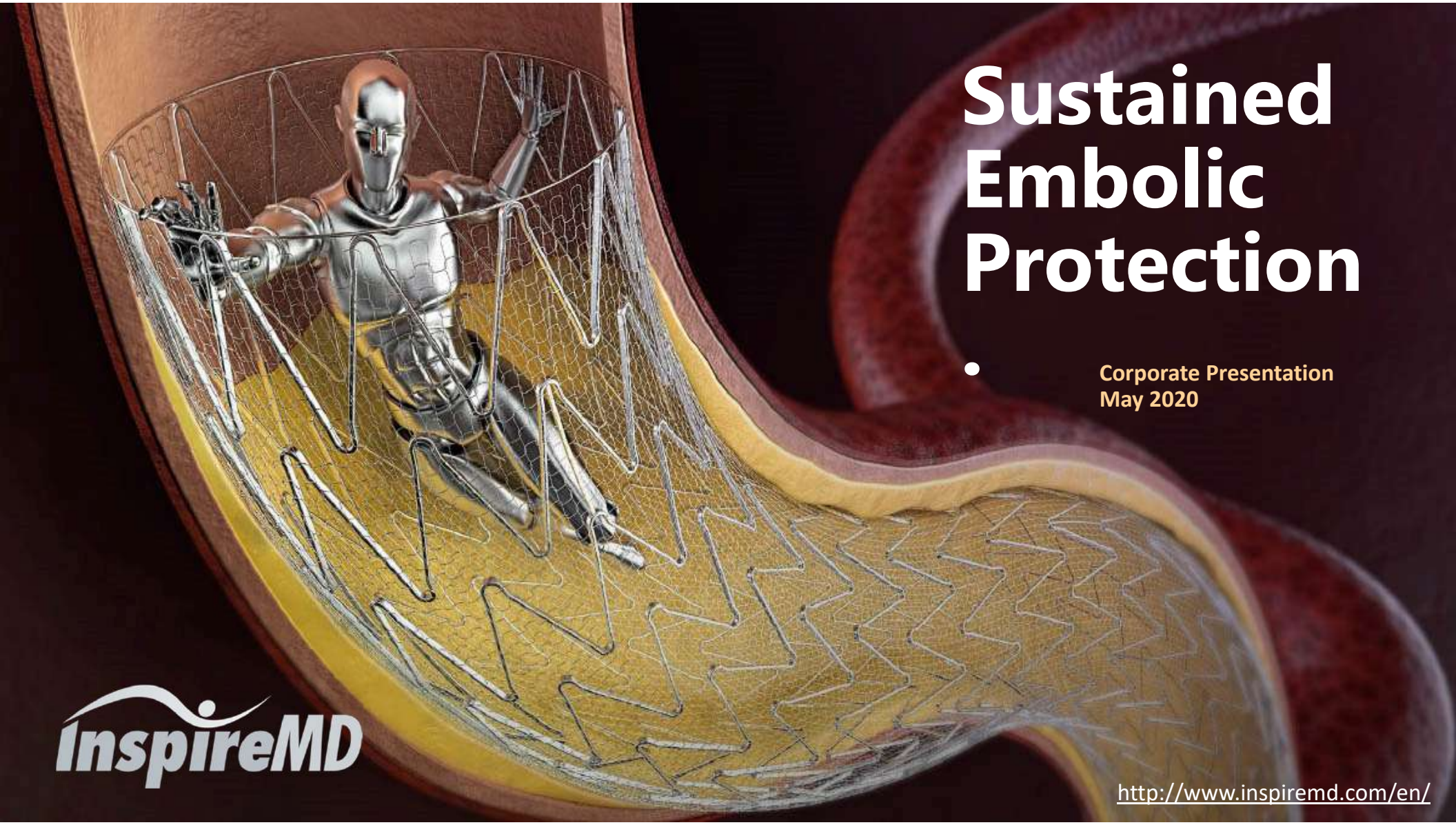


Sustained Embolic Protection

- Corporate Presentation
  May 2020

InspireMD

http://www.inspiremd.com/en/

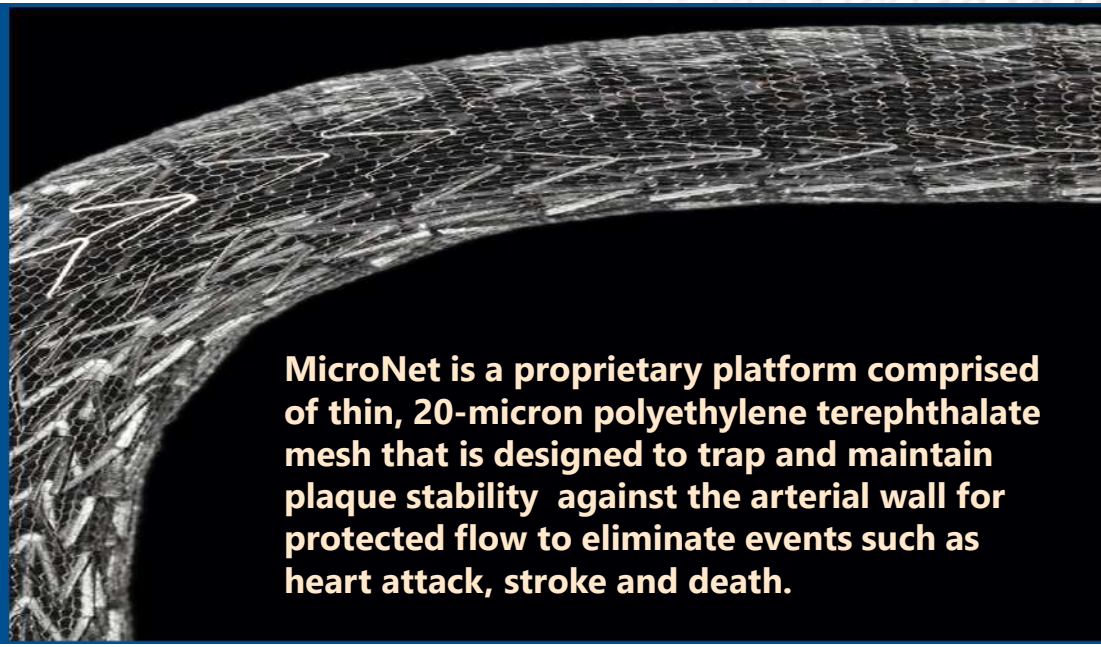
Disclaimer

Forward-looking Statements

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. 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) the impact of the novel coronavirus (COVID-19) on our sales as hospitals delay or cancel elective surgeries, (iii) the geographic, social and economic impact of COVID-19 on our ability to conduct its business and raise capital in the future when needed, negative clinical trial results or lengthy product delays in key markets, 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.

About InspireMD

InspireMD is a commercial-stage medical device company focused on stroke prevention in patients with carotid artery disease and treatment of other minimally invasive indications utilizing an integrated embolic protection stent platform.



MicroNet is a proprietary platform comprised of thin, 20-micron polyethylene terephthalate mesh that is designed to trap and maintain plaque stability against the arterial wall for protected flow to eliminate events such as heart attack, stroke and death.

