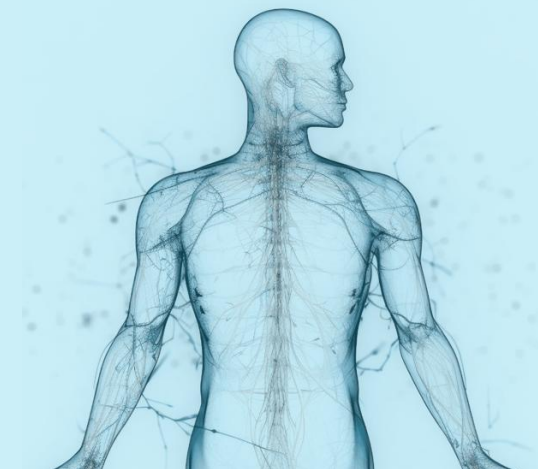




Pulse Biosciences®



Corporate Overview

April 2026

Forward Looking Statements

All statements in this presentation that are not historical are forward-looking statements, including, among other things, statements relating to the effectiveness of the Company's Nanosecond Pulsed Field Ablation (nsPFA) technology and nPulse™ System to non-thermally clear cells while sparing adjacent non-cellular tissue, statements concerning the Company's expected product development efforts and future clinical studies and regulatory submissions, whether with the U.S. FDA or otherwise, statements concerning whether any clinical study will show that the Company's novel nsPFA mechanism of action will deliver fast and precise ablations in cardiac tissue, statements concerning market opportunities, customer adoption and future use of any nsPFA technologies to address a range of conditions such as atrial fibrillation, statements concerning early clinical successes and whether they are predictive of the safety and efficacy of any medical device such as the nsPFA Cardiac Surgery System or the nsPFA Percutaneous Electrode System, Pulse Biosciences' expectations, whether stated or implied, regarding whether the Company's nsPFA technology will become a disruptive, superior and durable treatment option for treating benign thyroid nodules, atrial fibrillation or any other medical condition, and other future events. These statements are not historical facts but rather are based on Pulse Biosciences' current expectations, estimates, and projections regarding Pulse Biosciences' business, operations and other similar or related factors. Words such as "may," "will," "could," "would," "should," "anticipate," "predict," "potential," "continue," "expects," "intends," "plans," "projects," "believes," "estimates," and other similar or related expressions are used to identify these forward-looking statements, although not all forward-looking statements contain these words. You should not place undue reliance on forward-looking statements because they involve known and unknown risks, uncertainties, and assumptions that are difficult or impossible to predict and, in some cases, beyond Pulse Biosciences' control. Actual results may differ materially from those in the forward-looking statements as a result of a number of factors, including those described in Pulse Biosciences' filings with the U.S. Securities and Exchange Commission. Pulse Biosciences undertakes no obligation to revise or update information in this presentation to reflect events or circumstances in the future, even if new information becomes available.

This presentation and any documents incorporated by reference may contain market data that we obtain from industry sources. These sources do not guarantee the accuracy or completeness of the information. Although we believe that our industry sources are reliable, we do not independently verify the information. The market data may also include projections that are based on other projections. While we believe these assumptions and projections are reasonable and sound, as of the date hereof, actual results may differ from these projections.

Our Mission

To build a viable Company that designs, produces, and commercializes nano-pulse technology to improve and extend the lives of patients.

To solve the needs of patients, physicians, and healthcare providers with high quality and high reliability products and services, developed in accordance with rigorous scientific, engineering, and clinical standards.

We exist to make a positive difference in the lives of patients, physicians, healthcare providers, shareholders, and our Pulse Biosciences team members.

Experienced Technologists, Operators and Clinicians From Proven Leadership Team



Paul LaViolette
Chief Executive Officer
Co-Chairman of the Board



Darrin Uecker
Chief Technology Officer
Director



Jon Skinner
Chief Financial Officer



Liane Teplitsky
Chief Operating Officer



Renowned Scientific Expertise



Dr. Niv Ad
Chief Science Officer,
Cardiac Surgery



Dr. David Kenigsberg
Chief Medical Officer,
Electrophysiology



Dr. Gan Dunnington
Chief Medical Officer,
Cardiac Surgery

Established Board of Directors



Robert (Bob) W. Duggan
Co-Chairman of the
Board of Directors



**Dr. Mahkam "Maky"
Zanganeh, MBA**
Director



Manmeet S. Soni
Director



**Richard
van den Broek**
Director



Maria Sainz
Director

Financial & Strategic Snapshot

- **Balance sheet as of 12/31/2025**

- Cash and cash equivalents balance of \$80.7mm
- No debt
- Cash used in operating activities of \$54.1mm in 2025
- Cash burn increasing: Strategic Capital to support significant clinical opportunities (\$14.8mm of cash used in operating activities in 4Q25)
- 4Q25 revenue totaled \$264k

