LIGHT·AI

Detecting Infectious Diseases Instantly

Applying AI to smartphone images to identify disease in seconds – a patented, app-based solution.

January 2025

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Light AI is addressing two of the pressing public health issues of our time

1. Antimicrobial resistance

Antimicrobial resistance from misuse and overuse of antibiotics is consistently listed as one of the top global public health and development threats*

*Source: WHO named Antibiotic resistance as one top 10 Global Threats -
https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance

2. Strep A

Strep A studies estimate that it infects 287M children globally every year*

*Source:
https://www.thelancet.com/journals/eclinm/article/PIIS2589-5370(22)00188-2/fulltext

In the United States, for every 10 sore throats treated by a physician, there are 6 antibiotic prescriptions written, yet only 2 are actually bacterial infections.

Adoption of LightAI's smartphone diagnostic for Strep A would mean that only the people who need antibiotics would get them.

Light AI Highlights

Massive infectious footprint + Instant screening results =
Hyper scale growth opportunity

AI Platform

Paradigm shift: Light AI has patented an AI platform to detect infectious diseases by analyzing smartphone images in seconds. Initial target Strep A. Proprietary cloud-based library of 300,000 images.

Capital, Time,Partners

LightAI has raised over $36M (not including SRED), and it has taken 8 years and 13 partners to get Light AI where it is today.

### AI Veterans and Healthcare Luminaries

From organizations such as Johnson & Johnson, Medtronic, Bristol Meyers Squibb, the CDC and WHO. Peter Whitehead, Light AI's founder and CEO, is the inventor of the VELScope. The VELScope has been used in over 50M oral health examinations by over 10,000 dental clinics in 23 countries.

Simple to Use

The user opens an app on a smartphone and follows basic instructions that include accessing the camera. The process takes ~45 seconds and ~10 seconds to analyze the image in the cloud.

Hyper Scale Growth Potential

No swabs, labs or proprietary hardware required— just a smartphone. Leveraging massive global smartphone footprint to manage a global infectious disease problem.

Commercial Ready

Multiple Go-To-Market paths, including the joint venture with TC4A to launch in lower middle income countries.
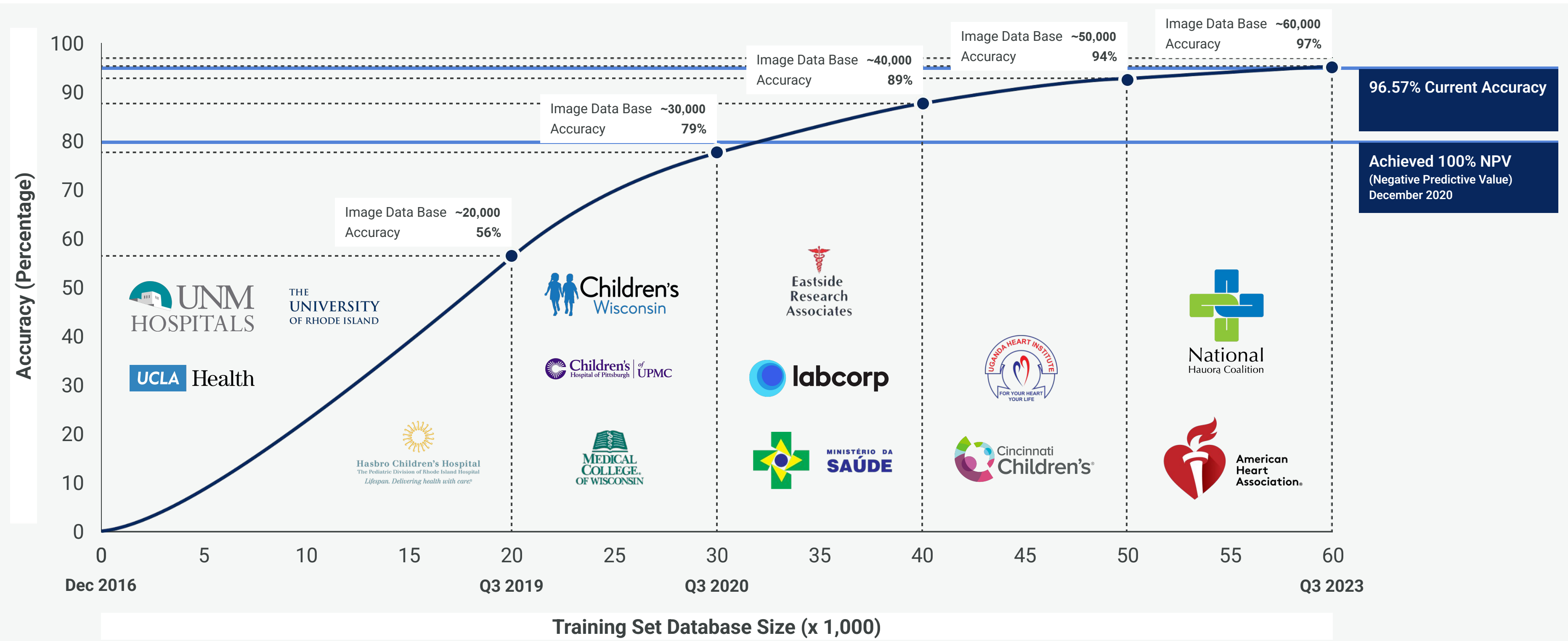
Leadership

