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The Team:

Patrons:



INNOVATION
CENTRE



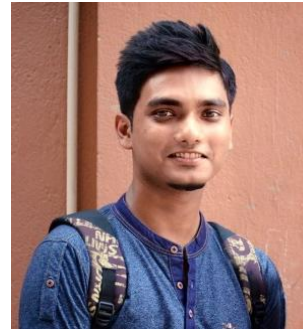
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Product Manager

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Advisors:



Dr. Shambo Samrat Samajdar
Physician Researcher
Access to a large pool of diabetic patients for testing, General Mentoring from Day Zero, Medical Fraternity Connections



Dr. Avijit Hazra
Clinical Research Expert
Extensive trial support at one of the most prominent and prestigious Medical College and Hospital in Kolkata



Shatavisa Mukherjee
Clinical Research and Data
Clinical Protocol & Study Design, CSR, Regulatory Submissions, Compliance Support, Sample Size Estimation, GCP



Dr. Santanu Kr Tripathi
Senior Medical Expert
Medical Connects; Medical Technology Adoption Strategy; Regulatory & Ethical Guidance



Problem Statement :

Dysautonomia or **Autonomic Neuropathy** occurs when there is damage to the nerves that control automatic body functions.

- Increased Mortality
- Increased Morbidity
- Irregular Heartbeat
- Digestive Issues
- Urinary Problems
- Sexual Dysfunction

Regular testing of autonomic dysfunction is essential for all Diabetic patients!

- American Diabetes Association

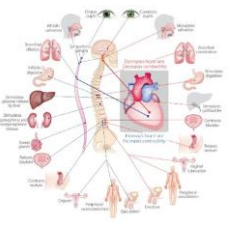
CAN IN DIABETES

20-65% varying with Age and Diabetes duration

MORTALITY RISK

2X → DETECTED CAN

3.65X → SEVERE CAN



- Common among the Elderly **(149 Million)***
- A Complication of Diabetes **(101 Million)***
- Also seen in a host of other Diseases

*Only INDIA data!

 संघीय शासकीय DEPARTMENT OF BIOTECHNOLOGY GOVERNMENT OF INDIA	Supported by the Dept. of Biotechnology, Govt. of India
 CDSCO CENTRAL DRUG STANDARD CONTROL ORGANIZATION MINISTRY OF HEALTH, GOVERNMENT OF INDIA	CDSCO MD5 License Received!



5+ EC
Approvals
Received

Non-Invasive Baro-Reflex Assessment – Combined System

IP Status: Patent Granted!

Four Parasympathetic Tests:

- ECG (Lead II)
- Resting
- Deep Breathing
- Response to Standing
- Valsalva Maneuver

Two Sympathetic Tests:

- Blood Pressure (Cuff)
- Hand Grip Test
- Response to Standing

Heart Rate Variability:

- Short-term (5 min)
- Time Domain
- Frequency Domain



All as per **Ewings Tests** recommended by the American Diabetes Association (ADA) as Gold Standard!



In each case, the report is mailed to the registered ID.

Competitive Landscape:



Product	Price (Lakhs)	Heart Rate Variability	Stand-Alone	Portability
NIBRA-CS®	3	✓	✓	✓
KODYSCAN	2.0+	✓	✗	✗
CANS504	2.0+	✗	✗	✗
SA-3000P	5.21	✓	✓	✗



The following are the aspects in which NIBRA-CS® beats its competitors:

- I. Stand-Alone:** Both KODYSCAN and CANS504 require PCs or laptops of high specifications which effectively add forty to seventy thousand rupees to the effective price of the device. NIBRA-CS® is completely stand-alone and does not require any other device to operate.
- II. Affordable:** The end user price of NIBRA-CS® is aimed at much less than the market price of KODYSCAN and CANS504. It is less than a third of the price of SA-3000P.
- III. Portable:** Irrespective of the claims, both the comparative devices are extremely heavy and lack portability. NIBRA-CS® is designed as a portable kit suitable for even mobile clinics.

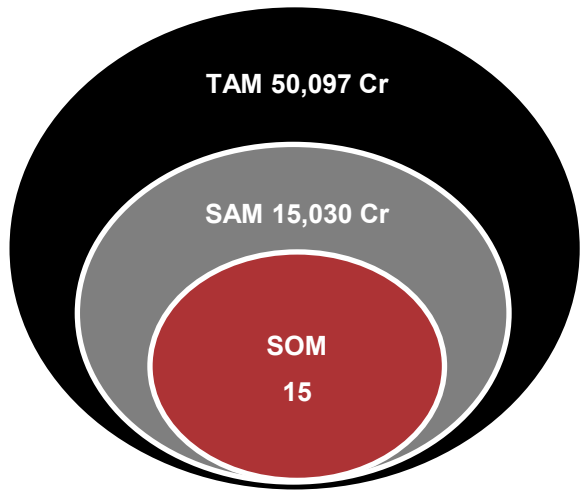


FDA approved
Autonomic
Neuro Function
Analyzer System
model
VitalScan is priced at
₹ 1.48 Cr