- **The company develops, manufacturers and commercializes a portfolio of embolic protection systems**
- **MicroNet™, a key differentiator of InspireMD's commercial products, is revolutionizing the field of vascular stenting**
- **Today, InspireMD is a global company traded in the NYSE under NSPR**

About InspireMD

Ticker NYSE AMER: NSPR

# of employees: 47

Headquarters & manufacturing facility: Tel Aviv

Commercial & clinical employee locations: Germany, UK, Spain, Israel

Price (A/O 4/29/20): $0.76

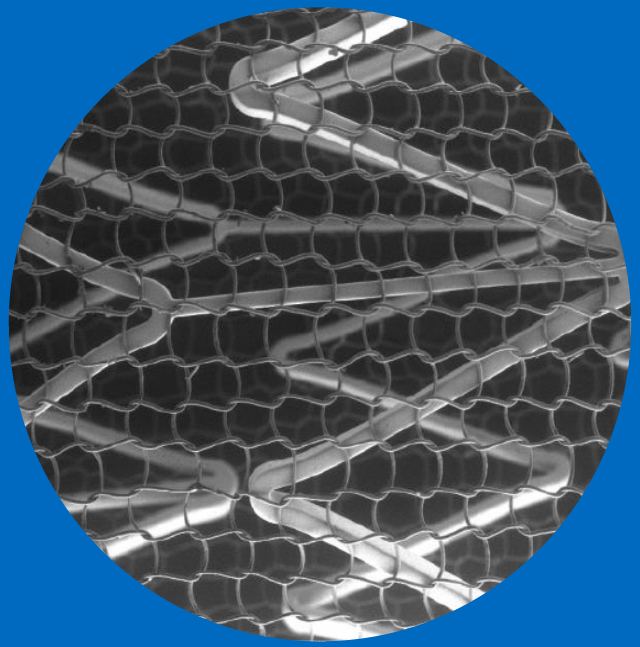
Shares outstanding (including full conversion of preferred shares): 5.0 million

Market cap (including full conversion of preferred shares): $3.8 million

Fiscal year end: December 31

Cash Balance as of Dec. 31 = $5.5 million

About InspireMD



Proprietary MicroNet™ Technology

Commercial Stage

Stroke Protection: CGuard™ EPS
The CGuard™ Carotid Stent with Embolic Prevention System (EPS) is designed to improve patient safety through sustained embolic protection[1,2] using our MicroNet technology.

Myocardium Protection: MGuard™ EPS
The MGuard™ EPS, integrated with MicroNet™, is designed to trap and seal thrombus and ruptured plaque, preventing embolization and optimize flow.

Developing Products

Carotid Treatment: CGuard™ EPS US; CGuard™ Next Generation

Peripheral Treatment: PGuard™ EPS US

Neuro Treatment: NGuard™

References: 1. Musialek P et al. PARADIGM-Extend Prospective Academic Trial: Accumulating long-term evidence for MicroNet-covered stent safety and stroke prevention efficacy. Presentation at ESC Congress 2019, Paris, France, 31 August 2019 to 4 September 2019. 2. Wissgott C et al. J Endovasc Ther 2017;24(1):130–137. 3. Musialek P, Hopkins LN, Siddiqui AH. Postepy Kardiol Interwencyjnej 2017;13(2):95–106. 4. Schofer J et al. JACC Cardiovasc Interv 2015;17(8):1229–1234. 5. CGuard™ Instructions for Use.

Company Highlights

CGuard™ EPS	**Enabling a paradigm shift** (CAS) in the treatment of carotid artery disease and stroke prevention **Breakthrough platform**: Highly differentiated, with strong support from leading clinicians **MicroNet™ technology** that is elegantly simple, propriety and easily leveraged to other medical devices
Benefits Demonstrated in Multiple Trials	**Clinical evidence / data driven**: 7 clinical trials completed with >1,500 patient procedures and 4 ongoing clinical trials **Differentiation** versus conventional carotid stents and surgery with both short- and long-term results **Outcomes based:** No device related major adverse events. No major strokes or deaths related to device. **Sustainable results**: Long term benefit reported in all-comer population
Commercial Growth	**Expanding existing footprint**: Deeper penetration within key markets (18,000 devices sold to date) **Results**: 2019 CGuard™ EPS sales increased 31% Q4/Q4 **Commercial model development**: Evaluating opportunities to go direct in key markets
1B Global Market Opportunity	**Expansion into OUS markets**: Near term: Brazil; strategic partners discussions in Japan and China **United States**: • IDE FDA submission for CGuard™ EPS July 2019 • Critical step in commencing human trial in the USA
Capital Structure	**Recapitalized** the company to clean up the capital structure and prepare for growth **Capital use** focused on commercial execution and pipeline
Pipeline and Strategic Opportunities	**Leverage** MicroNet™ into other pipeline opportunities in other neurovascular and peripheral techniques and treatments **Proactively** seek synergistic product opportunities **Add** BD resources to effectively assess inbound queries and implement a more focused and proactive BD strategy.

InspireMD 2.0

Re-setting Awareness, Establishing Value, and Advancing Body of Evidence to Change The Standard of Care

In late 2019, InspireMD:

- ☑ Established new leadership
- ☑ Implemented focused commercial strategy in approved markets
- ☑ Committed to a patient-first approach while being accountable to delivering results, credibility, and quality

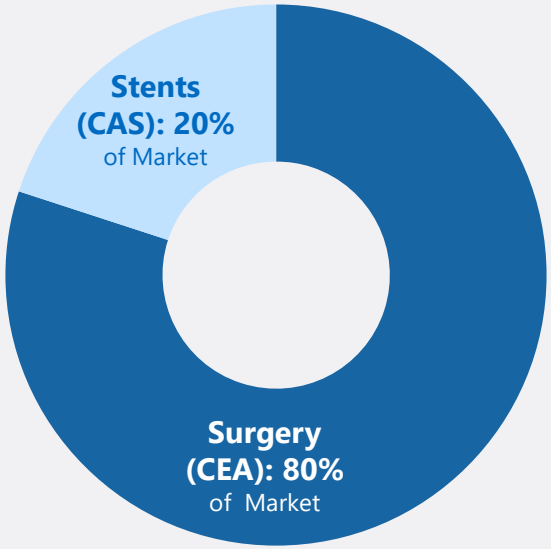
OUR 2020 PRIORITIES INCLUDE:

- **Building continued market share and utilization of CGuard™ in European markets**
- **Focusing on vascular surgeon's utilization of CGuard™ platform vs surgical approach (CEA)**
- **Opening and expanding markets in South America, including Brazil**
- **Completing IDE approval for CGuard™ for the U.S. market**
- **Prudent expense and cash management**
- **Advancing next generation CGuard™ platform / advanced delivery system**
- **Building a strategic plan with multiple pillars of indications**

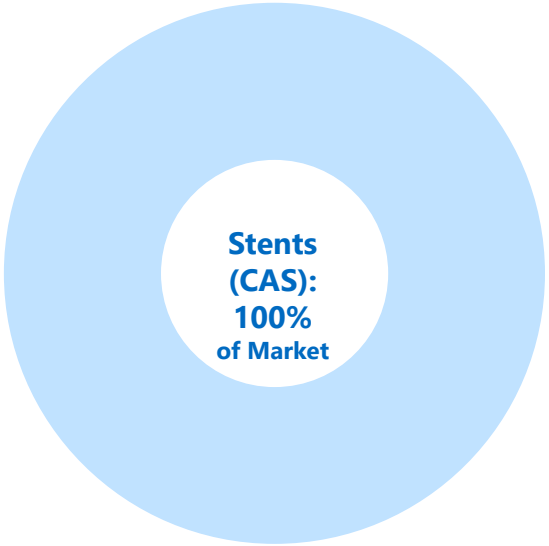
A Billion Dollar Market Opportunity

Our MicroNet™-covered stents like CGuard™ could become the new gold standard

WW carotid procedures today are primarily surgical:



Carotid procedures tomorrow could be mostly minimally invasive with CGuard™



- 2.2M diagnosed with carotid artery disease (CAD)
- 2017: ~600,000 patients with high grade carotid stenosis (HGCS) required interventions for CAD
- At present, ~80% are surgically treated CEA
- At a price of $1,650 per stent, the addressable market is estimated to be more than $1 billion