- **Strengthen focus on EP cardio ablation product and clinical development following unprecedented clinical outcomes data in large EU feasibility study.**

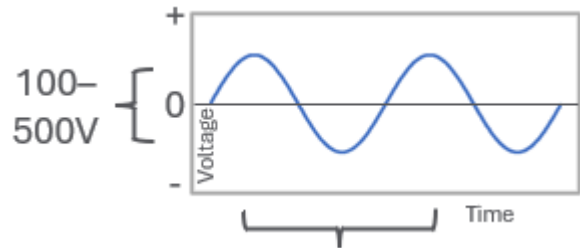


**~75%
Insider
Ownership**

The Nanosecond PFA Advantage – Novel Mechanism, Deeper Ablation

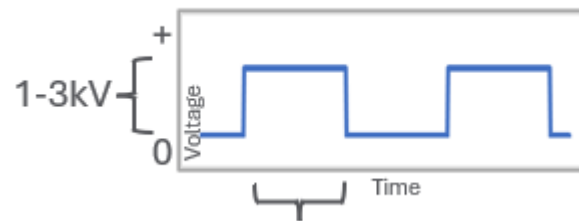
A more energy-efficient ablation mechanism, enabling larger, deeper, faster, and safer ablations

Thermal



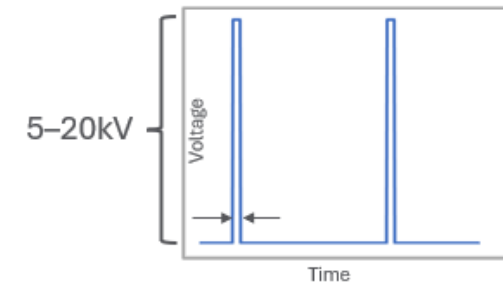
- High Thermal Energy
- Point to point ablation
- Destroys all tissue
- Thermal spread risk

First Gen PFA



- Long-duration weak pulses physically destroy cell membranes
- Thermal risk must be mitigated with small electrodes and irrigation
- Stacking and rotating techniques required due to thermal risk and shallow lesions and require cooling of treated tissue

nsPFA



- Ultrashort strong pulses can deeply penetrate cells triggering regulated cell death
- Large footprint electrodes create circumferential, deep ablations
- No stacking required due to no thermal risk

Pioneering nPulse™ Technology

PATENT PORTFOLIO

250+

Globally owned or licensed

Generator and System Configuration

Methods Across Disease and Conditions

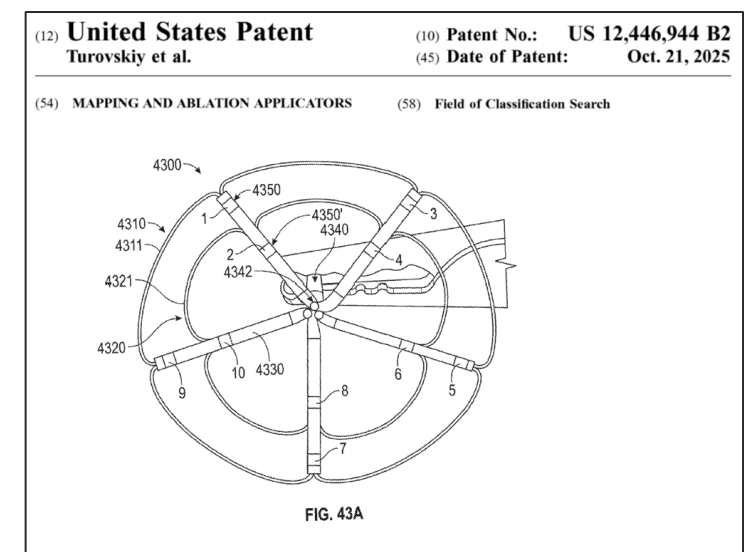
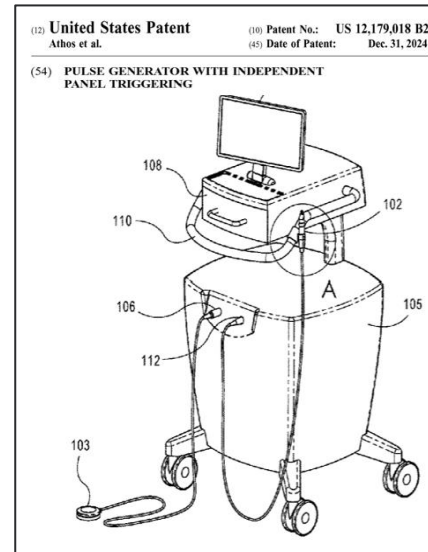
Portfolio Coverage

