

INVESTOR PRESENTATION

NOVEMBER 2021

Disclaimer

FORWARD-LOOKING STATEMENTS – This presentation includes statements relating to Shockwave's expectations, projections, beliefs, and prospects (including statements regarding Shockwave's product development outlook), which are "forward-looking statements" within the meaning of the federal securities laws and by their nature are uncertain. The words "anticipate," "believe," "continue," "estimate," "intend," "may," "will" and similar expressions or the negative of these words are intended to identify forward-looking statements. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs.

All statements contained in this presentation, other than statements of historical facts, are forward-looking statements. Forward-looking statements include discussions regarding our business strategy and plans, our objectives for future operations and financial performance, our capital requirements, future growth of the company, our ability to commercialize our products, expectations regarding product design, development and manufacturing, progress of clinical trials regarding our products, our ability to obtain and maintain regulatory approvals or clearances for our products, the development of competing products by our competitors, our ability to protect our intellectual property and not infringe the intellectual property rights of others, and other matters.

These forward-looking statements are subject to a number of risks and uncertainties, particularly in light of the current COVID-19 pandemic. Such risks include, but are not limited to, those discussed in our filings with the Securities and Exchange Commission, including those contained in Part I, Item IA, "*Risk Factors*" of our most recent Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q, which we have filed with the Securities and Exchange Commission.

The future events and trends discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance, achievements or events and circumstances reflected in the forward-looking statements will occur. You are cautioned not to place undue reliance on any forward-looking statements. Except to the extent required by law, we do not undertake to update any of these forward-looking statements after the date of this presentation to conform these statements to actual results or revised expectations.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. Such data and estimates involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such data or estimates. Neither we nor any other person makes any representation as to the accuracy or completeness of such estimates or data or undertakes any obligation to update such estimates or data after the date of this presentation. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

IVL CATHETERS – Shockwave's IVL catheters may only be utilized by, or under the direction of, a qualified physician who is familiar with interventional vascular procedures and who has been trained prior to use of the device, including use of the generator. Additional information regarding Shockwave's products may be found at <u>www.shockwavemedical.com</u>, including Instructions for Use and information on indications, contraindications, warnings, precautions and adverse events. Shockwave's IVL catheters are commercially available in the U.S. and in certain countries outside the U.S. Please contact Shockwave for specific country availability at <u>https://shockwavemedical.com/contact/</u>.



Shockwave Mission and Differentiation

- Seeking to *transform the treatment* of calcified cardiovascular disease.
- Seeking to establish a *new standard of care through intravascular lithotripsy* (IVL).
- **Differentiated and proprietary** local delivery of sonic pressure waves for the treatment of calcified plaque.





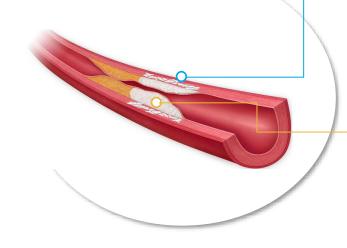
¹ Refer to slide 10 for TAM details.

Goal of Vascular Intervention:

Restore Vessel Size and Blood Flow

Atherosclerosis

- Disease of aging in which arteries become narrowed ("stenotic") by the progressive growth of plaque.
- Calcium in atherosclerotic plaque can prevent therapies from opening the stenotic artery.
- Calcified Arteries Resist Expansion Resulting in More Complications and Vessel Damage

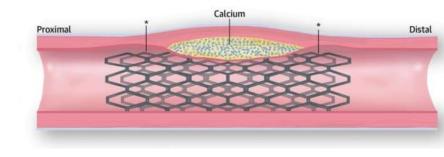


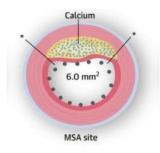
• Medial ("Deep") Calcium

Calcification in middle layer (associated with stiffening)

○Intimal ("Superficial") Calcium

Calcification close to the inner surface of the artery (associated with obstruction and embolization)





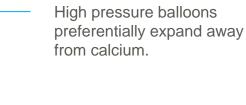


* Stent struts

Risks Posed by Current Technologies

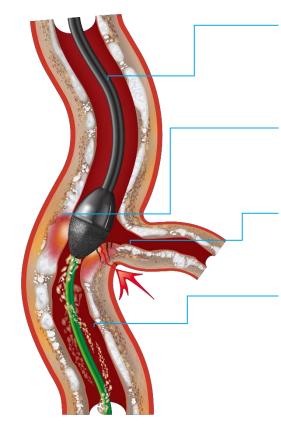
High Pressure Balloons & Atherectomy Can Result in Serious Complications

High Pressure Balloons



This predisposes to major dissection and perforation often at the interface between calcium and healthy tissue.