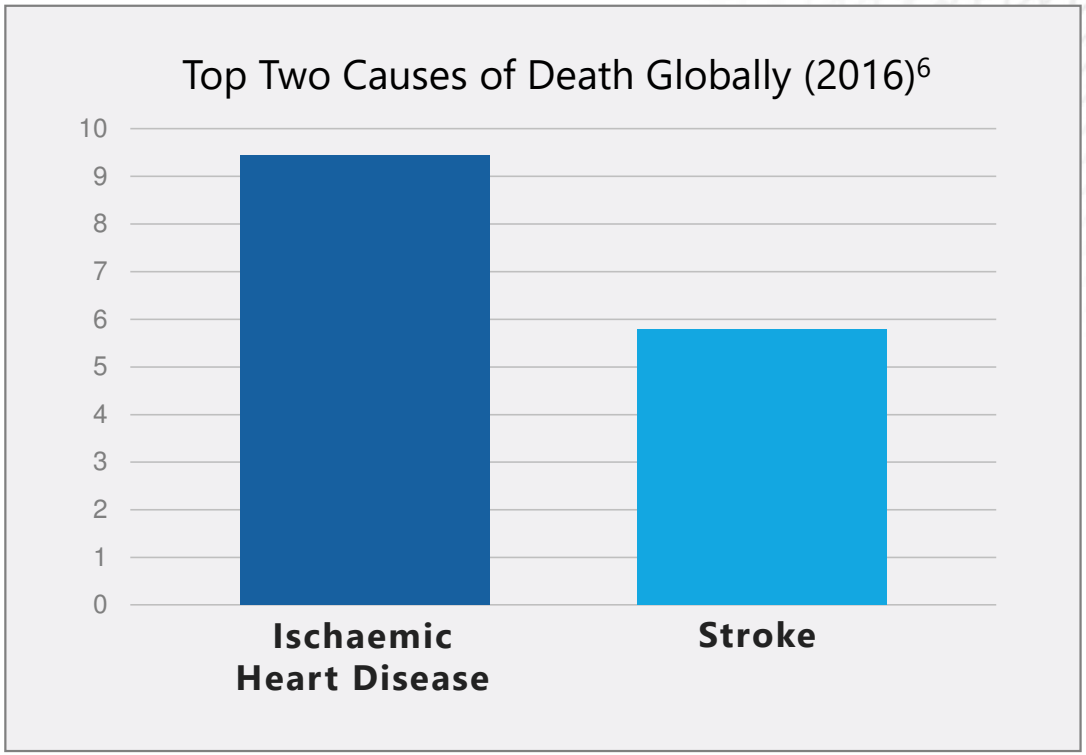
2017 Health Research International Market Report

CAS = Carotid Artery Stenting
CEA = Carotid Endarterectomy

Stroke is the Second Biggest Cause of Death Globally

An estimated 15 million people suffer from stroke annually[1]

- 6.2 million deaths[2]
- 5 million people left permanently disabled[1]
- $34 billion associated with stroke management in the US alone[3]
- ~85% of all strokes are ischemic strokes, which result from a lack of blood flow to the brain[4]
- Carotid artery disease (CAD) is a major risk factor for stroke
- ~20% of all ischemic strokes are estimated to be caused by CAD (2.2-2.4 million)[5]



[1] http://www.emro.who.int/health-topics/stroke-cerebrovascular-accident/index.html
[2] https://professional.heart.org/idc/groups/ahamah-public/@wcm/@sop/@smd/documents/downloadable/ucm_505473.pdf
[3] Center For Disease Control and Prevention – Stroke Facts – 2017
[4] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4562827/ [5] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5861011/
[6] https://www.who.int/news-room/fact-sheets/detail/the-top-10-causes-of-death

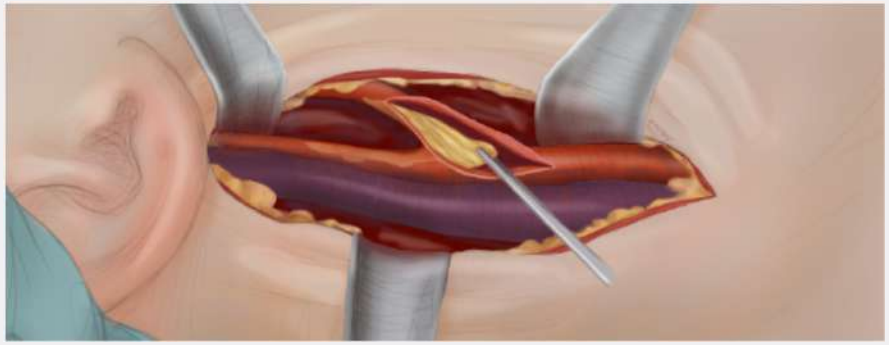
THE PROBLEM: Risks with Existing Approaches to CAD

Surgery (CEA) and conventional Carotid Artery Stenting (CAS) both come with risks

Carotid Endarterectomy (CEA)
Surgical Approach

Risk of complications:

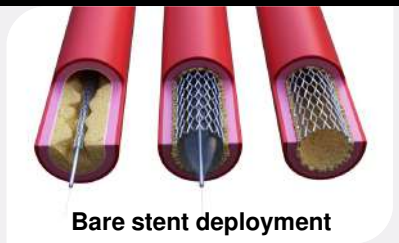
- **Myocardial infarction risk[1] (heart attack)**
- **Cranial nerve injury risk[2] (vertigo, hearing loss, paralysis, etc)**
- **Esthetic concern**



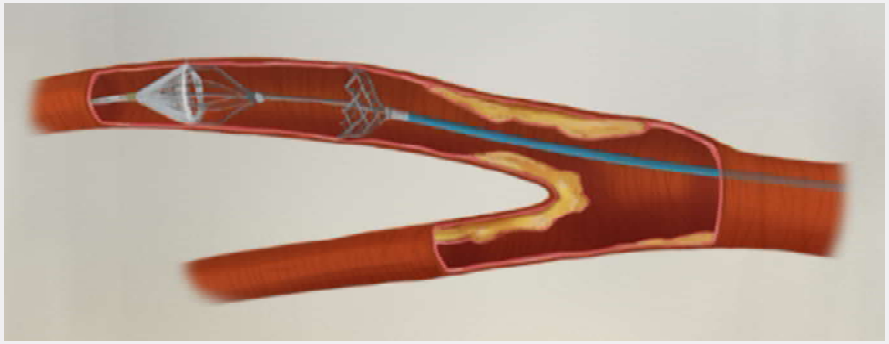
Carotid Artery Stenting (CAS)
Conventional Approach (Bare Stent)

Risk of complications:

- **Procedural and post-procedural increase minor stroke risk[1]**



Bare stent deployment



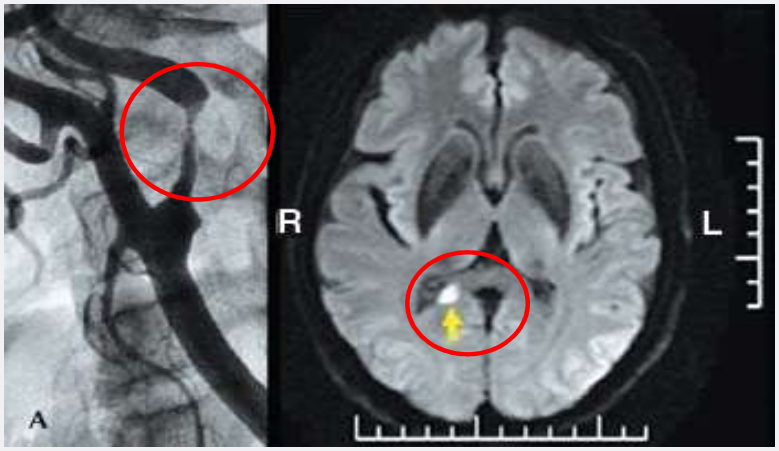
Based on the **CREST** clinical trial data[1], in which only **conventional carotid stents** were used vs.**surgery**