Applicators and End Effectors (Disposable Devices)

System Accessories

Creating broad and in-depth IP portfolio to effectively own the Nanosecond PFA space

Covering nPulse energy from end-to-end, from generator to electrodes, designed for ultra-short high-energy pulses



EP Market Opportunity AF Ablation

Drivers for Pulse in the EP AF Ablation Market

- Drop-in workflow replacement
- Speed + efficiency over all prior PFA devices
- Enhanced lesion quality
- Elevated safety



nPulse™ technology upends the EP market with a differentiated energy and novel design with significant patent protection beyond 2040

+\$3.0B¹ U.S. Addressable Annual Market

Market growing at

**10–15%
CAGR¹**



Global Atrial Fibrillation (AF) Disease State:

>\$8B²

Electrophysiology Market

Front line clearance and adoption would add significantly

~1.9M³

U.S. patients diagnosed with AF annually

nsPFA Unlocks New Potential in EP



LESION QUALITY

- Single circumferential lesion – no rotation
- Lesion depth
- Transmurality
- True non-thermal MOA



SPEED

- Fewer, faster applications
- Total PVI speed unmatched
- Total procedure time reduced
- No ablation stacking required



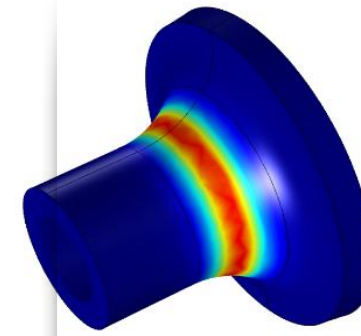
WORKFLOW

- Map and ablate – single catheter
- Conscious sedation potential; de minimis muscle stimulation
- ASC site-of-care



EFFICACY

- Durability
- 6-month
 - 12-month
 - more



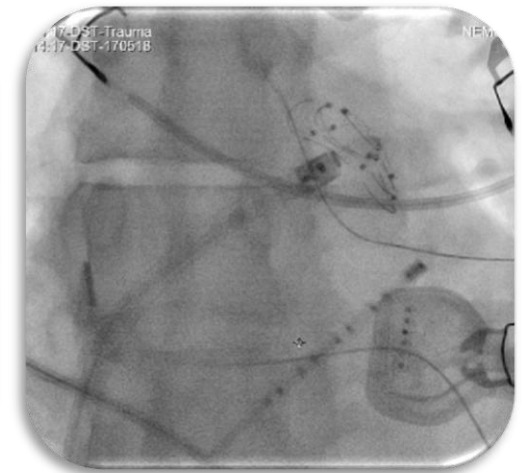
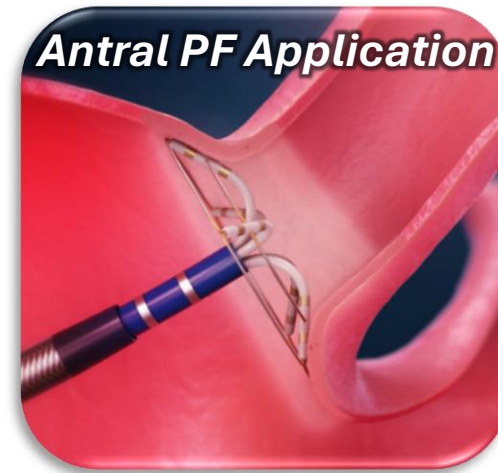
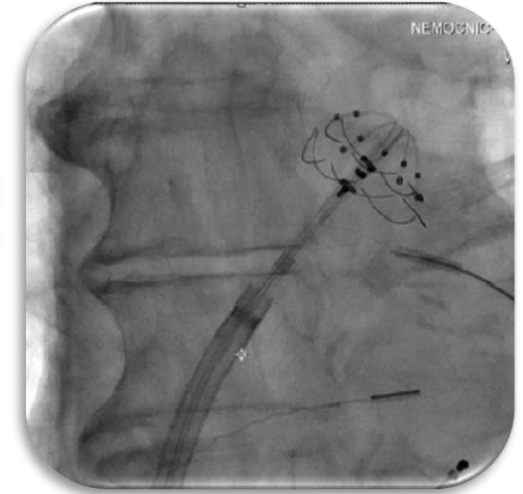
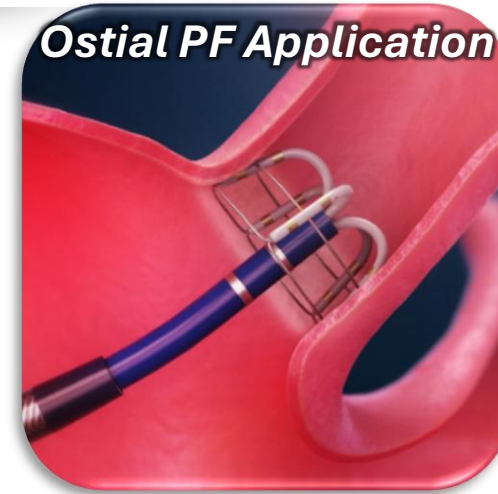
- **NANOPULSE-AF IDE approval**
- **Expect to fully enroll IDE in 2026**
- **165+ patient EU multi-center feasibility study**



