

### **Corporate Overview**

May 2019

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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



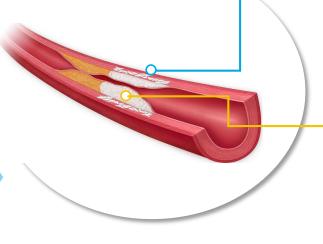


### Goal of Vascular Intervention: Restore Vessel Size and Blood Flow

#### 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.



Calcium

#### 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

Calcified Arteries Resist Expansion Resulting in More Complications and Vessel Damage

Proxima



# Common Risks with Traditional Methods to Treat Calcified Atherosclerosis



#### Risks

- Dissection
- Perforation
- Restenosis (from tissue damage)

#### Risks

- Embolism
- Dissection
- Perforation
- Restenosis (from tissue damage)

#### **Risks**

- Dissection
- Perforation
- Restenosis (from tissue damage)

#### There is a Need for Devices to Safely and Easily Prepare Calcified Arteries



### Lithotripsy Has a History of Safely Cracking Calcium

#### Lithotripsy

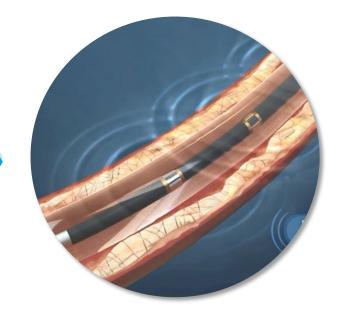
Method has 30 years of success for safe elimination of kidney stones

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





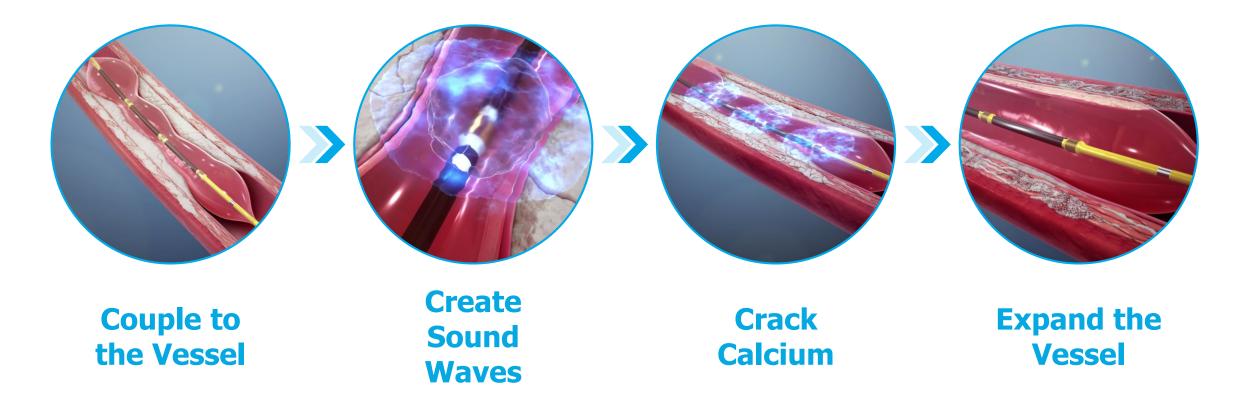
### Our Solution: Intravascular Lithotripsy



- Miniaturized local treatment
- Expands vessel under low pressure
- Treats both superficial and deep calcium
- Improves safety; no harm to soft tissue
- Improves stent expansion
- Easily integrates into interventional practice
- Expands access to interventional techniques
- Meaningful cost-saving potential



