

# **Israel Pacemaker Market, By Type (Implantable, External), By Technology (Single Chamber, Dual Chamber, and Biventricular Chamber), By Product Type (Conventional, MRI Compatible), By Application (Arrhythmias, Congestive Heart Failure, and Others), By End User (Hospitals, Cardiac Care Centers, and Ambulatory Surgical Centers), By Region, Competition, Forecast and Opportunities, 2028**

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## **Abstracts**

Israel pacemaker market is expected to grow at an impressive rate during the forecast period, 2024-2028. The major factors include increasing prevalence of cardiovascular diseases, a rise in the aging population, technological advancements, and an increase in healthcare expenditure. Additionally, the rise in awareness about heart health and the availability of innovative pacemaker devices are contributing to the growth of Israel pacemaker market.

Pacemaker is a medical device that can be placed in human body, usually by surgery, to support the electrical system of the heart. This is also used to prevent heart conditions when the heartbeat is too low. A pacemaker is a medical device that is implanted in the chest to regulate the heartbeat and provide a steady rhythm. It does this by emitting electrical signals that stimulate the heart muscle to contract at a regular pace. As the number of people with cardiovascular diseases continues to increase, the demand for pacemakers has also been rising.

Furthermore, the two main components of the pacemaker are the leads and a pulse generator. A battery and a tiny computer are installed in the pulse generator, which is

located just beneath the skin of the chest. The leads are wires that are implanted into the heart's muscle after being inserted through the veins. They sense the electrical activity of the heart as well as transmit impulses from the pulse generator to the heart muscle. The heart contracts with each impulse. Depending on the kind of pacemaker required to treat your heart condition, the pacemaker could have one to three leads.

According to Israel Heart Society in 2018, approximately 25,000 hospitalizations occur because of myocardial infarction each year; 43,000 patients have coronary angiograms annually, and 23,000 patients undergo percutaneous coronary interventions. Cardiovascular diseases cause extensive morbidity and mortality in Israel and hence, a heavy burden for the healthcare system.

Due to the high prevalence of congenital and surgically acquired disturbances, permanent pacemakers are primarily used in the geriatric population. Another important factor influencing the growth of the Israel pacemaker market is the rising desire for pacemaker implantations that are painless for patients and only necessitate minimally invasive procedures and thereby participates in the growth of Israel pacemaker market.

### Rising Prevalence of Cardiovascular Diseases

Israel is a low-to-middle income nation with a significantly increased risk of cardiovascular disease, such as heart failure, arrhythmias, and other cardiac conditions. Cardiac conditions can cause disruptions in the heart's electrical system, leading to an irregular heartbeat or a complete blockage of the heart's electrical signals. Heart disease is the second cause of mortality (after cancer) and in recent years, it accounted for 15% of the total number of deaths. Cardiac diseases affect 10.2% of Israeli men and 7.1% of women, with a prevalence of coronary artery disease of 7.5% and 4.1%, respectively. Cardiac disorders increase with age, for instance, 42% of men and 31% of women aged  $\geq 75$  years have a cardiac illness which propels the growth of Israel pacemaker market. A pacemaker is necessary for several heart disorders, including bradycardia, arrhythmias, ventricular fibrillation, ventricular tachycardia, and heart failure. The prevalence of cardiac arrhythmia is attributed to factors including lifestyle problems, excessive alcohol use, smoking, and obesity, which are predicted to boost the expansion of the Israeli pacemaker market. In Israel, rising lifestyle problems like obesity are widespread and play a significant role in the rise of cardiovascular diseases. The Israel obesity rates are on the increase, with 62 percent of men and 55% of women aged 20-64 being overweight as of 2018, as per a report released Sunday by the Israel National Institute for Health Policy and Health Services Research (NIHP). Congestive

heart failure, hypertrophic cardiomyopathy, and fainting spells (syncope) are some conditions that could be treated with a pacemaker and is thereby one of the important factors responsible to bolster the market growth in the forecast period.