As a result, balloons are typically unable to effectively modify calcium.



Atherectomy

Atherectomy has a steep learning curve compared to balloon-based therapies.

It causes thermal injury that leads to increased risk of clotting.

There is also a potential for large dissection and perforation.

The calcium ablated from the wall can travel downstream and block the artery.



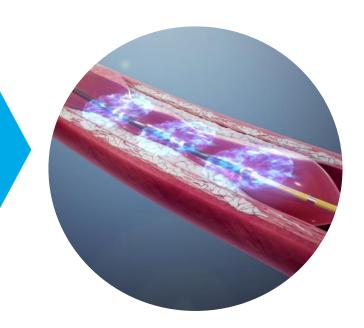
Lithotripsy Has a History of Safely Cracking Calcium

Lithotripsy

- Method has 30 years of success for safe elimination of kidney stones.
- Sonic pressure waves preferentially crack calcium without harming soft tissue.

Shockwave's Cardiovascular Lithotripsy

- Miniaturized, localized treatment.
- Sound waves pass through soft tissue to crack calcium
- Vessel expands under low pressure.





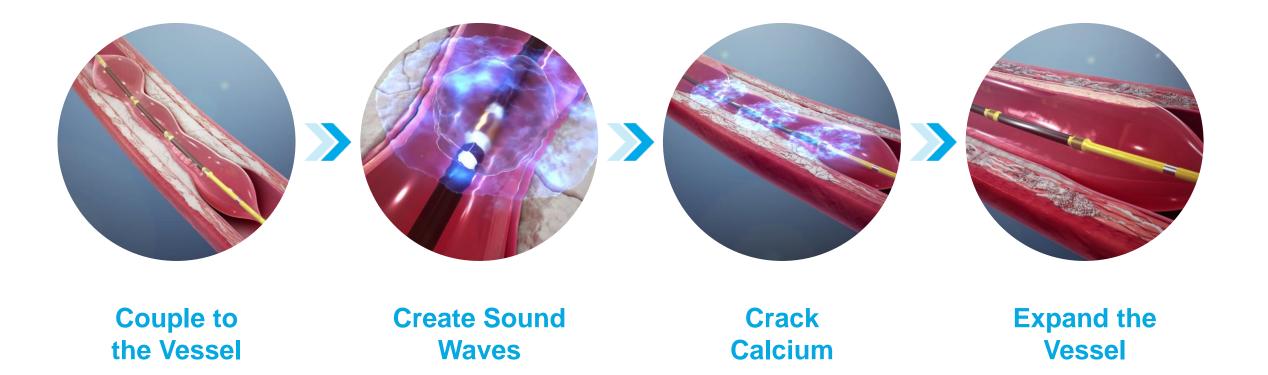
Our Solution: Intravascular Lithotripsy





IVL is Uniquely Able to Address Superficial and Deep Calcium

Standard Interventional Techniques Encourage Adoption





8 Investor Presentation November 2021





Treating most complex calcified anatomies while minimizing complications



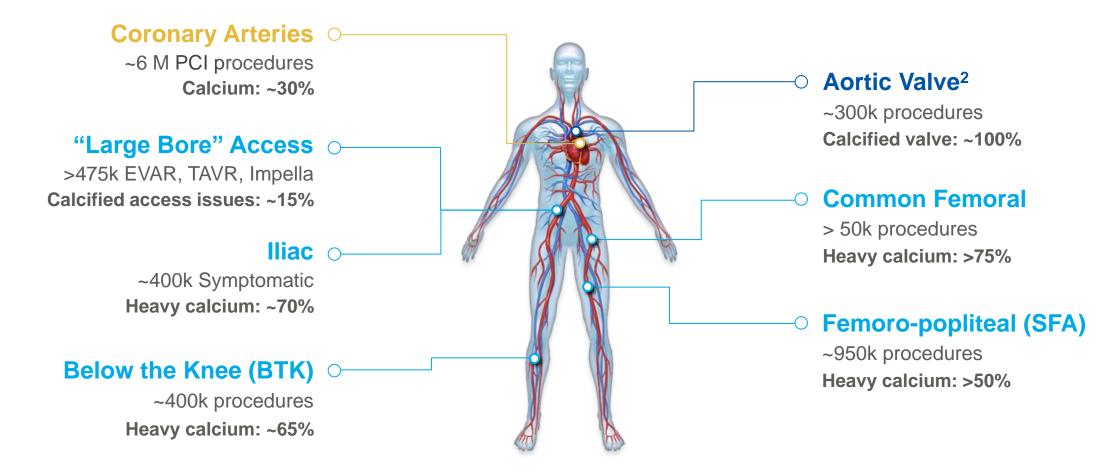
Integrates easily into procedure flow with short learning curve

> EFFECTIVE «

Unique mechanism of action that cracks both medial and intimal calcium



Targeted Segments Have a TAM of >\$8.5 Billion¹



