



*Transforming Cardiovascular Screening
Using AI-ECG*

INVESTOR PRESENTATION

SAFE HARBOR

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The securities offered by HeartSciences are highly speculative. Investing in these securities involves significant risks. The investment is suitable only for persons who can afford to lose their entire investment. Investors must understand that such investment could be illiquid for an indefinite period of time. There is no existing public trading market for the Series D Preferred Stock. HeartSciences does not intend to apply for listing of the Series D Preferred Stock or the common stock purchase warrants on a national securities exchange or quoted on an over the counter market. For additional information on HeartSciences, the offering and any other related topics, please review the Form 1-A offering circular that can be found by searching for HeartSciences under Filings/Company filings search on www.sec.gov. Additional information concerning Risk Factors related to the offering, including those related to the business, government regulations, intellectual property and the offering in general, can be found in the risk factor section of the Form 1-A offering circular.

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HeartSciences: Investment Highlights

- ✓ **Recurring revenues in high growth \$30 Billion market by 2034¹**
- ✓ **HSCS at the leading edge in a rapidly emerging field**
 - AI-ECG solutions for any healthcare setting worldwide
 - Large AI-ECG algorithm portfolio
 - Mount Sinai recently licensed its IP to HSCS and became largest shareholder.
- ✓ **HSCS the Only Company Building Next-Gen Hardware, Software and ECG Infrastructure Solutions**
- ✓ **AI-ECG de-risked: Now FDA 510(k), CPT codes and Reimbursement already in place**
 - New FDA classification for AI-ECG late 2023
 - New AI-ECG CPT codes introduced in 2023.
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- ✓ **Compelling AI-ECG clinical evidence and IP portfolio**
- ✓ **HSCS: Only Nasdaq listed AI-ECG company**

NASDAQ: HSCS

**AI-ECG Set to Change
Cardiovascular Medicine
and Heart Screening**

**AI-ECG Provides Impetus for
Overdue Upgrade of Archaic
ECG Healthcare
Infrastructure**

"ECG" (also known as "EKG") is the abbreviation for an electrocardiogram.
1 - Precedence Research 2023

Significant Challenge to Identify Heart Disease in Front-Line Healthcare

AI-ECG bridges the biggest diagnostic gap in healthcare.
Effective cardiac screening and referral



Cardiology

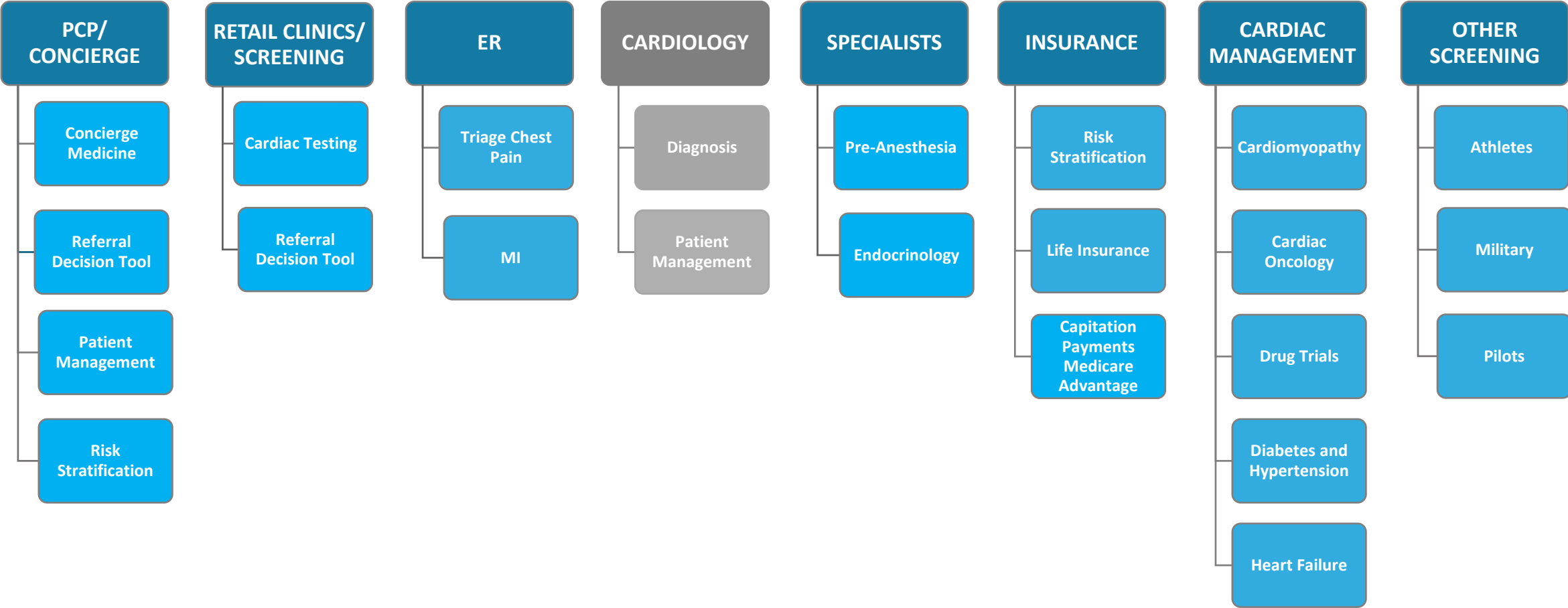
Risk Assessment	Possibly Conventional ECG
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Echo	Stress Echo	ECG	Stress ECG
Coronary CT Angiogram		MRI	Invasive Angiogram