Market:



	Tier-1	Tier-2	Tier-3	Total
TAM (₹)	₹ 25,049 Crores	₹ 15,029 Crores	₹ 10,019 Crores	₹ 50,097 Crores
SAM (₹)	₹ 7,515 Crores	₹ 4,509 Crores	₹ 3,006 Crores	₹ 15,030 Crores
SOM (₹)	₹ 7.5 Crores	₹ 4.50 Crores	₹ 3.00 Crores	₹ 15 Crores



Hospitals	Public and Private Hospitals offering care in Diabetes, Geriatrics, and Neurology.
Diagnostic Labs	Standalone and chain-operated labs performing Neurofunction and related Diagnostics.
Specialty Clinics	Clinics specializing in Diabetes, Neurology, and Men’s Health.
Medical Colleges	Offering MD programs in General Medicine, Physiology, Pharmacology, and similar fields.

A New Start for Inovocare Healthsoft Solutions Pvt. Ltd.!

We have now started

**Point-of-Care Diagnosis of
Cardiac Autonomic Neuropathy (CAN)!**

with our Patented & CDSCO Approved solution

NIBRA-CS®

CAN is associated with **280% Higher Risk of Silent Heart Attacks & Sudden Death in Diabetics.**

Early Detection is Essential for Better Management!

Toronto Consensus Panel

recommends CAN screening for **ALL Diabetic Patients.**

American Diabetes Association®

Screen at Diagnosis for Type 2 & 5 Years After Diagnosis for Type 1.

Especially Important for Patients with

Poor Glycemic Control & High Cardiovascular Risk

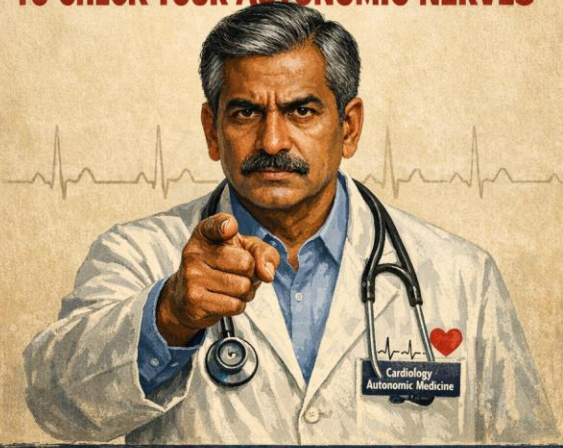
Start CAN Testing at YOUR Clinic or Hospital!

Call / Whatsap: **+91 81002 68525**

sales@nibracs.com

Value Proposition:

I WANT YOU
TO CHECK YOUR AUTONOMIC NERVES



CARDIAC AUTONOMIC FUNCTION TESTING — NOW

If you are Diabetic, Elderly, or at Risk — Delay Can Cost Your Life.

- Type II Diabetes
- Long-standing Hypertension
- Unexplained Dizziness or Fainting
- Resting Tachycardia
- Erectile Dysfunction
- Sudden BP Fluctuations.

These may be signs of
AUTONOMIC NEUROPATHY

Redefining CAN Diagnosis: Digital Precision with NIBRA-CS

THE SILENT THREAT: Why CAN Testing is Essential



2-to-3-fold Increase in Cardiac Events

CAN is an independent risk factor for myocardial infarction, heart failure, and mortality.



Type 1
after 5 years



Type 2
at diagnosis

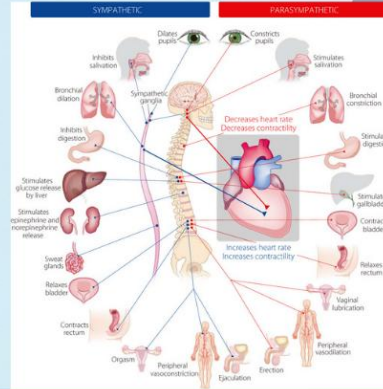
Critical Screening Populations

Mandatory for Type 2 diabetics at diagnosis and Type 1 patients after five years.



The “Silent” Risk to Diabetic Patients

Often asymptomatic until advanced stages, affecting up to 90% of long-standing diabetic populations.



THE NIBRA-CS SOLUTION: Digital Diagnostic Superiority



Traditional Ewing's Battery

Data Collection:
Manual & Disconnected

Interpretation:
Subjective / High Variability

Features:
Basic HR/BP Checks

NIBRA-CS Digital System

Integrated & Automated

Objective Algorithmic Analysis

Spectral Analysis & Quick Test Mode



Comprehensive Multi-Parametric Reporting

Integrates ECG, BP and HRV into a single, cloud-base clinical report.



Precision Staging for Safer Care

Identifies initial, definite, or advanced CAN to guide safer, personalised glycemic targets.