¹ Based on 2022 estimates. Annual procedures in the United States and international markets where IVL is sold (see slide 19) or is in process of being approved for sale (China, Japan), according to DRG and Company estimates; Proportion of annual procedures associated with calcified disease, according to Yost, M. L., Prevalence and Significance of Calcium, Vulnerable Plaque and Plaque Morphology in Peripheral Artery Disease (PAD). Beaufort, SC: THE SAGE GROUP; 2016 (for femoropopliteal, BTK, TAVR and common femoral) and Company estimates based on multiple occlusive disease studies (for iliac and EVAR / TEVAR). Aortic Valve annual procedures in 2025 according to the Journal of Thoracic Disease,2017;9(6):1432 1436. ² Clinical development stage



Shockwave TAM: What Has Changed

Growth Drivers

SHOCKWAVE

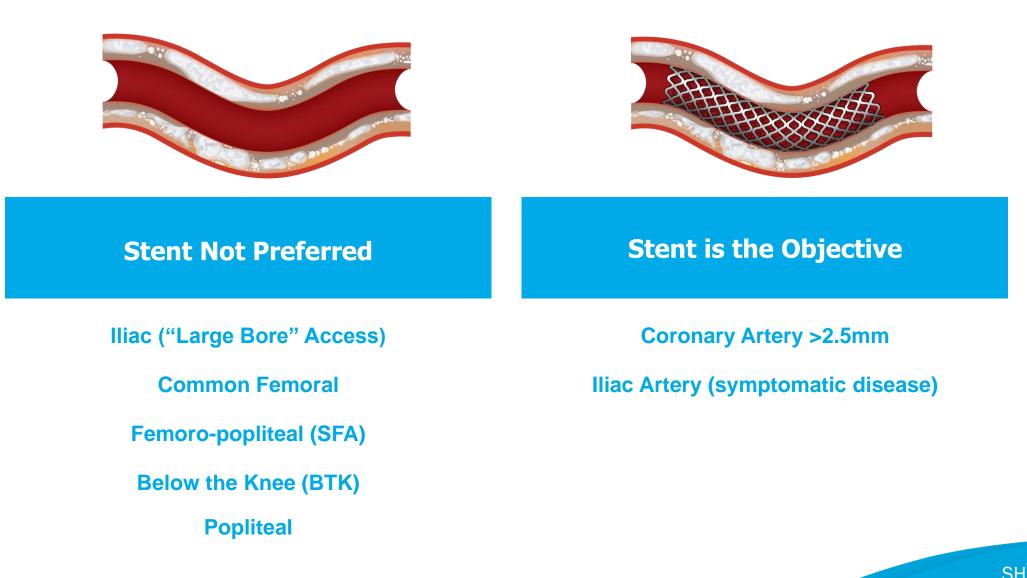
	2019 TAM ¹	2022E TAM ²	Existing Markets ²	New Markets	
Femoropopliteal (SFA)	700k procedures	950k procedures	Population growthImproved visibility	 Rest of Europe Rest of APAC Canada / LA 	
Large Bore	275k procedures	475k procedures	Population growthTAVR growth	 Rest of Europe Rest of APAC LA 	
Below the Knee	300k procedures	400k procedures	 Population growth Improved visibility Market development 	 Rest of Europe Rest of APAC Canada / LA 	
Coronary	3.5 million procedures	6 million procedures	Population growthMarket growthChina	 Rest of Europe Middle East / SA LA 	

