बाइरैक
birac
Grand Challenges India
mygov मेरी सरकार
Department of BioTechnology, Government of India
nasscom foundation
LHIF LIFE SCIENCES & HEALTHCARE INNOVATION FORUM
nasscom

जनCARE Healthcare Innovation Challenge

Field Deployment Report

DR. RAJESH S GOKHALE,
Secretary to Govt of India,
Department of Biotechnology
Chairperson, BIRAC

Over the past decade, India has indeed made significant strides in improving the health of its population, with notable achievements in areas such as maternal and child health, infectious disease control, and life expectancy. Initiatives such as the National Rural Health Mission (NRHM) and the Ayushman Bharat program have aimed to address healthcare disparities and enhance accessibility. However, access to healthcare services in rural areas remains a significant concern due to factors such as inadequate infrastructure, a shortage of healthcare professionals, and logistical barriers.

In order to address healthcare challenges especially in the Low resource settings and improving the overall public health, BIRAC and NASSCOM in collaboration with GCI launched the "जनCARE" Innovation challenge program aiming for healthcare delivery at low resource settings.

BIRAC's public private partnership initiatives such as this, are aimed to play a significant role to encourage technology development and technology adoption for strengthening India's primary healthcare system which is crucial for achieving sustained improvements in health outcomes and narrowing the existing disparities.

Dr. Jitendra Kumar
Managing Director,
BIRAC

A robust primary healthcare system serves as the foundation for a nation's overall health infrastructure, playing a pivotal role in preventive care, early intervention, and the management of common health issues.

The जनCARE program is a collaborative effort where both state government and Industry stakeholders have joined hands to support the startups for supporting the field validation studies and their scale up for adoption, adding a crucial element of local integration and support, acknowledging the role of regional authorities in healthcare implementation.

The present "जनCARE Healthcare Innovation Challenge Field Deployment Report" showcases the impact generated by the जनCARE awardees across the nation.

I am glad to observe that many awardees have completed their field deployment successfully and a few also got adopted by the Government and Industry Stakeholders.

Through this report, BIRAC aims to evangelise more startups to build specialised healthcare solutions, and democratise access to modern medicine for all.

Dr. MANISH DIWAN,
Head –Strategic Partnership and Entrepreneurship Development, and Mission Incharge – Make In India, Biotech sector
BIRAC

This unique "जनCARE" Innovation challenge was envisioned to discover, design, and scale the healthtech Innovations that can work in low resource settings (especially in rural & semi-urban environments).

15 awardees working in the areas of Chronic Pulmonary Obstructive Disease (COPD); Cancer; Mother and Childcare (MCH); and Non communicable diseases & Telemedicine were supported under the program for carrying out field deployment studies in 12 states across the nation for their wider adoption.

During the pilot studies the awardees actively encouraged the training of rural healthcare professionals, enhancing capacity-building and skill development among healthcare professionals working in rural areas.

This report features affordable healthtech innovations developed by the जनCARE awardees to address the local challenges and unmet needs. The involvement of States is also highlighted in the report, recognizing the crucial role played by the regional governments in making such Public Private Partnership initiatives successful.

Dr. Shirshendu Mukherjee,
Mission Director, Grand Challenges India (DBT-BMGF)
Mission In charge - Mission COVID Suraksha
Head, Specialized Services Group
Head, Communication
Head, India-CEPI

Healthcare innovation is accelerating at an unprecedented scale, and the healthcare industry is undergoing a digital transformation, leveraging digital technologies to enhance efficiency and accessibility.

The healthcare technology revolution is propelled by the constant enhancement of products and services that help people easily explore and access better healthcare, especially in tier II & III cities.

With this in mind, the Selected innovative technologies can potentially improve health outcomes and quality of life and/or offer a solution to an unmet medical/health technology need by evaluating their appropriateness, quality, safety and affordability.

The "जनCARE" challenge is ably supported by Grand Challenges India, a partnership framework between the Department of Biotechnology (DBT), and the Bill & Melinda Gates Foundation to launch joint initiatives to catalyse innovative health and development research within India. The program was envisioned to make a bouquet of affordable HealthTech solutions available for adoption, specifically focusing on enhancing healthcare facilities in Tier II and III cities.

We sincerely think that the solutions developed by our dedicated innovators under "जनCARE" challenge will go a long way in delivering affordable, accessible digital solutions for our country.

Nidhi Bhasin,
CEO, nasscom foundation

It is with immense pleasure and pride that I present to you the pilot studies report of the Jancare Innovation Challenge—an initiative that embodies the spirit of innovation, collaboration, and societal impact. In partnership with BIRAC, nasscom foundation has been at the forefront of fostering technology-driven solutions aimed at addressing pressing challenges.

The pages that follow encapsulate the endeavors, discoveries, and promise of the innovators who participated in this program. The Jancare Innovation Challenge has not only been a platform for ideation but a catalyst for translating these ideas into tangible solutions for the betterment of society.

As we delve into the insights and outcomes documented in this report, may it serve as a testament to the potential that lies at the intersection of technology, innovation, and social impact. The narratives within these pages reflect the dedication and ingenuity of individuals and teams committed to making a meaningful difference in the world.

I extend my sincere appreciation to all contributors, collaborators, and supporters who have been instrumental in making this initiative a success. Together, let us continue to champion innovation that transforms lives and paves the way for a more sustainable and inclusive future.

Sanjeev Malhotra
CEO COE IoT nasscom

It is with great enthusiasm that I introduce the pilot studies report of the Jancare Innovation Challenge, a remarkable collaboration between Nasscom Centre of Excellence for IoT and AI, Nasscom Foundation, and BIRAC. This report is a testament to the confluence of cutting-edge technology and healthcare, showcasing the incredible potential of innovation to address challenges in low resource settings.

The journey chronicled in these pages reflects not only the technical prowess of our innovators but also the unwavering commitment to making a tangible impact on society. The Nasscom Centre of Excellence for IoT and AI takes pride in being a catalyst for these groundbreaking solutions that aim to transform the healthcare landscape.As you immerse yourself in the narratives and outcomes presented in this report, envision a future where IoT and AI become integral tools in the pursuit of accessible and inclusive healthcare.

Our shared dedication to innovation has paved the way for solutions that have the power to transcend barriers and redefine possibilities

I extend. my deepest appreciation to every contributor, collaborator, and supporter who has been instrumental in making the Jancare Innovation Challenge a success. Together, let us continue to push the boundaries of what technology can achieve for the well-being of all.

Contents

Contents

The "जनCARE" Healthcare innovation challenge, a collaborative initiative by BIRAC, nasscom, and nasscom Foundation, in partnership with GCI, aims to discover, design, and scale innovative health-tech solutions from startups to enhance healthcare delivery in India.

The program focuses on identifying affordable Health tech solutions capable of addressing the unmet needs of approximately 65% of the population lacking adequate primary healthcare.

Specifically targeting low-resource settings such as Public Healthcare Centers (PHCs), Community Healthcare Centers (CHCs), and Sub-Centers in rural and semi-urban areas, the challenge offers recognition, financial support, and field validation to Indian innovators striving to address healthcare system challenges.

155
Total Proposals Received

53
Proposals Presented for Jury Round

16
Proposals Recommended by Jury

जनCARE

INNOVATION CHALLENGE

Reimagining the Healthcare Delivery in Low Resource Settings

BIRAC & NASSCOM in collaboration with Grand Challenges India announce Innovation Challenge – JANCare to discover the Innovative Technology Solutions from Indian Innovators to Strengthen Healthcare Delivery in India.

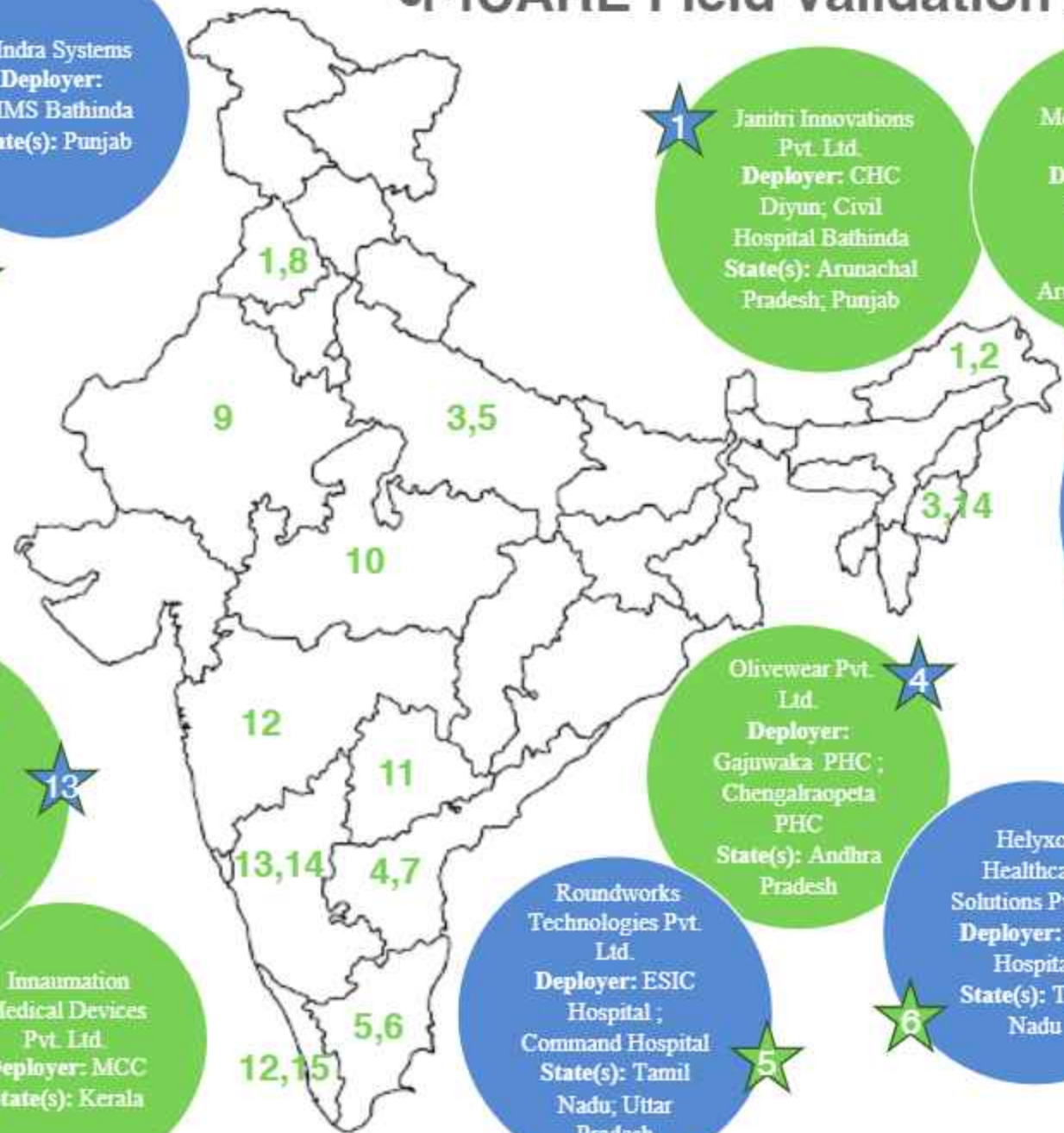
Maternal & Childcare · Cardiovascular · Eyecare · Diabetes · Cancer Care
Chronic Obstructive Pulmonary Disease (COPD) · Other Non Communicable Diseases (NCDs)

