

The Power of a 12-Lead ECG

Always with the patient

Second Quarter 2024
Financial Results Conference Call

NASDAQ: BEAT

August 14, 2024



### DISCLAIMERS

This presentation contains forward-looking statements. All statements other than statements of historical fact contained in this presentation, including statements as to the Company's future results of operations and financial position, planned products and services, business strategy and plans and objectives of management for future operations, are forward-looking statements.

These statements involve known and unknown risks, uncertainties, assumptions and other factors that may cause the Company's actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "expects," "plans," anticipates," "could," "intends," "target," "projects," "contemplates," "believes," "estimates," "aims," "predicts," "potential," "seeks," attempts," "poised" or "continues" or the negative of these terms or other similar words. These statements are only predictions.

The Company has based these forward-looking statements largely on its current expectations and projections about future events and financial trends that it believes may affect its business, financial condition and results of operations. Also, these forward-looking statements represent the Company's estimates and assumptions only as of the date of this presentation. The Company assumes no obligation to update any forward-looking statements after the date of this presentation.

This presentation also contains estimates and other statistical data made by independent parties and by the Company relating to market size and growth and other industry data. This data involves several assumptions and limitations, and you are cautioned not to give undue weight to such estimates. The Company has not independently verified the statistical and other industry data generated by independent parties and contained in this presentation and, accordingly, it cannot guarantee their accuracy or completeness.

In addition, projections, assumptions and estimates of its future performance and the future performance of the industries in which it operates are necessarily subject to a high degree of uncertainty and risk due to a variety of factors. These and other factors could cause results to differ materially from those expressed in the estimates made by independent parties and by the Company. For additional risks and uncertainties that could impact the Company's forward-looking statements, please see disclosures contained in HeartBeam's public filings with the SEC, including the "Risk Factors" in HeartBeam's Annual Report on Form 10-K, and which may be viewed at <a href="https://www.sec.gov">www.sec.gov</a>.

HeartBeam AIMIGo<sup>TM</sup> has not yet been evaluated by the FDA and are not approved for clinical use in the USA or other global geographies.

## Agenda

- Introduction and Company Overview
- AlMIGo Regulatory and Clinical Study **Updates**
- Al Program Updates
- Financial Results
- Closing Summary
- Q&A



Branislav Vajdic, PhD CEO & Founder

30 years of experience in technology development and senior management positions. At Intel, he was the designer of first Flash memory and two key inventions that enabled Flash as a product and led engineering groups responsible for Pentium 1 through Pentium 4 designs.



Rob Eno President 28 years of experience with a proven track record of developing markets and commercializing disruptive medical technologies. During his career he has created go-to-market strategies for multiple breakthrough products and held senior marketing and sales leadership roles.



17 years of experience in finance and accounting in Life Sciences, Technology and Manufacturing industries. During his career he has held positions including Corporate Controller, Senior Director of Finance, Associate Director of Technical Accounting and Senior Manager - Assurance.

## HeartBeam's Technology is a Dramatic Breakthrough in Cardiac Monitoring



Credit-card sized, cable-free cardiac monitoring device, capable of producing a 12L ECG device, leveraging HeartBeam's core vector technology



Highest resolution 12L ECG device creates new applications for patients and physicians:



- Complex arrhythmias that existing wearables cannot detect
- Monitoring chronic conditions, prevention and screening



Implementation on a patch: bringing on-demand 12L technology to an established, reimbursed market



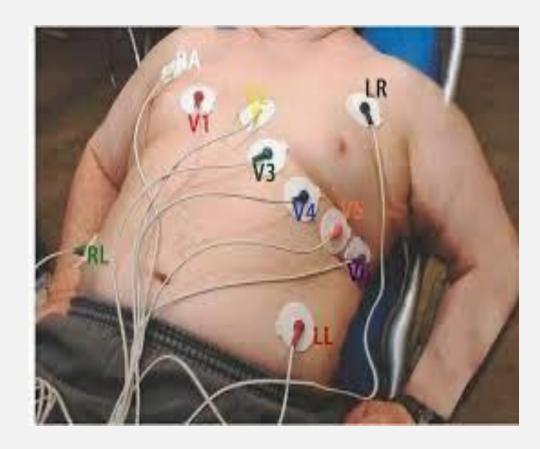
Novel watch form factor will combine a continuous monitor and a 12L