Conventional ECG - low sensitivity for 2 out of the 3 categories of heart disease - ischemia (CAD) and structural

ECG is Ubiquitous Throughout Healthcare – Used Extensively Outside Cardiology

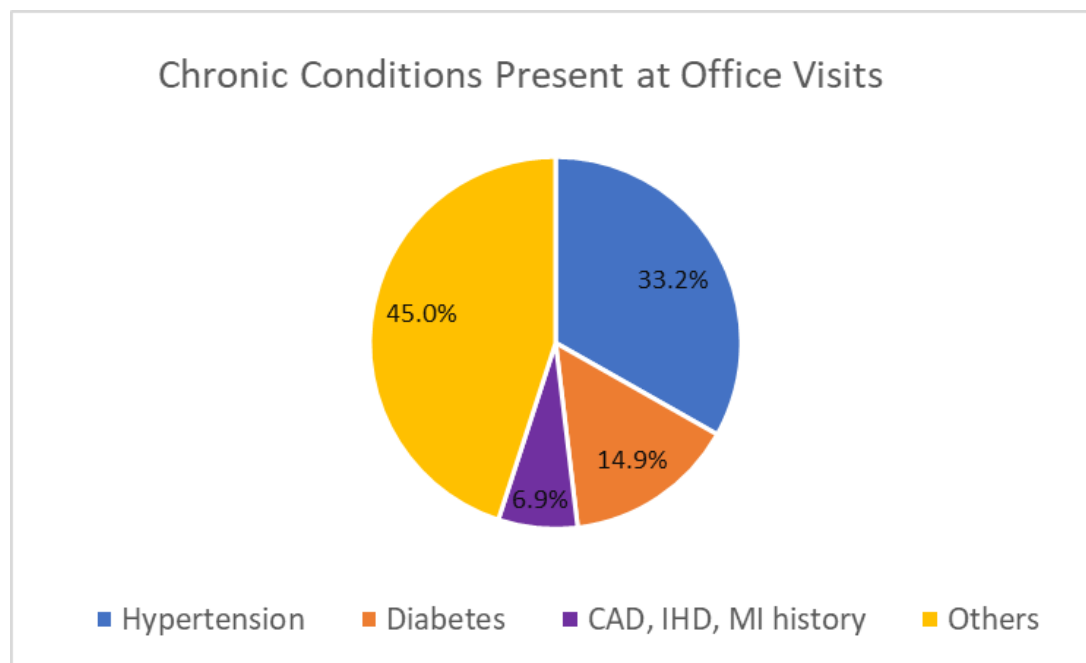
AI-ECG set to transform heart disease detection in frontline healthcare