INCREASE ACCESSIBILITY | IMPROVE AFFORDABILITY | DELIVER QUALITY | EASY TO DEPLOY

POINT OF CARE DIAGNOSTICS • DIGITAL HEALTH SOLUTIONS • TELE CONSULTATIONS PLATFORM
TELE DIAGNOSTIC SOLUTIONS • TELE RADIOLOGY SOLUTIONS • REMOTE PATIENT MONITORING
OTHER RELATED HEALTHTECH SOLUTIONS

DISCOVER	DESIGN	SCALE
Discover the Best HealthTech Solutions that work in Low Resource Settings	Launch Pilots through Testbeds in collaboration with Government & Industry Partners	Evangelize Successful Pilots to Scale up Digital Adoption levels across the Country

जनCARE Field Validation Across 12 States



1. Janitri Innovations Pvt. Ltd. **Deployer:** CHC Diyun; Civil Hospital Bathinda **State(s):** Arunachal Pradesh; Punjab
2. Arogyam Medisoft Solution Pvt Ltd **Deployer:** CHC Diyun; PHC Kharsang **State(s):** Arunachal Pradesh
3. Sunfox Technologies Pvt Ltd **Deployer:** Wakching CHC; Tobu CHC; Aboi CHC; Tizit PHC; Chen PHC; Phomching PHC; CHC Sahjanwan; CHC Bhathat **State(s):** Nagaland; Uttar Pradesh
4. Olivewear Pvt. Ltd. **Deployer:** Gajuwaka PHC ; Chengalraopeta PHC **State(s):** Andhra Pradesh
5. Roundworks Technologies Pvt. Ltd. **Deployer:** ESIC Hospital ; Command Hospital **State(s):** Tamil Nadu; Uttar Pradesh
6. Helyxon Healthcare Solutions Pvt Ltd **Deployer:** IOG Hospital **State(s):** Tamil Nadu
7. Inventigen Technologies Pvt Ltd **Deployer:** Area Hospital Anakapalli; CHC Yelamanchili; CHC Nakkapalle; PHC Atchutapuram; PHC Kasimkota **State(s):** Andhra Pradesh
8. AIndra Systems **Deployer:** AIIMS Bathinda **State(s):** Punjab
9. Arogya AI **Deployer:** AIIMS Jodhpur **State(s):** Rajasthan
10. Yuvitel Technologies Pvt. Ltd. **Deployer:** Ujjain **State(s):** Madhya Pradesh
11. Avyantra Health Technologies Pvt Ltd **Deployer:** Nilufer Hospital Hyderabad **State(s):** Telengana
12. Giftolexia Solutions Pvt Ltd. **Deployer:** NHM, Maharastra; Palakkad **State(s):** Maharashtra; Kerala
13. Embright Infotech Pvt. Ltd. **Deployer:** Special Education Centre, Bengaluru **State(s):** Karnataka
14. Biodesign Innovation Labs **Deployer:** District Hospital Mon district; C V Raman Nagar Hospital Bangalore **State(s):** Karnataka, Nagaland
15. Innaumation Medical Devices Pvt. Ltd. **Deployer:** MCC **State(s):** Kerala

Deployment Stories

Making a difference on ground

Janitri

Sustainable technology to save lives at birth!

Janitri Innovations Pvt. Ltd.

https://janitri.in/

arun@janitri.in

1

IMPROVED MONITORING DURING PREGNANCY

Wireless Monitoring Device

Mobile based Application

Globally, 2.6 million stillbirths occur every year, accounting for nearly 7,200 stillbirths daily

Mothers and babies are at a greater risk of dying during the intrapartum period, including labor and delivery. Fetal Heart Rate, Uterine Contraction monitoring, and partograph are evidence-based techniques that can help to identify maternal and fetal risk factors so that these can be addressed early.

However, these parameters are monitored inaccurately or ignored due to a lack of manpower and resources in public healthcare facilities leading to intrapartum complications and death.
Most of the deliveries are managed and conducted by staff nurses in low-resource healthcare facilities and lack tools for continuous monitoring and skilled expertise which can lead to a delay in the early detection of intrapartum complications ultimately delaying referral and initiation of treatment.

Janitri caters to

Day-to-Day CHALLENGES of any Labor Room

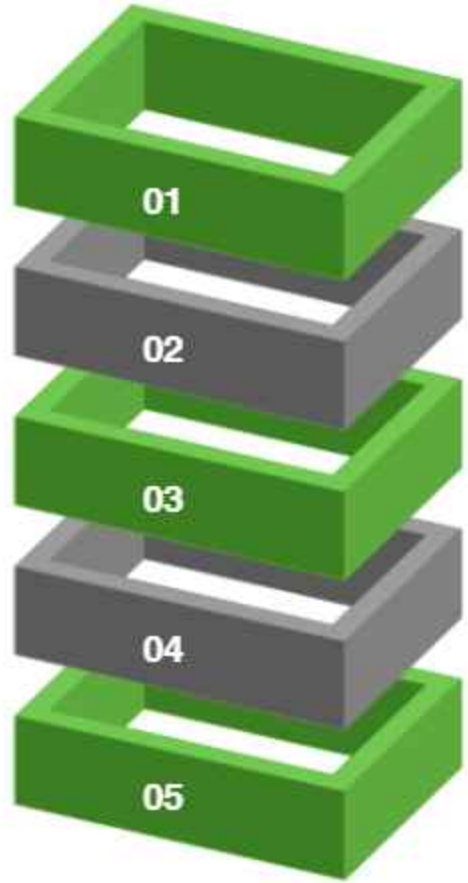
Affordable, Wearable and wireless.

Monitoring intrapartum fetal heart rate, uterine contraction and maternal heart rate

01
Public healthcare facilities are inadequately staffed to manage the high load of patients.

03
Data entry does not trigger a call to action.

05
No remote monitoring, experts are required to be present physically.



02
Manual data entry requires time to maintain multiple labor case sheets and delivery registers. In most cases, these records are filled post-delivery leading to inaccuracy.

04
Long-term continuous monitoring using CTG causes discomfort to the patients.

Making the birth process safer for the Mother & the new life coming into the world

Digitalization of key parameters of delivery monitoring

Doctors can remotely see the data and take early decisions related to patients

Timely & Improved monitoring of vital parameters during intrapartum care Monitoring
Monitors fetal heart rate and uterine contraction in an accurate and timely manner.

Real time data accessibility
Janitri device and mobile application provide a real-time view of the data and easy interpretation of data with timely alerts and remote monitoring.

Availability of digital records
The software tool allows healthcare staff to record delivery-related data digitally and automatically generate the partographs and graphs.

Automated interpretation
The software auto-interprets the reports eliminating human error in interpreting the reports

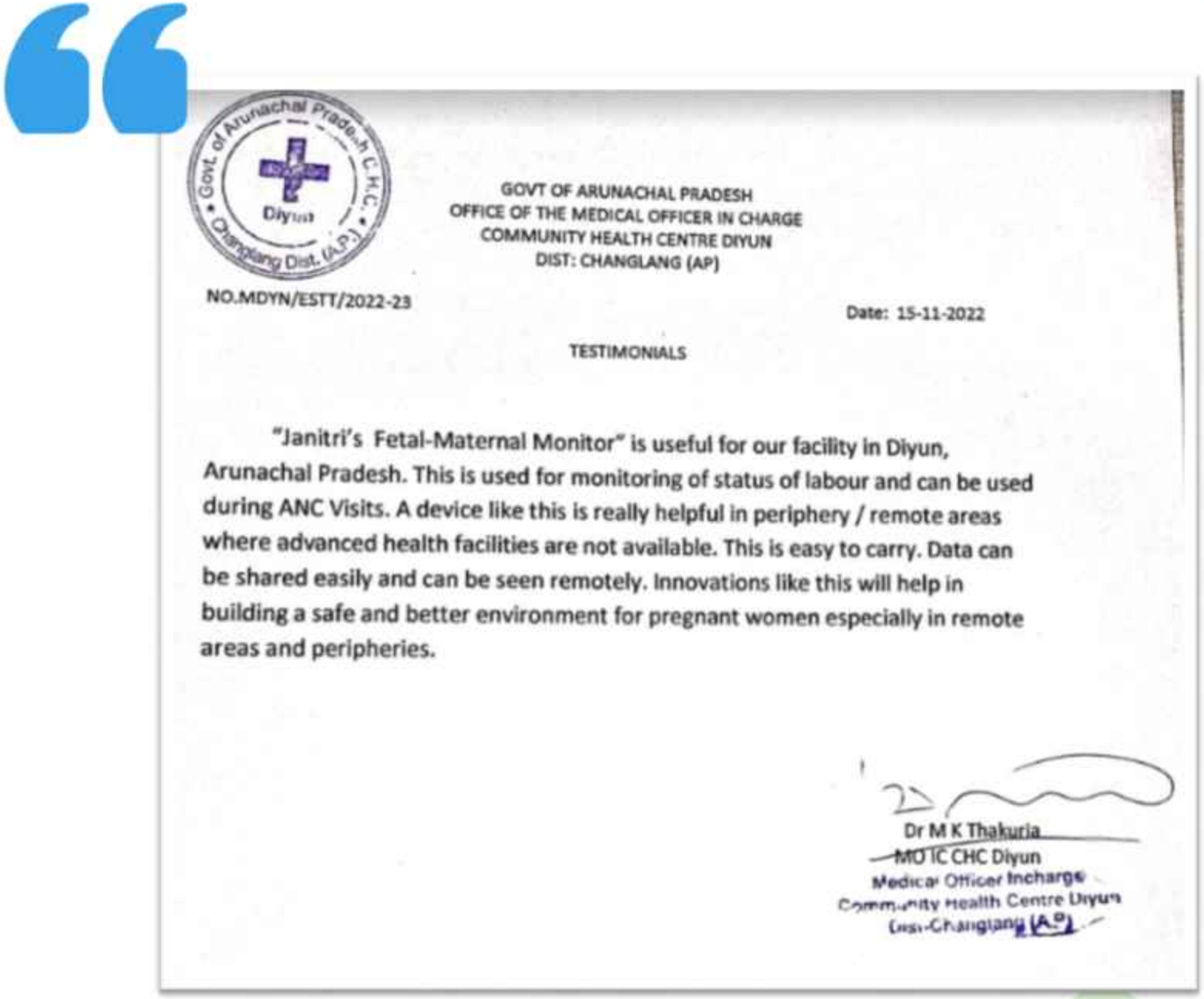
Ease of mobility
The wireless device allows mothers to be mobile before delivery

User friendly
Easy and simple to use for healthcare providers

Progress so far

2 Hospitals	21 Healthcare Workers trained	440+ Pregnant Women monitored	65+ Referrals	158+ Critical Alert Generated	38 Referrals during critical cases

The device is being used by the nurses in Punjab (Bathinda-Civil Hospital) & in Arunachal Pradesh (Changlang). In AIIMS Bathinda, the study is in the data collection phase.