We continue to expand our impact with a team of multidisciplinary experts - across healthcare, technology - steadfast in our belief that technology should serve humanity

Officers

Peter Whitehead
CEO

Darren Tindale
CFO and Corporate Secretary

Thomas Scarnecchia
COO

Advisors

Anthony Schaller

David Talan

Yu Zhao

Raymond Ng

David Bell

Board

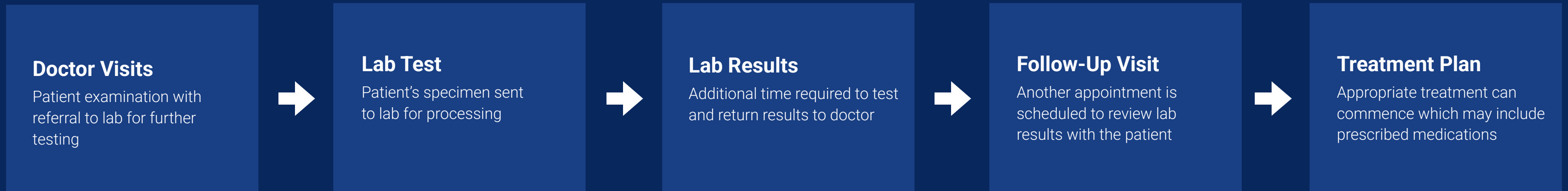**Steven Semmelmayer**
Chair

Mark Attanasio

Hugh Cleland

Emmanuel Blin

Problem

Current Medical Diagnostics System → **24-72+ Hours**

Doctor Visits
Patient examination with referral to lab for further testing

→

Lab Test
Patient's specimen sent to lab for processing

→

Lab Results
Additional time required to test and return results to doctor

→

Follow-Up Visit
Another appointment is scheduled to review lab results with the patient

→

Treatment Plan
Appropriate treatment can commence which may include prescribed medications