F/F 6 Hatiara Road
Baguiati, PO:, Jyanga,
Rajarhat, Kolkata, West
Bengal 700159

*Get Tested for
Cardiac Autonomic
Neuropathy Today!*



**+91-81002
-68525**



Patented Approved

Non-Invasive Baro-Reflex Assessment – Combined System

- FOUR PARA-SYMPATHETIC TESTS
- TWO SYMPATHETIC TESTS
- HEART RATE VARIABILITY
- STAND-ALONE SYSTEM
- COMPREHENSIVE REPORT
- DIGITAL HEALTH ENABLED

All as per Ewing's Tests recommended by the American Diabetes Association (ADA) as Gold Standard.



With the Team from MEITY at IIMCIP



Academy for Applied
Research & Training in
Healthcare in India



Tuliphall CliniResearch Private Limited

MoU Signed



AGC JAN CARE Success Story Honor at GBI 2024

All India Institute of Medical Sciences, Kalyani	R	(Data Collection Completed)
Medinipur Medical College	U	Paid Pilot Completed with 300 Patients Tested!
Jagannath Gupta Institute of Medical Science & Hospital	R	30 Patient Paid Pilot Completed!
Institute For Indian Mother & Child Hospital, Garia	A	200+ Patients Tested Data sent for Publication
Netaji Subhas Medical College and Hospital, Patna	L	Ethics Committee Clearance Received!
HREC - Allergy and Asthma Research Centre (AARC)		First Unit Sold!
RIMS: Rajendra Institute of Medical Sciences, Ranchi		PHC Level Integration Ongoing!
nasscom foundation MAYO CLINIC		Selected for Mayo Clinic Innovation Showcase



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Grants & Awards:

Total 5 Grants Raised Till Date:

Rs 99.61 Lakhs



Inovocare Healthsoft Solutions Pvt. Ltd.

NIBRA-CS™ (Non-Invasive Baro Reflex Assessment - Combined System)

- Autonomic Neurofunction Testing
- Instant Comprehensive Report
- HRV Analysis (Time & Freq. domain)
- ABDM enabled
- EMR/EHR Synchronized
- Completely Stand-Alone

All as per findings tests recommended by the American Diabetes Association (ADA) as Gold Standard!

Societal Relevance:
This is essential for the diabetic and elderly populations. There is a huge gap in the market for a device that can provide a comprehensive report on autonomic function, which is a key indicator of diabetic neuropathy and other complications. The device is also portable and easy to use, making it suitable for use in a variety of settings, including home care and remote monitoring.

Launched at GBI 2023



भारतीय विज्ञान, प्रौद्योगिकी और नवाचार पोर्टल India Science, Technology and Innovation Portal

Government Website Feature

Link: <https://www.indiascienceandtechnology.gov.in/technologies/non-invasive-baro-reflex-assessment-combined-system-nibra-cs>

[invasive-baro-reflex-assessment-combined-system-nibra-cs](https://www.indiascienceandtechnology.gov.in/technologies/non-invasive-baro-reflex-assessment-combined-system-nibra-cs)



NIBRA-CS

STARTUP mahakumbh
BHARAT INNOVATES

April 3-5, 2025 | Bharat Mandapam, New Delhi

Booth - 3BH.31 See you there!

+91-8100268525 www.nibracs.com

Inovocare Healthsoft Solutions Private Limited

iiitb INNOVATION CENTRE

DEEPAS

DEEP ENGAGEMENT & ENCOURAGEMENT PROGRAM FOR AGILE TECH STARTUPS

In collaboration with:

Congratulations
on being selected for the collaborative cohort of IIITB IC and NIMHANS!

samjna
WORDS & BEYOND

Samjna Analytics

Revolutionizing early detection of stress with a scalable, noninvasive and medically validated solution that uses Machine Learning for accurate stress estimation.

NIRVESH Enterprises

Nirvesh Enterprises

We develop Synapsil, a next-gen Neurotech device using AI to diagnose and support rehabilitation for brain stroke patients, targeting the \$9.8B global market.

SPARSHMIND INNOVATIONS

Sparsh Minds

SparshMind Innovations is developing VR-based digital therapeutics to support neuropsychiatric recovery. Its product ReMind is used across hospitals in India.

iiitb

Innovocare Solutions

Inovocare Healthsoft Solutions is an upcoming MedTech StartUp building Digital Health enabled Smart Solutions focussed on the Elderly & Diabetic!

ic.iiitb.ac.in [iiitbic](https://iiitbic.in) showcase/innovation-iiitb



Inovocare Healthsoft Solutions Pvt. Ltd.

NIBRA-CS™ (Non-Invasive Baro Reflex Assessment- Combined System)

- Autonomic Neurofunction Testing
- Instant Comprehensive Report
- HRV Analysis (Time & Freq. domain)
- ABDM enabled
- EMR/EHR Synchronized
- Completely Stand-Alone

All as per Ewings Tests recommended by the American Diabetes Association (ADA) as Gold Standard!

Societal Relevance:

This is essential for the Diabetic and elderly populations. There is a significant impact on the quality of life. Undetected Diabetes also has a significant impact on the quality of life.



NIBRA-CS® was officially launched at the prestigious **Global Bio India 2023!**

IMI Kolkata signs MoU with Inovocare Healthsoft Solutions



With Dr. Anjani Mashelkar