GOVT OF ARUNACHAL PRADESH
OFFICE OF THE MEDICAL OFFICER IN CHARGE
COMMUNITY HEALTH CENTRE DIYUN
DIST: CHANGLANG (AP)

NO.MDYN/ESTT/2022-23

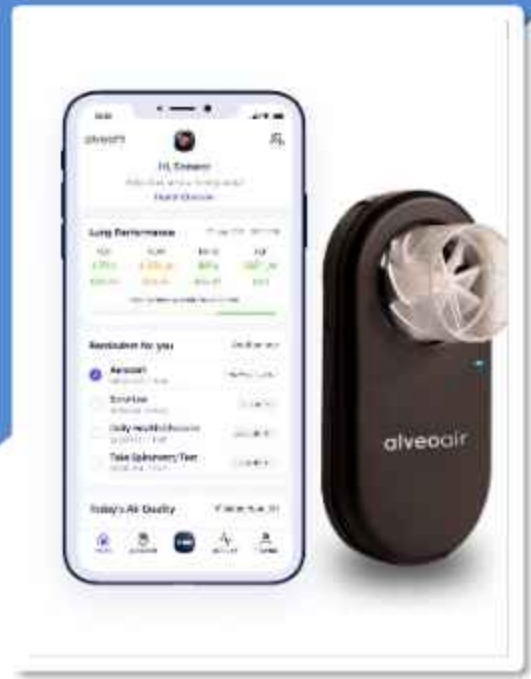
Date: 15-11-2022

TESTIMONIALS

"Janitri's Fetal-Maternal Monitor" is useful for our facility in Diyun, Arunachal Pradesh. This is used for monitoring of status of labour and can be used during ANC Visits. A device like this is really helpful in periphery / remote areas where advanced health facilities are not available. This is easy to carry. Data can be shared easily and can be seen remotely. Innovations like this will help in building a safe and better environment for pregnant women especially in remote areas and peripheries.

Dr M K Thakuria
MO IC CHC Diyun
Medical Officer Incharge
Community Health Centre Diyun
Dist-Changlang (A.P)

2



Alveofit

Digital Respiratory Healthcare

Designed to manage respiratory diseases and help patients to live a symptom-free life.

Roundworks Technologies Pvt. Ltd.

https://www.alveo.fit/

prashant@alveo.fit

State-of-art technology for your doctor to make care decisions based on real-time data and insights and help manage Asthma and COPD more efficiently.

Spirometry, a basic respiratory screening tool being made available in Affordable Accessible Portable manner

- Lung health assistant to manage your lung conditions
- Digitizing pulmonary clinical practice and integration with existing EHR
- Hassle free Software
- US FDA approved
- Compliant with latest ATS/ERS standard
- AL-ML supported technology Quality session

Quality Care

Roundworks Technologies Pvt. Ltd

Impact numbers Since Oct 2021

09

Deployment Locations across Country

20+

Deployment Sites/Facilities

INR 15.5 Lakhs^ (approx.)

Total Testing Cost for Patients

1025

Number of Patients/Beneficiaries

1746

Number of total screenings performed

^ 1025*1000 (Testing costs) + 1025*500 (OPE) = Rs. 15.5 lakhs approx.

In the last 40 years, we have observed that respiratory diseases, particularly respiratory insufficiency, is underdiagnosed. This has been more evident, particularly when we were treating stage 3 COVID-19 patient. Alveofit, it is one equipment, very small, handy, computerized, it can be attached to the computer and recent gadgets, can be taken over to the email, all data can be subjected, can be used at very specificity and selectivity, because there are more than 20 parameters by which we can judge and add the therapeutics in a large and oral drugs in a proper fashion in a calculated dose.

Dr Dilip Patil,

Hod medicine,
ACPM Medical college,
Duhle, Maharashtra

3

Arogyam Medisoft Solution Pvt. Ltd.

A Remote Health Monitoring System

30% of the population still needs to travel 20 km to access any healthcare facility, incurring additional expense, which is equivalent to earning of a day, for a single such visit.

https://arogyammedisoft.com/ partha.chakraborty@arogyammedisoft.com

Components

- IoT device and reagents, testing 25 parameters of blood and urine
- Real time advice in Indian languages
- Stores information (patient details / test results / prescription) on remote cloud that is accessible whenever required
- Video call, patient registration, ePrescription
- Connected devices – weighing machine, thermometer, blood pressure monitor, digital stethoscope and ECG

HaemurEx: A clinical chemistry analyzer

Integrated with a multifaceted telehealth portal

Has an ability of transmitting the information to the remote server

Developed on patented technology patent granted by Indian Patent Office and is registered at CDSCO

Manufactured in the NSIC certified manufacturing facility at Kolkata

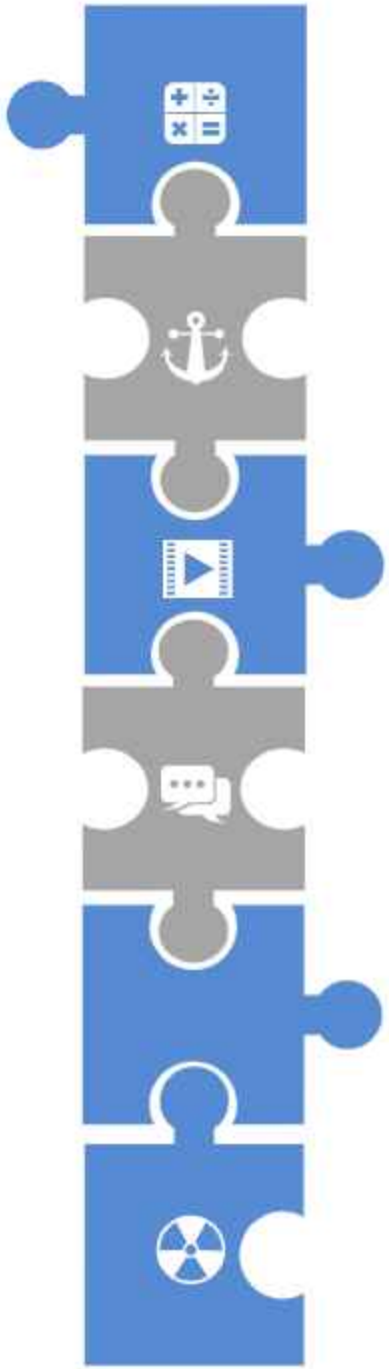
ISO 9001 Certified

ISO 13485 Certified

ICMED 13485 Certified

Arogyam Telehealth platform integrates with devices like ECG, Stethoscope, Vitals, Spirometry and does secure telemedicine clinics, remote check-ups, e-prescriptions, electronic record keeping and Clinic management.

Impact under जनCARE
648 Patients



01 Ensuring universal, affordable & accessible healthcare in the state of Arunachal. Focusing on preventive health and wellness; thus reducing pressure on hospitals

02 Continuing health care provisioning even during the Covid-19 pandemic through the Arogyam Tele Health Portal

03 Provisioning of necessary medicines at the CHCs and PHCs based on the data analysis of diseases prevalence

04 The HaemurEx and Arogyam Tele Health system was used in Sarkar Aapke Dwar, Ayusman Bharat Clinic, Community Health Centres and Drug Deaddiction Clinic where 10% of the population got served by the system. 1750+ patients are served

05 14 doctors got associated with the Arogyam Telehealth and HaemurEx system. A total 48% of patients have taken advantage of Arogyam Telehealth Program where they have been treated by doctors for a broad range of non-communicable diseases through telemedicine.

06 District administration could also manage the availability of top medicinal requirement in the remote health centers. The intelligence thus generated on prevalence of disease helped the district administration to mobilize right interventions

Deployment Sites

Vijaynagar, a remote village of approx. 1800 people, in Changlang district of Arunachal Pradesh, separated from mainland India is yet to be connected by motorable road or national power grid due to environmental and logistics issue. Despite these challenges, HaemurEx got the blood tests of villagers for disease identification with was carried in a backpack powered by internal battery.

The inmates of De-Addiction Centre in Lewang got their health check up and medical advice through Arunachal Arogya Clinic setup at adjoining Health Sub Centre in Lewang

Ayushman Bharat Clinics Conducted by using HaemurEx

Dr Devansh Yadav

The Deputy Commissioner of Changlang District, Arunachal, appreciated Arogyam for the successful deployment of HaemurEx and Arogyam Tele Health Platfrom.

Elaborates on the health problems in Arunachal and the uses of Arogyam Telemedicine platform in the Civil Society.

https://www.civilsocietyonline.com/governance/a-young-doctor-as-dc-sizes-up-changlang/

Telemedicine facilities have been provided at three centres after roping in and getting a start-up in IIT Kanpur to help with a solution.

GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DEPUTY COMMISSIONER
CHANGLANG DISTRICT :: CHANGLANG

No. C/DEV/MED/2021 Dated Changlang the 30th June 2021

TO WHOM IT MAY CONCERN

Arunachal Arogya Clinic is being operated by district health department of Changlang, Arunachal Pradesh since November 2020 enabled by technology support from M/s Arogyam Medisoft Solution Pvt. Ltd.

The network of health centers can now provide doctor consultation remotely to patients, aided by health workers, based on health data collected for the purpose by connected Arogyam Health telemedicine platform and lightweight, battery operated blood and urine analyser – HaemurEx.

The heath sub centers are now able to provide additional services as follows:

a. Doctor consultation with physicians at CHCs and even specialist's consultation from other parts of India and abroad.
b. Blood analysis for Cholesterol, Bilirubin, Creatinine, Glucose and Haemoglobin enabling assessment of health of vital organs
c. Measurement of temperature, blood pressure, oxygen level and weight
d. Measurement of ECG
e. Recording auscultation of heart and lungs

The clinics are now serving 12 villages from 5 locations in 3 circles of Changlang with a population of approximately 3000. It is served by 14 doctors across the country (mostly AIIMS Delhi graduates) and operated by local ANMs and ASHAA workers.

In six months since operational the clinics provided treatment to 172 patients (47 male, 125 female) within a age group ranging from less than 1 year to 84 year.

We are happy with the continuous technical support from M/s Arogyam Medisoft team. With Arogyam Health and HaemurEx – blood and urine analyser, the district health team, can now provide physician consultation to people at many remote locations within the district. The model can be adopted in other parts of the country for reaching healthcare to remote locations.

(Dr. Devansh Yadav) IAS
Deputy Commissioner,
Changlang District,
Changlang.

Deputy Commissioner
Changlang District
Changlang (A.P.)

4

Avyantra Health Technologies Pvt. Ltd.

PreSco – AI/ML based platform for Neonatal Sepsis Detection

https://www.avyantra.com/

avyantra@gmail.com

PreSco, Non-Invasive **Pre**dictive **Sco**ring Application, provides a Rapid risk assessment of babies

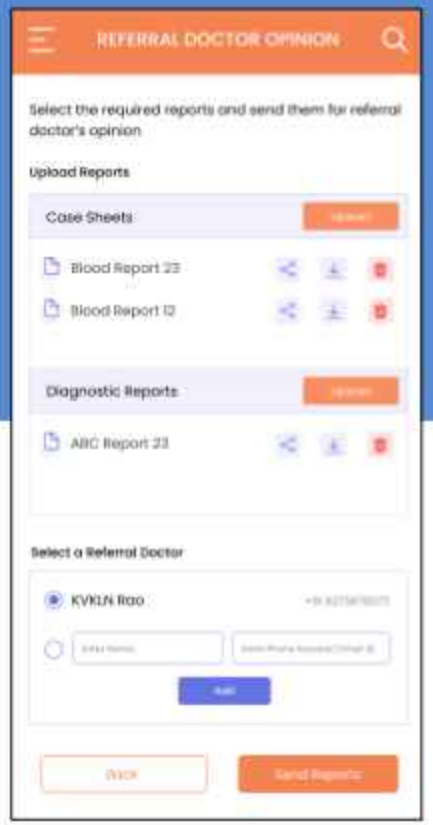
Neonatal Sepsis is a complicated medical condition which cannot be diagnosed by one or two clinical parameters. Newborns within 0 - 28 days and infants within 1 year are extremely vulnerable to infections. The criticality of their survival in the first year is such that, if they are able to successfully cross their first year, their likelihood to survive the next four years, and also the years after, gets higher.

