

# **UAE Cardiovascular Devices Market Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Type (Diagnostic & Monitoring Devices {ECG, Holter Monitors, Implantable Loop Recorders, Event Monitors, Others}, Surgical Devices {Pacemakers, Defibrillators, Stents, Valves, Other}), By Application (Coronary Artery Disease, Cardiac Arrhythmia, Heart Failure, Others), By End User (Hospitals & Clinics, Diagnostic Centers, Others), by region, and Competition**

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## **Abstracts**

UAE Cardiovascular Devices Market is anticipated to witness an impressive growth in the forecast period. Cardiovascular devices are medical instruments, implants, or equipment designed to diagnose, monitor, and treat conditions related to the cardiovascular system, which includes the heart and blood vessels. These devices play a crucial role in the management of various cardiovascular disorders and contribute to both diagnostic and therapeutic interventions. Ongoing advancements in cardiovascular technology, including imaging systems, interventional devices, and wearable monitoring devices, drive market growth. Innovations such as minimally invasive procedures, advanced imaging modalities, and remote patient monitoring enhance both diagnosis and treatment. An aging population is often associated with an increased prevalence of cardiovascular diseases. As the demographic profile of the UAE shifts towards an older population, the demand for cardiovascular devices is likely to rise. Ongoing investments in healthcare infrastructure, including hospitals and specialized cardiovascular care facilities, support the adoption of advanced cardiovascular devices. Accessible and well-

equipped healthcare facilities drive the demand for diagnostic and treatment technologies. Collaborations between local healthcare providers, medical device manufacturers, and global research institutions contribute to knowledge exchange and technology transfer. These collaborations enhance the availability of advanced cardiovascular devices in the UAE.

Government-led initiatives and investments in healthcare infrastructure, including cardiovascular care, contribute to market growth. The UAE government's commitment to improving healthcare services and facilities positively influences the adoption of advanced cardiovascular devices. The emphasis on preventive healthcare measures, including regular screenings and early detection of cardiovascular risk factors, boosts the demand for diagnostic devices. Preventive strategies contribute to reducing the overall burden of cardiovascular diseases. Factors such as sedentary lifestyles, poor dietary habits, and increased stress contribute to lifestyle-related risk factors for cardiovascular diseases. The awareness of these risk factors prompts individuals to seek cardiovascular assessments, driving the market for diagnostic devices. Growing awareness among the population about cardiovascular health and the importance of early detection fuels the demand for diagnostic and monitoring devices. Patients are becoming more proactive in monitoring their health and seeking medical advice when necessary.

## Key Market Drivers

### Technological Advancements

Advances in catheterization techniques have led to the development of minimally invasive procedures, such as angioplasty and stent placement. These techniques reduce the need for open-heart surgery and promote quicker recovery. Three-dimensional (3D) and four-dimensional (4D) imaging technologies provide detailed and dynamic views of the heart's structure and function, aiding in more accurate diagnosis and treatment planning. Echocardiography and magnetic resonance imaging (MRI) technologies have evolved to offer higher resolution and improved visualization of cardiac structures, allowing for better assessment of heart function and abnormalities. Drug-eluting stents release medication to prevent restenosis (narrowing of blood vessels) after angioplasty. They have significantly improved the long-term outcomes of patients undergoing coronary interventions. Stents made from materials that gradually dissolve over time, reducing the risk of long-term complications associated with permanent stents. Wearable cardiac monitors continuously track heart rhythms, enabling long-term monitoring for arrhythmias and other cardiac conditions.

Implantable Cardioverter-Defibrillators (ICDs) monitor heart rhythms and deliver electrical shocks when life-threatening arrhythmias are detected, preventing sudden cardiac arrest. Digital health solutions allow healthcare providers to remotely monitor patients with cardiovascular conditions. This facilitates timely intervention and reduces the need for frequent hospital visits. AI algorithms analyze medical images to detect subtle abnormalities and assist in the early diagnosis of cardiovascular diseases. Machine learning models predict patient outcomes, helping healthcare providers tailor treatment plans for better individualized care.