### No Heart Attack Solution Practical for Home Use on the Market

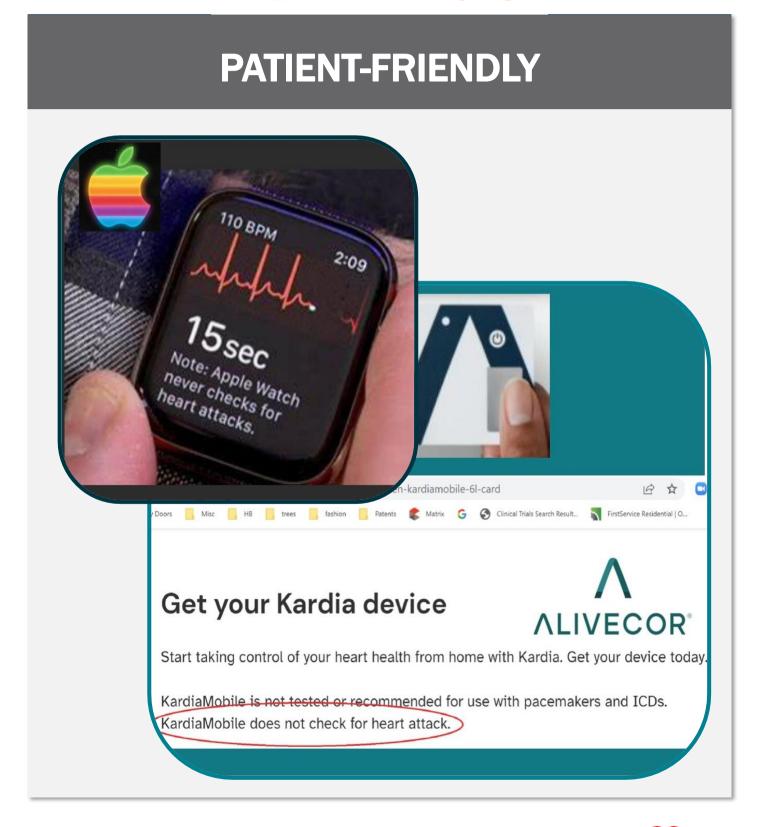
# IMPRACTICAL FOR HOME USE

#### **TRADITIONAL 12-LEAD ECG**



Standard 12-lead ECGs require a health care professional and are not practical for home use

# DO NOT DETECT HEART ATTACKS



## Patients Cannot Determine if They Are Having a Heart Attack

#### Ignore symptoms

#### **Lost lives**

- » Patients delay an average of 3 hours before seeking care
- » Delays lead to increased mortality

Mortality rate increases by

40%



for an average wait of 3-4 hours after symptoms begin



Am I having a heart attack?

