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MED-EL is the technology leader in hearing loss solutions. For more than two decades, MED-EL has advanced the technological and scientific foundation in systems for hearing loss. Our strong and consistent focus on research and development will continue to fuel the pipeline of innovations, and our broad portfolio of products ensures that we can provide an optimal hearing loss solution to treat each individual candidate.

MED-EL was there at the beginning and we will be there for you today, tomorrow, and in the future, offering the most advanced hearing solutions.
SYNCHRONY
Cochlear Implant System

The SYNCHRONY Cochlear Implant System provides exceptional hearing performance, outstanding reliability, and unmatched MRI safety. It is powered by signature MED-EL technologies designed for more natural hearing.

The Right Audio Processor
SYNCHRONY recipients can choose between the SONNET® Behind-the-Ear Audio Processor and the RONDO® Single-Unit Processor. Both audio processors are powered by proven Triformance® technology for more natural hearing.

SONNET Behind-the-Ear Audio Processor
With dual microphone technology, SONNET features Automatic Sound Management (ASM 2.0) for hands-free control and effortless listening in any environment. ASM 2.0 automatically adjusts volume levels, reduces wind noise, and helps recipients focus their hearing. The water-resistant, lightweight, and tamper-proof SONNET is an ideal choice for both children and adults.

RONDO Single-Unit Audio Processor
RONDO combines the control unit, battery pack, and coil into a compact and convenient single-unit processor. RONDO is worn off the ear, so it is especially comfortable for individuals who wear glasses. With the WaterWear accessory, RONDO is fully waterproof.
SYNCHRONY Cochlear Implant
With a freely rotating and self-aligning magnet, SYNCHRONY is the only cochlear implant that’s MR Conditional at 3.0 Tesla without the need for magnet removal. SYNCHRONY is the smallest and lightest cochlear implant available, and is designed for long-term safety and reliability. The SYNCHRONY PIN variant features small (1.4 mm) titanium pins to secure the placement of the implant.

MED-EL offers the most comprehensive portfolio of electrode arrays. Paired with the softest and most flexible electrode arrays, SYNCHRONY preserves the delicate neural structures of the cochlea.

Powered by Triformance
Recipients can protect their hearing, experience the fullest, richest range of sounds, and perceive speech and music more naturally—all with Triformance. To give recipients the most natural hearing possible, SYNCHRONY is powered by Triformance, the combination of three key MED-EL technologies: Structure Preservation, Complete Cochlear Coverage, and FineHearing.

Candidacy
For individuals with severe-to-profound sensorineural hearing loss in one or both ears, a cochlear implant (CI) system uses electrical stimulation in the inner ear to restore hearing.

Pure-tone threshold criteria alone do not provide sufficient information to determine implant candidacy. Refer to the relevant instructions for use.
SYNCHRONY EAS
Hearing Implant System

Electric Acoustic Stimulation (EAS) is a potential solution for partial deafness, also known as high-frequency hearing loss.

High-frequency hearing loss is a type of sensorineural hearing loss which occurs when hair cells in the cochlea are missing or damaged. It is different from normal sensorineural hearing loss because the extent of hearing loss varies depending upon the frequency of sound: in high-frequency hearing loss, a minimal-to-moderate hearing loss in the low frequencies becomes a profound hearing loss in the high frequencies.

EAS provides both electric stimulation from a cochlear implant and acoustic amplification similar to a hearing aid, in one device, so users benefit from hearing in all frequencies. The audio processor detects sounds and converts the high frequencies into electric pulses and acoustically amplifies the low frequencies. The electric pulses are sent directly to the cochlea via the electrode array, while the acoustically-amplified sounds follow the natural hearing pathway.

SONNET EAS Audio Processor
The SYNCHRONY EAS System with the SONNET EAS Audio Processor is the 3rd generation Electric Acoustic Stimulation (EAS) system from MED-EL, the pioneer of combined Electric Acoustic Stimulation. SONNET EAS combines the SONNET Audio Processor with an acoustic unit and customised ear mould to provide dedicated acoustic stimulation across the low frequencies and electric stimulation in the high frequencies. With 6-channel fitting and 48 dB acoustic amplification across the low frequencies, SONNET EAS is the ideal solution for candidates with partial deafness.

Colour Options
6 base colour options for control unit and coil
4 colour options for coil cable
15 colour options for microphone cover (glossy) and battery pack cover
FLEX24 and FLEX20 Electrode Array

The FLEX24 and FLEX20 are especially designed for individuals with partial deafness, as they cover only the basal region of the cochlea responsible for high-frequency sounds. The unique wave-shaped wires and the FLEX-Tip significantly reduce insertion force and are gentler to the delicate structures of the inner ear.

Structure Preservation

MED-EL understands the importance of protecting the delicate neural structures within the cochlea to preserve residual hearing. Our unique electrodes are the softest and most flexible available. They are designed to preserve residual hearing, so users can retain the ability to hear sound both now and in the future.

Candidacy

For individuals with minimal-to-moderate hearing loss in the low frequencies that becomes a profound hearing loss in the high frequencies.

Pure-tone threshold criteria alone do not provide sufficient information to determine implant candidacy. Refer to the relevant instructions for use.
MED-EL Electrode Arrays

MED-EL provides the widest portfolio of electrode arrays available, enabling the ideal electrode to be selected for each individual candidate. Specifically engineered for Structure Preservation to ensure cochlear integrity, MED-EL electrode arrays are the most atraumatic electrode arrays available. Only MED-EL’s long, flexible electrode arrays that facilitate Structure Preservation can be inserted fully into the cochlea, achieving Complete Cochlear Coverage for optimal hearing outcomes.