**Robot-Assisted Surgery:** Robots assist surgeons in performing complex cardiovascular surgeries with enhanced precision and control. This technology reduces invasiveness and shortens recovery times. Compact and portable diagnostic devices enable rapid assessment of cardiac biomarkers and blood parameters at the point of care, facilitating quicker decision-making. **Biodegradable Sensors:** Emerging technologies include biodegradable electronic sensors that can be implanted to monitor various physiological parameters. These sensors naturally degrade over time, eliminating the need for removal surgeries. Understanding the genetic basis of cardiovascular diseases allows for personalized treatment approaches based on an individual's genetic profile. This factor will help in the development of the UAE Cardiovascular Devices Market.

### Rise in Lifestyle-Related Risk Factors

Several lifestyle factors contribute to an increased risk of cardiovascular diseases, and the need for effective diagnostic, monitoring, and treatment devices becomes crucial in addressing these health challenges. Lifestyle-related risk factors such as sedentary behavior, unhealthy diets, smoking, and excessive alcohol consumption contribute to the rising incidence of cardiovascular diseases. As the prevalence of these risk factors increases, the demand for cardiovascular devices, including diagnostic tools and monitoring devices, rises to manage and mitigate the impact of cardiovascular conditions. Lifestyle-related risk factors often lead to the development of cardiovascular diseases over time. Early detection is crucial for implementing preventive measures. Diagnostic devices play a key role in identifying risk factors, enabling healthcare professionals to intervene early, provide lifestyle counseling, and prescribe appropriate medications. Wearable devices, such as smartwatches and fitness trackers, have become popular for monitoring lifestyle habits, physical activity, and vital signs. These devices, often equipped with cardiovascular monitoring capabilities, contribute to the demand for continuous monitoring solutions, especially among individuals with lifestyle-related risk factors.

The need for convenient and accessible healthcare solutions has led to the development of home-based monitoring devices. Patients with lifestyle-related risk factors can use home-based devices to monitor blood pressure, heart rate, and other vital signs, providing a proactive approach to managing cardiovascular health. Lifestyle-related risk factors can contribute to the development of conditions like hypertension and hyperlipidemia. Point-of-care testing devices allow for rapid and convenient assessment of these risk factors, facilitating timely intervention and lifestyle modifications. The integration of telehealth and digital health platforms allows individuals to receive remote consultations and monitoring, reducing the barriers to accessing cardiovascular care.

Lifestyle-related risk factors can be addressed through virtual healthcare services that provide personalized advice and interventions. Cardiovascular devices often include features for patient education and engagement, helping individuals understand the impact of lifestyle choices on their heart health. Interactive features in monitoring devices can motivate individuals to adopt healthier lifestyles, thereby mitigating risk factors. Public health campaigns and initiatives focusing on preventive healthcare often emphasize lifestyle modifications to reduce cardiovascular risk. The demand for cardiovascular devices is influenced by the success of these initiatives in creating awareness and encouraging individuals to monitor and manage their cardiovascular health. This factor will pace up the demand of the UAE Cardiovascular Devices Market.

### Increasing Patient Awareness

Awareness about the risks and signs of cardiovascular diseases prompts individuals to actively monitor their heart health. Demand rises for wearable devices, such as smartwatches and fitness trackers, equipped with cardiovascular monitoring features, enabling users to track heart rate, activity levels, and other relevant metrics. Patients, with a greater understanding of the benefits of regular monitoring, seek convenient and home-based solutions. The demand increases for devices that enable at-home monitoring of vital signs, such as blood pressure monitors and electrocardiogram (ECG) devices, fostering a sense of control and early intervention.