[1]CREST Trial: N Engl J Med 2010;363:11-23
[2] Circulation. 2012;125:2256-2264

THE PROBLEM: Risk of Embolism Following Conventional CAS

MRI reveals post-procedural cerebral embolization

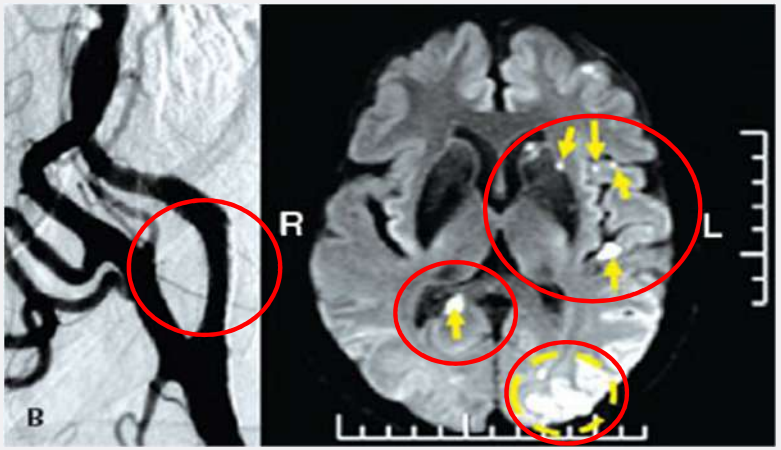
Pre-Procedure



90% occlusion of the carotid artery

MRI of a pre-existing white matter infarction (obstruction)

Post-Procedure
with Conventional Stent



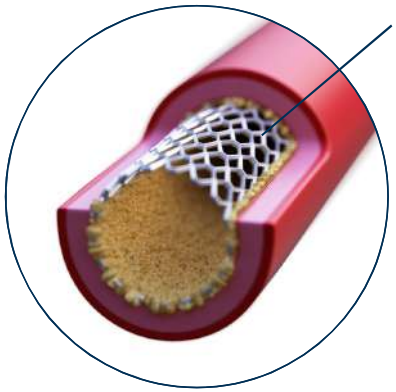
Successful opening of the carotid artery

MRI reveals new multiple micro-infarcts (obstructions) due to liberation of embolic particles

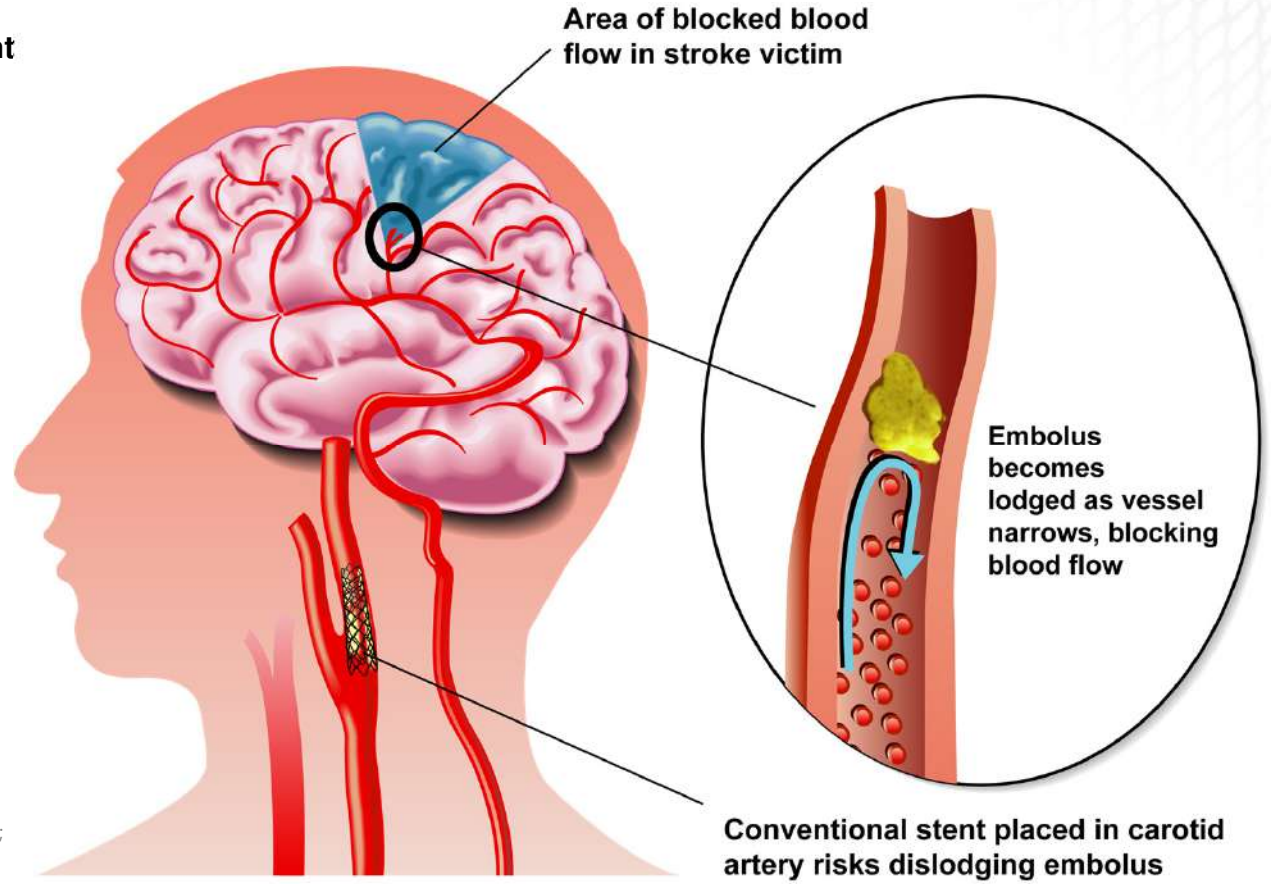
Cano et al. Rev Bras Cardiol Invasiva 2013; 21(2): 159-64.

THE PROBLEM: Risk of Embolism Following Conventional CAS

Plaque protrusion through stent struts occurs in up to 65% of conventional carotid stents,* resulting in embolus formation and cerebral embolization



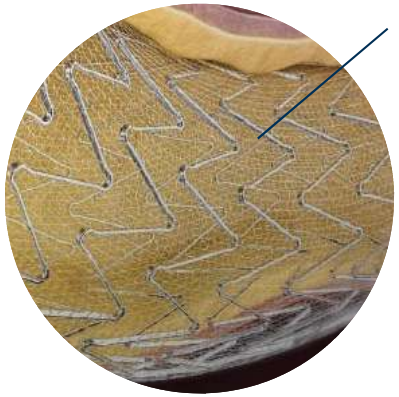
Conventional stents run the risk of plaques entering the blood stream and causing stroke