India accounts for close to 40% of newborn deaths. In low income and low resource countries such as India, where neonatal mortality rates (NMR) is as high as 24, neonatal sepsis along with antibiotic resistance is a leading cause of neonatal mortality. Also, rural NMR is two times that of urban NMR. Additionally, more than 50% districts are not expected to meet the SDG 2030 NMR target of 12.

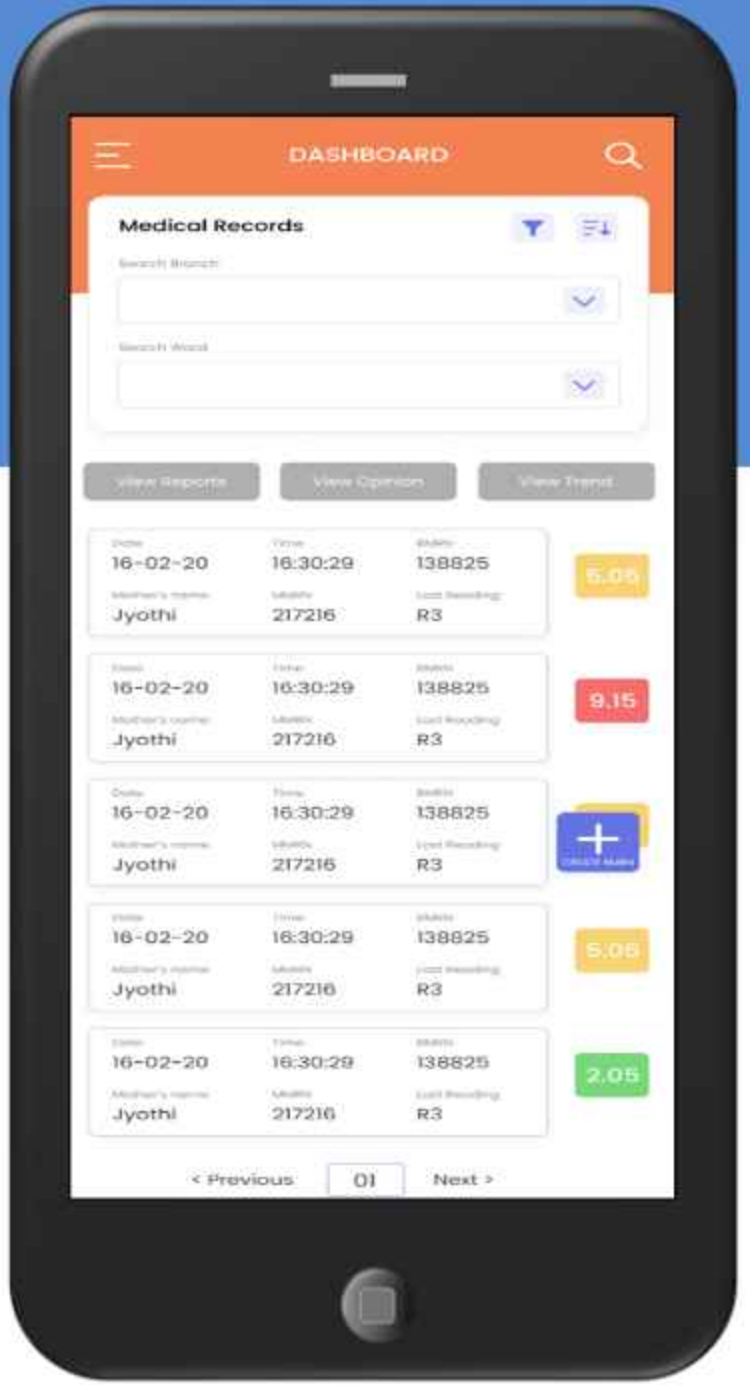
PreSco Platform

Data Entry

Score Trend



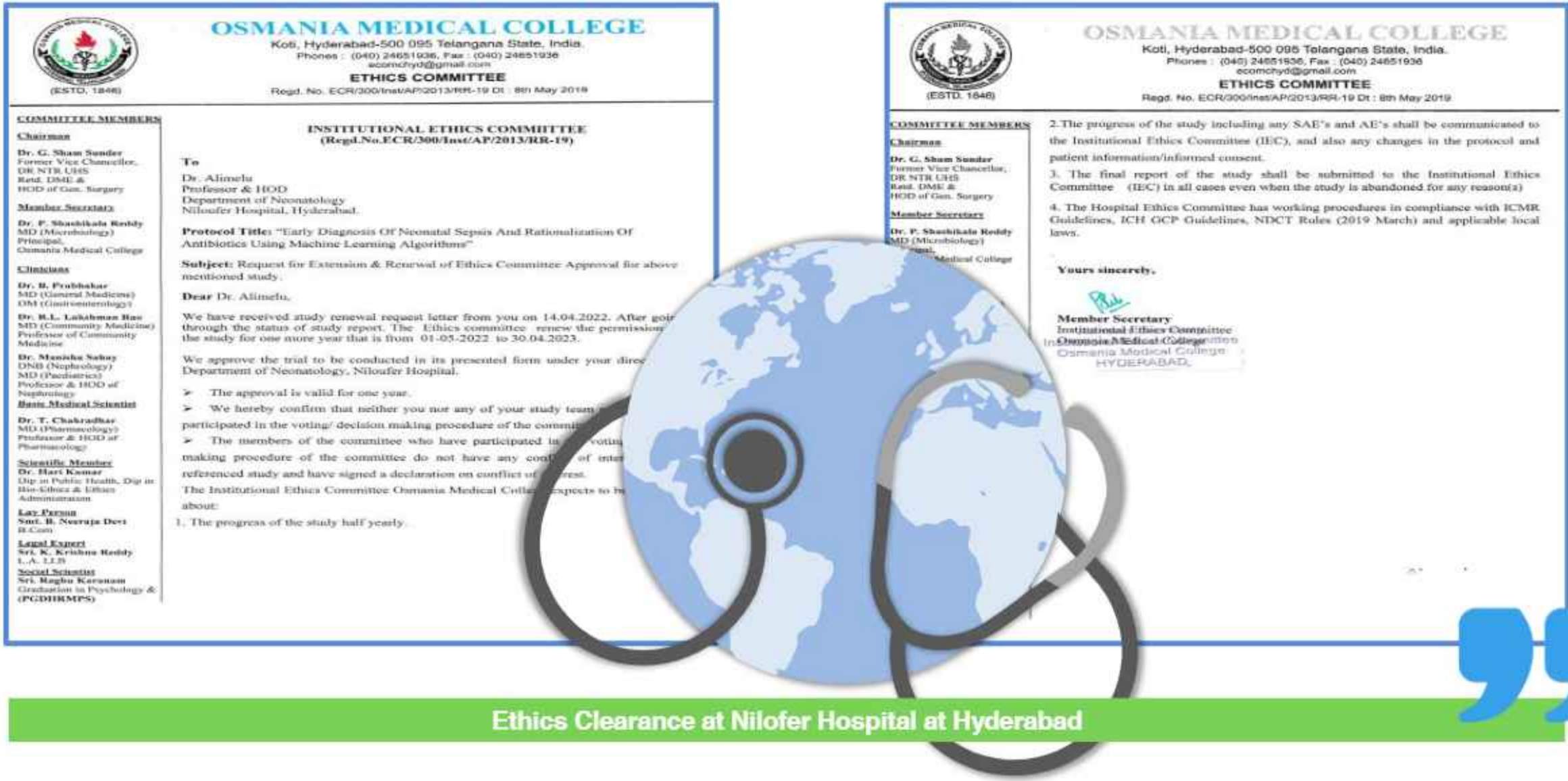
Referal Doctor Opinion



Impact under जनCARE
285 Patients

Proactive treatment of Neonates without the need for waiting for Blood culture test result

Reduction in Hospital expenses for Testing



OSMANIA MEDICAL COLLEGE
Koti, Hyderabad-500 095 Telangana State, India.
Phones : (040) 24651936, Fax : (040) 24651936
ecomchyd@gmail.com
ETHICS COMMITTEE
Regd. No. ECR/300/Inst/AP/2013/RR-19 Dt : 8th May 2019

(ESTD. 1846)

COMMITTEE MEMBERS

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Dr. G. Sham Sunder
Former Vice Chancellor, DR NTR UHS
Retd. DME & HOD of Gen. Surgery

Member Secretary
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Principal,
Osmania Medical College

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Lay Person
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L.A. LLB

Social Scientist
Sri. Raghu Karanam
Graduation in Psychology & (PGDHRMPS)

INSTITUTIONAL ETHICS COMMITTEE
(Regd.No.ECR/300/Inst/AP/2013/RR-19)

To
Dr. Alimelu
Professor & HOD
Department of Neonatology
Niloufer Hospital, Hyderabad.

Protocol Title: "Early Diagnosis Of Neonatal Sepsis And Rationalization Of Antibiotics Using Machine Learning Algorithms"

Subject: Request for Extension & Renewal of Ethics Committee Approval for above mentioned study.

Dear Dr. Alimelu,

We have received study renewal request letter from you on 14.04.2022. After going through the status of study report. The Ethics committee renew the permission for the study for one more year that is from 01-05-2022 to 30.04.2023.

We approve the trial to be conducted in its presented form under your direction in Department of Neonatology, Niloufer Hospital.

- The approval is valid for one year.
- We hereby confirm that neither you nor any of your study team members participated in the voting/ decision making procedure of the committee.
- The members of the committee who have participated in the voting decision making procedure of the committee do not have any conflict of interest in the referenced study and have signed a declaration on conflict of interest.

The Institutional Ethics Committee Osmania Medical College expects to be informed about:

1. The progress of the study half yearly.
2. The progress of the study including any SAE's and AE's shall be communicated to the Institutional Ethics Committee (IEC), and also any changes in the protocol and patient information/informed consent.
3. The final report of the study shall be submitted to the Institutional Ethics Committee (IEC) in all cases even when the study is abandoned for any reason(s)
4. The Hospital Ethics Committee has working procedures in compliance with ICMR Guidelines, ICH GCP Guidelines, NDCT Rules (2019 March) and applicable local laws.

Yours sincerely,

Member Secretary
Institutional Ethics Committee
Osmania Medical College
HYDERABAD.

Ethics Clearance at Nilofer Hospital at Hyderabad

Achieved under जनCARE Challenge

5

RespirAID

Life-Saving Portable Ventilator for Emergency care

Biodesign Innovation Labs

https://biodesigninnovationlabs.com/

gautham.heal@gmail.com

Biodesign Innovation Labs

RespirAID R20

A Mechanical Ventilation device, designed to deliver Intermittent Positive Pressure Ventilation (IPPV) by mechanically compressing the Ambu bag, and essentially automating the process of manual bagging.