¹ Based on 2019 estimates, according to DRG market reports and Company estimates. Annual procedures in the United States and international markets where IVL was sold in 2019; Proportion of annual procedures associated with calcified disease, according to Yost, M. L., Prevalence and Significance of Calcium, Vulnerable Plaque and Plaque Morphology in Peripheral Artery Disease (PAD). Beaufort, SC: THE SAGE GROUP; 2016 (for femoropopliteal, BTK, TAVR and common femoral) and Company estimates based on multiple occlusive disease studies (for iliac and EVAR / TEVAR). Aortic Valve annual procedures in 2025 according to the Journal of Thoracic Disease, 2017;9(6):1432 1436. ² See slide 11 for market size and growth sources and calcification sources. Additional growth drivers from Company estimates and experience

11

To Stent or Not to Stent

Physicians Have Distinct Preferences Depending on the Vessel



IVL has Potential to Grow Markets and Take Market Share

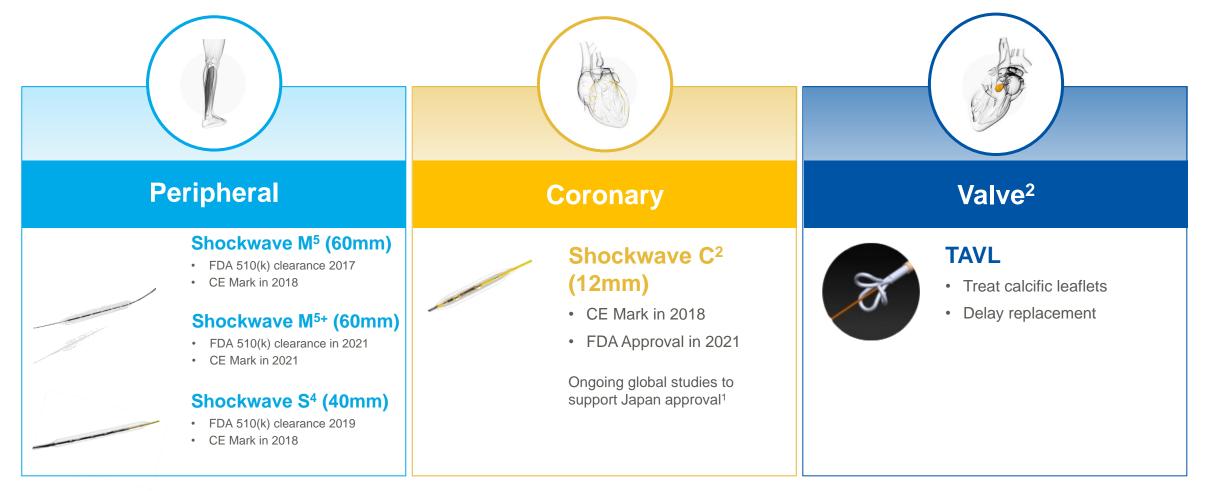
	Market Growth	Potential Shockwave Market Share Gain
Peripheral Artery Disease (PAD)	 Iliac Common Femoral "Large Bore" Access Below-the-Knee 	 Femoropopliteal (SFA) Below-the-Knee
Coronary Artery Disease (CAD)	 Left Main Ostial Lesions "High-Risk PCI 	All cross-able lesions
Aortic Stenosis (AS) ¹	 Very Old/Frail Contraindicated for TAVR Co-Morbidities Young Patients 	TAVR Procedures