Go to Emergency Department

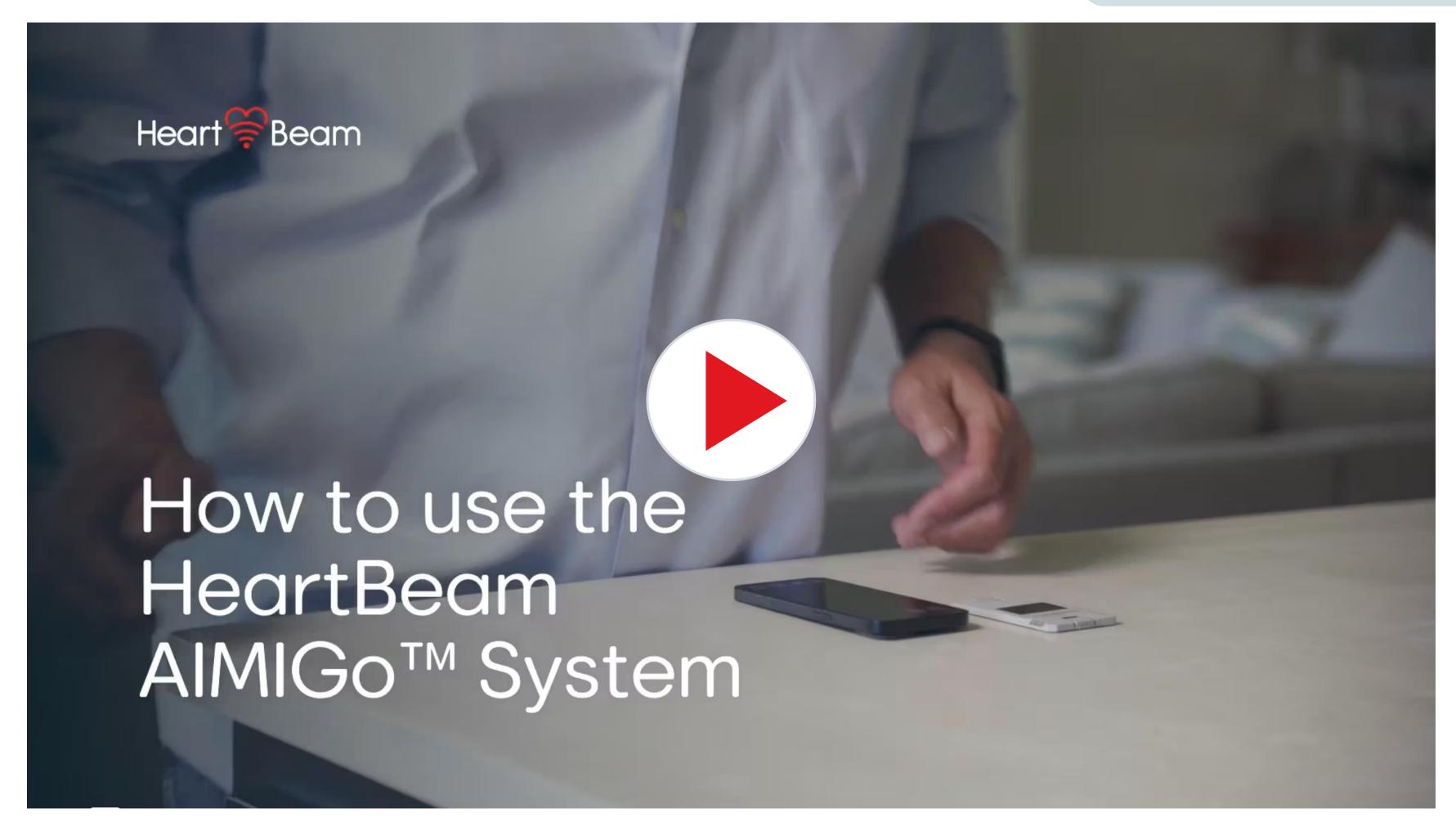
#### Wasted healthcare dollars

» Chest pain is second most common reason for an ED visit

82% of chest pain ED visits are unnecessary

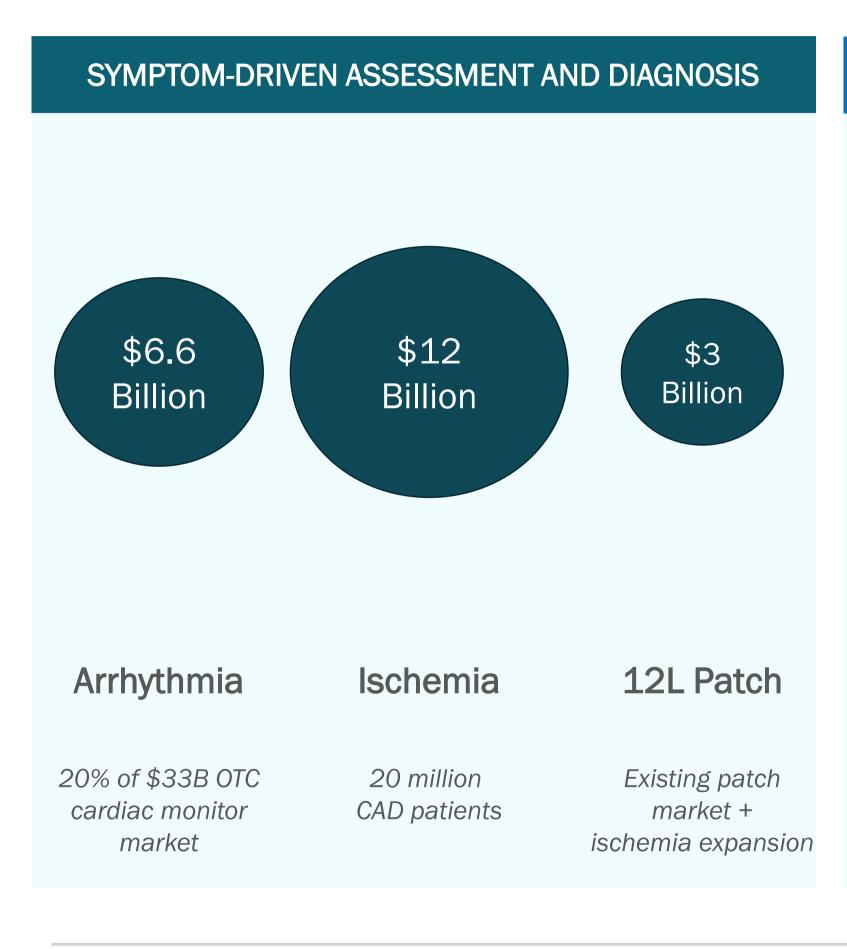


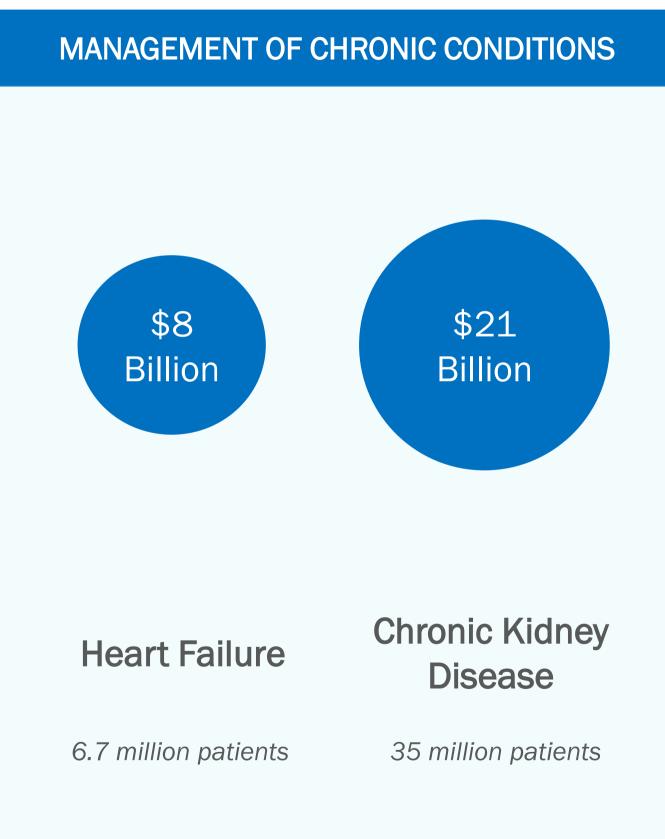
Cost to the healthcare system each year

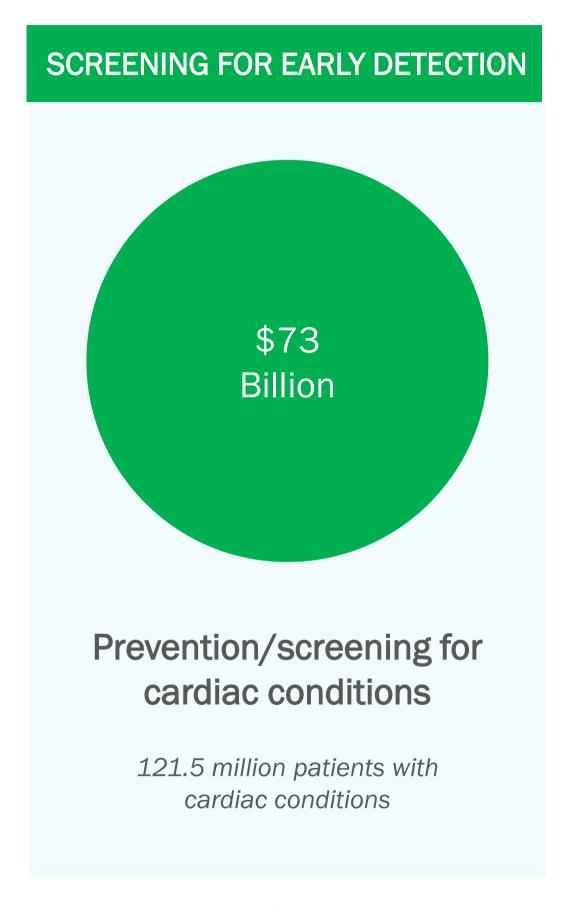


Video link will open in web browser

### HeartBeam Market Sizes, US







## AlMIGo FDA Clearance Will be a Major Milestone

#### FOUNDATION FOR FUTURE SUBMISSIONS AND PRODUCT PIPELINE

- Anticipated to be first patient-held device leveraging vector technology cleared by the FDA
- Basis for further HeartBeam FDA submissions
- Vector approach is excellent platform for Al algorithms
- All algorithms on top of the rich 360-degree signals, particularly with the longitudinal readings, could result in unsurpassed predictive and diagnostic capabilities

## Regulatory Status for AlMIGo Product

#### STATUS

- HeartBeam AlMIGo 510(k) application under active FDA review
- Cornerstone submission for HeartBeam

#### **PRODUCT**

- Clearance as cardiac monitoring device that captures 360-degree signals of the heart
- Includes credit card-sized device, patient application, physician portal and wireless communications between elements

#### TIMING

- Engaged in productive discussions with the FDA, addressing small number of remaining questions
- Progressing toward clearance: limited launch anticipated by year end

## Regulatory Status for 12-Lead Synthesis Software

#### STATUS

- Preparing materials for FDA 510(k) submission
- Enrollment complete in VALID-ECG study on June 20, currently analyzing data
- Results of a study that served as the pilot for VALID-ECG pivotal to be presented at American Heart Association meeting in November

#### **PRODUCT**

 Algorithms that convert the AlMIGo 360-degree signals into a synthesized 12-lead ECG