High Growth \$30 Billion Market by 2034

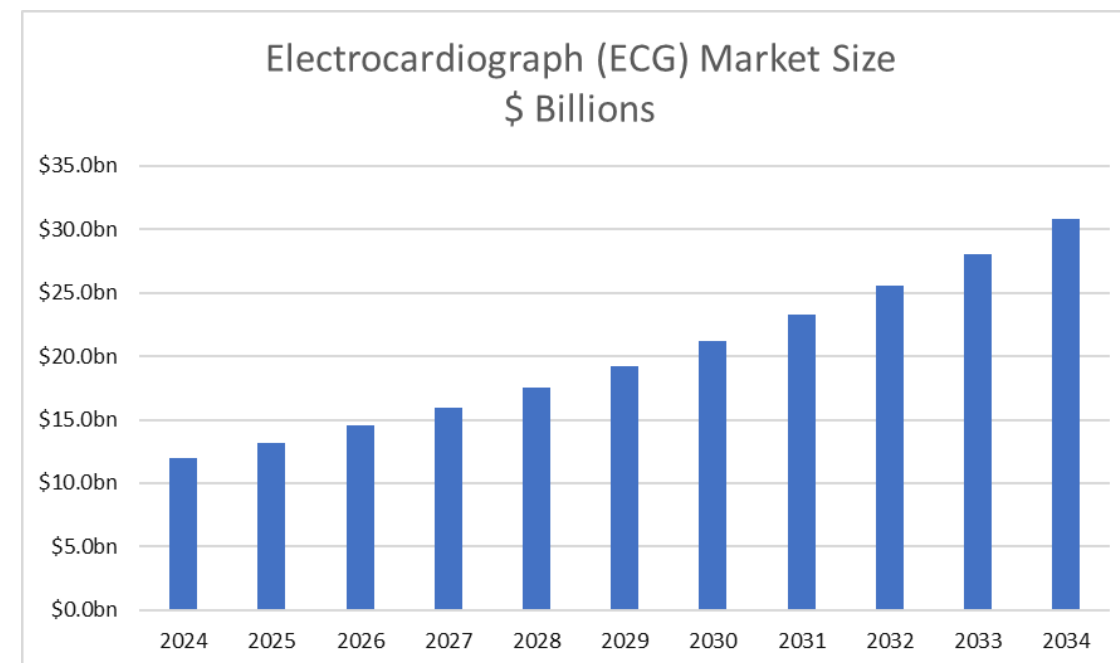
More than 100mn ECG tests and 12mn Echos just in the USA – Estimated 500mn – 1bn ECG tests globally¹

1 Billion ambulatory care office visits in USA
Significant proportion with cardiac risk factors



Source: National Ambulatory Care Annual Survey 2019

AI helping drive ~150% growth (2024 - 2034)



Source: Precedence Research 2024

1 - JMIR Mhealth Uhealth. 2018 Jul; 6(7): e10126

Small Number of AI-ECG Companies - Data & Clinical Collaboration Major Barrier to Entry



Traditional ECG Indications



Conventional ECG generally decades old. Commodity business.

Traditional ECG Indications but Easier to Wear/Use



Significant corporate value being created.

New Clinical Indications



Much greater value opportunity. Significantly advancing the use opportunity for an ECG.

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Anumana: Sept 2023 510(k) clearance to detect low ejection fraction.
Viz.ai: Aug 2023 De Novo clearance for Hypertrophic Cardiomyopathy.



Business Strategy: Provide a Simple AI-ECG Solution for any Care Environment

MyoVista® *wav*ECG™ Device



- State of the art ECG device - Embedded AI-ECG algorithm provides immediate results
- Ideal for use point-of-care settings where complex IT integration can be challenging

AI-ECG software for millions of in situ ECG devices

- MyoVista Insights™ cloud-based hardware agnostic platform
- Covering a range of important cardiovascular conditions.
- Integrating seamlessly with existing clinical pathways.