### IVL is Uniquely Able to Address Superficial and Deep Calcium Low pressure inflation reduces dissection risk



Standard Interventional Techniques Encourage Adoption

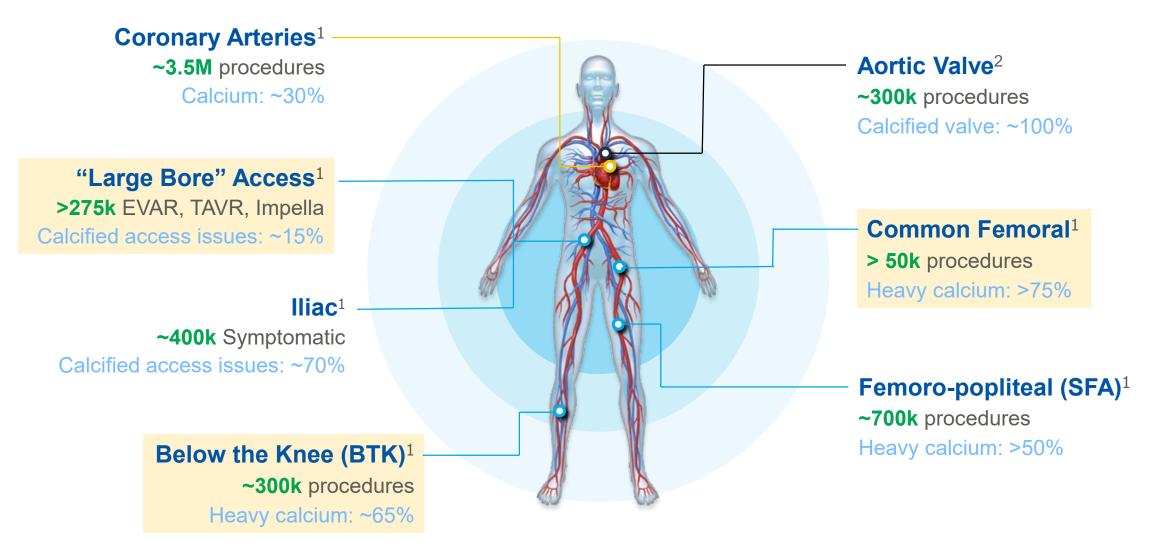


### Why Shockwave

| Safe      | Treating most complex calcified anatomies with virtually no complications |
|-----------|---|
| Simple    | Every interventional operator can use IVL (OR: No learning curve)         |
| Effective | Unique mechanism of action that cracks both medial and intimal calcium    |



### Targeted Segments Have a TAM of >\$6 Billion



1. Annual procedures in the United States and internationally (nine European countries, five Asian countries), 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).2 Annual procedures in 2025 according to the Journal of Thoracic Disease,2017;9(6):1432-1436