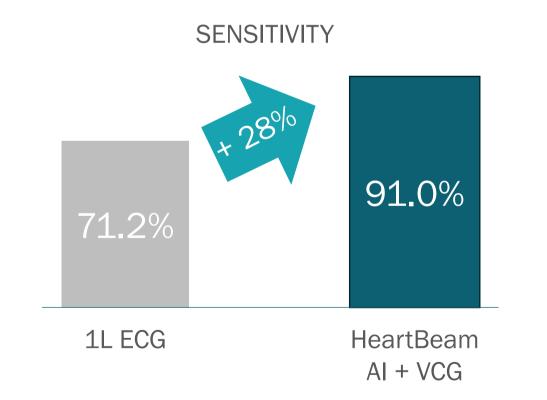
#### **TIMING**

 Anticipate filing soon after we receive clearance for the AIMIGo System

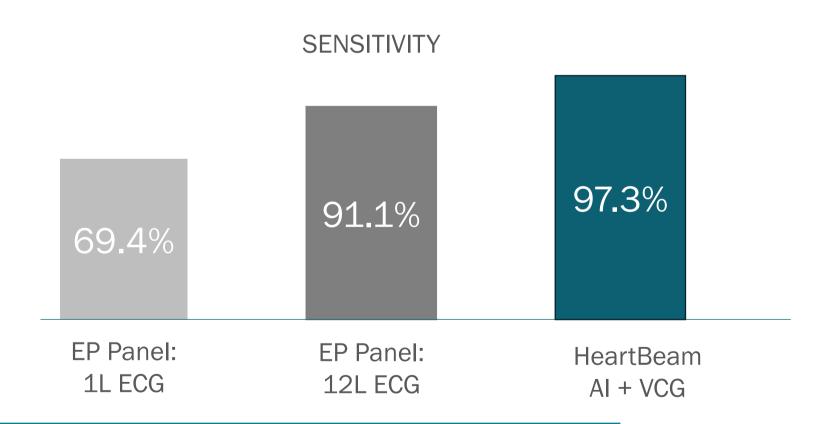
# Recent Scientific Presentations Demonstrate HeartBeam Al's Ability to Improve Arrhythmia Detection

- Atrial flutter is a common arrhythmia and typically requires a 12-lead ECG to be taken in a medical setting which is challenging
- Common smartwatches / wearables only offer Single-lead ECG, limiting ability to detect broad range of arrhythmias

# IMPROVED DETECTION OF ATRIAL FLUTTER VS. SINGLE-LEAD ECG



# IMPROVED DETECTION OF ATRIAL FLUTTER VS. PANEL OF ELECTROPHYSIOLOGISTS



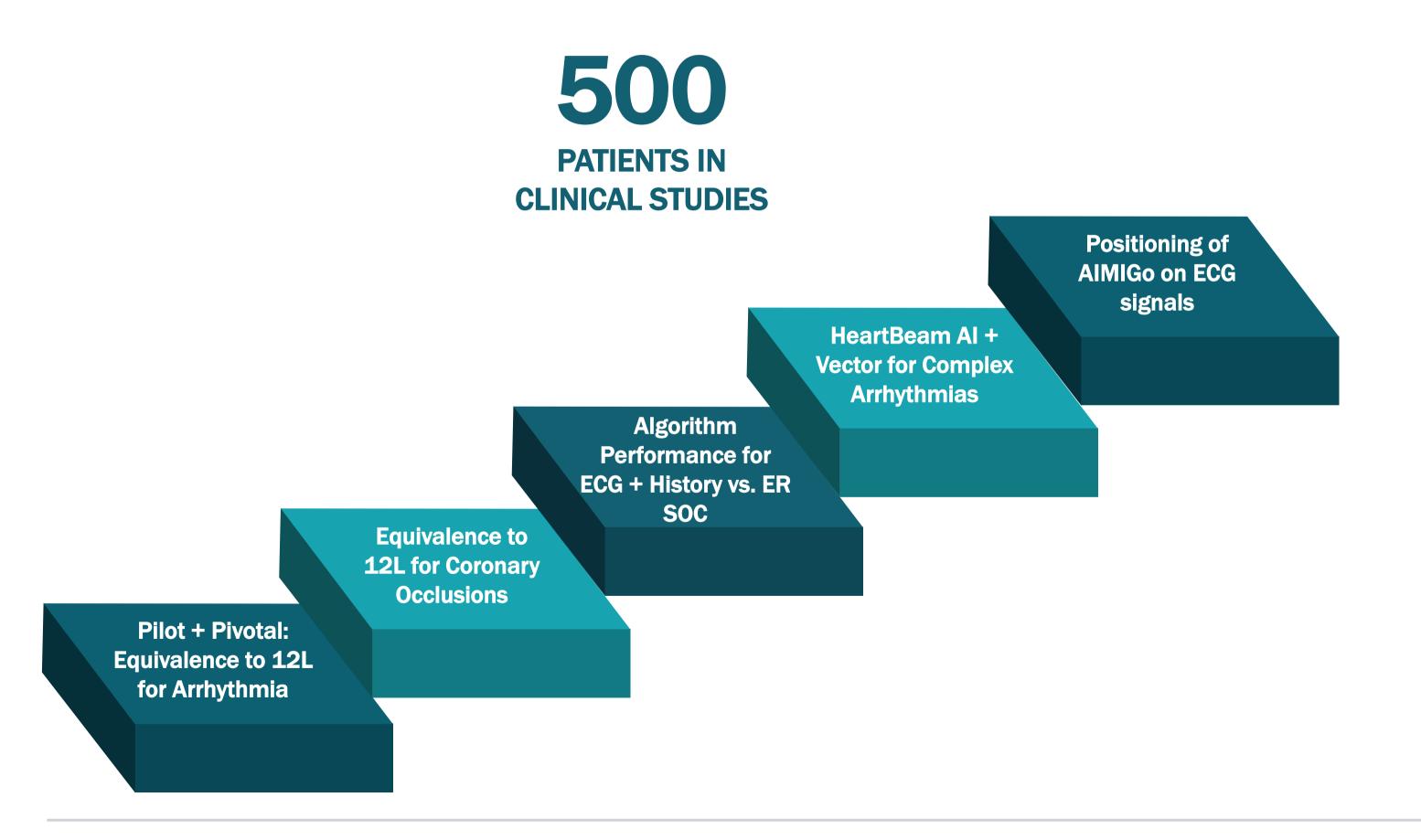
Opportunity to provide benefits of Vector 360-degree signals and 12-lead ECG with the patient outside of a medical facility