Awareness encourages patients to engage more actively in their healthcare decisions. Cardiovascular devices with user-friendly interfaces and educational features cater to informed patients, allowing them to understand their health data and make informed choices for lifestyle modifications and treatment adherence. Knowledgeable patients are more likely to adopt preventive measures to reduce cardiovascular risks. The demand

rises for diagnostic devices that enable regular health check-ups, screenings, and point-of-care testing, contributing to early detection and prevention. Telehealth and Digital Health Platforms: Patient awareness of digital health options, including telehealth consultations, prompts individuals to seek remote healthcare services. Cardiovascular devices integrated with telehealth platforms become more appealing to patients who value the convenience of virtual consultations and remote monitoring.

Awareness about the availability of health and wellness apps encourages patients to actively participate in managing their cardiovascular health. Cardiovascular devices that seamlessly integrate with health apps and wellness programs experience increased demand as patients look for comprehensive solutions. Understanding cardiovascular risk factors motivates patients to address lifestyle-related issues. There is a growing demand for devices that assist in monitoring and managing specific risk factors, such as glucose monitors for diabetes management or devices that track physical activity levels. Informed patients seek devices that empower them to actively contribute to their healthcare journey. The demand increases for devices with features such as personalized health insights, goal setting, and interactive interfaces, enhancing the overall patient experience. This factor will accelerate the demand of the UAE Cardiovascular Devices Market.

## Key Market Challenges

### Cost Constraints

Cardiovascular devices often involve high initial acquisition costs, including the purchase of advanced diagnostic equipment, imaging systems, and interventional devices. These upfront expenses can strain healthcare budgets and financial resources. Ongoing maintenance and servicing of cardiovascular devices are essential to ensure their proper functioning and compliance with regulatory standards. The associated costs for maintenance contracts, software updates, and equipment servicing can be substantial. Healthcare professionals require specialized training to operate and interpret data from cardiovascular devices accurately. The costs associated with training programs, workshops, and ongoing education contribute to the overall financial burden. Import tariffs and duties imposed on medical devices can significantly impact the overall cost of cardiovascular devices in the UAE. These additional expenses may be passed on to end-users, including healthcare providers and patients. Government healthcare budgets may face limitations, impacting the ability to allocate sufficient funds for the procurement of cardiovascular devices. Budget constraints may lead to delayed acquisitions or a reduced capacity to invest in advanced technologies. Limited



reimbursement for certain cardiovascular procedures or devices can pose challenges for healthcare providers. This situation may affect the willingness to adopt new technologies or invest in the latest cardiovascular devices. The cost of cardiovascular procedures and devices can be a barrier for patients, especially if they are required to bear a significant portion of the expenses. This may affect patient compliance with recommended treatments and interventions.

## Workforce Shortages

The operation and maintenance of cardiovascular devices often require specialized training. A shortage of healthcare professionals with the necessary expertise in cardiovascular care, including cardiologists, cardiovascular surgeons, and skilled technicians, can limit the effective utilization of these devices. The demand for skilled cardiac professionals, including cardiologists and cardiac surgeons, may exceed the available workforce. This shortage can impact the timely delivery of cardiovascular services and may lead to delays in diagnosis and treatment. Interventional cardiology procedures, such as angioplasty and stent placement, require a team of skilled professionals. A shortage of interventional cardiologists and support staff can limit the capacity to perform these procedures efficiently. The shortage of specialized cardiac nurses can affect the quality of care provided to patients undergoing cardiovascular procedures. Skilled nursing staff is crucial for patient monitoring, post-procedure care, and patient education. The availability of allied health professionals, such as cardiovascular technologists and radiographers, is essential for conducting diagnostic imaging and other cardiovascular tests. A shortage in this workforce can lead to delays in diagnostic procedures. Limited educational infrastructure and training programs for cardiovascular professionals may contribute to workforce shortages. Insufficient training opportunities can hinder the development of a skilled workforce in cardiovascular care. The global demand for skilled healthcare professionals, including those specialized in cardiovascular care, can lead to international competition for talent. The UAE may face challenges in attracting and retaining qualified professionals.