Enrolled first patients in IDE in Q2 2026

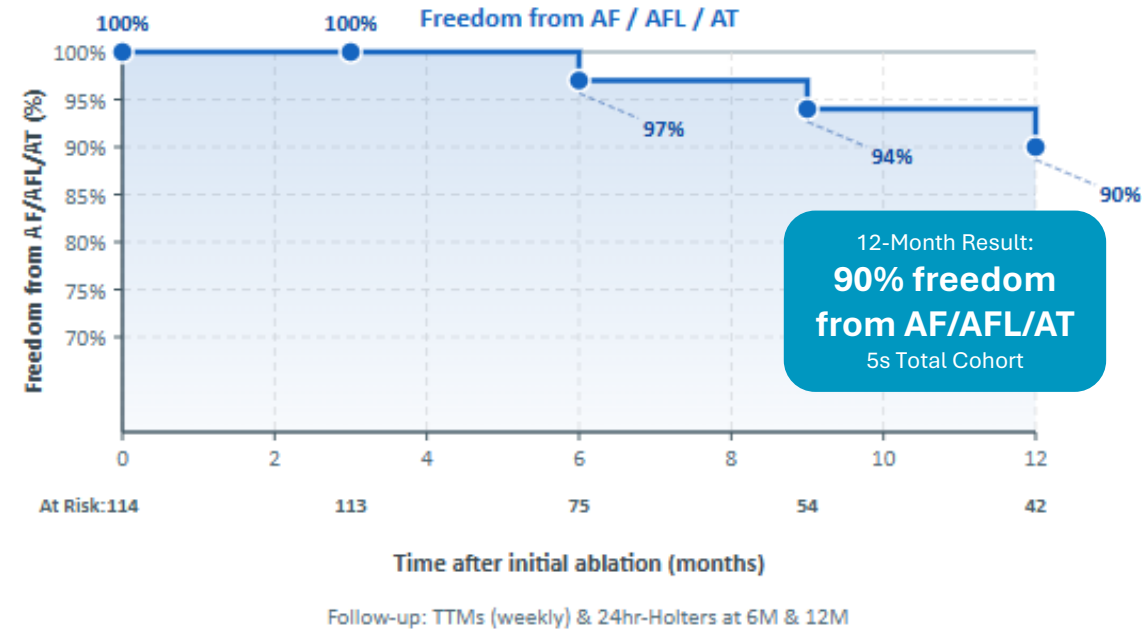
nsPFA Catheter Pulmonary Vein Isolation Workflow

