



## Advancements in Medical Implants: Transforming Healthcare

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### Abstract

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**\*Corresponding author:**

**Received:**

**Published:**

**Citation:**

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**Revised:**

**Editor assigned:  
Reviewed:**

innovation paved the way for the use of synthetic materials in medical implants, opening up new possibilities for design and functionality. Over time, advances in materials, such as titanium, biocompatible ceramics, and polymers, have greatly improved the durability and compatibility of implants [8].

### **Types of medical implants**

Medical implants encompass a wide range of devices, each designed to address specific medical needs. Here are some common types of medical implants:

**Orthopedic implants:** These include joint replacements (e.g., hip and knee replacements), bone plates, screws, and spinal implants used to treat musculoskeletal disorders and injuries [9].

**Cardiovascular implants:** Devices like pacemakers, defibrillators,

