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OUTLOOK

**CANADA
MEDTECH
EDITION**

DR. ANMOL S. KAPOOR
MD FRCPC
FOUNDER & CEO



CardiAI

**BUILDING AN
ERA OF OPTIMIZED
HEALTHCARE**

\$15



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**CANADA
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CardiAI



**TOP 10
CANADA
MEDTECH
COMPANIES
2022**

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MEDTECH OUTLOOK

The annual listing of 10 companies in Canada that are at the forefront of providing MedTech solutions and impacting the industry

CardiAI

BUILDING AN ERA OF OPTIMIZED HEALTHCARE

Access to clean and actionable data is vital for healthcare professionals to deliver better patient care. With the power of data—delivered on time, in the correct format—clinicians can pay more attention to quality care and patient experience. This can help reduce physician burnout, ease staffing needs, and help the healthcare community meet the growing demand for more efficient clinical care.

However, most healthcare professionals spend up to 40 percent of their time reading and evaluating vast volumes of data instead of leveraging the power of technology, limiting their focus on care delivery.

A cardiologist himself, Dr. Anmol Kapoor, the Founder and CEO of CardiAI, sought to bridge this gap in the healthcare industry and improve patients' lives by harnessing the potential of cutting-edge technologies. Persuaded by one of his personal experiences with a patient, Dr. Kapoor established CardiAI, a leading medical device research and development firm, to provide better diagnostic services to the healthcare community. The company's next-generation, platform-based medical diagnostic device and software can rapidly diagnose, manage, and monitor infectious diseases and chronic health conditions, improving patient care. Designed with superior data analytics capabilities, CardiAI's solutions make a world of

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We believe in simplified health solutions and focus on the unique needs of people. Our innovations in AI and ML help achieve an affordable and informative advanced healthcare management system, improve the quality of life, and reduce healthcare costs

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difference in the cardiology space, optimizing healthcare decision-making and enriching lives with efficient triage management and the power of artificial intelligence (AI) and machine learning (ML).

“We believe in simplified health solutions and focusing on the unique needs of people. Adding on, our innovations in AI and ML help to achieve an affordable and informative advanced healthcare management system, improve the quality of life, and reduce healthcare costs,” says Dr. Kapoor. By allowing AI and ML to act as the physicians’ assistant, CardiAI enhances and improves the accuracy of data interpretation, and facilitates data sharing in a timely manner.

An Initial Leap to a Greater Mission

CardiAI stepped into the world of healthcare optimization with its proprietary blood pressure monitoring device BPArO. The small, portable ambulatory blood pressure monitor is designed to automatically measure blood pressure at regular intervals, while the patient goes about their everyday activities. Built with effective and updated health parameters and technology, BPArO can constantly and dynamically monitor human blood pressure for up to seven days and generate reports based on medical guidelines. As a clinically validated device for accuracy, this FDA and Health Canada-approved product can be used at home or at a hospital, clinic, or other medical facility.

These reports are then saved on the user’s personal cloud account in a HIPAA-compliant manner which can be securely accessed via the BPArO app. The software then automatically interprets the information according to the user’s requirements and clinical conditions, providing actionable insights to clinicians for better decision-making. For example, it can provide average blood pressure, display nighttime and daytime blood pressure readings, and evaluate the heart rate correlation with those readings. Additionally, if a patient experiences increased blood pressure readings throughout the night, the BPArO App can correlate their condition to sleep apnea.

All this information is automatically added to the reporting template, which can be easily integrated with any EMR system using an HL7 interface. As a result, the information can be shared more easily and seamlessly than ever before. Patients will also have access to these reports, enabling them to self-evaluate their progress, and focus on self-management. BPArO also gathers information about patients’ BMI, allowing clinicians to educate them on effective lifestyle modification, including weight loss.

Endless Innovation; Improved Patient Care

Ever the innovator, CardiAI recently came up with a system to provide accurate, at-home blood testing. In the final stages of development is a home blood testing system that allows a person to detect symptoms related to heart conditions. It will be incorporated with troponin and NT-pro BNP tests, which are generally utilized in diagnosing patients with heart issues.

The new system comes with a simple testing method, where patients can place a droplet of blood on the device—like checking blood glucose. Results are generated in a few minutes, helping them easily identify why they are having symptoms, such as shortness of breath. This information is then transmitted to a clinician promptly, allowing patients to access care as quickly as possible.

“Our goal is to bring the emergency room care system to the patient’s home, where they need it the most. This helps diagnose their conditions early on, optimizing their healthcare journey to create positive results,” states Dr. Kapoor.

A Testament to Innovation Excellence

CardiAI’s ability to bring innovation excellence to the medical diagnostic space has made it the go-to partner for a wide range of clientele in the U.S. and Canada. It recently collaborated with a cardiology clinic in Edmonton, Canada, that still used a non-clinically validated, 24-hour blood pressure monitor. The reporting software lacked Bluetooth connectivity and was not cloud-backed, which forced them to manually download, correct, type, and print reports before sending them to clinicians. This was tedious, expensive, time-consuming, and went against guidelines.

When CardiAI came on board and deployed its BPArO system, the clinic was able to automate the entire process. The solution helped them to automatically generate and interpret reports while also allowing physicians and patients to log in to the BPArO app or portal to access the report. By using the HL7 interface, CardiAI helped them integrate these reports into their existing EMR systems and then seamlessly share them via email or fax. Post collaboration, the client was able to save thousands of dollars on employee costs and dedicate their workforce to providing care in other areas.

Providing a Sense of Assured Future

CardiAI attributes its success to its team of leading cardiologists, biochemists, engineers, molecular biologists, project managers, clinical trial specialists, and astute business leaders. They collaborate and share the passion of providing patient-centered care by understanding and emphasizing patient needs to their health care and information



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providers. Its team is always at the forefront of providing the patients with the best healthcare technologies and solutions. Through careful analysis of health efficiency barriers and informed data interpretation, CardiAI is prepared to translate every opportunity into meaningful solutions.

CardiAI’s product pipeline is a testament to its dedication to building a world of difference in the healthcare industry. The company is developing CardiAro, which will

provide remote ECG monitoring using AI, helping predict risk profiles of patients who might be vulnerable to cardiac or any other issues. CardiAI, has launched a new division BioAro. BioAro is a proudly Canadian, biotechnology company focused on bringing personalized medicine to everyone. BioAro aims to further the implementation of genomic research into the Canadian healthcare system, advance progress toward personalized medicine, and place genomic ownership in the hands of the individual. BioAro sees a future where genetic analysis services are accessible to everyone.

Genomics improves the wellness and healthcare of everyday life, today and for generations to come. BioAro aims accomplish this by leveraging innovative technology such as blockchain for privacy and personalizing healthcare by understanding genome sequencing, and its impact on lifestyle and wellness. Genomic testing will provide individuals with meaningful insights into an their customized medical conditions related to heart diseases, cancer, rheumatologic, neurological problems, and others. This helps the medical community create a better diagnostic pathway to provide care earlier intervention. Designed to understand pharmacogenomics, how your body interacts with different chemical compounds, such as medicines, genomic testing helps discover new genes, pathways, or drugs.

CardiAI is setting up a new standard in the healthcare industry with its expertise and ardent passion for enhancing care delivery. 🇨🇦

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