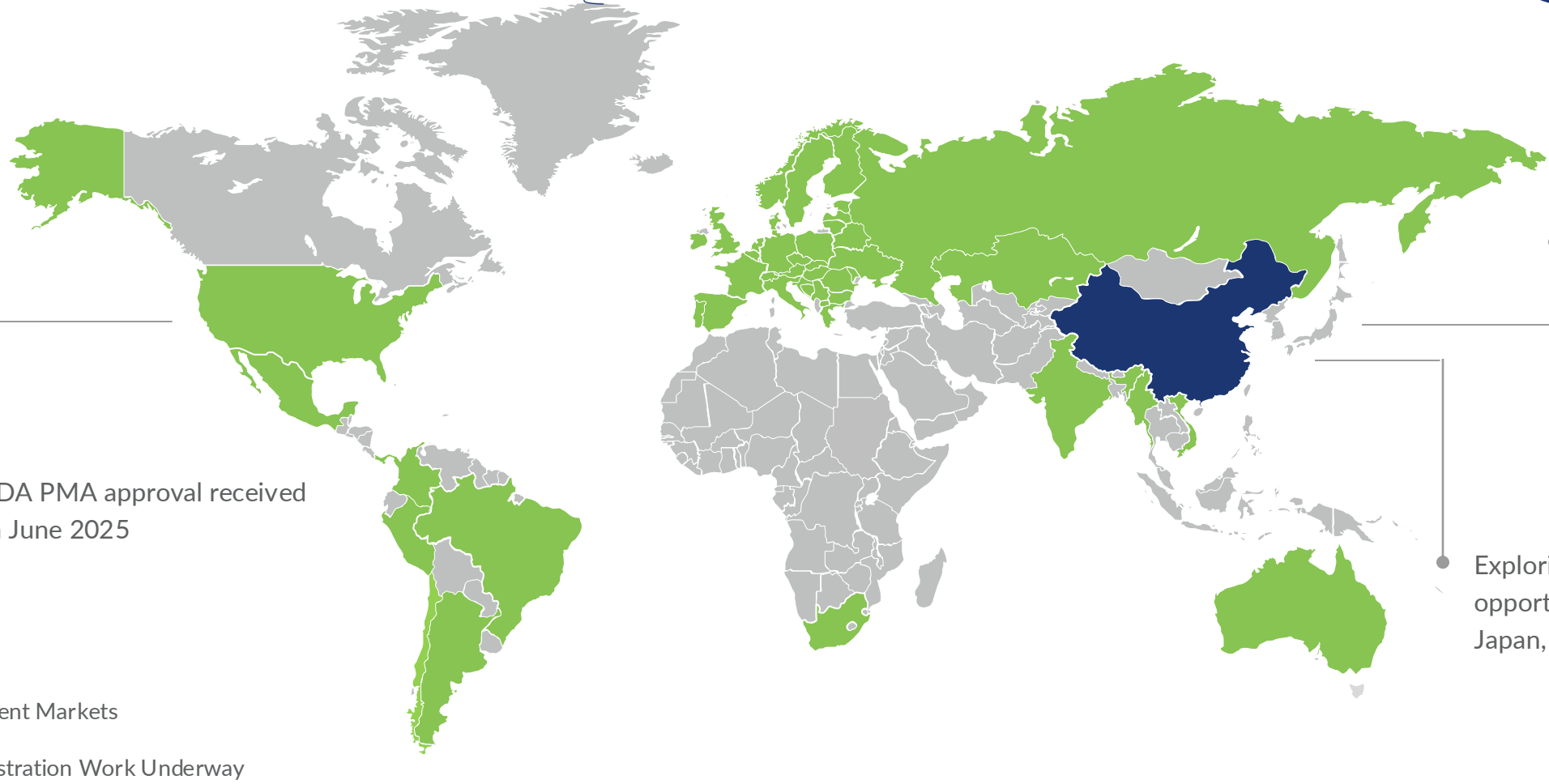
1 Piper-Sandler model, 05/01/24

2 Piper-Sandler model, 05/01/24

Commercial and Corporate

Commercial Footprint

- Active selling in more than 30 countries
- Over 65,000 systems sold
- Average CAS Market share of 25%



FDA PMA approval received in June 2025

Signed agreement with Chinese distributor. Working toward distribution

Exploring expansion opportunities Taiwan, Japan, and Korea

Current Markets

Registration Work Underway

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Commercial Traction Progress in the U.S.

Salesforce

High powered 20+person U.S. commercial team with CAS, TCAR, and Neurovascular expertise, proven success launching new products and navigating approvals

Continue to attract and recruit outstanding field sales talent

Targeting

Leverage claims database to:

- Map carotid stent procedures to the physician level
- Identify highest-opportunity markets to guide hiring decisions
- Target priority physicians and accounts with precision

Demand

Strong physician interest paired with a seasoned field team have driven significant progress with double-digit physicians having performed cases in the U.S.

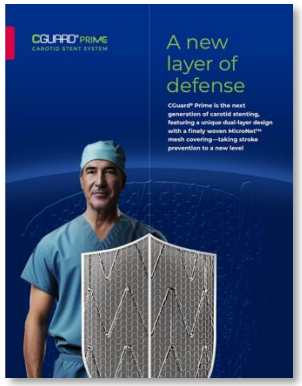
Marketing

Q2 Launch Activities and Collateral

Website

SNIS 2025

> *"I'm happy to announce [CGuard® Prime] is now commercially available for use in our labs and I suggest that this is a complete paradigm shift in carotid stenting because of these extraordinary low event rates.*
>
> ***~David Fiorella, MD, PhD Stony Brook University***

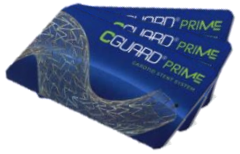


Brochure, VAC Pack

Nasdaq Signage

Sales Presentation, Inservice Deck

Social Media



1. *Foundation & Readiness*
2. *Launch & Awareness* *(We're here)*
3. *Expansion & Impact*

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Roadmap / Milestones

Key Value Drivers

2025

CGuard® Prime CAS Approval

Launch for CAS

U.S Operational Expansion

Build out of U.S. HQ, Operational and Commercial

Acute Stroke EFS- Tandem Lesions

CGuard Prime FDA & CE Mark Approval

2026

CGuard Prime CAS Market Expansion

CGuard Prime TCAR Approval

CGuard Prime indicated stent for TCAR

2027

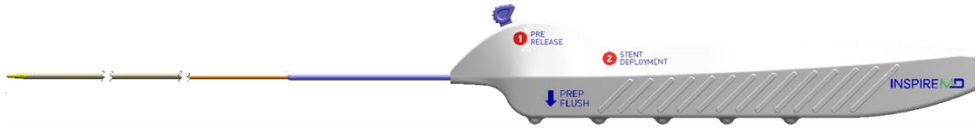
SwitchGuard NPS Clearance / Launch (Full TCAR Tool Kit)

CGuard Prime indicated stent with SwitchGaurd Neuro Protection for TCAR

Further Commercial Expansion in the U.S.

Potential Global Expansion (Asia)

Potential Portfolio Expansion



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 $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

SOLEUS CAPITAL

NANTAHALA CAPITAL MANAGEMENT, LLC

VELAN CAPITAL

MARSHALL WACE

OrbiMed Healthcare Fund Management

PARKMAN HEALTHCARE PARTNERS

Ghisallo

TEKLA Capital Management LLC

INSPIREMD

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