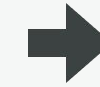**Light AI** → **Immediate (On demand)**
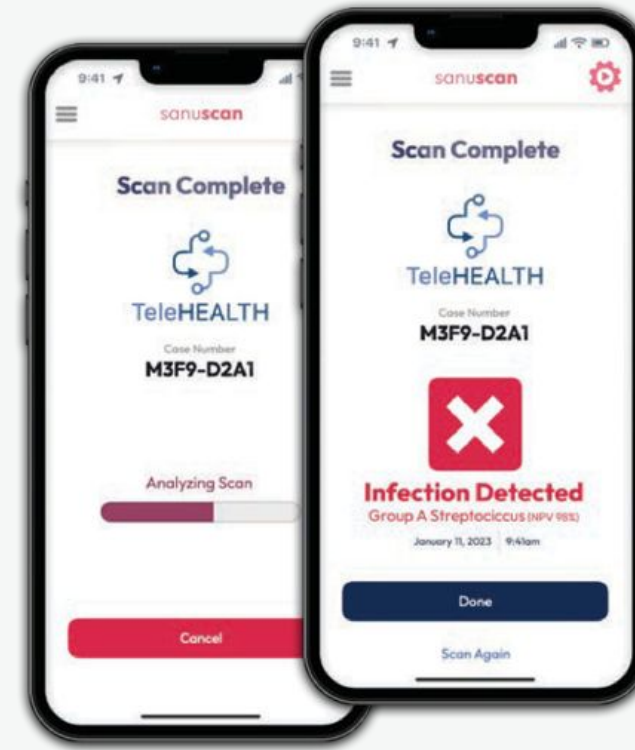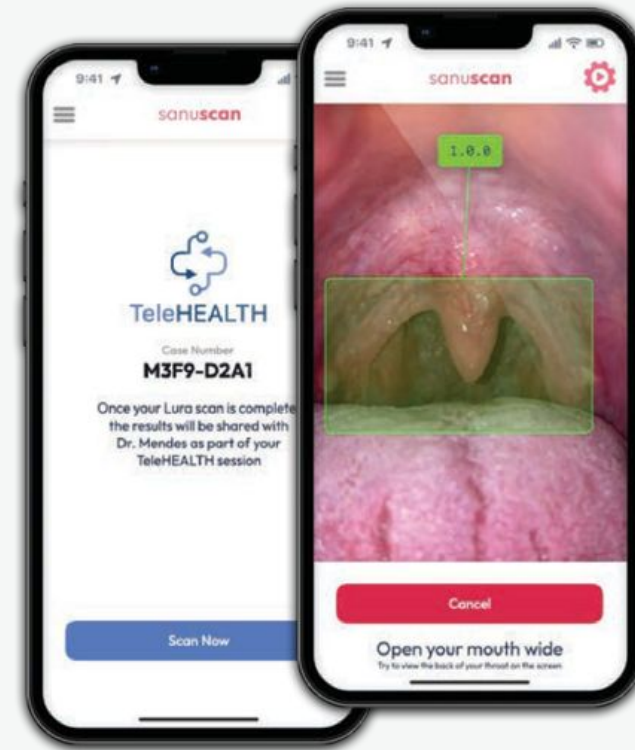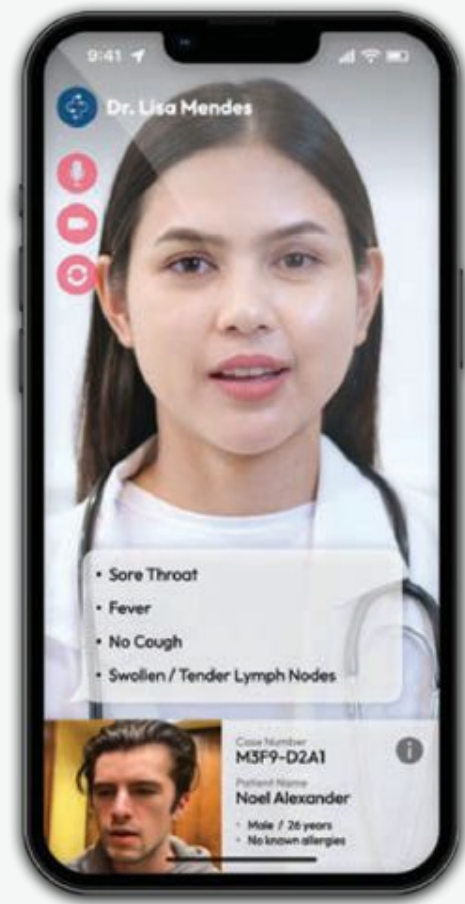
Antibiotic Misuse

10/10 have indication 6/10 receive antibiotics

Only 2 or 3 out of 10 need antibiotics [5] [6]

LIGHT·AI

How it works | identifies infection within seconds
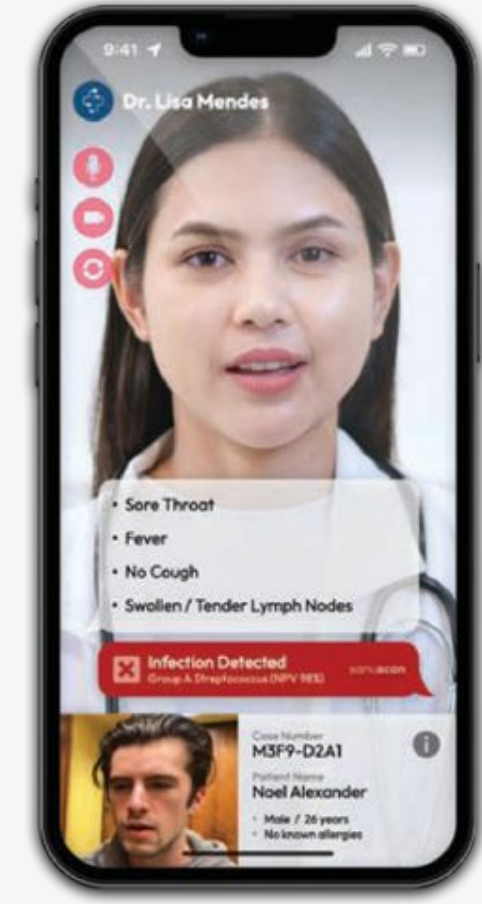
Contact HCP

Patient and healthcare provider meet over a telemedicine session. Symptoms are captured.

