

LarkAl uses leading edge algorithm and proprietary intelligence to capture detect and accurately report heart and lung sounds of humans leading to early screening and treatment

PURSUING OUR PURPOSE



Making cardiac diagnosis faster and more accessible to the world

Our Vision

Our vision is to be the complete health data company using Ai to predict and detect disease and thereby helping all people live healthy lives

Our Mission

To clock Rs300 Mn in revenue by the year 2025, make healthcare affordable and accessible and screen over 21 Mn people annually with Larkai Devices



KK would have been alive if Larkai device was nearby!

THE HEART OF THE PROBLEM IN INDIA





DELAYED DIAGNOSIS

100+ Mn NCD cases, Most patients discover Diseases post Symptoms Screening is not seen as circular process.



BULKY TESTING DEVICES

70% Villages lack Health Subcenters. Over 8 Lakh Doctors without Portable Solution. 85% of devices are Imported



EXPERT & SUBJECTIVE ANALYSIS

It takes 3+ Years to Learn Auscultion efficiently.
No Real Time Data, Records or Stores.



EXORBITANT COSTS

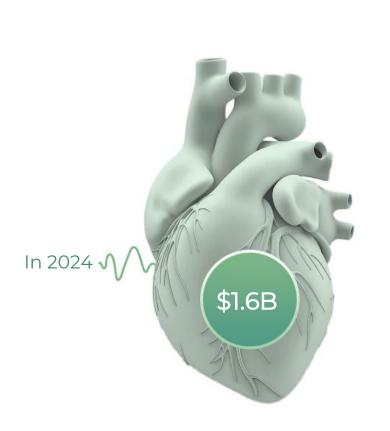
High Cost leads to ignorance to Test till condition worsen, Travel Cost burden due to lack of access.

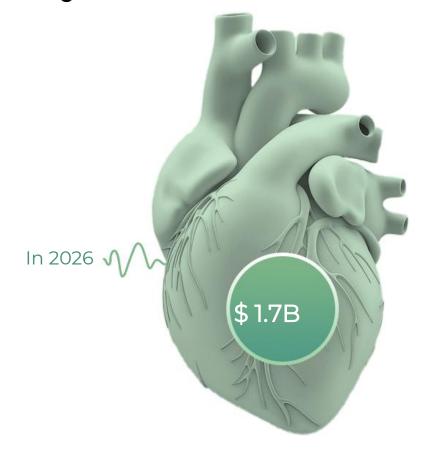
Addressable Market



In 2022 the TAM for CVD device* was \$1400 Mn and expected to reach \$1700Mn by 2026







OUR FIRST PRODUCT



Touch Screen & Tablet Sized Highly Portable

Enabling Early Screening of NCDs-Preventive Device

Battery operated Use of Earphones – Easy to Use

Live Lung & Heart Sound

Medical Grade single lead And ECG

Graphical Analysis of Lungs & Heart Al Enabled; Printable Real Time Heart & Lung Data

Our Business Model

PATIENT

APPLE

ANDROID

Smart Watch Smart Watch



Prioritised segments - Hospital and Clinics



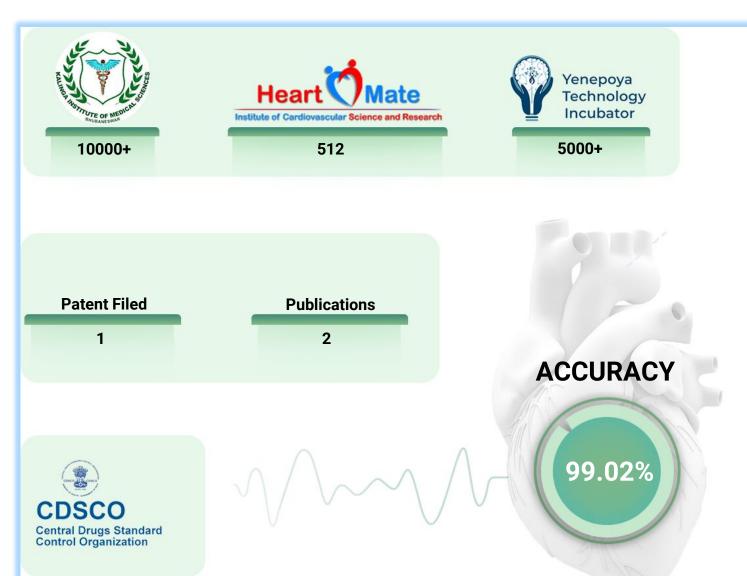


Engine

.ARK<mark>Al's</mark> Predictive Analysis Report

Clinical and Regulatory Validation





ML ENGINE & PUBLICATION

International Journal of Science and Research (IJSR) ISSN: 2319-7064

Detection of Arrhythmia and Auscultation Assistance through Screening Device': A Clinical Study by Larkai Healthcare Pvt. Ltd.