¹ Clinical development stage



IVL's Platform Technology

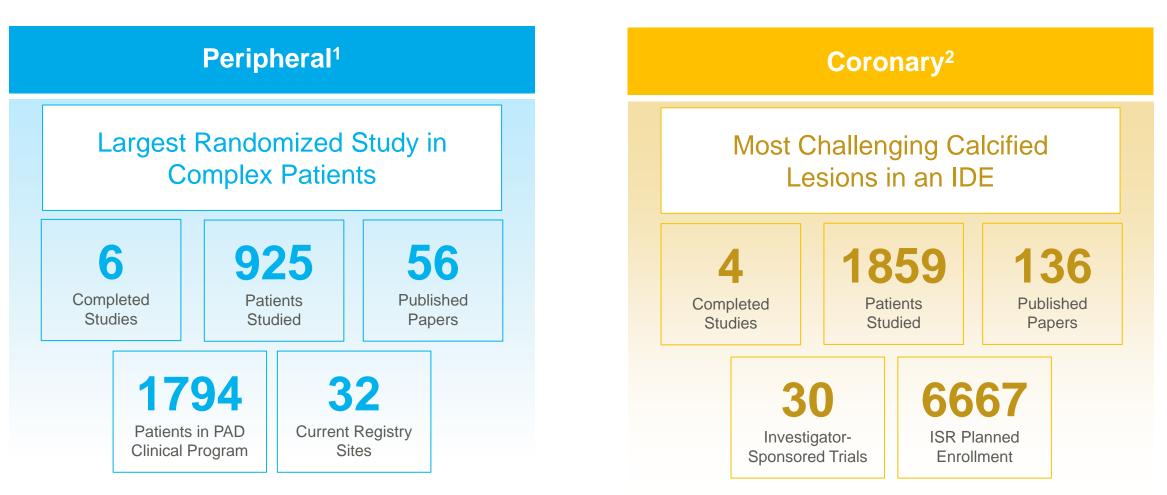
Multi-Year Pipeline of Vascular & Structural Heart Products



¹ Enrollment completed in Q2 2020 for CAD IV ² Clinical development stage



Shockwave's Unparalleled Clinical Program



¹ Disrupt PAD I, II, PAD III RCT, PAD III OS (200 IA and Iliac), BTK Studies Data on file at company. Data as of July 13, 2021 ² Disrupt CAD I - IV Studies. Data as of July 13, 2021

15

SHOCKWAVE MEDICAL INC

Key Advantage of Shockwave IVL: Safety

Demonstrated Safety Profile of IVL Delivered Via a Low-Pressure Balloon

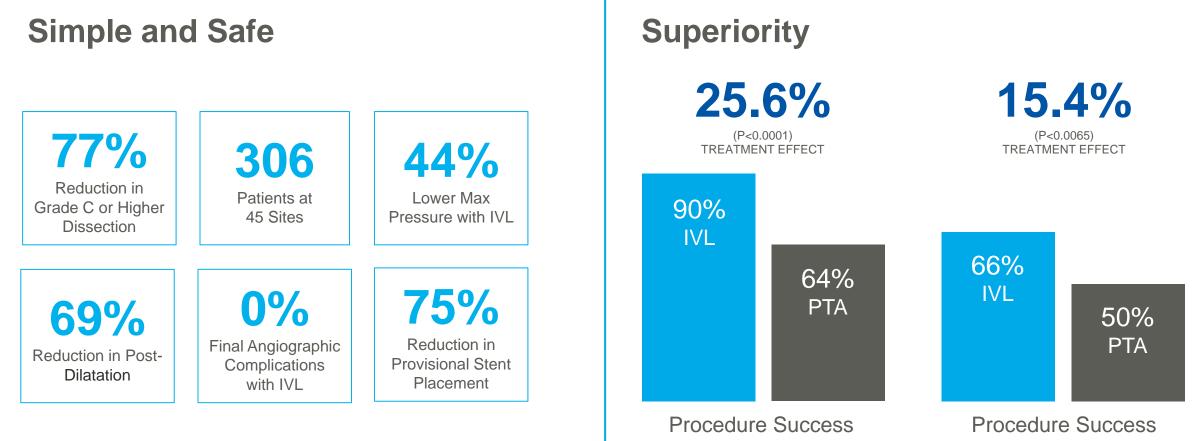
Peripheral ¹		Coronary ²	
468 Number of patients		628	Number of patients
78% Severe Calcium		97%	Severe Calcium
YES Core Lab		YES	Core Lab
0.2% Perforation ³		0.2%	Perforation ⁴
0% Embolization		0.2%	Abrupt Closure
0% Abrupt Closure / Slow Flow		0.2%	Cardiac Death (in hospital)
		0.6%	Q-wave MI (in hospital)
¹ Disrupt PAD I, II, PAD III RCT, PAD III OS (200IA), BTK Studies. ² Pooled Disrupt CAD I-IV.		5.7%	Non-Q-wave MI (in hospital)



