

# **Malaysia Pacemaker Market By Type (Implantable v/s External), By Technology (Dual Chamber, Single Chamber, Biventricular Chamber), By Product Type (MRI Compatible v/s Conventional), By Application (Arrhythmias, Congestive Heart Failure, Others), By End User (Hospitals, Cardiac Care Centers, Ambulatory Surgical Centers), By Region, Competition, Forecast & Opportunities, 2018-2028F**

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## **Abstracts**

Malaysia pacemaker market is anticipated to witness a growth of steady CAGR during the forecast period. The pacemaker market in Malaysia has witnessed a remarkable growth over the past few years, owing to the increasing prevalence of cardiovascular disease and cardiovascular surgeries in Malaysia.

Cardiovascular disease (CVD) refers to a group of conditions that affect the heart and blood vessels. According to the National Health and Morbidity Survey (NHMS) conducted in 2019, the prevalence of CVD in Malaysia was 15.6%, up from 13.7% in 2015. This increase is primarily due to the rise in the number of people with hypertension (approximately 30% of Malaysians aged 18 years and above are affected from hypertension, according to the Malaysian National Health and Morbidity Survey 2019), diabetes (the diabetes prevalence in Malaysia ranges from 7.3% to 23.8%, according to published reports), and obesity (according to the National Health and Morbidity Survey (NHMS) 2019, Malaysia's obesity rate among 18 years and above is reported to be 19.7%), which are risk factors for CVD.

In addition, the number of cardiovascular surgeries in Malaysia has been on the rise in

recent years, primarily due to the increasing prevalence of CVD. According to the Malaysian National Cardiovascular Disease Database (NCVD), the number of cardiovascular surgeries performed in Malaysia increased from 10,790 in 2010 to 17,514 in 2018.

Also, rising healthcare expenditure is driving the pacemaker market in Malaysia. The Malaysian government has increased its healthcare expenditure in recent years, with a focus on improving healthcare infrastructure and increasing access to medical services. This has led to an increase in the number of hospitals and healthcare facilities in the country, which has further increased the demand for pacemakers, thereby expanding the Malaysia pacemaker market.

### Increasing Cases of Arrhythmia and Bradycardia in Malaysia

Arrhythmia and bradycardia are two heart conditions that are becoming increasingly prevalent in Malaysia. Arrhythmia is a condition where the heart beats irregularly or too quickly, while bradycardia is a condition where the heart beats too slowly. Both conditions can lead to serious health complications if left untreated.

One of the primary reasons for the increasing incidence of arrhythmia and bradycardia in Malaysia is the aging population. As people get older, the risk of developing heart problems increases. According to the World Health Organization (WHO), the percentage of people aged 65 years and older in Malaysia is expected to increase from 5.1% in 2020 to 9.9% in 2050. This demographic shift is likely to result in a higher prevalence of heart conditions such as arrhythmia and bradycardia.

Another contributing factor is the lifestyle changes in Malaysia, such as a sedentary lifestyle, poor diet, and increasing stress levels. These factors can increase the risk of developing cardiovascular disease, which, in turn, increases the likelihood of developing arrhythmia or bradycardia.

Arrhythmia and bradycardia can have serious consequences if left untreated. Arrhythmia can lead to blood clots, stroke (according to a 2020 data by WHO, stroke deaths in Malaysia accounted for 12.85% of total deaths), heart failure, and even sudden cardiac arrest. Bradycardia, on the other hand, can lead to fatigue, dizziness, fainting, and shortness of breath. In severe cases, bradycardia can also lead to cardiac arrest.

The increasing incidence of arrhythmia and bradycardia in Malaysia is also putting a

strain on the country's healthcare system. The cost of treatment for these conditions can be high, especially for patients who require long-term care. This can be a burden on both the patients and their families.

Preventing arrhythmia and bradycardia involves making lifestyle changes such as adopting a healthy diet, exercising regularly, reducing stress, and quitting smoking. Early detection is also essential, and patients who have a family history of heart disease or experience symptoms such as palpitations, dizziness, or shortness of breath should seek medical attention promptly.

Treatment for arrhythmia and bradycardia in Malaysia typically involves medication, lifestyle changes, and in severe cases, the use of pacemakers or implantable cardioverter-defibrillators (ICDs), thereby fuelling the Malaysia pacemaker market.

### Advances in Technology

Pacemakers are small electronic devices that are implanted under the skin of the chest to help regulate an irregular heartbeat. These are life-saving devices for millions of people across the world, and these have been in use for several decades. However, over the years, technological advancements have led to significant improvements in pacemaker technology, making them more effective and efficient than ever before. Some of the technological advancements in pacemakers are:

**Smaller size and longer battery life:** One of the most significant technological advancements in pacemakers is their smaller size and longer battery life. Earlier, pacemakers were bulky and required frequent battery replacements. However, modern pacemakers are much smaller and can last up to 10 years or more, reducing the need for frequent surgeries. In fact, the Institut Jantung Negara Sdn Bhd (IJN), better known as National Heart Institute, Kuala Lumpur, Malaysia became the first hospital outside the United States to successfully implant the world's smallest pacemaker with atrioventricular (AV) synchrony named Micra AV by Medtronic Inc. in 2020.