A safe mechanical ventilation device that provides positive pressure ventilation with automation of self-inflating bags.

RespirAID provides volume-controlled ventilation in patients in ER, Ambulance, Post-operative anesthesia care and ICU. It can be used in transporting patients from a tier 2 hospital or clinic not equipped with ventilators and infrastructure to manage ARDS patients to hospitals with infrastructure, and in emergency wards for stabilization of patients before shifting of patients to a high end ventilator or until a high end ventilators are available in the event of shortage of ventilators.

RespirAid, a portable ventilator assists in the primary function of **Acute respiratory distress syndrome (ARDS)** patient management.

01

Simple Design, Easy to Understand & Use

Doctors find RespirAID R20 easy to use device with minimum navigation.

02

Cost Efficient & Reduces Treatment Cost

Being a life saving emergency care device, it can provide positive outcomes in hospitals to handle high trauma & post operative care cases at affordable prices.

03

Portable & Better Performance

Being portable it can be used easily in transferring patients within the hospital also provides better performance during post operative care.

04

Provides Low Lung Compliance

The set values and delivered values of the parameters were found to be satisfactory. With Real-time display of Breath Rate; Tidal Volume; Inspiratory / expiratory ratio & Peak Inspiratory Pressure, the device allows the operators to make quick decisions.

Impact under जनCARE

- 30 Patients
- 2 District Hospitals

OFFICE OF THE MEDICAL SUPERINDENDENT
DISTRICT HOSPITAL MON
MON NAGALAND

Dated Mon the 6th January 2022

ACKNOWLEDGEMENT

This is to certify that **Bio Design Innovation Lab** has installed RespirAid R20 in the District Hospital Mon Nagaland on 6th January 2022. The demonstration has been given to the staffs satisfactorily by Er.Rinto Kurian.

(DR.C.Longe Peter)
For Medical Superintendent
District Hospital Mon

Medical Officer
District Hospital
Mon : Nagaland

SIR C V RAMAN GENERAL HOSPITAL
80Ft Road Indiranagara, Bengaluru - 560 038
Phone: 080-25281245 e-mail: [illegible]

Date: 18/01/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that equipment **"Respir AID R20"** Portable ventilator has been deployed in Major OT, Sir C V Raman General Hospital, Indiranagara, Bengaluru – 560 036. The equipment has been demonstrated successfully to the concern Department by the engineers of Biodesign Innovation Labs & it has been used in the Major OT & ICU successfully as a Transport Ventilator. All the tidal volume and rate delivered Satisfactorily.

"Respir AID R20" ventilators are easy to use and understand. Compact design makes it easy to use in less spaces. We wish Great Success in their endeavors.

Thanking You

Anaesthesiologist
Sir C V Raman General Hospital
Indiranagara, Bengaluru – 38

Medical Superintendent 18/1/23
Sir C V Raman General Hospital
Indiranagara, Bengaluru – 38

I'm the Deputy Commissioner of Mon District of Nagaland. We've been working with NASSCOM as part of the Jan Care Innovation Challenge since the early part of 2021. We've deployed a few innovations that have been developed as part of this innovation challenge. There's a medical device startup based out of Bangalore which goes by the name **Biodesign Innovation Labs**. They've developed a low-cost portable mechanical ventilator which can be served as an alternative to manual ventilation called **RespirAid.** We have deployed one such ventilator at the district hospital. It's low cost. It's easy to use and it can be used as a transport ventilator as well.

So, we've been using it for quite sometime and we've found it useful, and it's served the doctors of the district hospital very well.

These innovations have significantly benefited our Department of Health and Family Welfare and our dedicated medical personnel. We eagerly look forward to continued collaboration with NASSCOM in the years ahead.

Thank you for making a positive impact on the healthcare of Mon District.

Thavaseelan K, IAS

Deputy Commissioner of Mon District,
Nagaland

6

Giftolexia Solutions Pvt. Ltd.

India's first technology enabled Gaze Pattern Based Screening Solution for Early Risk Identification for Dyslexia and other Specific Learning Disabilities (LD) in children

https://www.giftolexia.com/

teena@giftolexia.com

GIFTOLEXIA Reduces Screening Age to 7-8 years Versus Current 12-13 years

and screen students in primary school, substantially increasing their chances for academic success and reduced school dropout rate.

In India, about **10 to 15%** of children of school going age struggle with Learning Disabilities, which makes it difficult for them to learn in the traditional way.

Early identification and intervention are very crucial for the success of these children. Lack of awareness among parents and teachers especially in rural areas lead to these children being classified as dumb or lazy. This leads to school dropouts and leading an unproductive adult life. These children if identified early and given the right intervention support can become great contributors to society.

With predictive modelling and Machine Learning Algorithms we determine whether a student is at risk at an early age.

Reading Test

Each student read a few sentences on an IOT enabled smart screen while his or her eye movements are recorded using an eye-tracking device.

Analysis

The eye movement data is analysed using data & ML models that has been developed, trained and evaluated.

Results

Generates a report of individual risk levels with recommendations for each category.

Three Stage Completely Digital Process

The direct relationship between eye movement patterns and cognition is well established in research.

Impact under जनCARE
350 Children Screened

Identifies all children who are in the risk zone, so that they can get the support they need as early as possible.

Starting interventions as early as possible, not only benefits the individual child, but it has also been shown that early interventions are more cost-effective than later ones.

The method not only identifies children in the risk zone, but also identifies those children who are not at risk. This avoids unnecessary assessments, so that time and resources can be used where they are needed most

Video Reviews

Principal

Headmaster

Class Teacher 3A, 3B, 3C & 2 Reviews

Adv. E. KRISHNADAS
Deputy Chairman
Ward : 13, Puthur North
Palakkad Municipality

D-9, Lakshmi Kripa,
Koppam, Palakkad - 678 001
Ph : 9447315567
E-mail : advkds@gmail.com

Date 1/1/2021

To

Giftolexia Solutions (P) Ltd.,
HSR Layout,
Bangalore.

Sub: Screening of students to assess risk of Learning Disability in Palakkad Municipality, Kerala.

Sir/Madam,

It was indeed a privilege for Palakkad Municipality to associate with your esteemed organisation in this noble programme to screen students to assess their risk of learning disability.

The screening programme has created better awareness about the compensating advantages of children with learning disabilities. The Headmaster of the Puthur GUP School where the programme was held has spoken highly of the screening process and has particularly mentioned that the individual student risk and fluency reports were very useful for the school to plan remedial measures.

We hereby convey our special thanks to Smt.Teena Paul for personally overseeing the screening at the school and we will be ever grateful for the hard work and dedication to make this project a success.

We wholeheartedly thank you for choosing Palakkad Municipality for this project with the support of NASSCOM Foundation.

Thanking You,

Yours Sincerely,

Adv.E.Krishnadas
അഡ്വ. ഇ. കൃഷ്ണദാസ്
വൈസ് ചെയർമാൻ
പാലക്കാട് നഗരസഭ

ജി. യു. പി. സ്കൂൾ, പുതൂർ
പാലക്കാട്

☎ 0491-2530454

To,

Giftolexia Solutions Private Limited
HSR Layout, Bangalore

Subject: Project Completion_Screening our students in classes 2, 3 and 4 to assess risk of Learning Disability in Students

Dear Giftolexia,

I, Sasi Kumar V P, the Headmaster of Government U P School, Puthur, am glad to write this letter. I want to thank Giftolexia for screening all the students in classes 2, 3 and 4 of our school.

It was a privilege for the school to be chosen by the municipality for the above project. After a grand inauguration presided over by the Deputy Municipal Chairperson and the Head of the Parent Teacher Association of the school and other dignitaries,Teena Paul spoke about the importance of early screening and a brief about her company and the screening that they were going to conduct in the next few days.

A classroom was allotted to them to carry out the screening, they set up two screening stations and two people were from Giftolexia were at each station. Teena Paul was personally overseeing the screening of students.

We are happy that all the students present in the school in classes 2, 3 and 4 were screened by them. They have also provided a detailed report on risk level of each student, and an overview for each class.This will help us to take necessary steps to support these children. The class-wise fluency report will help us to focus on the struggling readers in each class. This is highly beneficial to us.

Giftolexia's services have been appreciated by the teachers. The entire process of screening, the ease of screening students, and the fact that each student was given ample time to complete reading were specially mentioned by the teachers. They also felt the screening has created a better sense of awareness in them about learning disabilities in school children. The students also found the screening to be a fun exercise and were excited to be screened.

It would not have been easy for the school to carry out screening of all the students as mandated by the RPWD Act and upheld by the National Education Policy (NEP).

We look forward to the teacher training sessions and further support from Giftolexia. We are grateful for your hard work and dedication to making this critical project a great success.

Thank you once again for all your contributions.

With deep appreciation for your efforts,

7

Savemom

Preventing Maternal Deaths

Olivewear Pvt. Ltd.

A one touch digital device, AlloTricorder, having combined 3 basic standard medical tools like thermometer, Pulse Oximeter and sphygmomanometer, provides customized Solutions for Pregnant women.

https://www.jiovio.com/

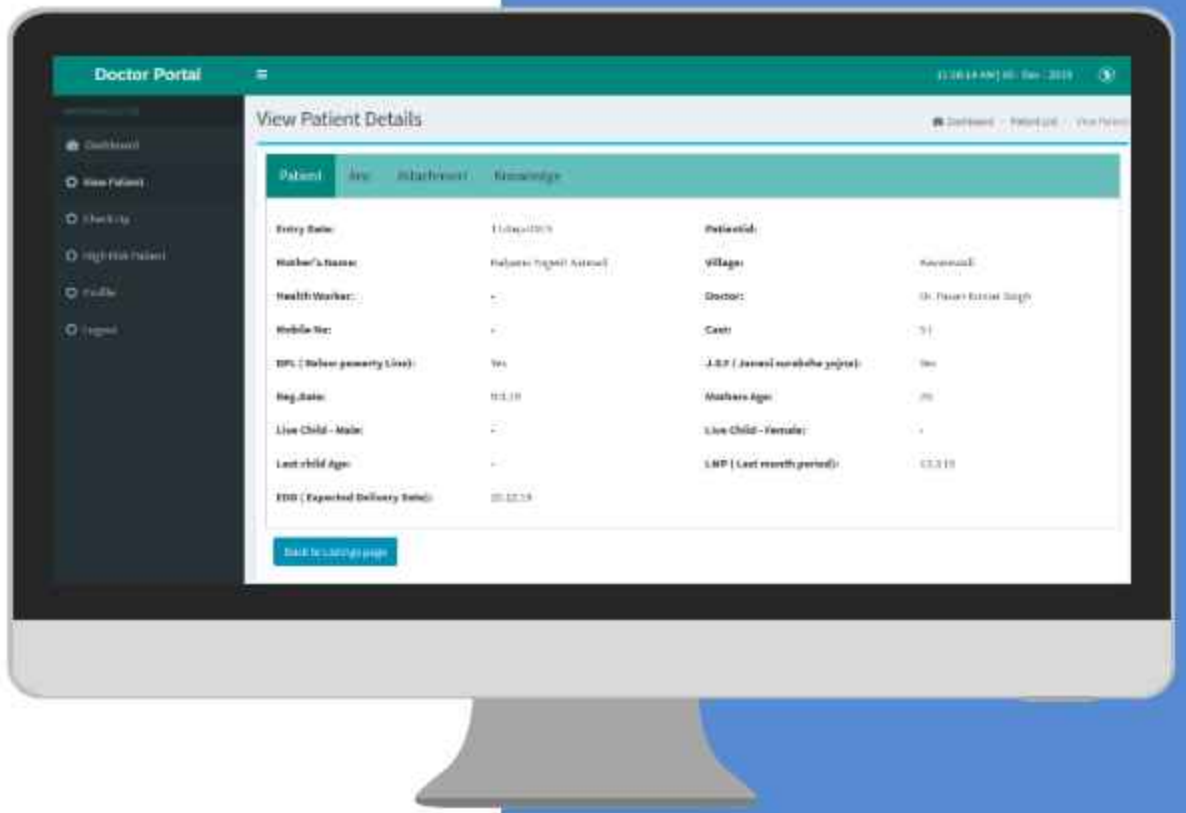
senthilm@jiovio.com

99% accurate

Automatic recording of vitals & integration with EHR

Integrated with E-Sanjeevini

Easy to use & Less time consuming, hence more check- ups.