³ Perforation post-DCB, not IVL-related ⁴ Perforation post-stent, not IVL-related

Disrupt PAD III Results

Largest-Ever Randomized Study of Calcified Lesions



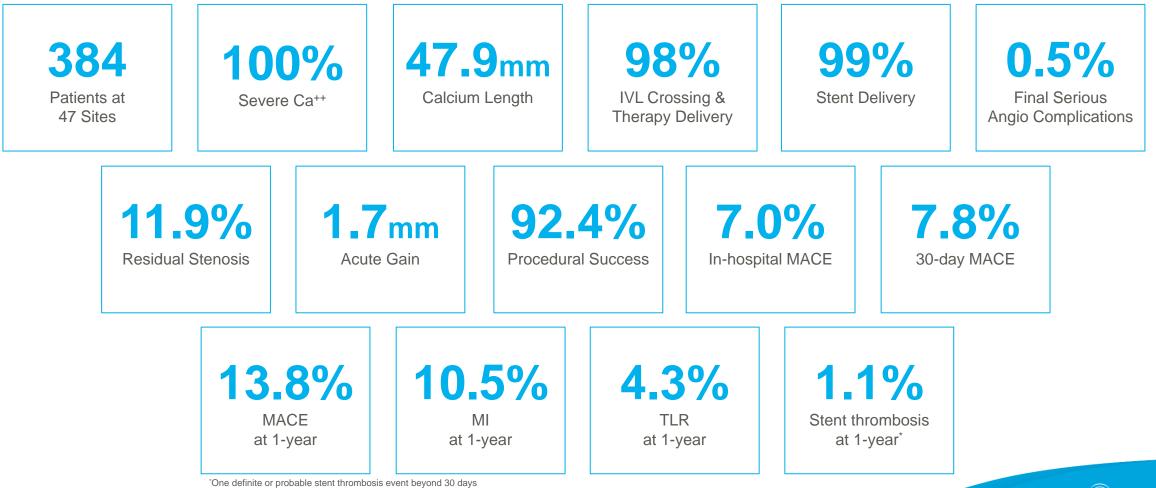
- SITE REPORTED -

- CORE LAB -



CAD III By the Numbers

Showcases Safety, Effectiveness & Ease of Use of Coronary IVL





U.S. Coronary Launch Strategy

Rigorous Sales Training to Ensure Effective Management of Both the Coronary & Peripheral Businesses

Targeted Account Segmentation	Systematic Account Launch	Pricing Strategy
Prioritized targeting based on specific criterion	Ensure optimal outcomes with IVL and ongoing independence from reps	Optimize long-term reimbursement ¹
PCI volumesComplex PCI operators	Account commitment for 1-2 week install and purchase of an initial "starter kit"	Price is predicated on a novel, differentiated product
 IVL experience VAC process & timing 	In-service focused on performing cases and cross-training entire staff	Hospital Outpatient Reimbursement: Transitional Pass Through (TPT) payment effective July 1, 2021
Vito process & timing	Territory manager and clinical specialist follow-up visits to reinforce best practices	Hospital Inpatient Reimbursement: New Technology Add On Payment (NTAP) effective October 1, 2021
	TM and CS partner to manage coronary launch while growing peripheral utilization	