Pritam Dhalla

Founder, Larkai Healthcare Pvt. Ltd.

Abstract: Larkai Heditheare Pvs. Ltd. (hereinafter referred to as 'the Company') is an Eestern-India-based start-up Company established on the P' day of January 2020. Larkai alberes to the bradiational basics as model which a lasts to accomplish the benchmark in the bismedical instrumentation manker of field as usuing afferdable healtheare facilities. The Company's offerts to provide insurative and high-quality cardiac diagnostic' monitoring products that are accurate and convenient to operate. The Company's pinutal and carcially developed product is, the 'literat and Langs Secrening Device is created with the fundament of detecting allments relating to the human argums, hour and lungs. To sparify, the said device can well detect heart arrhythmists such as Tachycordia and Bradycardia. For visualization of the fieldings, the device depicts are archiven graphs of heart and lungs association along with amplified and noise-reduced wants. It is lived a little on the mechanism of the Company's 'Heart and Lungs secrening device', the said device is structured as stainless-start electrods. The unique sufpoure developed in the device analyses the BPM data collectored by such decleved threeby identifying ephodes of abnormal hearthcuts suggestive of Arrhythmia. The device is developed to generate an electrocardiagnum (ECO) according militate to a single-lead electrocardiagnum, which provides a classification of the sweeferm as issues rephren Scily that may either be high rate or hour trate or may even be inconclusive in approxime. The present paper aims to provide a detailed analysis and ameritationing of the aptitudes of said features of said features and validations.

Table 1: Data of TN, TP, FN, and FP

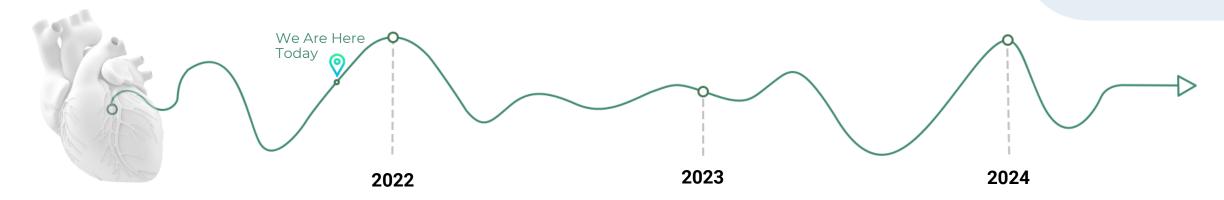
Parameter	Value		
TN	417		
TP	90		
FN	2		
FP	3		

The results in lieu of considered parameters are represented hereunder:

Table 2: Accuracy, Sensitivity, and Specificity Results

Parameter	Value		
Sensitivity	90/92 (97.8%)		
Specificity	417/420 (99.2%)		
Accuracy	507/512 (99.02%)		

LARKAI PRODUCT INNOVATION ROADMAPLARK



Strategic level

Market Traction

Disruptive Value Proposition

Complete Heart and Lung

Features

Current Product

Platform:

New HW and UI 7": Touch UI/LAN/WLAN Slave Display USB Data Export

Parameters ECG/PCG

Connectivity Wifi

TCO

COO

India, Bangalore

New Product Introduction – NPI

Platform:

New Hardware Workflow Improvements

Parameters, Algorithms

ECG + PCG Spirometry

Connectivity

Network Capability (Printing, EMR)

Training and

CDS and Early warning Score

TCO & Service

25% lower cost

Platform:

New Hardware

Parameters, Algorithms

Spirometry NMT, 12 SL ST Analysis; Full arrhythmia

Connectivity

Bed to Bed (network)