## Key Market Trends

### Demand for Minimally Invasive Procedures

Minimally invasive procedures involve smaller incisions compared to traditional open surgeries. This leads to reduced surgical trauma, less tissue damage, and a quicker recovery for patients. Patients undergoing minimally invasive cardiovascular procedures often experience faster recovery times. Shorter hospital stays and quicker return to

normal activities contribute to the appeal of these procedures. Minimally invasive techniques are associated with a lower risk of complications, such as infections and bleeding, compared to open surgeries. This can enhance patient safety and outcomes. Smaller incisions in minimally invasive procedures result in improved cosmetic outcomes. This factor is particularly relevant in cardiovascular procedures where the surgical site is often visible. Catheter-based procedures, such as angioplasty and stent placement, have seen significant advancements. These procedures can be performed through minimally invasive techniques, reducing the need for open-heart surgery. Continuous innovations in interventional cardiology, including the development of advanced catheters, guidewires, and imaging technologies, enable complex procedures to be performed through minimally invasive means. Patients increasingly prefer minimally invasive options when available due to the perceived benefits, including faster recovery, reduced pain, and minimized scarring.

## Segmental Insights

## Type Insights

In 2022, the UAE Cardiovascular Devices Market largest share was held by Diagnostic & Monitoring Devices segment and is predicted to continue expanding over the coming years. The emphasis on preventive healthcare has been increasing globally, and cardiovascular diseases, including conditions like coronary artery disease, benefit significantly from early detection. Diagnostic and monitoring devices play a crucial role in preventive healthcare by enabling the identification of risk factors and early signs of cardiovascular issues. There's a notable increase in the incidence of cardiovascular diseases in the UAE, the demand for diagnostic and monitoring devices would naturally rise. These devices aid in the accurate diagnosis of cardiovascular conditions and allow for continuous monitoring of patients with existing heart conditions. Ongoing advancements in medical technology have led to the development of more sophisticated and accurate diagnostic and monitoring devices. The adoption of these advanced technologies, such as wearable devices and remote monitoring solutions, contributes to the growth of the Diagnostic & Monitoring Devices segment. The increasing preference for remote patient monitoring solutions, especially in the context of cardiovascular diseases, is a significant driver. Patients and healthcare providers can benefit from continuous monitoring outside of traditional healthcare settings, enabling early intervention and personalized care. Lifestyle-related factors such as sedentary behaviour, unhealthy diets, and stress contribute to the increasing prevalence of cardiovascular diseases. Diagnostic and monitoring devices help individuals and healthcare professionals assess and manage these risk factors, contributing to the

prominence of this market segment.

### Application Insights

In 2022, the UAE Cardiovascular Devices Market largest share was held by coronary artery disease segment and is predicted to continue expanding over the coming years. there is a high prevalence of coronary artery disease in the UAE population, it would naturally drive the demand for cardiovascular devices specifically designed for the diagnosis and treatment of CAD. Factors such as lifestyle choices, diet, and genetic predisposition can contribute to the prevalence of CAD. Ongoing advancements in medical technology, especially those related to the diagnosis and treatment of coronary artery disease, may lead to an increased adoption of CAD-specific cardiovascular devices. This could include innovations in diagnostic imaging, interventional cardiology, and implantable devices. Increased awareness and proactive screening programs for coronary artery disease can result in early detection and diagnosis. Therefore, there may be a higher demand for cardiovascular devices that aid in the assessment and monitoring of CAD. Coronary artery disease often requires interventional cardiology procedures, such as angioplasty and stent placement. The use of devices in these procedures, such as catheters, guidewires, and stents, contributes to the prominence of the CAD segment in the cardiovascular devices market. There are specific government health initiatives or policies targeting the prevention, diagnosis, and treatment of coronary artery disease, it can significantly influence the market dynamics. Government support may lead to increased investment in CAD-specific healthcare infrastructure and technologies.