Users' opinion

This app works better than many other apps as it is easier to fill in the data of patients. When the details of the patient is recorded manually it may be lost or misplaced. It is easy to fill in and find the data, especially because the data is linked with the hospitals so that when a mother is at risk it is easily identifiable, and the user(s) was certain that using the app will at least reduce the maternal deaths.

Tamil Nadu Health Minister, Ma. Subramanian launching application.

Impact under जनCARE
6000 Patients Screened
2 Primary Health Care Centers

JioVio healthcare is Been Declared as winner in Maharashtra State Innovation Society Startup week 2022 and was Honoured by Maharashtra Deputy Chief Minister Devendra Fadnavis . Bhagat singh koshyari Ji , Governor o Maharashtra and Our Mentor And Advisor Dr .R A Mashelkar

1500000 INR is been awarded as Work order to implemer the Project Savemom in Maharashtra

On this time we would like to Thank all our investor and supporter's riidl Biotechnology Industry Research Assistance Council (BIRAC) DERBI Foundation

#innovation #healthcare #research #Madurai

AAICare™

Combats Antimicrobial Resistance

AarogyaAI Innovations Pvt. Ltd.

https://aarogya.ai/

avlokita@aarogya.ai

AAICARE™-TB, an AI based tool, rapidly diagnose drug sensitivity to MDR-TB

thereby providing an effective method to tackle this unmet and urgent clinical need.

Current Scenario

India has the highest number of tuberculosis (TB) cases and accounts for one-third of the total disease burden, 2.6 million out of 10 million reported cases globally, per annum. The emergence of drug resistance has further exacerbated this threat. As India aims to eliminate TB by 2025, a timely diagnosis of drug resistance is required for reaching this goal as delays result in the further spread of the resistant isolates.

At present, a comprehensive culture-based liquid drug susceptibility test (DST) takes 4-6 weeks and may not identify resistance in strains that do not show significantly heightened drug minimum inhibitory concentrations (MICs). Other techniques such as Xpert MTB/RIF or the indigenously developed True Nat assay utilize specific primer pairs to detect mutations conferring drug resistance but are limited to only Rifampicin resistance.

01

Ease of Use

The software features a simple drag and drop interface and an automated bioinformatics pipeline which will ensure uniform processing irrespective of the technical expertise of the end-user.

02

Reduced TAT

Currently, the diagnostic algorithm according to NTEP (National TB Elimination Programme), uses a combination of LPAs and phenotypic testing to identify resistance which may take 2 months to generate. AarogyaAI® Rapid Tuberculosis Drug Sensitivity Test would reduce this time to 2 days.

03

Culture-free approach

The higher time taken for diagnosis by traditional phenotypic DST is owing to the slow growth rate of Mycobacterium tuberculosis in culture media, thus removing the culture step can reduce the total time taken for the process.

04

Scalable to other Diseases

The pipeline can be easily modified to include other infectious diseases as well as simultaneous detection of co-infections.

Impact under जनCARE
500 Samples Extracted

The incorporation of bioinformatic and AI/ML-driven analysis of Whole Genome Sequencing data into the management of Tuberculosis (TB) holds great promise in swiftly and accurately identifying Antimicrobial Resistance (AMR), facilitating personalized treatment, and enhancing patient outcomes.

AarogyaAI® has developed an advanced NGS-based platform, powered by AI/ML, which can comprehensively analyze the entire genome of the TB bacterium. This platform not only provides precise identification of pathogens in the patient sample, shedding light on co-infections and distinguishing between Mycobacterium and NTM species but also generates a patient-specific, comprehensive drug susceptibility report. By identifying various strains and genetic mutations associated with drug resistance, AarogyaAI® empowers clinicians to initiate the most effective treatment regimen from the outset, mitigating the risk of resistance development, elevating patient outcomes, and reducing the chances of treatment failure.

Furthermore, this system offers continuous monitoring for emerging resistance mutations, contributing to real-time surveillance that proves invaluable in the ongoing battle against TB. This capability allows public health authorities to swiftly adapt treatment protocols and containment strategies in response to evolving resistance patterns.

The future of TB care is intrinsically linked to the seamless integration of these technologies at the point of care. This integration aligns with our overarching goal of eradicating TB altogether. As Next-Generation Sequencing (NGS) becomes increasingly integrated into the healthcare system, the implementation of AarogyaAI®'s solution at the point of care stands to revolutionize the landscape of TB treatment. It has the potential to offer rapid, AI-driven guidance on the most suitable treatment for individual patients, thereby enhancing the efficiency and effectiveness of TB care.

Dr. Naveen Dutt,
Professor and Head,
Department of Pulmonary Medicine, AIIMS Jodhpur

9

Helyxon Healthcare Solutions Pvt. Ltd.

EPICare: Remote Maternal & New-Born Care thru Affordable Technology

https://helyxon.com

vijai@helyxon.com

India has one of the highest numbers in Infant Mortality Rate (IMR). 32 out of 1,000 die without seeing their first birthday.

Normally, the babies at NICU are dependent on in-house facility monitoring system and intervention can happen if health workers are within or around the ward.

The core objective is to set up a Remote Monitoring System at NICU for continuous real-time monitoring incorporated with an Alert escalation Protocol. This advanced system can help track the data as well as send out alerts to health workers, wherever they are, to intervene, in case of any threshold breach to pre-set limits.


01
Early detection
Through Patient engagement & IOT devices.
02
Timely Stakeholder Escalation
Auto alert escalation & tracking the discontinuity of monitoring / Patient response to messages
03
Addressing the patient Anxiety
Through 24/7 Call centre for guiding the patient at the distress situations
04
Providing Critical Info to Patient
Protocol based personalised periodic messages of various types, to inform, remind, alert or educate patients.
05
Consolidated Reports
Live performance & progress dashboard for the policy makers

Impact under जनCARE
71 Neonatal' s Monitored(1 Gov Hospital)

01

Reliable Quality of Care

- Dr's confidence increased through availability of Patient Profile, Complaint & symptoms, Live trends of various parameters & Live Video / Voice based consultation. All in one screen.
- Medical Grade IOT Devices (Validation Papers Published)- OXY-2 (measures vital parameters), GroFi devices (infant's height, weight and head circumference) and Fever Watch (tracks temperature)

02

Accessibility to both Patient & Provider

- Multi-channel accessibility reduces the friction. IVRS, Call center, connect with Village care providers, ability to do consultation with Dr (Chat / Voice / Video), leaves patient with less choice to dropout.
- Effective Remote monitoring of risk patients through vitals (Infant & Women) and growth trends (infants)
- Empowering mothers by providing an APP in their hand, helps them to reach out to care providers, reduces their anxiety.

03

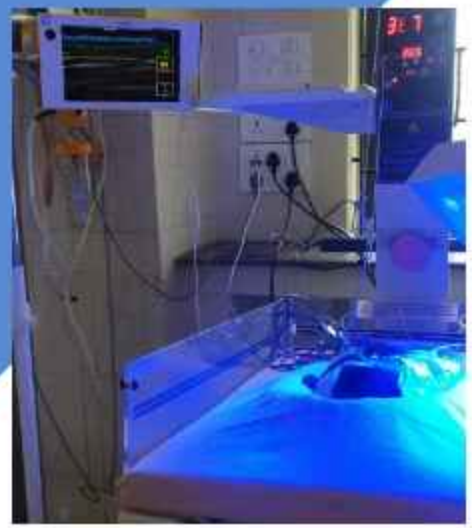
Affordability to Patient

- Reduction in number of hospital travel is a huge saving, even to avail a free in-person consultation.
- Periodic Engagement messages & live monitoring, Improves the patient awareness / participation thus early intervention and better clinical outcomes.

04

Easy Implementation

- Majority of the patients are acquainted with mobile phone technology and access to internet.
- No special training required since all the devices and APPs are user friendly and easy to use.




36.7
365
134
32
92

Remote monitoring is an essential, innovative, and futuristic healthcare intervention in neonatal intensive care units. More so in public health settings and large hospitals where the nurse
patient ratio is not optimal at present.

We have been experimenting with this healthcare intervention (with support from helxyon through this project) for more than a year now.

The Device is both compact and precise. The alarms generated are valid and comparable to standard state of the art monitoring systems. Several abnormal vital parameters
have been picked up and reported to the health worker in charge. This has resulted in timely clinical interventions and achieving optimal stabilization of babies.

We continue to work with and evaluate these systems. One of our DM fellows is running a project to objectively measure the efficacy and impact of this system on the outcome of sick babies.
The project is ongoing, and we shall be happy to share the results soon.

Dr. Mangalabharathi,
Head of
Neonatologists

Institute of Obstetrics and Gynaecology and Government Hospital for Women and Children (IOG Hospital), Chennai, Tamil Nadu

Yuvitel Technologies Pvt. Ltd.

Providing affordable healthcare services to India's most remote rural areas, where doctors are scarce

Building a resilient system and method to bridge the health service barriers, and be prepared for any upcoming pandemic

https://uvtechindia.in/

yuviteltechnologies@gmail.com

Only 70% of medical facilities serve 30% of the population in urban areas, while 30% of medical facilities serve 70% of the population in rural areas.

Telemedicine system was installed at a government hospital (Samudaik Kendra), where doctors had been unavailable for over a year due to the extreme rurality of the area and the technicians were trained.

Technicians take BP, ECG, Spo2, temperature, and other useful investigations with the help of our kit.

Data transferred to doctors

Doctors available virtually for a video-audio consultation with the patient and provide a prescription.

Government Testimonials & Letters of appreciation from deployment sites

MLA visit to one of the deployment sites

Innovation Showcase at one of BIRAC's events

PM visit the startup showcase at BIRAC event

शासकीय अस्पताल में पायलट प्रोजेक्ट के तहत मिलेगी मरीजों को सुविधाएं

खाचरौद के शासकीय अस्पताल में दिया जाएगा ऑनलाइन परामर्श

पायलट प्रोजेक्ट अंतर्गत प्रदेश में खाचरौद का चयन

Demo to Madhya Pradesh MSME minster and Indore Sansad

Impact under जनCARE 122 Patients

I had served several months at Madhavada Centre. And I would like to share my experience with all. With the help of Yuvitel technology solution, we used to get the vitals of the patient online. Post that, we used to chat with the patient through video call and prescribe the treatment to them.