*Healthcare provider

Scan Session Initiated

The patient is prompted to scan their throat. Light AI technology automatically identifies biomarkers to analyze.

Scan Analysis

Light AI immediately analyzes the scan data and returns results within seconds.

On-Demand

Decision support that is immediately accessible, real time, inexpensive, non-invasive, pain free and accurate.

Strep A | Light AI addresses major unmet needs

Need for Urgency

Strep requires timely test results due to the potential health implications and the urgent need for treatment.

Costly Infrastructure

Common tests like a throat swab require testing capabilities which are expensive and limited in many countries.

Low POC Accuracy

A doctor cannot accurately identify Strep through a visual assessment unlike other conditions such as skin lesions.

Patient Inconvenience

With only two or three out of ten tests showing a bacterial infection, most doctor visits are unnecessary, and could be avoided with digital screening.

High Patient Volume

Very few conditions have the global reach of Strep, with Group A Strep infecting more than 600 million people globally.

LIGHT·AI

Go-To-Market paths | LMIC

Screening Product

- **LMIC* distribution partner is TC4A (Tech Care For All).**

- **TC4A is a digital health platform with 120,000 healthcare practitioners in >20 countries.**

- **TC4A CEO and Founder, Emmanuel Blin, is a board member of Light AI. Mr. Blin is the former Chief Strategy Officer of Bristol Myers Squibb.**

- **Initial focus on Kenya and Uganda healthcare providers.**

- **Based on results, roll out to other LMIC markets.**

*LMIC (Lower Middle Income Countries)

Development Objectives:

• Develop Android App in addition to existing iOS App
• Demonstrate functionality for pilot programs
• Design and implementation of prototype

Regulatory Requirements:

• Expand and complete clinical studies in Kenya, Uganda, Nigeria and South America
• Registration, implementation and commercialization in Kenya, Uganda, Nigeria and South America

Commercialization Path:

• Conduct feasibility pilot/study in Kenya
• Expand to 16 countries

Existing Partnerships

Tech Care for All

10

Go-To-Market paths | wellness (DTC)

Wellness Product

- **Wellness (DTC) is expected to be Light AI's largest market.**

- **Leverage large distribution ecosystems such as major smartphone.**

- **No FDA approvals required.**

- **Creating pilot programs.**

Development Objectives:

• Modify existing app for the wellness market

Regulatory Requirements:

• None

Commercialization Path:

• Complete wellness market research
• Identify appropriate commercial partners

Go-To-Market paths | FDA commercialization plan

Clear FDA Pathway

- De Novo Application
- New device category: SaMD (Software as a Medical Device)
- AI/ML-powered POC (Point-of-care) diagnostic software for rapid detection of Group A Strep
- Pre-submission meetings with FDA have taken place to confirm regulatory pathway and Clinical Study protocol

Clinical Trial

- Single pivotal clinical trial
- Strong Clinical Dev Partner
  - Carelon Research (Elevance Health)