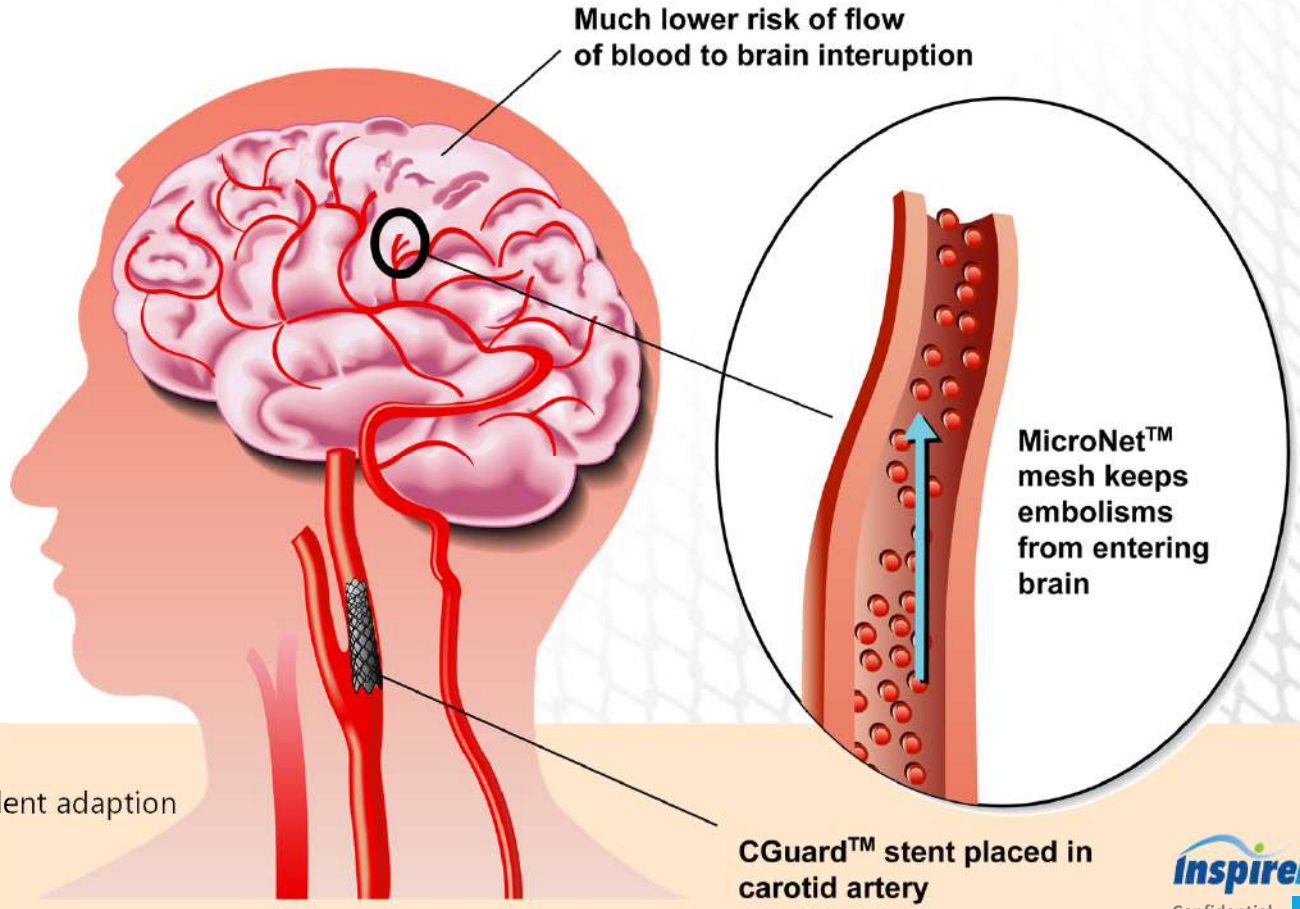
*depending on plaque morphology/symptomatic status and stent type; Musialek, et.al. Eurointerventions 2016;12 August 2016

CGuard™ EPS Is Our Solution for Carotid Artery Stenting (CAS)

Covered stent with the smallest pore size, permanently prevents the occurrence of plaque prolapse and thrombus facilitating natural endothelialization



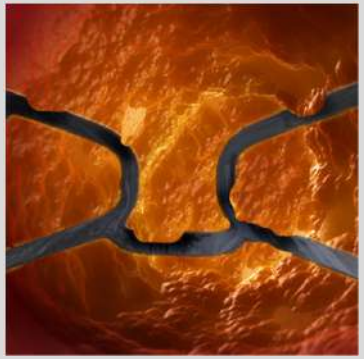
CGuard™ uses MicroNet™, an open cell, nitinol, polyethylene terephthalate (PET)-covered mesh which permanently prevents the occurrence of plaque prolapse and thrombus



- SmartFit™ self tapering technology for excellent adaption
- Accurate placement (no foreshortening)

OUR SOLUTION: Proprietary MicroNet™ Technology

New mesh covered stent that offers superior plaque coverage when compared to conventional stent approaches



Conventional Stent:

Bare or dual layer approach, with plaque protrusion risk

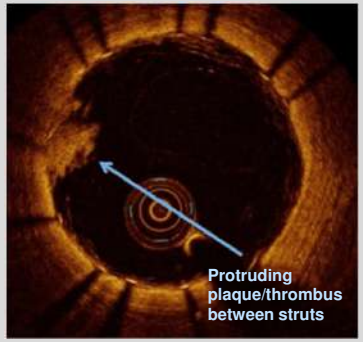
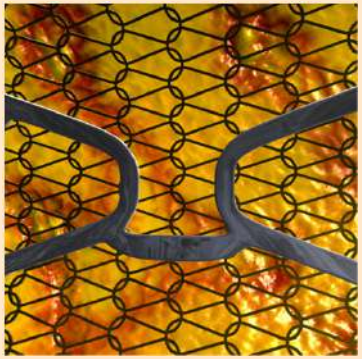


Image: Prof. Valdés Chávarri

Vs.



New Covered Stent:

Stents are covered in Micronet™

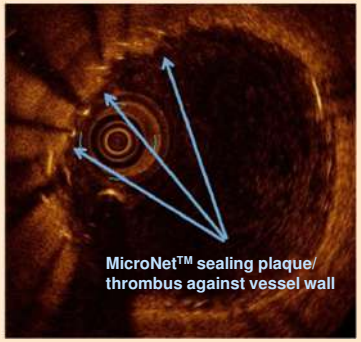


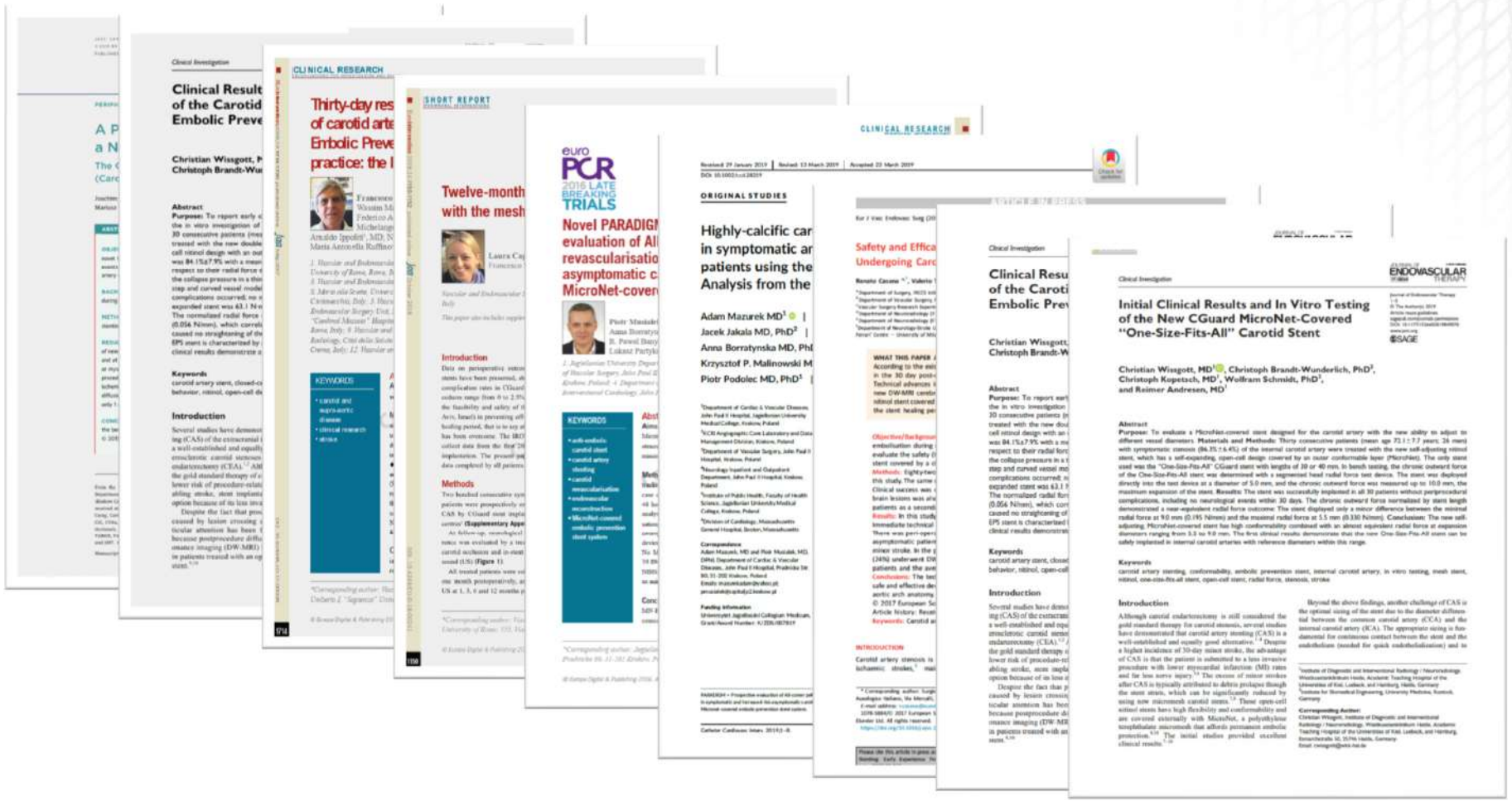
Image: Prof. Valdés Chávarri

MicroNet™: an Embolic Prevention System (EPS) for Ultimate Thrombus Protection

- **Ultrathin flexible mesh** sleeve, designed to expand seamlessly during stent deployment
- Net **captures and locks** thrombus and plaque materials against the arterial wall
- Prevents thrombus or plaque fragments dispersing, **avoids debris** entering the bloodstream
- Acts as a mechanical barrier to prevent **plaque protrusion**