Future

- Home use, telehealth and wearables algorithms

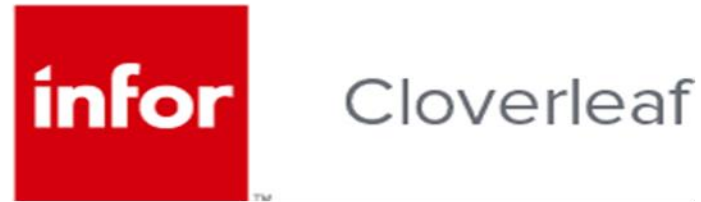


Gearing to Deliver a Generational Upgrade in ECG Management Systems

MyoVista® Insights™ Cloud Native Platform



MyoVista Insights Collaboration

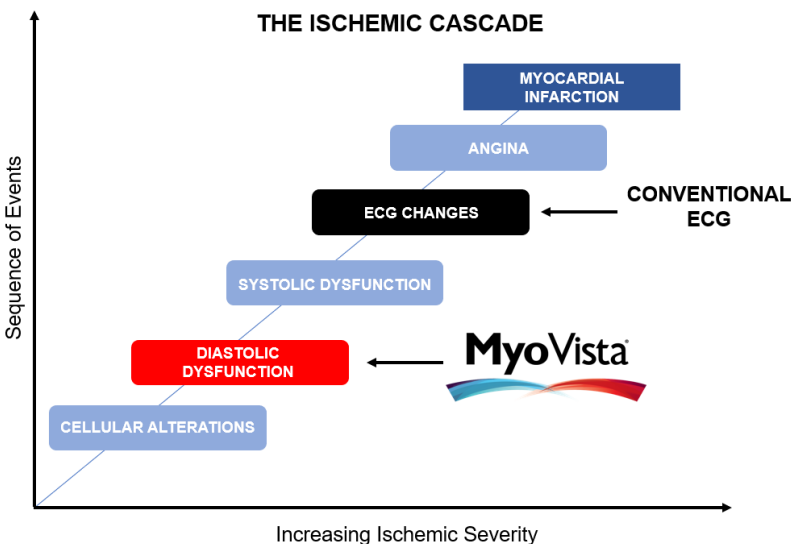
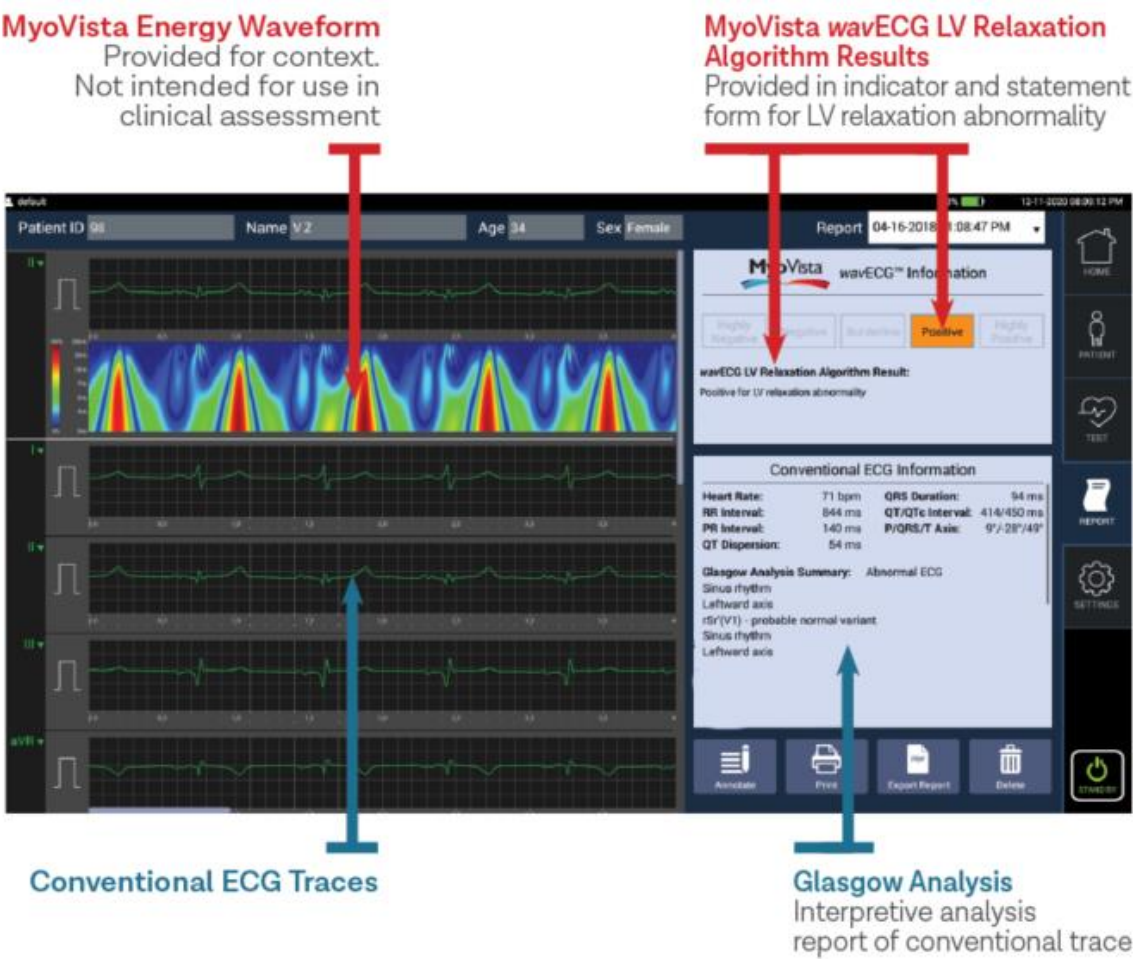