Commercialization Strategy

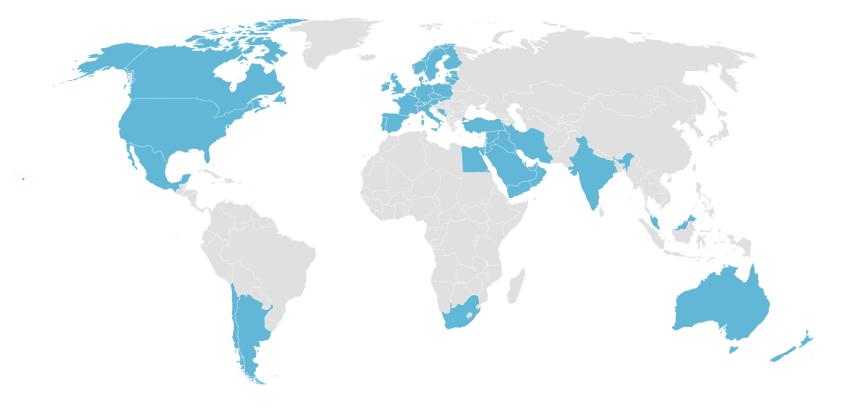
Two Paths for Growth: Procedure Share and Expansion into New Indications

United States

- Mix of direct sales reps and clinical specialists
- Low service burden enables
 cost efficient sales model

International

- Commercial sales in 58 countries¹
- Direct sales in Germany, Austria France, UK and Switzerland.
- Distributors cover other European countries as well as Africa, ANZ, Asia, Canada, South America and the Middle East



>200 sales and marketing professionals worldwide¹



• ¹ As of September 30, 2021

Significant Progress on U.S. Reimbursement Pathway for IVL

= Progress toward near-term objective

Coding and Payment for Inpatient and Outpatient Peripheral and Coronary IVL Procedures

	Hospital Inpatient	Hospital Outpatient	Physician
Coronary	 Coding: ICD-10-PCS Payment: NTAP Effective: 1 Oct 2021 	 Coding: HCPCS Payment: TPT Effective: 1 Jul 2021 	 Coding: CPT Cat III Payment: Negotiated Effective: 1 Jul 2022
Peripheral	 Coding: ICD-10-PCS Payment: DRG Effective: 1 Oct 2020 	 Coding: HCPCS Payment: APC Effective: 1 Jul 2020; updated 1 Jan 2021 	 Coding: TBD Payment: TBD Effective: TBD

= Pending

= Near-term objective complete

Recent Reimbursement Progress for IVL

Additional Payment Now Available for Majority of Peripheral & Coronary IVL Applications

Peripheral IVL	 CMS increased hospital outpatient payment for peripheral IVL (pIVL) procedures performed above the knee (ATK) For pIVL used stand alone or for lesion prep prior to definitive therapies such as DCB and/or stents. Adds \$5,000 – 6,000 per pIVL ATK procedure in the hospital outpatient setting ¹ Payment increase of up to 2x per pIVL procedure for Ambulatory Surgical Centers (ASCs) New payment rates will become effective January 1, 2022
Coronary IVL	 Additional hospital payment for coronary IVL (cIVL) procedures recently granted Transitional Pass-Through Payment (TPT) for cIVL performed in the hospital <u>outpatient setting</u> New Technology Add-On Payment (NTAP) for cIVL performed in the hospital <u>inpatient setting</u> Goal of the TPT program is to cover the entire cost of cIVL device(s) utilized during a procedure The NTAP program is designed to cover the majority of any costs in excess of the hospital's DRG payment.²

¹ See slide 23 for details

22

² CMS-1752-F calculates the maximum NTAP payment of \$3666 for coronary IVL.