- **Two Applications per Pulmonary Vein**
 - Single ostial application
 - Single antral application
- **Depending on Anatomy**
 - Single anterior carina applications on each side
 - Potential additional right-sided lesions on the Pulmonary Vein anterior aspect



nsPFA FIH Trial: Procedure Time and Freedom AF/AFL/AT Success Rate

Metric	Total Population (n=150)	5s Total Cohort (n=114)	5s PVI + PWI (n=63)
PATIENT & PROCEDURE OVERVIEW			
# of Subjects	150	114	63
Procedure Time (mins)	65 ± 27	65 ± 28	55 ± 31
LA Dwell Time (mins)	21.3 ± 13.5	21.0 ± 13.3	20.8 ± 12.7
Fluoroscopy Time (mins)	8.9 ± 5.4	9.8 ± 5.8	11.6 ± 6.3
Avg # Applications	15.9 ± 4.9	16.1 ± 5.2 (12.8 ± 2.5)*	17.6 ± 3.5
ACUTE & 3-MONTH OUTCOMES			
Acute PVI Success, %	100%	100%	100%
# Subjects Completing EAM at 3M	135	99	43
3M PVI Success / Vein, %	89% (469/529)	92% (356/387)	94% (158/168)
3M PVI Success / Patient, %	80% (108/135)	87% (86/99)	88% (38/43)
6M & 12M HOLTER MONITORING			
6M Procedure Success by Holter, %	98.1% (104/106)	100% (75/75)	100% (32/32)
12M Procedure Success by Holter, %	94.0% (63/67)	95.7% (45/47)	100% (23/23)
* PV ablations only EAM = Electroanatomic Mapping PVI = Pulmonary Vein Isolation PWI = Posterior Wall Isolation AF = Atrial Fibrillation AFL = Atrial Flutter AT = Atrial Tachycardia			



Clinical Roadmap

- Additional data - accepted as late breaking data trial presentation at Heart Rhythm Society 2026
- Expanding protocol - supplementing EU Feasibility Study

Strategic Alignment to Accelerate Cardiac Catheter Program

European feasibility data demonstrates a clear potential to change clinical practice for millions of patients. Updated capital allocation plan assigns highest priority to EP with more concentrated R&D and clinical investment directed to the nPulse Cardiac Catheter System.

Accelerate IDE Enrollment



Single arm study, comparable to the EU feasibility study protocol with already validated clinical outcomes, providing confidence for accelerated enrollment

Expand Clinical Evidence



Building on encouraging first-in human feasibility data exploring additional indications and system benefits

Expedite Next Gen Catheter Development



Accelerating R&D initiatives to advancing focal catheter development and EP pipeline

NANOPULSE-AF IDE Pivotal Study

Study Overview

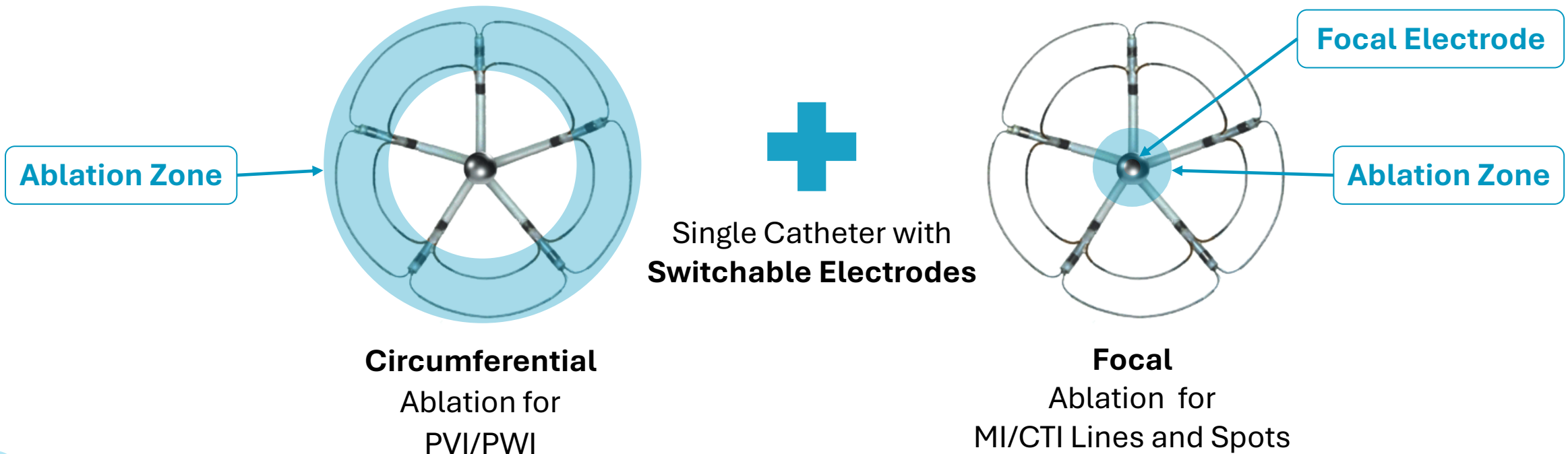
Target enrollment	~215 patients
Clinical sites	Up to 30
First patients enrolled	2Q26
Enrollment target	FY 2026
Primary endpoints	6- and 12-months post-ablation procedural success and safety outcomes