## Al Program Update

HeartBeam Al algorithms for arrhythmia classification

- Close to freezing our multiple Al models
- Once cleared by FDA, will provide a comprehensive set of diagnostic suggestions
- Al classification + 12L ECG output provided to cardiologist create an offering beyond anything that is available in a patient-obtained ECG

## Significant Body of Evidence on HeartBeam's **Groundbreaking Technology**



250+ **REAL-WORLD PATIENTS** 

>7500 **RECORDINGS** 

## Q2 2024 Financial Highlights

\$ in Thousands	Quarter Ended June 30,	
	2024	2023
Operating Expenses:		
General & Administrative	\$2,246	\$1,828
Research & Development	2,844	1,484
Total Operating Expenses	5,090	3,312
Loss from Operations	(5,090)	(3,312)
Interest and Other Income	134	158
Net loss	\$(4,956)	\$(3,154)
\$ in Thousands	June 30, 2024	December 31, 2023
Cash & Cash Equivalents	\$9,157	\$16,189

## Closing Summary

# BREAKTHROUGH IN CARDIAC TECHNOLOGY

- Smallest, easiest-to-use and first cable-free 12-lead ECG device
- Enabled by HeartBeam's unique and IP-protected vector technology
- Potential to disrupt numerous large markets and clinical applications

#### SIGNIFICANT CLINICAL AND REGULATORY PROGRESS

- AIMIGo 510(k) under active review. Engaged in productive discussions with the FDA, answering small number of remaining questions.
- Progressing toward clearance; limited launch anticipated by year end
- Preparing materials for second 510(k) submission, on 12L synthesis software. Anticipate submission soon after initial AIMIGo clearance.
- Completed enrollment in VALID-ECG study

## AI PROGRAM PROGRESSING

- Positive clinical data on deep learning algorithm, HeartBeam Al
- Excellent performance in detecting atrial flutter; outperformed panel of EPs reading 12L
- Working to freeze algorithms in preparation for clinical study and subsequent 510(k) submission

# Q&A

#### Company

Rick Brounstein
Consulting CFO
HeartBeam, Inc.
ir@heartbeam.com

#### **Investor Relations**

Chris Tyson
Executive Vice President
MZ North America
Direct: 949-491-8235
BEAT@mzgroup.us
www.mzgroup.us



www.heartbeam.com

2118 Walsh Avenue, Suite 210 Santa Clara, CA 95050