### Growing Geriatric Population

According to a World Health Organization report, approximately 82% of deaths and around 67% of premature deaths are caused due to occurrence of non-communicable diseases (NCDs). With the rise in aged population around the world, the demand for pacemakers is expected to increase further. Cardiovascular diseases (CADs) are particularly prevalent among the ageing population in Israel due to the high prevalence of risk factors such as hypertension, diabetes, and smoking. Among the geriatric population, smoking includes a higher risk for cardiovascular diseases and thus, is responsible for indirectly increasing the demand for pacemakers. According to MoHP and WHO survey, in 2017, approximately 43.4% of males and 0.5% of females were smokers, and along with it around 24.9% of the population was physically inactive among the population. Generally, people above the age of 65 or 70 years of age have a high demand for pacemakers. This is due to the physiological changes one undergoes during the ageing process in which the heart's conduction system becomes disordered. Moreover, there are conditions such as reduction in P cells and an increase in collagen in the sinoatrial node. Also in some cases, the number of conduction cells in the bundle , branches also decrease, which leads to the disfunction or slow functioning of the heart. This makes the heart treatments necessary, which heightens the demand for pacemakers in the Israel pacemaker market. Additionally, as the elderly population increases, there is a greater demand for healthcare services, including long-term care and specialized geriatric care. Furthermore, there may be an increased burden on the social security system, as the elderly population may require additional financial support.

### Technological Advancements

Growing technological advancements, such as, development of leadless pacemakers in pacemakers led to an increase in demand for these devices. These devices are smaller than traditional pacemakers and do not require leads to be implanted in the heart and reduces the risk of complications making the implantation process less invasive. Also, leadless pacemakers have a longer battery life, reducing the need for frequent replacements in the patient. The emergence of leadless pacemakers has been the most typical recent development in the pacemaker sector. Leadless pacemakers are self-contained devices that are implanted directly into the heart, in contrast to conventional

pacemakers that need leads to be run through veins and connected to the heart. These devices have been demonstrated to have fewer problems and a reduced risk of infection than conventional pacemakers since they are smaller and less intrusive. Additionally, in June 2021, Medtronic Private Limited launched Micra AV, a miniaturized, fully self-contained pacemaker that delivers advanced pacing technology to atrioventricular (AV) block patients via a minimally invasive approach. The device is the first pacemaker that can sense atrial activity without a lead or device in the upper chamber of the heart. In January 2021, Boston Scientific Corporation announced its plan to acquire the remote cardiac monitoring developer, Preventice Solutions. Israel is a center for artificial intelligence and machine learning technologies, which are being integrated into pacemaker technologies. These technologies can help to improve the accuracy of pacemaker settings and reduce the risk of complications, further driving the growth of Israel pacemaker market. Moreover, the recent advancement in pacemaker technology has been the introduction of Bluetooth-enabled devices. These pacemakers can be monitored remotely by healthcare providers, allowing for more frequent and accurate tracking of patient health, and reducing the need for in-person visits. This technology also allows for more efficient adjustment of pacemaker settings to meet each patient's specific needs, potentially improving outcomes and reducing the need for further interventions. These advances have made pacemakers more accessible to a broader range of patients and have led to an increase in demand for these devices including pacemakers in Israel.

## Market Segmentation

The Israel pacemaker market can be segmented by type, technology, product type, application, end user, and region. Based on type, the market is segmented into implantable and external. Based on technology, the market is segmented conventional, and MRI Compatible. Depending on the product type, the market is fragmented into arrhythmias, congestive heart failure, and others. Based on the end user, the market is further divided into hospitals, cardiac care centers, and ambulatory surgical centers. Based on region, the market is segmented into the Mediterranean Coastal Plain, the Central Hills, the Jordan Rift Valley, and the Negev Desert.

## Market Players

MEDTRONIC ISRAEL, BOSTON SCIENTIFIC ISRAEL LTD, Israel Abbott, Edwards Lifesciences Israel Ltd., and Johnson and Johnson Israel are some of the leading companies operating in the market.

## Report Scope:

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

### Israel Pacemaker Market, By Type

Implantable

External

### Israel Pacemaker Market, By Technology

Single Chamber

Dual Chamber

Biventricular Chamber

### Israel Pacemaker Market, By Product Type

Conventional

MRI Compatible

### Israel Pacemaker Market, By Application

Arrhythmias

Congestive Heart Failure

Others

### Israel Pacemaker Market, By End User

Hospitals

Cardiac Care Centers

Ambulatory Surgical Centers

Israel Pacemaker Market, By Region:

The Mediterranean coastal plain

The Central Hills

The Jordan Rift Valley

The Negev Desert

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Israel 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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