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MyoVista: Simple to Use AI-ECG Device for Frontline Healthcare

New AI-ECG algorithm plus conventional ECG information in a single test



“LV diastolic function [cardiac relaxation phase] is impaired by all of the common pathological processes that affect LV function or produce LV hypertrophy or fibrosis, including hypertension, diabetes mellitus, ischemia, myocarditis, toxins, and infiltrative cardiomyopathies. Thus, LV diastolic performance is a sensitive indicator of cardiovascular dysfunction.”

Department of Health and Human Services Public Access: Diastolic Dysfunction and Prognosis 2015.

MyoVista Technology – Published Studies



2018

Prediction of Abnormal Myocardial Relaxation from Signal Processed Surface ECG

- Mount Sinai (New York)
- 188 subjects (n=188)
- 80% sensitivity, 84% specificity with AUC > 90% in the identification of left ventricular diastolic dysfunction
- Also 82% identification of significant coronary arterial disease



2020

Machine Learning Assessment of LV Diastolic Function based on Electrocardiographic Features

- West Virginia, Mount Sinai, UCLA and Windsor Cardiac Center (Ontario)
- 1202 subjects (n=388)
- AUC 94% for estimated e' in prediction of LV diastolic dysfunction based on multiple age- and sex-adjusted reference limits
- AUC 80%, 84% and 81% for determining abnormal myocardial relaxation, LVDD and systolic dysfunction



2021

Machine Learning of ECG Waveforms to Improve Selection for Testing for Asymptomatic Left Ventricular Dysfunction

- Baker Heart Institute, Australia
- 398 subjects (n=111)
- 85% sensitivity, 72% specificity with AUC 83% in the identification of left ventricular dysfunction
- Outperformed conventional methods of screening for LVD

JACC – Journal of the American College of Cardiology

ESC – European Society of Cardiology European Heart Journal

JPCRR – Journal of Patient Centered Research and Reviews

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European Heart Journal

2020

Prediction of coronary artery calcium scoring from surface electrocardiogram in atherosclerotic cardiovascular disease: a pilot study

West Virginia, Mount Sinai, UCLA and Windsor Cardiac Center

- 534 subjects (n=106)
- AUC 84% for prediction of CAC=0 score; AUC 87% for prediction of CAC ≥400 score
- Predictive accuracy for MACE events in higher risk patients