Carotid Solution: Our Well Studied Mesh-Covered Technology

More than 1,600 patients in Clinical Publications and Studies



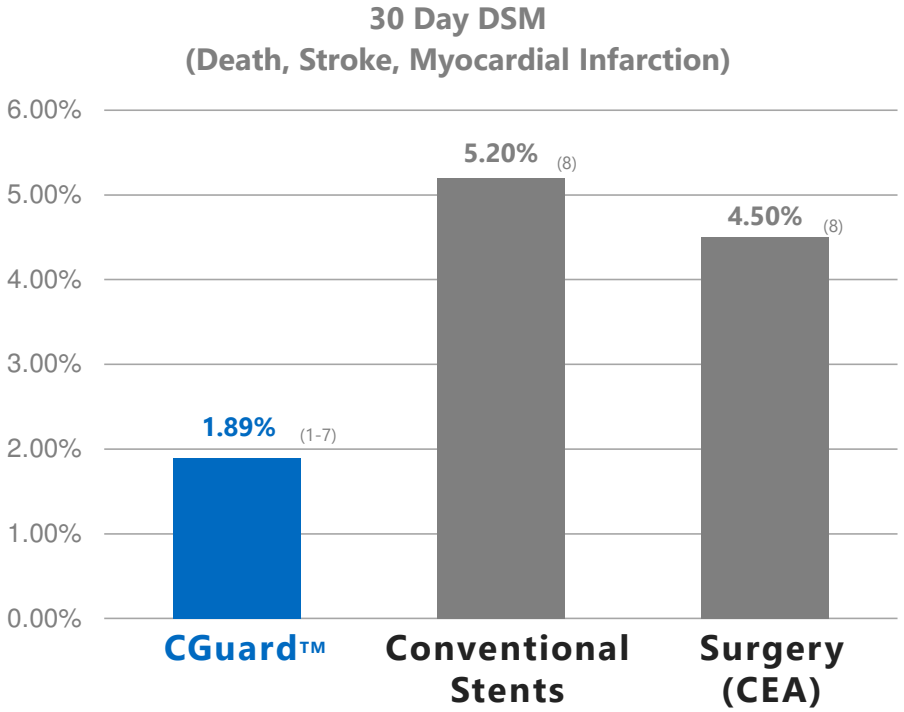
Timeline Growth: From Alternative Stent to New Gold Standard

YEAR	STUDY	PUBLICATION HIGHLIGHTS	CGUARD'S STANDING (known & anticipated)
2015	CARENET 30D	Safety, feasibility & neuroprotection; Neuroprotection over other stents data	☑ CGuard evaluated as new approach to CAS
2016	PARDIGM 101 30D	All commers population; Excellent clinical results	
2017	CASANA	Large surgical center; Excellent clinical results	
2017	WISSGOTT	Clinical & mechanical assessment; Mechanical advantages vs competitive stents	☑ CGuard demonstrates best performance in field
2017	IRON-GUARD 1	Real world multicentric 30d results; Excellent clinical results in multicentric	
2018	WISGOTT 10MM	"One size fit all"; Safety & feasibility of a size fit all approach	
2019	IRON-GUARD 1	Real world multicentric 1y results; Excellent long-term results in multicentric	
2020	IRON-GUARD 2 *	Large real world multicentric	☐ CGuard demonstrates superiority to other stents
2020	SIBERIA *	Randomized Trial; CGuard neuroprotection vs conventional stents	
2021	POLISH VASCULAR REGISTRY *	Large real world multicentric	
2022	OCTOPVS *	OCT comparison CGuard vs CEA; to demonstrate CGuard superior procedural results than CEA	
2022	PARADIGM EXTEND *	Large long-term study for all commers; CGuard study of long-term results	☐ CGuard demonstrates superiority to surgery
2022	OPTIMA *	IVUS assessment after CGuard; intended to demonstrate plaque exclusion	
2023	FLOW-GUARD *	Use of CGuard as flow diverter in very high-risk patients beyond carotids; Potential new CGuard indications	

* Expected

CGuard™ EPS Yields Superior Clinical Outcomes

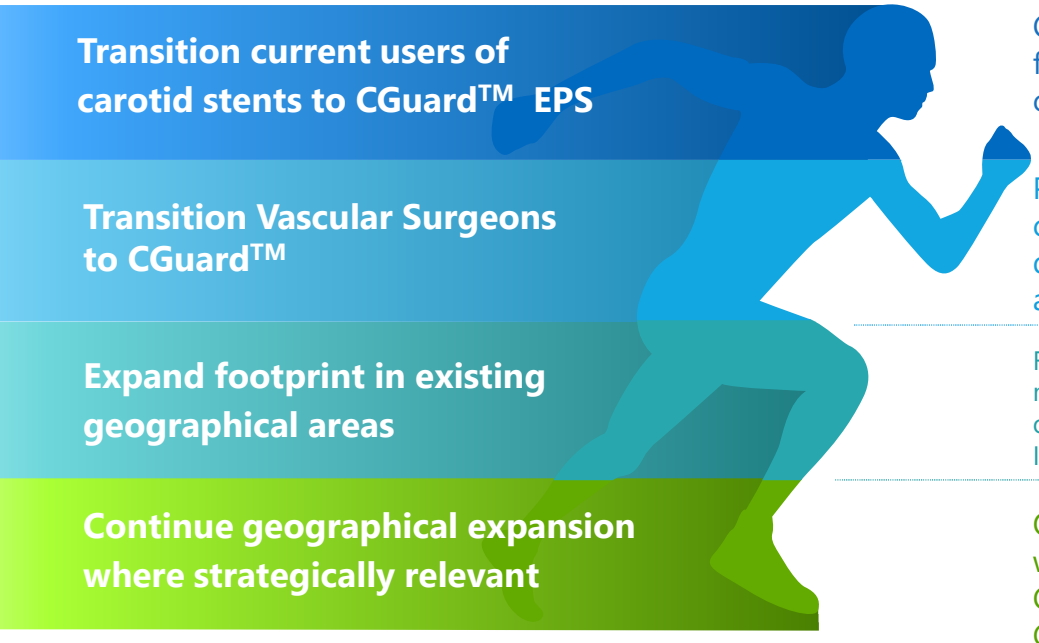
When compared with Conventional Stents and Surgery (CEA), CGuard™ trends Superior



- CGuard™ has a superior profile versus historical data on both conventional carotid stents and surgery
- CGuard™ is a next-generation stent supported by a strong and growing body of clinical data
- 7 completed clinical trials and 4 ongoing trials
- NO MAJOR STROKE with CGuard™ (Minor stroke in 17/1,507 pts in 7 studies (1.13%)