The benefit of this technology was that our time and travel was saved. Our reach in rural areas was also improved.

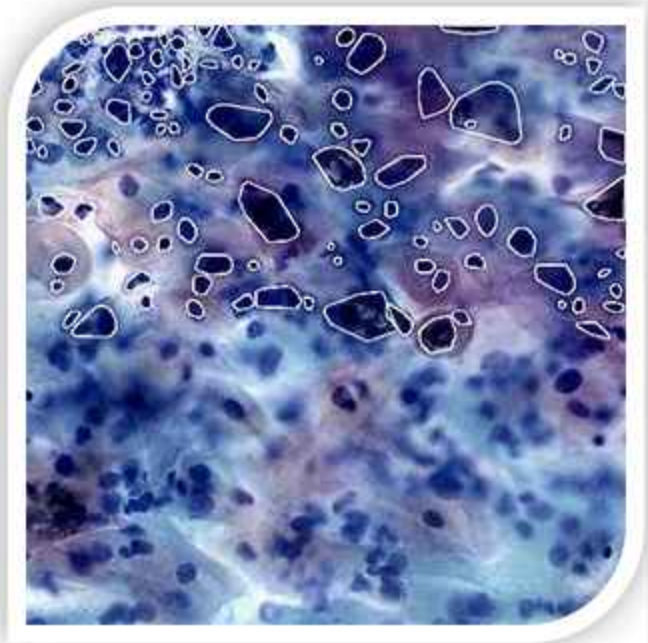
All this was possible because of the Yuvitel technologies. I would like to extend my sincere appreciation to them.

Dr. Rinku Rathore
MBBS

CervAstra

AIndra Systems

A Computational Pathology based, affordable system for the detection of Cervical Cancer.



https://www.aindra.in/

adarsh@aindra.in

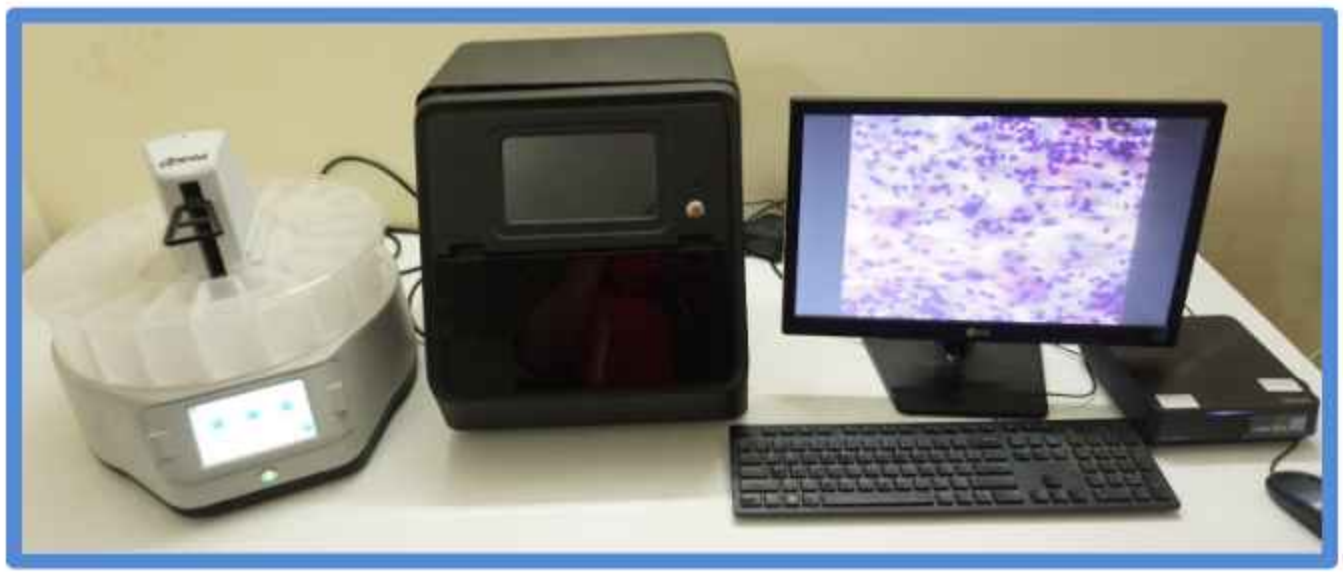
A Low-Cost device, Built on a Computational Pathology Platform.

Detects Cervical cancer at an early stage and at point-of-sample-collection by automating the analysis of pap smears.

Cervical cancer is amongst the most common types of cancers affecting the cervix of a woman, usually aged above 30. It is predominantly caused by certain strains of HPV viruses. With early detection and proper medication, it can be treated successfully. In the USA and Western countries, early detection through screening has resulted in a significant reduction in deaths.

Countries like India with the scarcity of trained medical professionals and a large vulnerable female population make it challenging to implement mass screening programs. It is estimated that more than 65000 deaths are caused by cervical cancer annually. An automated screening method that can help pathologists analyse large numbers of samples to differentiate suspicious cases from normal ones will help save many lives.

- Increased Accessibility ensure wider testing
- More affordable means to an evidence-based testing for Cervical Cancer
- Higher compliance to recommended treatments due to quick turn around time for result
- High quality of the images are captured, scanned and uploaded which provides easier & faster diagnosis



Impact under जनCARE
285 Patients Screened
4 Primary Health Care Centers

Dr. Kris Olsen,
Director,
Consortium for Affordable Medical Technology (CAMTech)
Massachusetts General Hospital
USA

I'm really excited about AIndra systems in really embodying what we're trying to do at CAMTech is enable technologies that provide better care at a lower cost. And so really, it's a technology that enables value. So, you have a better health outcome at a lower cost both in terms of human resources and in terms of accuracy of diagnosis. And so, I'm really looking forward to seeing AINDRA systems scale.

It was designed in India for that context it makes complete sense within India. Now I view it as both being applicable in other geographies both in lower resource settings where there's a real dearth of pathologists such as in sub-saharan Africa as well as even when we're looking at laboratory systems in developed countries that are looking for a certain quality but just no longer can afford the astronomical prices of say auto stainers and then are looking to move into AI augmented pathology.

The key with AI is you must have a good data set that you're able to compare and know what you're improving on. Pathology is one of the first areas that AI can have an actual incredible impact on because you have gold standards that AI you can improve on over time.

So, stage two is really exciting where they're taking those better quality slides and able to image acquisition them in terms of digitizing them in terms of Vision X. From that, that really provides a platform where you're able to use algorithms and artificial intelligence to read those stains in a more accurate, fast, reliable manner and enable pathologists to really play at the top of their game where they're reading more slides that are positive. Rather than sifting through looking really for that needle in a haystack, they're able to look at more slides that have some concerning findings in them and confirm that they are positive or that there's no cancer there.

Dr. Vani Ravikumar Senior
Consultant Pathologist
R.V. Metropolis Lab
Bangalore

From the past several years, we have been doing histopathology and cytology using manual staining methods and we had really not looked into an autostainer for several reasons and mainly because of the cost involved as well as the lot of space that it occupies in the lab and hence, we were not actually using any autostainer and manual staining was being used.

And a couple of months ago, I came across this Intellistain which is an autostainer designed by AIndra Systems. When we first looked into this, the first impression that I had was that it looks extremely cute and very well designed, and it was just a small table-top autostainer occupying very little space in the laboratory and then we decided to use it for our staining mainly for the pap staining as well as for the histopathology staining.

The quality of the stain that we saw using this autostainer is very crisp, both the nuclear staining as well as the cytoplasmic staining. It is very clear, the contrast was excellent, the background was absolutely, neat. The best part about this autostainer is that it occupies a very small place in your laboratory and most of us know we have this space crunch within the laboratories, and it can be moved, shifted to any particular section or area of the lab. It is just a walk-away system, our technicians are able to load the slides into this autostainer and then just walk away and do the rest of the work and come back and once the slide is ready, they can just take it and it is ready for mounting. The other important advantage is it's programmable feature(s). It is totally programmable and customized as per the laboratory requirements. So, as we know different stains, the different timings, as well as when the number of slides goes up, we could also change the timing, and this is totally automated and programmable and this again is a very big benefit of this solution.

Sunfox Technologies

Spandan: A Portable ECG Device

Improves healthcare services and provide better patient care at the target remote he althcare centers.

https://www.sunfox.in/

rajat@sunfox.in

99.7% accuracy

Sharpest sensitivity ever

Clearest Trace

No subscription charges

No battery/internet requirements

Unlimited ECG Recordings

Compliances and Certifications with

IEC 80601-2-25 NABL calibrated and certified.

RoHS COMPLIANT

GMP CERTIFIED GOOD MANUFACTURING PRACTICE

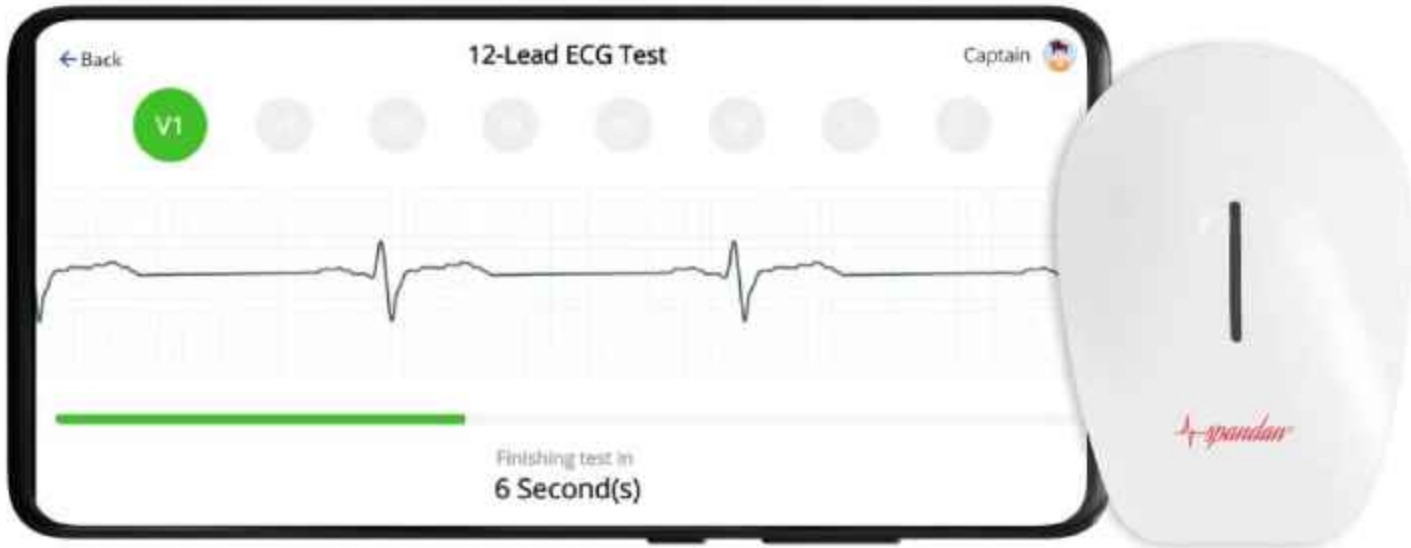
ACM

ISO 13485

NABCB

NABL

D-U-N-S® REGISTERED™



Medical-Grade Heart Health Analysis Made Simple And Accessible

Detection of Over 35 Heart Dysfunctions, So You Live Worry Less

Impact under जनCARE 8 Primary Health Care Centers

- Lead II ECG
- Live ECG Monitoring
- 12 Lead ECG test
- HRV test

I'm the Deputy Commissioner of Mon District of Nagaland. We've been working with NASSCOM as part of the Jan Care Innovation Challenge since the early part of 2021. We've deployed a few innovations that have been developed as part of this innovation challenge. We have deployed in the health units of Mon District, a device known as Spandan. It's a portable ECG machine developed by an organization known as Sunfox Technologies. This device essentially aims to figure out if there are any problems with regards to the cardiovascular condition of the patient and then alert them immediately. In remote health units it becomes difficult to deploy a full-fledged ECG and this machine has been serving the people of Mohon District quite well in terms of figuring outif there are any anomalies in their heart conditions.