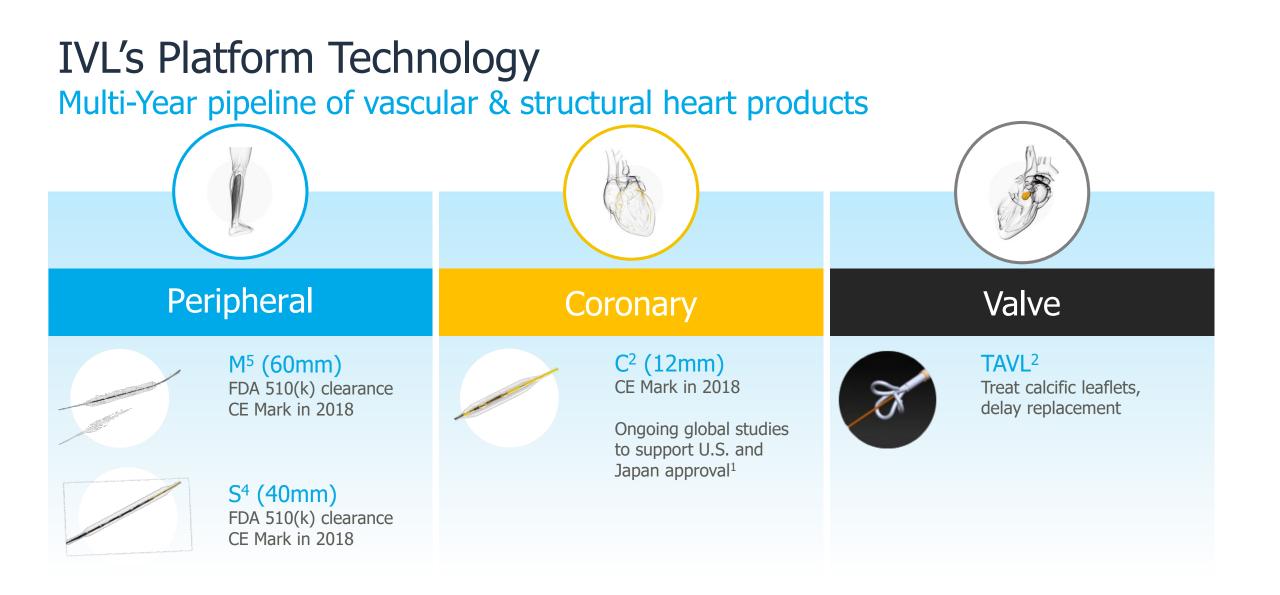


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### IVL Can Grow Markets and Take Share

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







### Shockwave Clinical Study Highlights

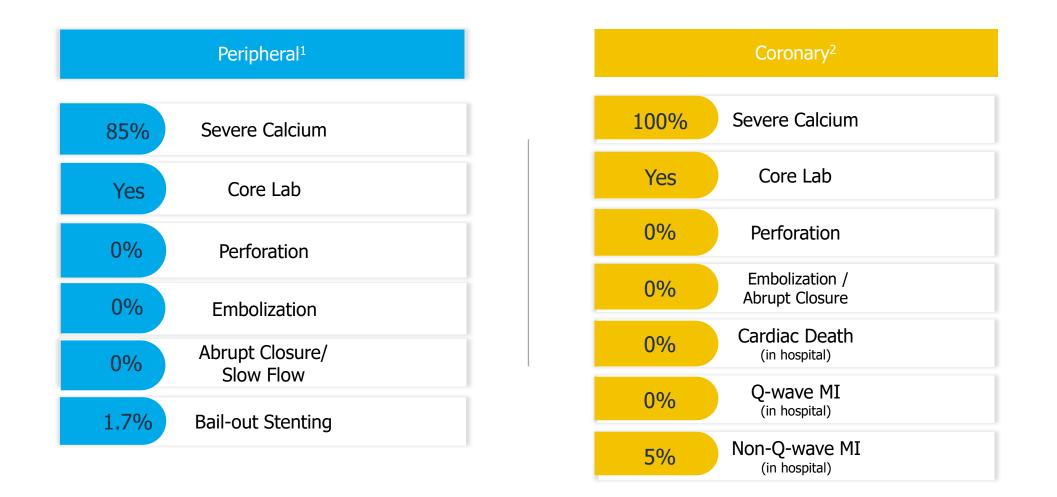


SHOCKWAVE

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### Key Advantage of Shockwave IVL: Safety

IVL Delivered Via a Low-Pressure Balloon Provides Exceptional Safety

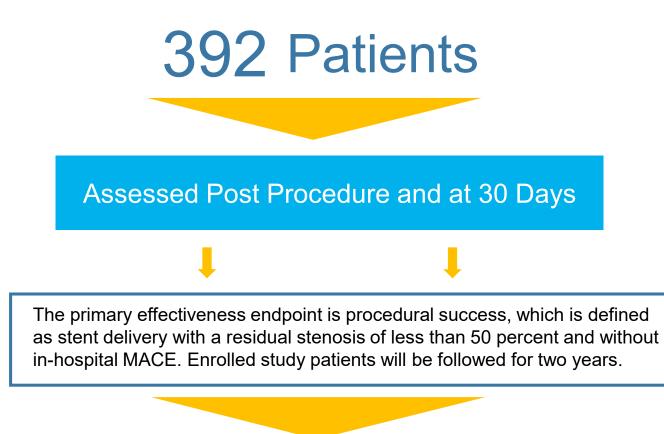




1. Disrupt PAD II Study, data on file at company 2. Disrupt CAD I Study, data on file at company

### Disrupt CAD III Trial – Enrollment Initiated

Multicenter, prospective, non- randomized trial (50 clinical sites in U.S. and Europe)