1. IRONGUARD I EuroIntervention 2018 Nov 20. 14:1150-1152.
2. IRONGUARD II, LINC 2020
3. CASANA Eur J Vasc Endovasc Surg 2017 Dec. 54:681-687.
4. WISSGOTT I J Endovasc Ther 2019 08. 26:578-582.
5. WISSGOTT II J Endovasc Ther 2017 02. 24:130-137.
6. PARADIGM Extend, EuroIntervention 2016 Aug 05. 12:e658-70. Updated LINC 2020
7. CARENET JACC Cardiovasc Interv 2015 Aug 17. 8:1229-1234.
8. CREST N Engl J of Med 2010 July 1. 11-23

Our Commercial Strategy



Transition current users of carotid stents to CGuard™ EPS	Continued commercial focus on CGuard™ EPS clinical data	Continue to support investigator initiated clinical studies	Continue to develop KOLs, broaden centers of excellence to multiple clinical disciplines
Transition Vascular Surgeons to CGuard™	Publish, present, and communicate data demonstrating CGuard™ as safe as CEA	Establish a presence at major vascular surgery meetings	Expand digital, social and other tools to more effectively communicate
Expand footprint in existing geographical areas	Focus resources on larger markets with highest opportunities (Germany, Italy, Spain, Poland)	Build on the clinical database & broaden support (clinical registries, etc)	Evaluating further market growth via direct sales in key regional markets
Continue geographical expansion where strategically relevant	Ongoing discussions with partners to bring CGuard™ to Japan and China	Obtain US IDE approval	

We Are Currently Active in Over 39 Markets (Dark Blue)

- Over 90% of sales are indirect through a range of distributors
- New markets under consideration / development include Japan, S Korea and China
- Discussions progressing with FDA regarding IDE; targeting initiation of US trial in 2021 (subject to FDA approval)

Our Lead Product, CGuard™ - Advancing Rapidly

31%

growth of CGuard™ portfolio in Q4 2019

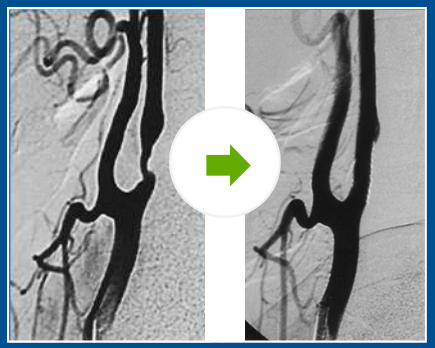
18,000

Total protected stents sold to date with excellent clinical results

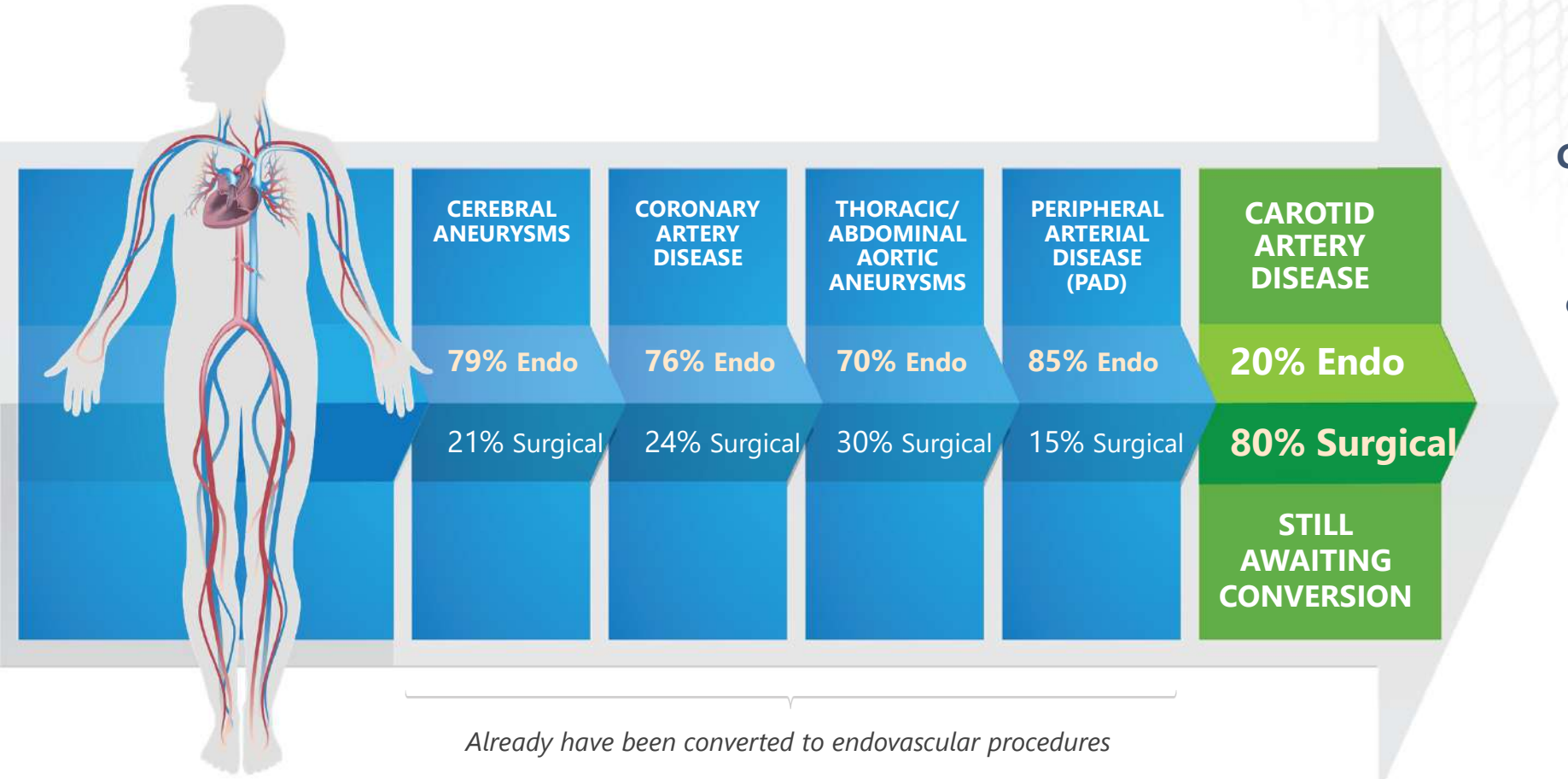
CGuard™ has potential to become the new standard-of-care for carotid indications