Launch Plan

- Reimbursement Available
  - Expected to be available
  - subject to FDA approval
- Distribution Channel
  - B2B to HCPs
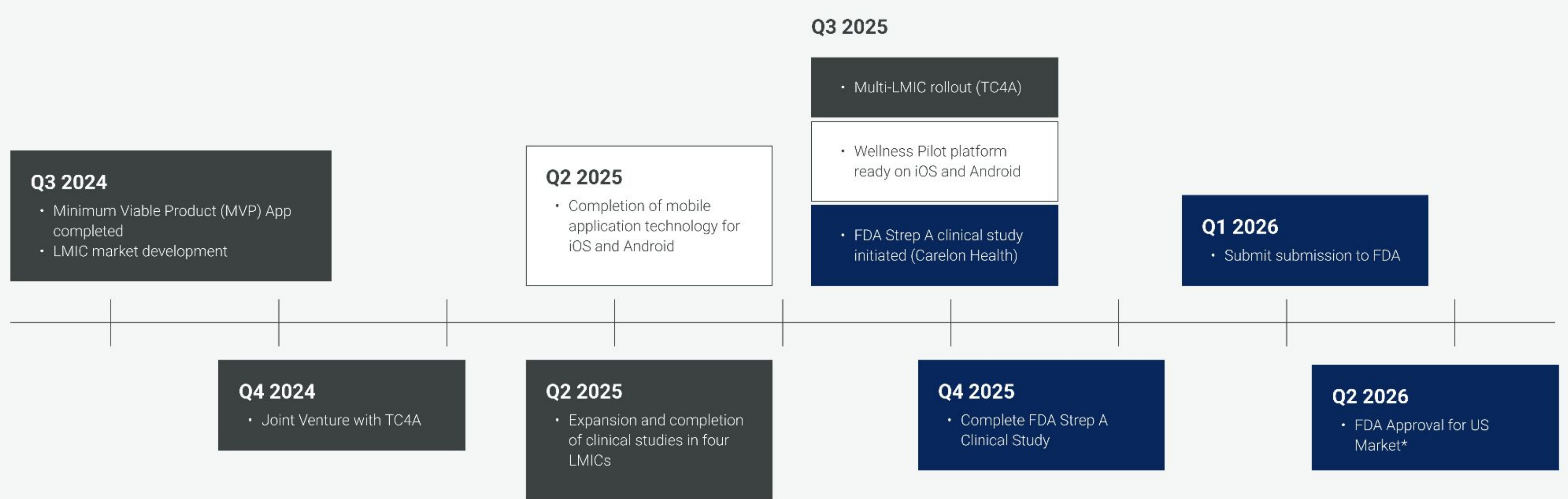- Discussions with Global distribution partners

Anticipated timeline

LMIC   Wellness   FDA

2024   **2025**   **2026**

Q3 2025

- Multi-LMIC rollout (TC4A)

- Wellness Pilot platform ready on iOS and Android

Q3 2024
- Minimum Viable Product (MVP) App completed
- LMIC market development

Q2 2025
- Completion of mobile application technology for iOS and Android

- FDA Strep A clinical study initiated (Carelon Health)

Q1 2026
- Submit submission to FDA

Q4 2024
- Joint Venture with TC4A

Q2 2025
- Expansion and completion of clinical studies in four LMICs

Q4 2025
- Complete FDA Strep A Clinical Study

Q2 2026
- FDA Approval for US Market*

*The timing associated with obtaining FDA approval depends heavily on the outcome of the prior clinical studies of the Company and feedback from the FDA, as applicable. The anticipated timeline provided herein is inherently speculative, subject to uncertainty and based on the Company's estimates only. Actual timing may vary materially from the disclosure provided herein.

LIGHT·AI

Light AI granted & allowed patents

Grant Date: Jun 2022

Patent 1

Image processing of streptococcal infection in pharyngitis subjects

US11369318B2
United States

Grant Date: Mar 2023

Patent 2

Image processing of streptococcal infection in pharyngitis subjects

US11602312B2
United States

Intention to Grant: May 2024

Patent 3

Image processing of streptococcal infection in pharyngitis subjects

EU19871128.5
European Union

Grant Date: Nov 2024

Patent 4

Infection Detection Using Image Data Analysis

35100-48364/US
United States

In addition, 1 patent granted in Australia and 4 other patents pending (2 in Canada, 1 in Europe, 1 in Israel).

Light AI's patents can be broadly characterized as having patented a method to diagnose disease that uses AI algorithms to process images obtained with cameras (including smartphones).

Light AI has one European divisional patent application, one Israeli patent application, one Canadian patent application, and one Hong Kong patent application filed with respect to the Image Processing of Streptococcal Infection in Pharyngitis Subjects. Light AI has one US continuation patent application, one Canadian patent application, and one European Union patent application filed in respect of the Infection Detection Using Image Data Analysis.

Specific claims about StrepA have also been granted.

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CAP table

Light AI Inc Capitalization Table

Common Shares issued and outstanding	**116,230,671**
Stock Options	7,113,945
Warrants	24,085,595
Broker Warrants	2,546,860
Fully Diluted	149,977,071

LIGHT·AI

Thank you

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5 - Shulman, S. T., Bisno, A. L., Clegg, H. W., Gerber, M. A., Kaplan, E. L., Lee, G., Martin, J. M., & Van Beneden, C. (2012). Clinical practice guideline for the diagnosis and management of group A streptococcal pharyngitis: 2012 update by the Infectious Diseases Society of America. Clinical infectious diseases: an official publication of the Infectious Diseases Society of America, 55(10), 1279–1282. https://doi.org/10.1093/cid/cis847.

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