

Dr. T - Breath Analyser

Inhale, Exhale, and Repeat

Real-Time Non-Invasive Accurate Disease Detection and Comprehensive Health Assessment through High-Resolution Analysis of Gases, VOCs, and Infectious Agents (Bacteria and Viruses) Present in Breath.

FEATURES



Dr T_DHANVANTARI : Gas Analyser

Early Diagnosis Through Analysis of Exhaled Gases for Disease Identification

- **Acetone:** Diabetes Indicator.
- **Isoprene:** Associated with Asthma and Lung Cancer.
- **Methane:** Linked to Constipation and Irritable Bowel Syndrome.
- **Ethane:** Associated with Oxidative Stress and Lung Cancer.
- **Nitric Oxide:** Indicative of Asthma.
- **Carbon Monoxide:** Associated with Lung Disease.
- **Ammonia:** Linked to Liver Disease and Kidney Disease.
- **Hydrogen:** Indicative of Small Intestinal Bacterial Overgrowth (SIBO).
- **Carbon Dioxide:** Associated with Respiratory Acidosis and Metabolic Acidosis.



DR T_SWAASA: Breath Analyser

Captures diagnostic metrics through simple inhale, exhale, and repeat cycles, eliminating the need for forced exhale.

Diagnostic Metrics Captured:

- Captures Breathing Patterns
- Monitors Respiration Rates
- Measures Forced Expiratory Volume
- Analyzes Inspiration and Expiration Characteristics

Comprehensive Monitoring:

- Enables monitoring of critical respiratory parameters
- Correlates with conditions like Cystic Fibrosis, Sleep Apnea, and Chronic Obstructive Pulmonary Disease (COPD)

Invaluable Data:

- Key for understanding and managing respiratory health, especially during unconsciousness or post-operative recovery.



DR T_BIO SENSOR: Pathogen Analyser

Molecular Analysis for Swift Identification of Infectious Agents, Redefining Timely Diagnosis and Treatment

- Innovative, cost-effective, and patient-centric solution for early disease detection.
- Harnesses the breath's hidden potential for unprecedented insights into health status.
- Customizing treatments for individual health needs by diagnosing specific bacteria or virus loads and prescribing personalized antibiotics or antivirals.
- **Pathogens Detected:** E.coli, S. aureus, S.pneumoniae, K.pneumoniae, P.aeruginosa, E.faecalis, A.baumannii, Influenza virus, HIV, Hepatitis B virus, Hepatitis C virus, SARS-CoV-2 (COVID-19), RSV, HSV.

Use Cases of Dr. T



- **In Hospitals and Clinics:**

- **Early Disease Detection:** Dr T can screen patients for various diseases, enabling early diagnosis and treatment, and improving chances of successful recovery.
- **Monitoring Chronic Conditions:** Dr T allows patients with conditions such as asthma, COPD, or cancer to regularly track and adjust their treatment as necessary.
- **Infectious disease control:** Dr T rapidly identifies patients with diseases like COVID-19 or tuberculosis, facilitating prompt isolation and treatment to curb further spread.

- **In Homes:**

- **Personal health tracking:** Dr T enables individuals to monitor overall health, identify risks, and make lifestyle adjustments for improved well-being.
- **Managing chronic conditions:** Dr T allows individuals to monitor their condition at home, reducing the necessity for frequent hospital visits.
- **Remote patient monitoring:** Healthcare providers utilize Dr T to oversee patients with chronic conditions remotely, ensuring timely care and support.

- **In Workplaces:**

- **Employee Health Screening:** Dr T aids employers in screening for health conditions, enhancing workplace safety and productivity.
- **Workplace Hazard Monitoring:** Dr T detects harmful airborne substances like chemicals or toxins, ensuring a safer work environment.

- **In Schools:**

- **Respiratory Infection Early Detection:** Dr T screens students for respiratory infections, preventing illness spread in schools.
- **Asthma and Allergy Monitoring:** Dr T helps students with asthma or allergies monitor and manage their condition.

- **In Sports and Fitness:**

- **Athletic Performance Tracking:** Dr T could help athletes monitor breathing patterns and lung function, optimizing training and performance.
- **Recovery Monitoring:** Athletes could use Dr T to monitor recovery from injury or illness, ensuring a safe return to activity.

- **In Research:**

- **Disease Mechanism Study:** Dr T aids researchers in exploring disease mechanisms, paving the way for innovative diagnostic and treatment strategies.
- **Therapy Testing:** Dr T assesses the effectiveness of new therapies for respiratory and other diseases.

Enhanced Breath Analyzer Integrated with Big Data, ML, and AI

Dr. T SMART APP

Breath Analyzer

Aayush Lakkad
January 20 5:32 PM

P00581455774257 • 28 years • Male • 58.0 KG • 179.0 cm



TEST RESULTS

Respiratory Rate	Tidal Volume
12.336 cycles/min	0.149 liter/s
Inspiration Velocity	Expiration Velocity
0.025 m/s	0.024 m/s
Inspiration Volume	Expiration Volume
0.155 liters/s	0.143 liters/s

- **Comprehensive Health Profile:**
 - **Centralized Platform:** Offers users a centralized platform for accessing vital health data.
 - **Inclusive Data:** Includes basal body temperature, heart rate, blood pressure, and more.
 - **Medical Reports Access:** Provides instant access to scanned path lab reports, X-rays, MRI, and CT scan reports.
- **Predictive Analytics:**
 - **Ongoing Data Forecasting:** Utilizes ongoing data inputs for forecasting potential health outcomes.
 - **Early Warning Signs:** Identifies early warning signs of diseases.
 - **Empowerment:** Empower users to make informed decisions and adopt healthier habits.
- **Artificial Intelligence Insights:**
 - **AI-Driven Algorithms:** Detects subtle patterns and trends over time using AI-driven algorithms.
 - **Early Detection:** Enables early detection of health issues long before symptoms manifest.
 - **Professional Insights:** Offers healthcare professionals real-time insights and personalized recommendations for each patient.
- **IoT Data Integration:**
 - **Seamless Integration:** Integrates data from various IoT diagnostic and wearable health devices.
 - **Instant Updates:** Provides users with instant updates on their health status.
 - **Timely Actions:** Enables timely actions and interventions for proactive health management.
- **Vision for the Future:**
 - **Dynamic Synergy:** Envisions dynamic synergy between artificial intelligence and the Dr T SMART App's data.
 - **Advanced Language Processing:** Integration with advanced language processing capabilities.
 - **AI-Driven Health Assistant:** Enables meaningful conversations with an AI-driven health assistant.
 - **Revolutionizing Patient Engagement:** Streamlines diagnosis and treatment, revolutionizing patient engagement.
- **Empowering Health Control:**
 - **Future of Healthcare:** Positioned as the future of healthcare.
 - **User Empowerment:** Empowers users to take control of their health.

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