JPCRR Journal of Patient-Centered Research and Reviews

2022

Surface ECG-based Machine Learning Model For Predicting Patient Subgroup at a High Risk for Major Adverse Cardiac Events

West Virginia, Mount Sinai, UCLA and Windsor Cardiac Center

- 1245 subjects (n=518)
- 84% sensitivity, 72% specificity with AUC 84% in prediction of MACE events over a 38-month period
- Comparable performance to Echo based MACE predictive model. 97% and 79% survival for low and high-risk groups respectively

Mount Sinai has Licensed its AI-ECG IP to HSCS

Broad Portfolio of Licensed AI-ECG Algorithms

➤ 11 licenses covering:

- 13 algorithms
- State-of-the art vision transformer platforms
- 3 patent filings

➤ Mount Sinai now largest shareholder

➤ MoU:

- Co-operation
- Internal use and health economics
- Partnering opportunities
- De-identified data access
- MyoVista evaluation

➤ Elite data science – team and millions of ECG records.



HeartSciences Signs Definitive Agreements with the Icahn School of Medicine at Mount Sinai to Commercialize Artificial Intelligence Cardiovascular Algorithms

Southlake, TX, September 21, 2023 (GLOBE NEWSWIRE) -- **Heart Test Laboratories, Inc.** d/b/a HeartSciences (Nasdaq: HSCS; HSCSW) ("HeartSciences" or the "Company"), an AI-powered medical technology company focused on transforming ECGs/EKGs to save lives through earlier detection of heart disease, today announced it has executed definitive agreements with the Icahn School of Medicine at Mount Sinai (Icahn Mount Sinai), in New York, NY, to commercialize electrocardiographic AI algorithms and assets, as well as a memorandum of understanding for on-going cooperation, collaboration and de-identified data access.

FDA Has Created a Streamlined Clearance Pathway for AI-ECG



➤ **510(k) pathway using new FDA cardiovascular machine learning-based notification software Class II product code:**

- Shorter standardized process
- Retrospective data – quicker and expected to save millions of dollars.