SWAV Investor Presentation | November 2021



Reimbursement for Peripheral IVL Above the Knee

IVL Now at Parity with Alternative Vessel Prep Strategies in Hospital Outpatient Procedures

Coding & Payment		Definitive Therapy		
ATK	Outpatient Procedures	DCB	Stent	
	ΡΤΑ	\$5,062	\$10,258	
	+/- Cutting/Scoring Balloon	HCPCS Codes: 37220, 37224 APC: 5192	HCPCS Code: 37220, 37224 APC: 5192	
Vessel Preparation	Atherectomy	\$10,258	\$16,402	
Ves ⁷ repai		HCPCS Codes: 37225 APC: 5193	HCPCS Code: 37227 APC: 5194	
	IVL	\$10,258	\$16,402	
		HCPCS Codes: C9764 APC: 5193	HCPCS Code: C9765 APC: 5194	

PAD = Peripheral Artery Disease.; PTA = Percutaneous Balloon Angioplasty; DCB = Drug Coated Balloon Above the Knee refers to iliac and fempop arterial territories.

Operational Excellence

- Headquarters located in Santa Clara, CA
- Subsidiaries in Germany, U.K., France and Japan
- Third party logistics provider based in the Netherlands
- 589 employees¹

•

•

•

•

•

0

- Lean manufacturing expected to drive margin expansion
- Contract manufacturer enhances capacity and efficiencies
- Approximately 145 manufacturing employees¹
- Specialized sales force fosters deep relationships
- Marketed products in 58 countries and growing¹
- Robust IP portfolio of 123 issued and 44 pending patents¹

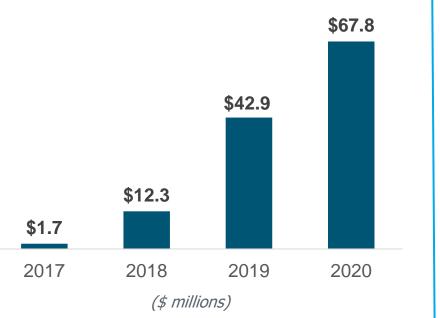


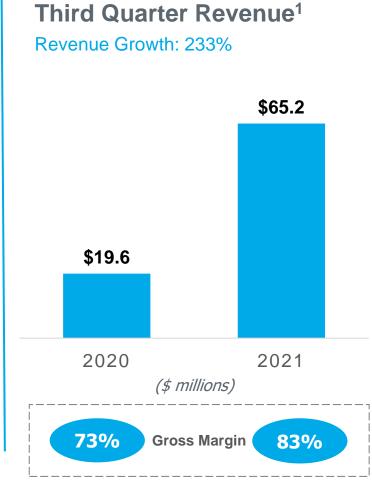


¹ As of September 30, 2021

Strong Financial Profile

Annual Revenue Revenue CAGR: 242%





Q3 2021 Performance¹

Revenue growth of 233% year over year

- U.S. revenue grew by 374% to \$52.8MM
- International revenue grew by 47% to \$12.4MM

Positive net income

 Continued improvements in gross margin and operating efficiencies

Balance Sheet (as of September 30,2021)

- Cash, cash equiv. and short-term investments: \$183 MM
- Debt outstanding: \$17 MM



¹ unaudited financial results

Growth Drivers



Clinical Evidence

- Advance IVL as standard of care for calcified arteries across vessel beds
- Expand indications
- Improve patient access through continued progress with global reimbursement



Commercial Capabilities

- Optimize direct and distributor field sales organizations
- Grow across indications and geographies through ongoing market expansion and partnerships
- Increase customer awareness of IVL indications and use



Business Expansion

- New products
- Increase interventional procedures by addressing unmet clinical needs
- Partnerships for mutually beneficial outcomes
- Scale efficiencies



Investment Highlights

>> ADDRESSES LARGE UNMET CLINICAL NEEDS

- Advancing proprietary IVL System for multiple large addressable markets totaling \$8.5B+
- Cardiovascular Ca+ becoming increasingly prevalent globally with increase in diabetes and aging population

>> DIFFERENTIATED PLATFORM

- Unique mechanism of action that cracks both medial and intimal calcium
- Safest, most predictable technology for treating the most challenging calcified anatomies

>> STRONG PIPELINE

- Ongoing clinical programs to expand geographies and indications and build a robust body of clinical evidence
- Platform IVL Technology leverageable for new products to satisfy additional significant unmet clinical needs



We Crack Calcium

