



Piezoelectric Bone Conduction Hearing Implants

Source: [HT](#)

Command Hospital Pune has achieved a significant milestone by successfully performing two **piezoelectric bone conduction hearing implants**, marking the **first instance of such procedures in a government hospital in India**.

- The piezoelectric bone conduction hearing implant system is an expensive implantable medical device designed for patients with hearing impairments, including those with conductive loss (such as **aural atresia**), mixed hearing loss, and **single-sided deafness (SSD)**.
 - **Aural atresia** is a congenital condition that affects the development of the ear, specifically the ear canal.
 - In individuals with aural atresia, the ear canal fails to form properly or is completely absent, leading to significant hearing impairment or deafness in the affected ear.
 - Single-sided deafness is a condition in which an individual experiences complete or near-complete hearing loss in one ear, while the other ear has normal or near-normal hearing.
- **Piezoelectricity** is a property of certain materials that induces an electric current when mechanically stressed.

Read more: [Piezoelectric Effect](#), [Empowering Persons with Disabilities](#)

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