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VISION

To emerge as one of the premier pharmacy colleges in the country and produce pharmacy professional of global Standards.

MISSION

- To deliver quality academic programs in Pharmacy and empower the students to meet industrial standards.
- To build student community with high ethical standards to undertake R&D in thrust areas of national and international standards.
- To extend viable outreach programs for the health care need of the society.
- To develop industry institute interaction and foster entrepreneurial spirit among the

THE RECHARGEABLE PACEMAKER

S Srija, Pharm D VI Yr

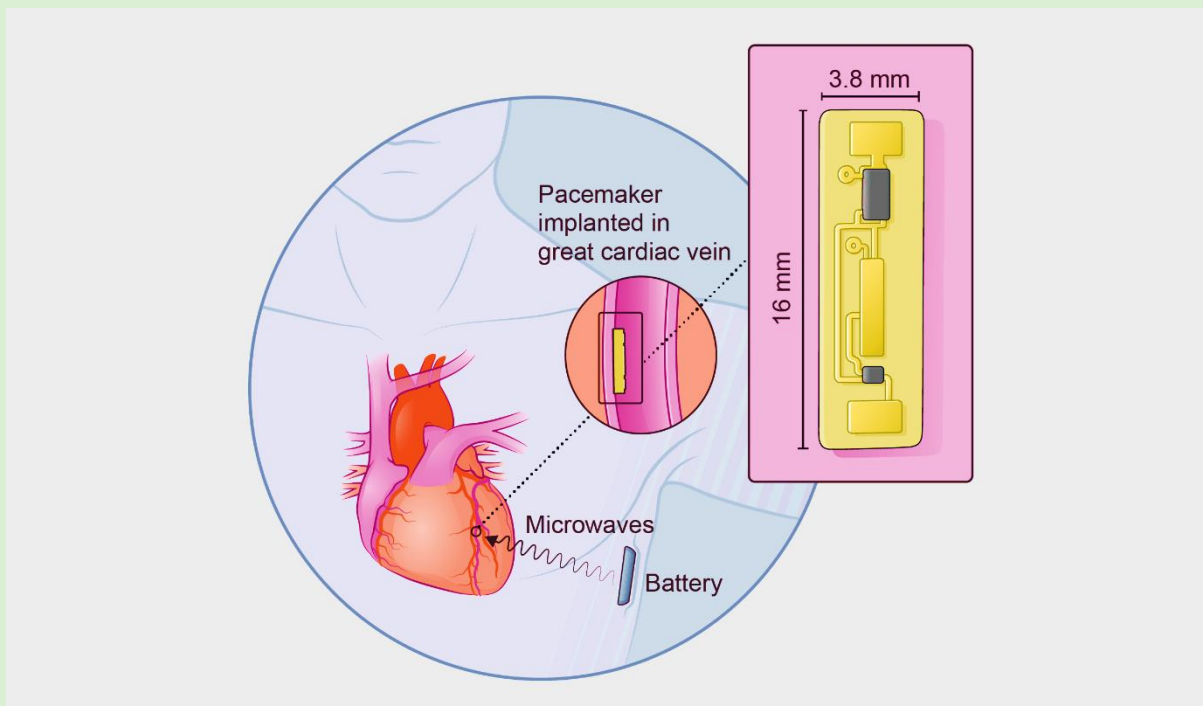


Introduction

A pacemaker is also called a cardiac pacing device. Pacemaker is an electric medical device that's generally about the size of a matchbox. It's used to prevent the heart from beating too slowly. Implanting a pacemaker in the chest requires a surgical procedure. A surgeon implants it under your skin to help manage irregular heartbeats called arrhythmias. Pacemakers can also be used to treat some types of heart failure.

What A Pacemaker Does

- Pacemakers only function when they are required. If your heart rate is too slow (bradycardia), the pacemaker provides electrical instructions to your heart to speed it up.
- Sensors in some contemporary pacemakers detect body movements or breathing rate and notify the devices to boost heart rate during exercise.



A pacemaker is made up of two parts:

Pulse Generator:

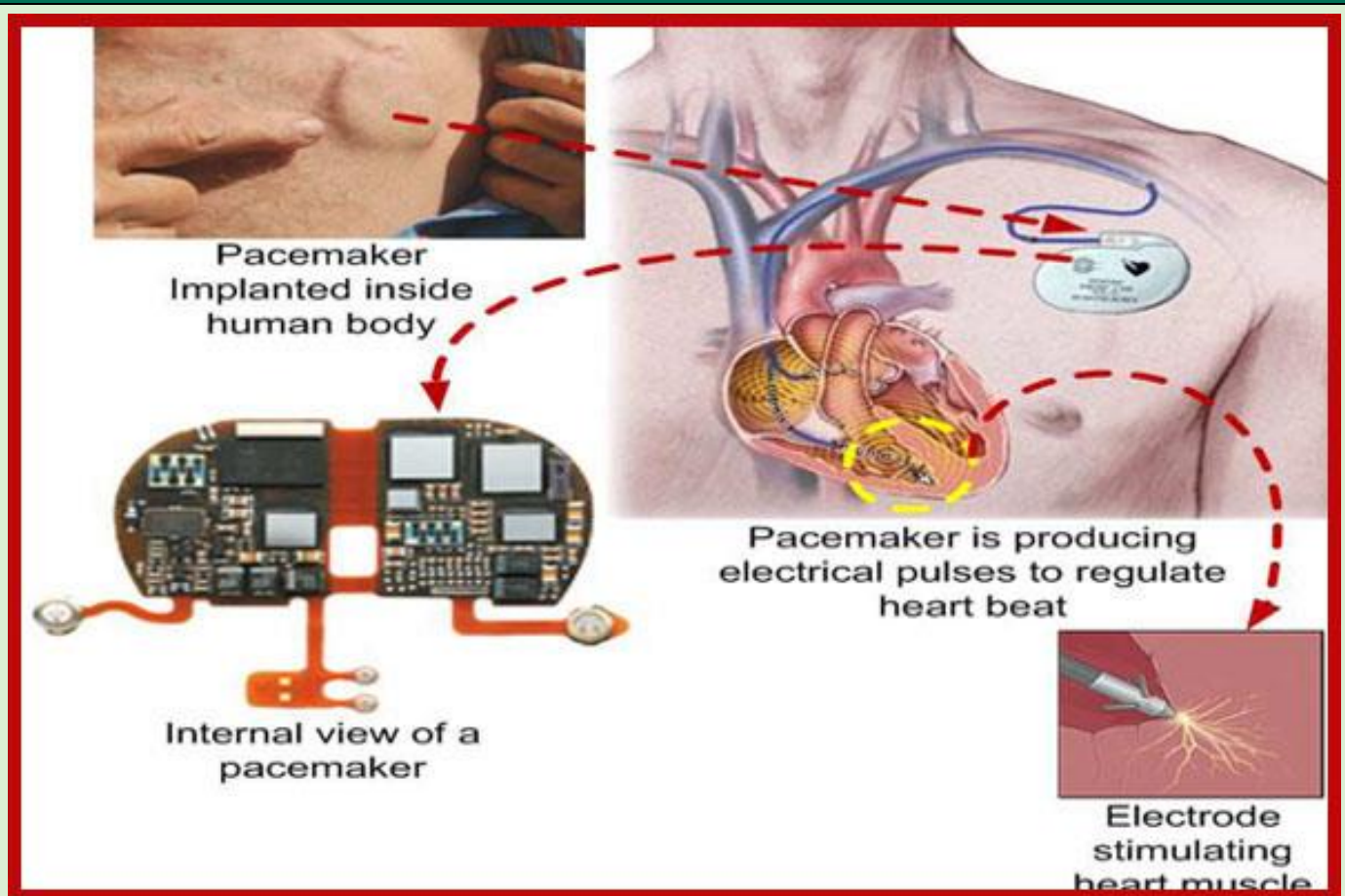
- Generator of pulses. This compact metal container holds a battery as well as the electrical circuitry that regulates the pace at which electrical pulses are supplied to the heart.

Leads:

- Leads (electrodes). Each of one to three flexible, insulated wires is implanted in one or more chambers of the heart and delivers electrical pulses to regulate the heart rhythm. Some modern pacemakers, however, do not require leads. These leadless pacemakers are surgically placed.

Who Needs a Pacemaker?

- A heartbeat that pauses or slow,
- A heartbeat that's irregular or too fast,
- Some types of heart failure.



Side Effects:

Pacemakers are generally safe; however, there may be few side effects present, which include:

- Infection at the pacemaker's site
- Swelling, bleeding or bruising at the pacemaker's site
- A collapsed lung
- Damage to blood vessels or nerves near the pacemakers
- Allergic reaction to dye or anaesthesia used during the surgery

There may be a 1% risk of below conditions after placing a pacemaker:

- Stroke
- Heart attack
- Damage to the heart or lungs

There's a 5% chance of lead dislodging that may require reoperation. Additionally, there is a risk of damage to the lead.

Percentage of Pacemaker Causing Death:

- 10-30% of the patient with cardiac pacemaker die suddenly.

Pacemaker A Low-Risk Surgery:

- Pacemaker surgery is generally considered low risk surgery and it will be only one-hour surgery and patient will be discharged with in a day.

Reason Behind Pacemaker Operation Failed:

- Pacemaker can go wrong if the lead gets pulled out of position, the battery of the pulse generator fails.

Is Pacemaker Implantation A Type of Open-Heart Surgery?

- The implantation of a pacemaker does not necessitate **open-heart surgery**. Most patients are fit enough to go home within 24 hours. Generally, this procedure is executed using local anaesthesia.

How Long Does the Pacemaker Surgery Take?

- The duration of the pacemaker surgery is generally around one to two hours. If the patient is undergoing any other heart surgery, the procedure may take longer.

Conclusion:

There have been a lot of devices, instruments and other products of technology emerged in the field of medicine. These products help people to do their daily activities. Pacemaker is one of these products that are considered helpful in the field of medicine

Departmental Activities August-2022:

No of Patients Screened	Drug Information Queries	Adverse Drug Reactions	Medication Errors	No of Prescriptions Audited
1356	35	41	04	1258