Product Cost 100\$

Global Explansion

New

Parameters, Algorithms

Multiparameter, OxyRG Lung Function

Connectivity

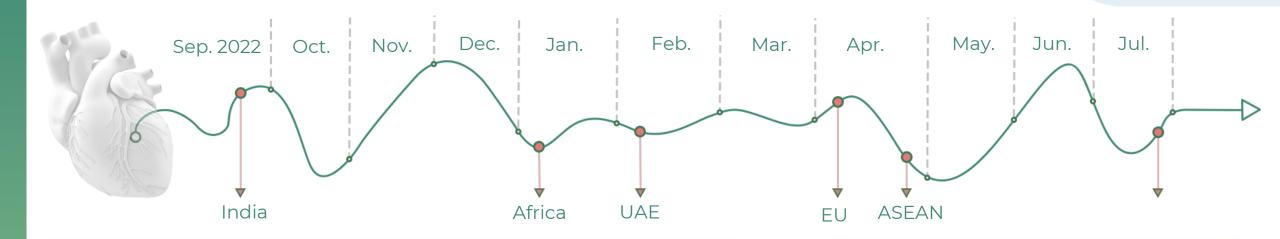
Bed to Bed (network)

Product Cost

\$100

LARKAI Global Expansion ROADMAP





Target Customer personas

Africa and ASEAN are channel partner lead markets Middle East is a Clinician/Biomed driven Market

3 key personas



Biomeds usually do the first trial and recommend the device



Doctors / Physicians are key influencers driving the purchase needs and usability in their own clinic.



Purchase Officer: Takes the recommendation from the clinician and negotiates for purchase on behalf of the diagnostic centre / Hospital

Value proposition

Larkai is a simple & reliable cardiac screening device that you can trust



THANK YOU



www.larkai.link

• **Trivia**: Larks are known for their **melodious singing**. They also sing while they are flying, unlike other birds, who only sing when perched. This indicates cheerfulness and reminds us to take care of our health and find joy in our own lives

CONTACT: +91 99000 95078

Email: abhilash@larkai.in

Annexures

https://youtu.be/KmUUkMEg83Y



LARKAI PRODUCT DEMO @ HOME SETUP | LARKAI HEALTHCARE

24 views • 2 days ago

LARKAI HEALTHCARE

LARKAI PRODUCT DEMO @ HOME SETUP | LARKAI HEALTHCARE #larkaihealthcare #larkai #startup

New



Competitive Analysis











	ThoraCare	ECG machine	Portable ECG	Electronic stethoscope	Stethoscope
Screen both Heart and Lungs?		×	×	×	⊘
User friendly for all personnel's?		×	×	×	×
Takes less time?	⊘	×	⊘	⊘	•
Cost per test is low?	⊘	×		×	⊘
Supports option for both online and offli test monitoring?	ne 🕜	X	⊘		×
Shows real-time data on device screen?	⊘	⊘	⊘	×	×

INDIA REGULATORY APPROVAL RECEIVED - CDSCO CERTIFICATION





Clinically Validated Patented Product



O

Heart Mate Hospital, Cuttack, Odisha - Usability clinical study completed successfully with high accuracy

02

KIMS Hospital, Odisha – Pilot study approval; Clinical trials started for 18,000+ Tests & Data points

03

1000 on field trials being conducted and validated at different locations



ECG Validated with 99% Accuracy; Sound Recording has 90-95% Clarity





With our Filed Patent & IPR, we aim to Pioneer AI Based Portable & Accessible Diagnostic Device Creation

CUSTOMER VALIDATION with over 18,000+ customers and Odisha Govt



KIMS HOSPITAL CLINICAL TRIAL

MSME GOVT. OF ODISHA SUPPORT



INSTITUTIONAL ETHICS COMMITTEE

KALINGA INSTITUTE OF MEDICAL SCIENCES DOIMS) KHT DEEMED TO BE UNIVERSITY, BHUBANESWAR 755024 IBC KINS has been registered under COGCO Regula - BCN/321/hea/CS/2013/KR-96 DBR Regula - BC/FEN/TRET/2020/830



Ref. No.: KIIT/ KIMS/ IRC/ 726 /2021

- Date: 09.09.2021
- 1. Study Title: An early stage, non-invasive, heart and lung screening device: A Pilot study.
- 2. Subject: Ethics Committee Approval
- 3. Name of the Investigator: Mr. Pritam Dhalla, Founder, Director Larkai Healthcare Pvt. Ltd.,
- 4. Quorum of the Ethics Committee with Name:

The following members were present:

- 2. Dr. Nagco Kumer Debeta.
- 3. Mr. Javashanker Minters, Advocate
- 4. Mr. Nurwesine Day
- 5. Mr. Dillip Kumar Delvedy
- 6. AVM Prof. (Dr.) R. C. Dan, Prof. Psychiatry
- 7. Dr. Chaitali Pottaruyak, Professor, Phormacology
- 8. Dr. Amrita Panda, Assoc. Prof. Anesthesia
- 9. Dr. Alpana Mishra, Asst. Prof. Community Medicine : Alternate Member Secretary

| Vice Chairman

Member (Legal Expert)

| Member (NGO Representative)

Member (Lay person)

The Institutional Ethics Committee Meeting for was held on 03.09.2021.

After hearing the deliberations from the Principal Investigator the Institutional Ethics Committee Members are satisfied, there is no conflict of interests in any manner. Investigating team will keep dignity, rights, safety and well-being of participants maintaining high othics and the investigation Team will keep privacy of the individuals and confidentiality of data and documents of Ethics

The study is approved in its presented form.

In the event of leaving the Institute of the Principal Investigator the data as well as residual Biological namples if any, will be handed over to another person (Medical Research person) designated by Principal under intimation to Institutional Ethics Committee.

The approval is valid for 3 Years or the duration of the Project whichever is less.

The Investigator may make a written request for renewal/ extension of the validity, along with the submission of annual status report. Any deviation/ violation/ waiver in the protocol must be informed to the IEC. The IEC must be informed immediately in case of any adverse event/ SAE or any change of anudy procedure/ site/ Investigator. Also, the Investigator needs to submit the Annual Report to the IRC after completion of the study, and publication status, if any.

The IDC reserves the right to review, to suspend and to cancel the Research Project at any time during the trial.

Dr. Amrita Punda

Member Secretary, 100 Kalinga Institute of Medical sciences. Bhubaneswar 751024

Eushabhadra Campus (KET Campus - 5), Patia, Shubaneswan-7532241 Member Secretary Tel: 0674-2725308/ 2725472 (Eut - 2017); Fax: 0674 - 2725415 | Institutional Ethics Committee Web site: www.kims.sc.in. (multiwhicacommittee.kims@kims.ec.in KIMS, @hubanegwar

Government of Odisha MSME Department

No. MSME-SAI-MISC 0069-2019/ 37-30 /Bhubaneswar Dr. 2.06.2021

Shri Satyabrata Sahu, IAS

Principal Secretary to Government

The Special Secretary to Govt. (PH), Health& FW Department The Special Secretary to Govt. (MS), Health& FW Department

Sub: Minutes of Interactive session of Startups in Healthcare and allied sectors held on 08.05.2021-Regarding

I am to forward the minutes of Interactive session of Startups in Healthcare and allied sectors held on 08.05.2021 and contact details of the concerned Startups. As per our discussion in the meeting; you are requested to

- 1. Extend all possible hand holding support to Ezerx Health Tech Pvt Ltd in preparation of road map for the Startup's product development and deployment.
- 2. To conduct a detailed examination of the products developed by Auum Platforms Private Limited and extend hand holding support in preparation of road map for Startup'sproduct development deployment and testing
- Extend all necessary support to Indna Lifesciences Pvt Ltd. for implementing and testing their DNA based testing platformin various hospitals across Odisha.
- 4. To conduct a detailed examination of the products developed by Losjovenes Clinilogic Private Limited and extend all possible support for connecting the Startup with HOD, Department of SKIN & VD, S.C.B. Medical College & Hospital, Cuttack for testing and technical viability of the product.
- To conduct a detailed examination of the products developed by Larkai Healthcare Private Limited and extend hand holding support to the Startup for testing their
- 6. Extend support to connect Orbanix Labs Private Limited with the existing networkof tele-medicine units like 104, e-sarrjeevani etc already functional in Odisha.

An early response from your end is highly solicited.

Contact Person for future Correspondence:

Smt. Sanjukta Badhai Designation: Evangelist, Startup Odisha Mobile no: 9178665577

Principal Secretary to Government

Recognition





