***Achieved clinical milestones; neuroprotective vs other carotid artery stenting (SERBIA)**

Pre- and Post-Procedure with CGuard™



Endovascular Procedures: Landscape and InspireMD Potential*



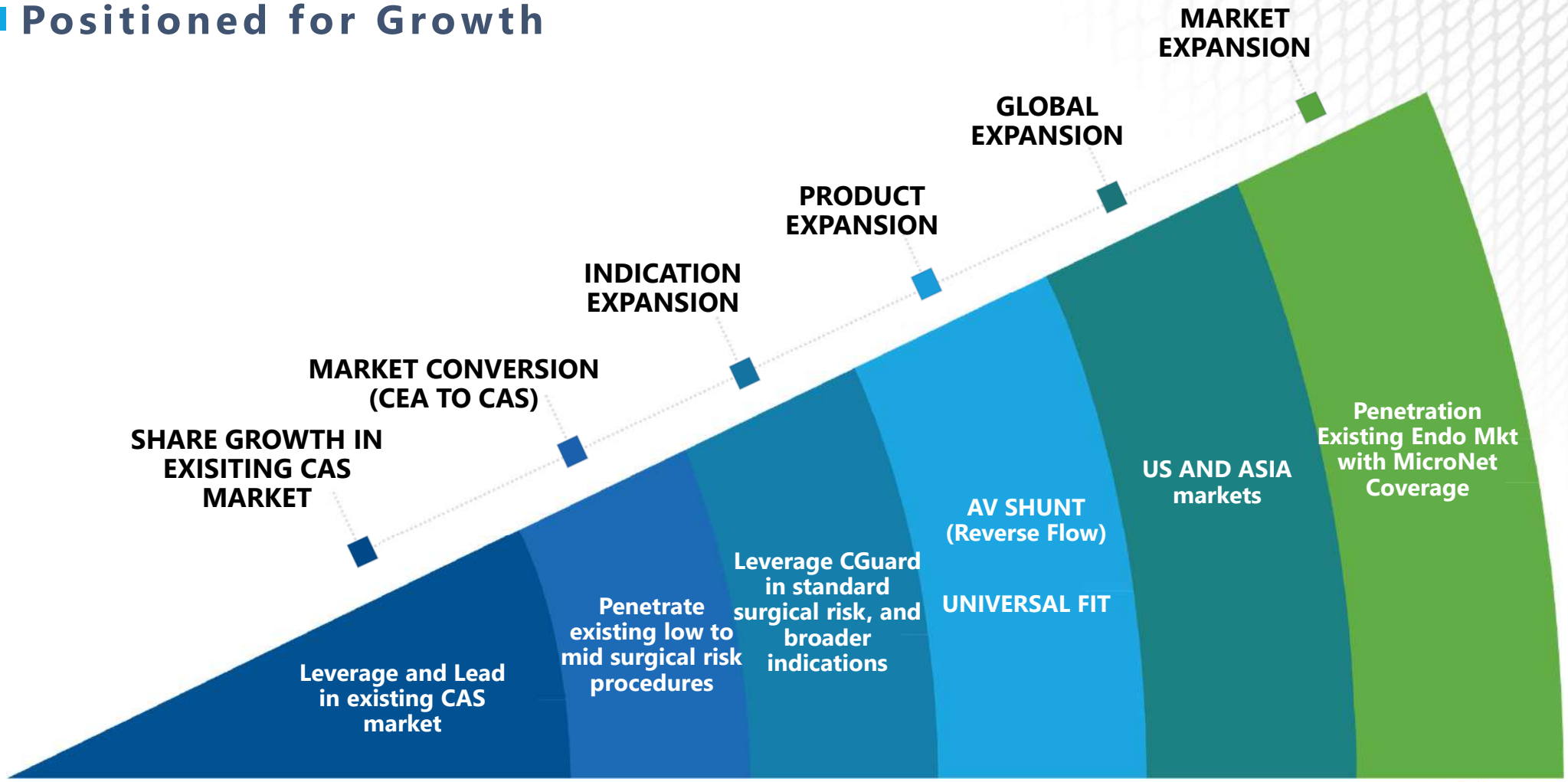
CAD market potential open to endo conversion WW:

614K

procedures in 2018 (estimated)*

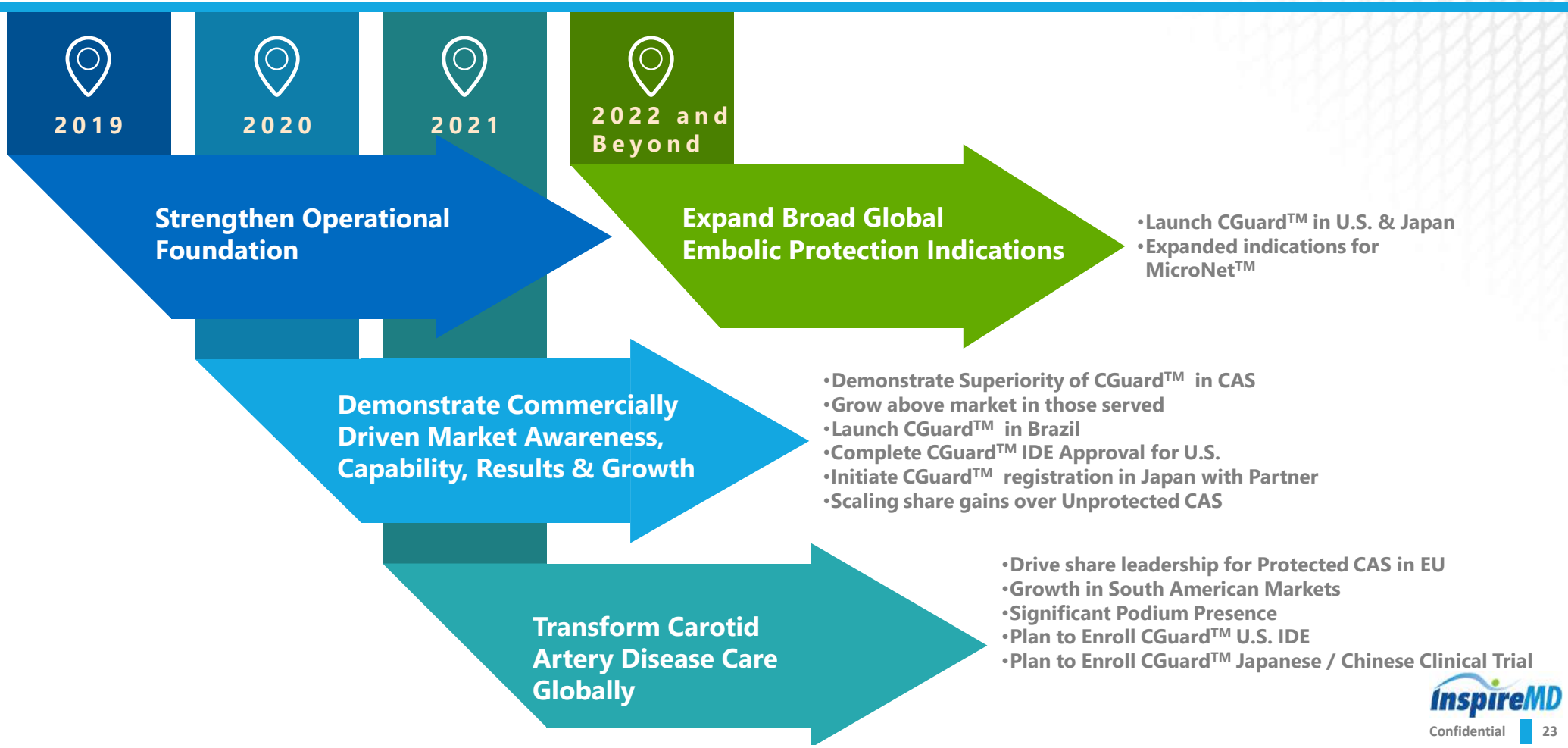
*Management Estimates

Positioned for Growth



Our Advancement Roadmap / Milestones

Key Value Drivers and Strategic Pathways



Our Robust Intellectual Property Portfolio

Proprietary platform technology supported by IP

Patent Rights	Issued	Allowed	Pending
USA	13	2	6
Rest of World	47	0	19

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

Our Business and Market Development

Strategic Targets for Merger or Acquisition

Our Leadership

Marvin L. Slosman President and CEO	Mr. Slosman has over 30 years of experience in the medical device industry with focused leadership in commercialization and international market development in both public and privately held companies. He has had senior management roles in a variety of public and privately held companies.
Craig Shore CFO	Mr. Shore has over 25 years of experience in financial management in the United States, Europe and Israel. He has served in various senior financial and general management roles at General Electric, Dunn and Bradstreet, Pfizer Pharmaceuticals and Bristol Myers Squibb.
Paul Stuka Chairman	Mr. Stuka was named to the Board of Directors in August of 2011 and serves as Chairman of the Board of Directors. Mr. Stuka is a Managing Member of Osiris Partners and a 30-year investment industry veteran.
Michael Berman Director	Mr. Berman is a successful entrepreneur within the medical device industry. He joined Scimed in 1986, leading its marketing activities until its merger with Boston Scientific in 1995. From 1995-2000, he served as President of Boston Scientific/Scimed.
Campbell Rogers, M.D. Director	Dr. Rogers currently serves as the CMO of HeartFlow, Inc., a private cardiovascular diagnostics company based in California.
Thomas Kester Director	Mr. Kester is CFO of Kester Search Group, Inc., a private executive search firm specializing in sales force placement for medical, dental and diagnostic device companies. He spent 28 years at KPMG LLP.

Thank You

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scottg@coreir.com

NYSE AMERICAN
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