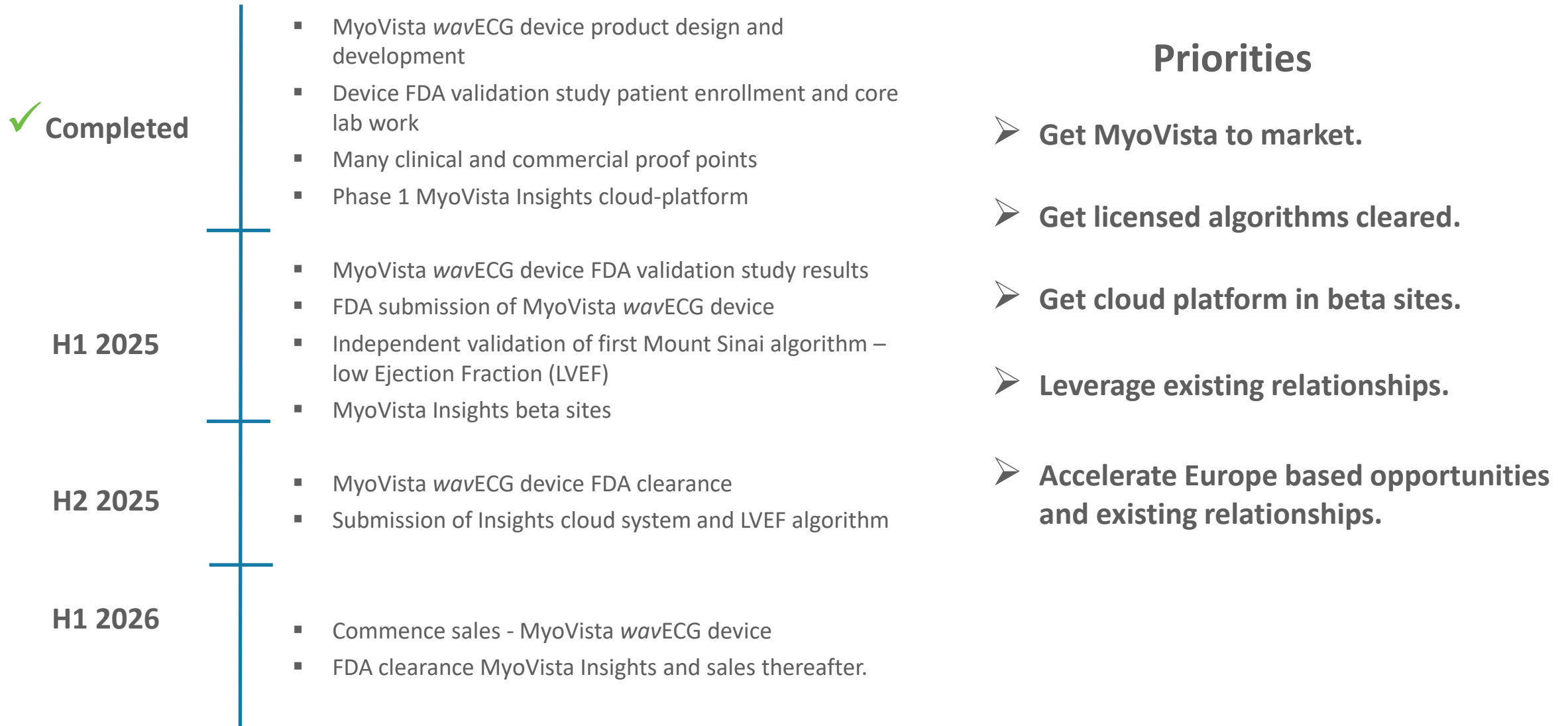
➤ **Extensive FDA engagement to date:**

- Numerous pre-submission meetings - detailed understanding of FDA requirements

➤ **FDA Clearances:**

- Targeting MyoVista wavECG device submission early 2025
- Targeting first AI-ECG for MyoVista Insights platform submitted H2 2025

Key Milestones – Many Near Term Deliverables



Huge Recurring Revenue Opportunity

Estimated 500mn to 1bn ECG tests globally¹ – AI-ECG Forecast to Expand the Market

Reimbursement

- CPT code for AI-ECG already in place
- Medicare Reimbursement under APC from Jan 2025 at \$128 per test.

MyoVista *wav*ECG Device

- MyoVista device – low pricing to encourage adoption
- Single use supplies from every test
- Future algorithms on a pay per use or subscription basis

MyoVista Insights Cloud Platform

- Pay per use and/or
- Subscription based

1 - JMIR Mhealth Uhealth. 2018 Jul; 6(7): e10126

Significant Valuable Intellectual Property

- ✓ **43 granted patents**
- ✓ 9 US Patents and 34 international
- ✓ Licensed from Mount Sinai state-of-the-art foundational vision transformer for ECG and further patent filings
- ✓ Proprietary *wav*ECG patient database
- ✓ Trademarked in multiple jurisdictions
- ✓ **Considerable trade secrets and know-how gathered over years of development work**

Clinical Study Institutions and Key Researchers



Rutgers - Robert Wood Johnson MS, New Brunswick, NJ



Harvard - Beth Israel Deaconess, Boston, MA



Scripps Clinic and Research Foundation Health, San Diego, CA



UT Southwestern, Clinical Heart and Vascular Center, Dallas, Tx



The Baker Heart and Diabetes Institute, Melbourne, Australia



Mount Sinai- Icahn School of Medicine, New York, NY



West Virginia University - Heart and Vascular Institute, Morgantown WV



UCLA Medical Center – Harbor, Los Angeles, CA



Thomas Marwick

Director and Chief Executive, Head of Imaging Research at The Baker Heart and Diabetes Institute

Former Head of Cardiovascular Imaging at Cleveland Clinic



Partho Sengupta

Professor of Cardiology and Chief of Cardiology at Rutgers Robert Wood Johnson Medical School (RWJMS), and Chief of Cardiology at Robert Wood Johnson University Hospital (RWJUH)

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