Status: initial patients treated –
7 in one day from a single, first-time-user operator

Next Gen nPulse Cardiac Catheter – Development Stage

- Enables Single Catheter Workflow: building on the platform to enable Pulmonary Vein Isolation / Posterior Wall Isolation and Mitral Isthmus / Cavotricuspid Isthmus lines with switchable electrodes
- Combines the circumferential rings with a large focal electrode, either can be used through simple switching



Pulse Biosciences' nPulse™ Platform

Multiple High Impact Opportunities Beyond EP

Opportunity for expansion into multiple markets with billion dollar plus TAMs



Cardiac Surgery

Status

- Clinical Validation
- NANOCLAMP-AF Pivotal Study Enrolling

U.S. Addressable Annual Market

\$1.8B^{4,5}

Global Potential Market

\$6.0B^{4,5}

Thyroid Application in Soft Tissue Ablation

- Market Development
- PRECISE-BTN Study Enrolling
- Limited Commercialization in Progress

To Be Determined

Interventional Oncology and MIS Multiple pipeline applications

- MD Anderson Thyroid Cancer Studies

Multiple Billion Dollar Markets

2026 Plans

Electrophysiology

- Clear safety, speed, workflow, and durability evidence continues to expand
- Industry leading efficacy evidence continues to evolve
- Complete NANOPULSE AF IDE enrollment
- Continued release of clinical data (Heart Rhythm Society 2026)
- Progression of Next Generation Catheter program always in motion

Cardiac Surgery

- Clinical Validation:
 - Complete NANOCLAMP AF IDE enrollment
 - CE Mark submission
 - Continued release of clinical data supporting best in class and first in class

Soft Tissue Ablation

- Market Development:
 - Limited commercial release
 - Outcomes data, North American Society for Interventional Thyroidology in March 2026
 - Complete enrollment – PRECISE BTN (next few months) and thyroid cancer study

Summary



Novel nPulse™ Energy

- Unique Mechanism of Action
- Patent protected
- Nonthermal



IP 250+ Owned or Licensed Patents

- Pulse effectively owns the Nanosecond PFA Space



Clinical evidence

- Mounting and superior
- Paradigm shifting care



EP Durability Data

- 96% procedure success - 12 months
- 90% freedom from atrial arrhythmias - 12 months



Target Market Values

- +\$3B U.S. annual addressable market in EP
- Additional opportunities with +\$1B markets



Portfolio of future indications

- Cardiac Surgery, Soft Tissue Ablation, MIS and Int. Oncology



U.S. clinical studies

- 2 pivotal IDE studies underway
- Measurable milestones



Balance sheet

- Cash balance of \$80.7mm as of 12/31/2025

Citations

- 1) Clarivate – US EP Market Report. Data on File.
- 2) Company filings, BofA Global Research. Revenue is BofA estimate from BofA Global Research Market Report. Data on File.
- 3) Joglar et al J.A.C.C. V O L . 8 3 , N O . 1 , 2 0 2 4 2023 Guideline for the Diagnosis and Management of Atrial Fibrillation J A N U A R Y 2 / 9 , 2 0 2 4 : 1 0 9 – 2 7 9 1 1 6 (Linear Interpolation)
- 4) Global Cardiac Surgical Volume and Gaps: Trends, Targets, and Way Forward. Annals of Thoracic Surgery. 2023, ISSN 2772-9931, <https://doi.org/10.1016/j.atssr.2023.11.019>.
- 5) Cardiac Surgery at Mayo Clinic—A 70th Anniversary Celebration - [https://www.mayoclinicproceedings.org/article/S0025-6196\(25\)00560-9/fulltext](https://www.mayoclinicproceedings.org/article/S0025-6196(25)00560-9/fulltext)