This innovations has significantly benefited our Department of Health and Family Welfare and our dedicated medical personnel. We eagerly look forward to continued collaboration with NASSCOM in the years ahead. Thank you for making a positive impact on the healthcare of Mon District.

Thavaseelan K, IAS

Deputy Commissioner of Mon District, Nagaland

13

Inventigen Technologies Pvt. Ltd.

Onward Assist

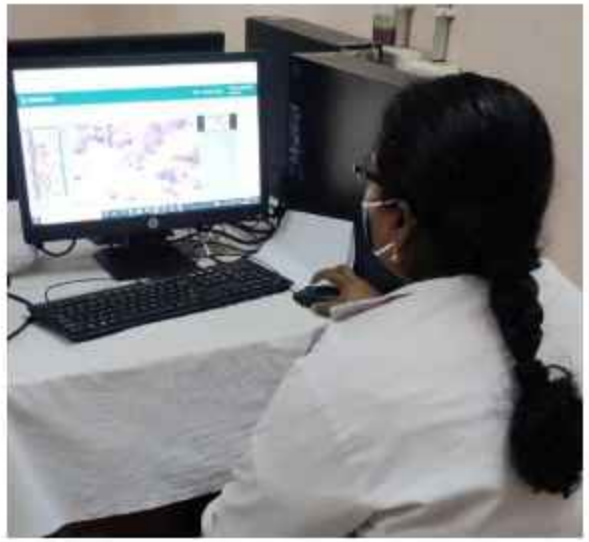
Cancer Analytics Platform Assisting Pathologists in Making Precise Decisions

https://www.onwardhealth.ai/

dinesh@onwardhealth.co

Early diagnosis of cancer is critical, and the clinician needs to analyze a large volume of complicated data which includes Pathology slides.

Also, qualified pathologists are in short supply across the globe. There are approximately 500 cancer pathologists in India, but more than 2 million cancer cases are being reported every year, this mismatch leads to delayed diagnosis and suboptimal clinical outcomes.



Impact under जनCARE
2000 Patients tested

A cancer analytics platform that assists pathologists in better cancer diagnosis. By using the latest image analysis and computational power, it helps in identifying cancer biomarkers with a reduction in reporting time by 30-40%.

A suite of tools to leverage the power of computational pathology.

Variety of tools assist users in multiple ways from academics, lab management to quicker reporting of pathology slides.

Quicker Identification of Cancer (Faster Turn Around Time)

Increased Access to Expertise

Second Opinion

Cross Speciality Collaborations

Pipeline of Next-Gen Pathologists

Improves cancer diagnosis, simplify the pathology reporting process by deploying user-friendly & powerful technology.

I take this opportunity to thank NASSCOM for working with us in a couple of projects in the health sector. We had posed a lot of issues or challenges to the nasscom and they have been kind enough to work with us and they brought in few startups to take our ideas from an ideation to a practical field orientation.

Currently, the project is getting tested in the field and once it is implemented, I believe they are going to change the way the people get healthcare services in the rural areas wherein very cutting edge kind of technologies are being implemented. So, again I take this opportunity to thank nasscom for incubating these ideas through the startups and for their efforts and contributions to give a solution to a long term healthcare requirements for the department.

Bhaskar Katamneni

Former Commissioner, Health & Family Welfare, Andhra Pradesh

14

Innaumation Medical Devices Pvt. Ltd.

Voice Restoration for Throat Cancer Patients

The Aum voice prosthesis, a low -cost speaking device for throat cancer patients who have lost their voice due to laryngectomy.

https://innaumation.com/

vishwas@innaumation.com

80,000 cases of throat cancer are diagnosed in India. Around 15,000 people in India are diagnosed with stage-IV throat cancer each year, and there's no procedure today to keep their voice boxes intact

80% of our healthcare is private run and the purchase power parity of an average Indian is less than $2. With the expensive voice prosthesis available in the market, it is difficult for them to afford it. Hence, they decide to live without a voice.

The AUM voice prosthesis is
SIMPLE
NON-INVASIVE
COST EFFECTIVE
device made for laryngectomy patients. It allows the patient to speak even in the absence of a larynx.

15

AUTICARE: A solution utilizing the Virtual Reality (VR) & Assistive Technology to develop the Skills of Autistic Kids

EMBRIGHT INFOTECH

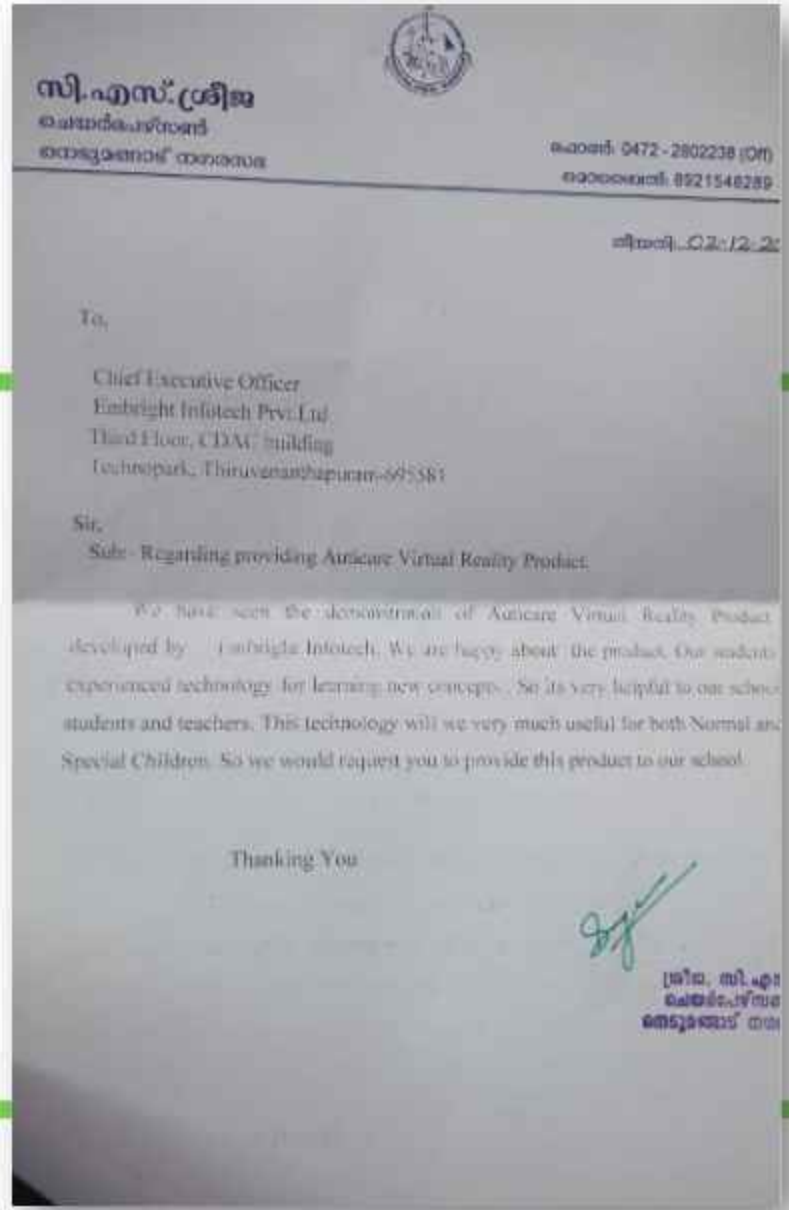
Transforming the lives of Autistic kids

Autism Spectrum Disorder is a neuro-developmental condition significantly affects a person's ability to communicate, understand relationships and is frequently associated with unusual or stereotypical rituals or behavior.

More than 2 million people are affected with ASD in India, with a global ratio of ~ 1:59

https://www.embrightinfotech.com/

sat@embrightinfotech.com



സി.എസ്.ശ്രീജ

ഫോൺ: 0472-2802238 (Off)

To,

Chief Executive Officer
Embright Infotech Prvt Ltd
Third Floor, CDAC building
Technopark, Thiruvananthapuram-695581

Sir,
Sub- Regarding providing Auticare Virtual Reality Product.

We have seen the demonstration of Auticare Virtual Reality Product developed by Embright Infotech. We are happy about the product. Our students experienced technology for learning new concepts. So its very helpful to our school students and teachers. This technology will we very much useful for both Normal and Special Children. So we would request you to provide this product to our school.

Thanking You

Permission Letter received for deployment in Kerala

Auticare helps in tracking the performance data of the user which helps to know every step of child improvement.

Enables the holistic development of the child that is from social, cognitive, motor, behavioral, self care skills.

It involves VR Scenarios based on ABA therapy modules which involves positive reinforcements to the child which acts as motivation for them to repeat and learn the skills.

Contributors & Partners

AstraZeneca

aws

HCG adding life to years The Specialist in Cancer Care

MEDANTA

GE HealthCare


AMRIT GRAND CHALLENGE
जनCARE
Reimagining the Healthcare Delivery -
Touching a billion lives
75 Healthtech innovation from startups and entrepreneurs
Innovation for Telemedicine, Digital Health, mHealth with Big Data, AI/ML, Block Chain and other technologies
Opportunities for Funding, Mentorship and Scaling up
Several States, MedTech Industries, Hospitals and Corporates onboard
AREA OF FOCUS
Access to primary healthcare in tier-2, tier-3 cities and rural settings
Solutions to enhance patient compliance
Health Data Collection, Predictive Analysis and Digital Learning in Medicine
Data Privacy, Storage and Security Solutions
Solutions for improved community outreach
Data driven modeling to enable pharma/ biopharma research development and Innovation
Solutions aligned with National Health Digital Mission and Ayushman Bharat will get preference.
Azadi Ka Amrit Mahotsav
Funding Support
Ideation and Testing
60 early-stage innovations
INR 10 Lakh each
Pre-commercialization
13 Late-stage innovations
INR 20 Lakh each
Multi-centric Product Deployment
2 Advanced stage innovations
INR 50 Lakh each


जनCARE
AGC
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Thank You

Contact Us

BIRAC

Ms. RASHMIKA SINGH
sped-5@birac.nic.in

Dr. Chandra Madhavi
pmubmgf5@birac.nic.in

nasscom foundation

Mr. Ajay Sankar
ajay@nasscomfoundation.org