### End-User Insights

In 2022, the UAE Cardiovascular Devices Market largest share was held by Hospitals & Clinics segment in the forecast period and is predicted to continue expanding over the coming years. Hospitals and clinics are often equipped with specialized departments and facilities for cardiovascular care. These institutions have the infrastructure and expertise to handle a wide range of cardiovascular conditions, from diagnostics to surgical interventions. As a result, they are significant consumers of cardiovascular devices. Hospitals, especially larger medical centers, tend to have advanced medical equipment and facilities. Cardiovascular devices, which often involve sophisticated technologies, find a natural fit in these settings. The availability of advanced cath labs, imaging equipment, and operating theaters in hospitals supports the use of cardiovascular devices. Hospitals generally house a diverse range of healthcare professionals, including cardiologists, cardiovascular surgeons, and specialized nursing



staff. The proximity to these professionals is crucial for the effective use of cardiovascular devices, which often require skilled personnel for proper administration and interpretation of results. Hospitals provide comprehensive healthcare services, allowing for the seamless integration of cardiovascular care into overall patient treatment plans. This comprehensive approach encourages the use of a variety of cardiovascular devices to address different aspects of patient care, from diagnosis to treatment and monitoring. Hospitals are equipped to handle emergency cardiovascular cases and provide timely interventions. Cardiovascular emergencies, such as heart attacks, often require immediate medical attention and may involve the use of specialized devices for diagnostics and treatment.

## Regional Insights

The Abu Dhabi region dominates the UAE Cardiovascular Devices Market in 2022. Abu Dhabi has been known for its commitment to developing advanced healthcare infrastructure. The presence of state-of-the-art hospitals, medical centers, and specialized cardiovascular care facilities in Abu Dhabi can attract both patients and healthcare providers, fostering the demand for cardiovascular devices. The government of Abu Dhabi, like the broader UAE, has been proactive in investing in healthcare initiatives. Initiatives aimed at improving healthcare services, upgrading medical facilities, and promoting medical tourism may contribute to the dominance of the Abu Dhabi region in the cardiovascular devices market. Abu Dhabi has been working to establish itself as a hub for research and innovation in various sectors, including healthcare. This focus on innovation may attract companies and professionals working in cardiovascular devices, leading to a concentration of expertise and market activity in the region.

## Recent Developments

In June 2022, A groundbreaking initiative by health tech pioneers and cardiologists operating under the banner of UPOlife has resulted in the development of a revolutionary product – the UPOlife Wearable Biosensor Patch. This innovative solution is designed to effectively address challenges arising from the pandemic by enabling users to remotely assess their heart health and overall wellness. The UPOlife Wearable Biosensor Patch, a disposable medical-grade heart health screening device, boasts internal data storage capabilities for a comprehensive 7-day monitoring period. Notably, the patch eliminates the need for additional applications and doctor visits for application. Patients can seamlessly integrate vital signs monitoring into their daily routines, as the device records a two-channel electrocardiogram (ECG) signal, heart rate, and heart rate

variability. Subsequently, the UPOlife team leverages this data to generate a comprehensive heart health and wellness report, with all findings validated by a professional cardiologist.

### Key Market Players

Medtronic Meta FZ-LLC

Abbott Laboratories S.A.

Terumo UAE

Philips Healthcare UAE

Life Companion

Vasmed UAE

Life Mate Medical Equipment Trading LLC

### Report Scope:

In this report, the UAE Cardiovascular Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Cardiovascular Devices Market, By Type:

Diagnostic & Monitoring Devices

Surgical Devices

#### Cardiovascular Devices Market, By Application:

Coronary Artery Disease

Cardiac Arrhythmia

Heart Failure

Others

Cardiovascular Devices Market, By End-User:

Hospitals & Clinics

Diagnostic Centers

Others

Cardiovascular Devices Market, By region:

Dubai

Abu Dhabi

Sharjah

Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the UAE Cardiovascular Devices Market.

Available Customizations:

UAE Cardiovascular Devices Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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