

▶ **D**EFIBRILLATORS ARE AT the forefront of emergency cardiac care, saving lives through advanced shock therapy. In India, where cardiovascular diseases are the leading cause of mortality, defibrillators are becoming an essential component of emergency response systems. With government initiatives, increasing public awareness, and advancements in technology, the demand for defibrillators is growing significantly in the country.

Sudden Cardiac Arrest (SCA) accounts for a substantial number of deaths in India, making timely defibrillation a critical intervention. However, the availability and accessibility of defibrillators remain limited, particularly in tier-2 and tier-3 cities. Government programs, such as the installation of Automated External Defibrillators (AEDs) in public places and the inclusion of defibrillation training in first aid courses, are helping bridge this gap. Several states have initiated programs to equip police vehicles, railway stations, and educational institutions with AEDs, ensuring quicker response times in emergencies.

India's growing network of emergency medical services is also playing a crucial role in expanding defibrillator accessibility. Ambulances equipped with defibrillators and trained paramedics are now a standard feature in metropolitan areas. The National Health Mission has been instrumental in providing funding and resources for defibrillator deployment in government hospitals and rural health centers, ensuring equitable access to life-saving technology. Additionally, corporate hospitals and private healthcare providers are increasingly investing in defibrillators to enhance their emergency preparedness.

Market trends indicate a rise in the demand for transportable and wearable defibrillators in India. With an increasing number of mobile ICUs and rapid-response emergency units, healthcare providers are seeking compact, lightweight, and easy-to-use defibrillators. This trend is particularly significant in air and rail ambulances, where portability and battery efficiency are crucial for uninterrupted patient care. Furthermore, wearable defibrillators are gaining traction among high-risk cardiac patients, offering continuous monitoring and immediate intervention in case of arrhythmias.

Technological advancements are shaping the future of defibrillators in India. AI-powered defibrillators capable of analyzing ECG data in real-time, cloud-connected devices for remote monitoring, and automated maintenance alerts are becoming more prevalent. Startups and established medical device companies are focusing on IoT-enabled solutions that allow healthcare providers to track device readiness, ensuring defibrillators are always in optimal working condition. Enhanced battery management systems and wireless connectivity features are also improving the

reliability and efficiency of these devices, making them more effective in critical situations.

Regulatory policies in India are also evolving to promote the widespread adoption of defibrillators. The Central Drugs Standard Control Organization (CDSCO) has laid down guidelines for the registration and quality control of defibrillators, ensuring that only reliable and certified devices reach the market. The Make in India initiative has further encouraged domestic manufacturing of defibrillators, reducing dependency on imports and making these life-saving devices more affordable. Additionally, initiatives to mandate defibrillators in large corporate offices, shopping malls, and sports arenas are expected to drive higher adoption rates.

Public awareness campaigns by healthcare organizations and NGOs are educating people about the importance of defibrillation in saving lives. Several hospitals and corporate offices have initiated Basic Life Support training programs, equipping employees and the general public with CPR and defibrillator usage skills. The increasing emphasis on cardiac emergency preparedness is expected to drive further adoption of defibrillators across India. Online education platforms and social media campaigns are also playing a key role in spreading awareness about the importance of immediate defibrillation in cardiac emergencies.

Allied Medical—Leading the way in defibrillation technology

Allied Medical Limited is contributing to the growth of the defibrillator market with its innovative solutions. The company offers a range of high-performance defibrillators, including Cardiasafe-I, Cardiasafe-II, CardiaGuard-I, and CardiaGuard-II, catering to hospitals, ambulances, and public access needs. These devices feature advanced biphasic technology, synchronized cardioversion, and automated voice-guided instructions, ensuring ease of use for both medical professionals and laypersons.

With a strong focus on innovation, Allied Medical is integrating AI and IoT in its upcoming defibrillator models, enabling real-time monitoring and predictive maintenance. The company is also investing in training programs to enhance awareness and usability of defibrillators, ensuring more lives can be saved through rapid and effective cardiac interventions. Additionally, the vendor is collaborating with government agencies and healthcare institutions to make defibrillators more widely accessible across India.

By aligning with India's healthcare goals, Allied Medical is shaping the future of defibrillation technology in the country. The company remains committed to providing cutting-edge, reliable, and affordable solutions that improve cardiac emergency response and save lives. ▶▶