FDA Approval of C<sup>2</sup>



### **Commercialization Strategy**

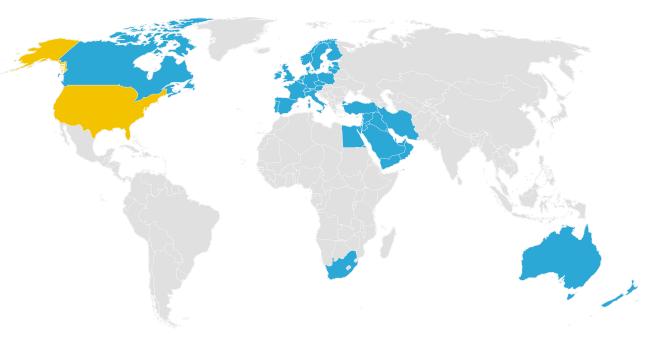
Two paths for growth: procedure share and expansion into new indications

#### **United States**

**58** professionals on sales & marketing team<sup>1</sup>

Mix of direct sales reps and clinical specialists

Low service burden enables cost efficient sales model



#### International

Direct sales Germany, Austria, Switzerland

Distributors in Australia, the Baltics, Canada, Czech Republic, France, Italy, Netherlands, New Zealand, the Nordic region, Poland, Spain, Middle East, Hong Kong, South Africa and the UK

#### Similar Call Points for Vascular IVL Catheters Allowing Further Leverage of Field Sales Team



### Multiple Catalysts for Growth

|                       | Near Term Catalysts<br>(1H 2019)   | Medium Term Catalyst<br>(2H 2019)     | ts Long Term Catalysts<br>(2020 – 2021)  |
|-----------------------|--|---------------------------------------|--|
| ATK (M⁵)              | <ul> <li>ABMD collaboration</li> <li>U.S. launch</li> <li>Multiple publications</li> </ul> |                                       | PAD III clinical data (2020)   |
| BTK (S <sup>4</sup> ) |  | ► Launch new S <sup>4</sup> catheters |  |
| CAD (C <sup>2</sup> ) | <ul><li>Initiation of CAD III</li><li>CAD I publication</li></ul>                          | <ul> <li>Global expansion</li> </ul>  | <ul> <li>CAD III data (2H 2020)</li> <li>U.S. launch (1H 2021)</li> <li>Japan launch (mid 2021)</li> </ul> |
| Aortic<br>Stenosis    | <ul> <li>Initiate FIM3 study in Austra</li> </ul>  | llia                                  | <ul> <li>6-month (Q1 '20) data from FIM3</li> <li>1-yr (Q4 '20) data from FIM3</li> </ul>                  |

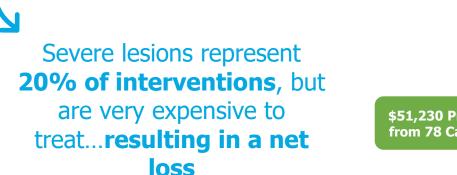


### **IVL Drives Economic Value for Hospitals**

Reduced time required by physicians to understand and adopt our system

Reduced need for complex, risky and expensive procedures for additional devices and potential complications

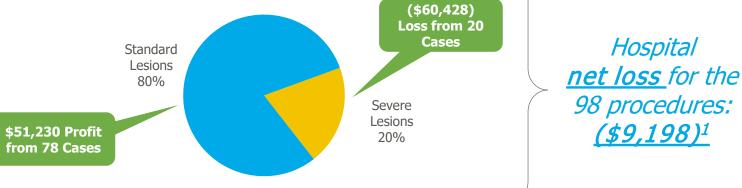
Reduced costs associated with complications that lead to high supply costs and lower profitability