**2. Dual-chamber pacemakers:** Dual-chamber pacemakers are devices that can sense and pace both the upper and lower chambers of the heart. This technology has significantly improved the effectiveness of pacemakers, as it allows for more precise control of the heartbeat.

**3. Remote monitoring:** Remote monitoring is a recent advancement in pacemaker technology that allows doctors to monitor pacemaker performance and patient health

remotely. Patients with remote monitoring-enabled pacemakers can transmit data to their healthcare providers via the internet, allowing for more frequent monitoring and faster response times.

4. MRI compatibility: Earlier pacemakers were not compatible with MRI machines, making it challenging for patients who required MRI scans. However, modern pacemakers are MRI compatible, allowing patients to undergo MRI scans without any risk of interference.

5. Leadless pacemakers: Leadless pacemakers are a recent innovation in pacemaker technology. Unlike traditional pacemakers, leadless pacemakers are inserted directly into the heart and do not require leads or wires. They are smaller, safer, and more comfortable than traditional pacemakers.

Furthermore, the usage of cardiac resynchronization therapy device pacemaker (CRT-P) devices in Malaysia has increased significantly over the past few years. A CRT-P device is a small electronic device that is implanted under the skin in the chest area. It is similar to a traditional pacemaker but has additional features that help to synchronize the contractions of the heart's ventricles. This improves the heart's pumping ability and helps to reduce symptoms of heart failure such as fatigue, shortness of breath, and swelling in the legs.

Cardiac resynchronization therapy (CRT) is a treatment option for people with heart failure who have a specific type of abnormal heartbeat. This treatment involves the use of a CRT-P to help regulate the heartbeat and improve the patient's quality of life.

### Surge in Elderly Population in Malaysia

Malaysia, like many other countries around the world, is experiencing a significant demographic shift with a growing geriatric population. This is due to a combination of factors, including advancements in healthcare, improved living standards, and a decrease in birth rates.

The geriatric population in Malaysia is defined as individuals aged 60 and above. According to the Department of Statistics Malaysia, the geriatric population in Malaysia is projected to reach 9.9 million by 2040, accounting for approximately 25% of the total population. This is a significant increase from the 2019 figure of 3.3 million geriatric individuals, which accounted for 10.2% of the total population.

The growing geriatric population in Malaysia has several implications, including:

**Increased healthcare needs:** As individuals age, they are more likely to develop chronic health conditions that require ongoing medical care. This puts a strain on the healthcare system, as there are more patients requiring medical attention.

**Increased demand for elderly care services:** As the geriatric population grows, there is an increased demand for elderly care services, such as assisted living facilities, nursing homes, and home care services.

**Economic implications:** An aging population can have economic implications, such as increased healthcare costs, decreased productivity, and increased dependency ratios.

### Market Segmentation

The Malaysia pacemaker market can be segmented by type, application, end user, source, and by region. Based on type, the market can be divided into diagnostic & monitoring devices and surgical devices. Based on application, the market can be segmented into coronary artery disease, cardiac arrhythmia, heart failure, and others. Based on end user, the market can be fragmented into hospitals & clinics, diagnostic centers, and others. Based on source, the market can be split into import and domestic.

### Market Players

Medtronic Malaysia Sdn Bhd, Boston Scientific Medical Device (Malaysia) Sdn. Bhd., BIOTRONIK Medical Devices (Malaysia) SDN BHD, Abbott Malaysia Sdn Bhd, and Osypka Medical Asia Pacific Sdn Bhd, are some of the leading players operating in the Malaysia pacemaker market.

### Report Scope:

In this report, the Malaysia pacemaker market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Malaysia Pacemaker Market, By Type:

Implantable

External

Malaysia Pacemaker Market, By Technology:

Dual Chamber

Single Chamber

Biventricular Chamber

Malaysia Pacemaker Market, By Product Type:

MRI Compatible

Conventional

Malaysia Pacemaker Market, By Application:

Arrhythmias

Congestive Heart Failure

Others

Malaysia Pacemaker Market, By End User:

Hospitals

Cardiac Care Centers

Ambulatory Surgical Centers

Malaysia Pacemaker Market, By Region:

West

East

Competitive Landscape

*Malaysia Pacemaker Market By Type (Implantable v/s External), By Technology (Dual Chamber, Single Chamber, Biv...*

Company Profiles: Detailed analysis of the major companies present in the Malaysia pacemaker market.

Available Customizations:

With the given market data, TechSci 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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