Time Savings

**Procedure Savings** 

**Hospital Savings** 



Dartmouth-Hitchcock, "Lesion complexity drives the cost of superficial femoral artery endovascular interventions," J Vasc Surg. 2015 October; 62(4): 998–1002. 10.10.16/j.jvs.2015.04.450 and VIVA 2017 Presentation by Richard Powell "How Does Tracking Quality, Training, Experience and Outcomes Lower Procedural Costs Across Vascular Specialties?", Slides 15 & 17
 Information on loss is for illustrative purposes only; actual results & data may differ



### **Operational Excellence**

- Headquarters located in Santa Clara, CA
- European subsidiary in Germany
- Third party logistics provider based in the Netherlands
- 180+ employees<sup>1</sup>
- Lean manufacturing expected to drive margin expansion
- 50+ manufacturing employees<sup>1</sup>
- Specialized sales force fosters deep relationships
- Marketed products in 30 countries and growing
- Robust IP portfolio of 75 issued and 47 pending patents<sup>1</sup>





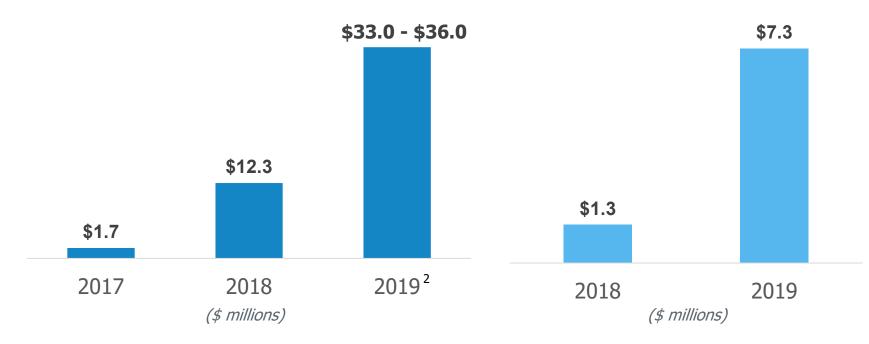
### Strong Financial Profile

#### **Annual Results**

Revenue CAGR: 350%

#### **First Quarter Results**

Revenue Growth<sup>1</sup>: 450%



#### Q1 2019 Performance

- 1Q 2019 revenue growth of 450% year over year
- Increase in gross margin to 58% in 1Q 2019

#### **2019 Expectations**

 2019 annual revenue guidance \$33M - \$36M<sup>2</sup>

<sup>1</sup> Unaudited financial results

<sup>2</sup> Represents the Company's publicly disclosed guidance as of May 8, 2019. This presentation should not be construed as an update to such guidance.

### **Growth Drivers**

#### Advance Clinical Evidence

- Demonstrate that IVL is standard of care for calcified arteries
- Expand indications
- Improve economic story

#### Expand Commercial Capabilities

- Increase direct and distributor field sales organization
- Grow across indications and geographies
- Initiate broader Medical Affairs initiatives

Scale Business • New products • Increase interventional

- procedures by addressing unmet clinical needs
- Partnerships for mutually beneficial outcomes
- Scale efficiencies to improve profitability



### Investment Highlights

| ADDRESSES LARGE<br>UNMET CLINICAL NEED           | Advancing proprietary IVL System for multiple large <b>addressable markets</b><br><b>totaling \$6B+</b><br><b>Optimizes existing treatment</b> with improved outcomes and <b>expands market</b> with<br>superior, effective products       |
|--|--|
| DIFFERENTIATED AND<br>COST EFFECTIVE<br>PLATFORM | Unique mechanism of action that cracks both medial and intimal calcium<br><b>Cost saving potential</b> through reduced complications and minimal required time and training for physicians   |
| STRONG PIPELINE                                  | Ongoing clinical programs to <b>expand geographies and indications</b> and build a robust body of clinical evidence<br>Platform IVL <b>Technology leverageable</b> for new products to satisfy additional significant unmet clinical needs |





## We Crack Calcium