**FLEXSOFT™**
A flexible 31.5 mm electrode array designed for Structure Preservation and ideal for Complete Cochlear Coverage.

**FLEX28™**
A flexible 28 mm electrode arrays designed for Structure Preservation and Complete Cochlear Coverage. Suitable for most normal cochlear anatomies.

**FLEX24™**
A 24 mm electrode array featuring FLEX-Tip technology and designed for combined Electric Acoustic Stimulation (EAS) with an insertion of fewer than 1.5 turns.¹

**FLEX20**
A 20 mm electrode array featuring FLEX-Tip technology and designed to be used in cases of partial deafness or for other specific needs or surgical preferences.

¹ The FLEX24 is formerly known as the FLEXEAS.
Introducing FORM
The FORM series are the first electrode arrays designed specifically for malformed cochleae, particularly for cases of incomplete partition and hypoplasia. Each FORM array features a SEAL function designed for better control of cerebrospinal fluid (CSF) leakage.2

FORM24™
A 24 mm electrode array designed for open (no obliteration or ossification) or malformed cochleae, especially Type II malformations. Also for cases where CSF leakage is expected.3

FORM19™
A 19 mm electrode array intended to be used in cochleae with malformation, especially Type I and Type III, obliteration, or ossification. Also for cases where CSF leakage is expected.

Standard
A 31 mm electrode array designed for long cochlear duct lengths.

Medium
A 24 mm electrode array designed for cases where deep insertion is not desired or is not possible due to anatomic restrictions.

Compressed
A 15 mm electrode array designed for partial ossification or malformation of the cochlea.

Auditory Brainstem Implant (ABI)
The Auditory Brainstem Implant (ABI) is intended for patients with nonfunctional auditory nerves, typically due to Neurofibromatosis Type II (NF2). The special electrode array features 12 contacts arranged on a soft, pre-shaped silicone paddle.

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2 Electrode development was in close collaboration with Prof. Levent Sennaroglu, Department of Otolaryngology, Hacettepe University Medical Faculty, Turkey.

3 Availability of FORM electrodes in specific countries is dependent on regulatory approval.

The BONEBRIDGE is the first active, intact-skin hearing implant capable of bone conduction stimulation. For decades, semi-implantable transcutaneous implants such as cochlear implants and middle ear implants have proven to be successful and stable, with low complication rates. Now, for the first time, this technology is available for bone conduction stimulation and makes BONEBRIDGE an ideal solution for those who may have experienced continual skin complications with other hearing devices.

Direct-Drive Bone Conduction
The implant of the BONEBRIDGE directly stimulates the bone allowing patients to benefit from superior hearing quality. The BONEBRIDGE is the first active hearing implant where no surgical access to the middle ear is necessary. Direct drive bone conduction together with state-of-the-art signal processing leads to superior speech and sound perception.

Intact Skin Solution
The implant including the vibratory transducer, known as BC-FMT, is safely embedded under the skin. Therefore the risk of skin infection is very low and no continuous skin care is needed.

Candidacy
The BONEBRIDGE is for individuals aged 5 years and above with one of the following sets of indications:
- For individuals with conductive hearing loss suffering from atresia or mixed hearing loss who have undergone previous middle ear surgery. Candidates should show stable bone conduction thresholds within the shaded area.
- For individuals suffering from single-sided deafness. Air conduction in the contralateral ear should be equal to or better than 20 dBHL.

Pure-tone threshold criteria alone do not provide sufficient information to determine implant candidacy. Refer to the relevant instructions for use.
ADHEAR is a new and innovative bone conduction hearing system. It is a non-implantable device which—thanks to its revolutionary technology—does not apply pressure onto the skin. The system consists of an adhesive adapter which is attached onto the skin behind the ear, and an audio processor which is clicked onto the adhesive adapter. The audio processor transmits sound in the form of vibrations to the adhesive adapter and further to the bone. The vibrations are then conducted via the bone to the inner ear where they can be treated as sound.

**Non-implantable solution**
ADHEAR is the first non-implantable bone conduction system which does not apply pressure onto the skin. This makes it an ideal solution for people who do not want, or who cannot undergo, bone conduction implant surgery, or children who are too young for an active bone conduction implant such as the BONEBRIDGE.

**Candidacy**
ADHEAR is for individuals with conductive hearing loss, either chronic or temporary, with bone conduction thresholds within the shaded area.
VIBRANT SOUNDBRIDGE
Middle Ear Implant System

The SOUNDBRIDGE is an active middle ear implant which stimulates the middle ear structures directly. Users experience improved sound quality and clarity due to the direct-drive technology. The innovative Floating Mass Transducer of the SOUNDBRIDGE implant transmits sound by vibrating the structures of the middle ear in a manner specific to each patient’s hearing needs. As the ear canal remains completely open, patients with pathologies in the outer ear canal can greatly benefit from this solution. The latest generation of the VORP 503 is MR Conditional at 1.5 Tesla enabling users to undergo MRI scans if required.

Vibroplasty Couplers
The FMT is placed in the middle ear using a Vibroplasty Coupler. Different couplers are available so that the FMT can be optimally placed according to the individual’s needs, anatomy, and pathology. The unique single point attachment design means the FMT is only attached to the stimulated structure in the middle ear. This makes placement of the FMT independent of skull growth, and therefore a suitable option for use in children and for adults.

Candidacy
The SOUNDBRIDGE is for individuals aged 5 years and above with one of the following sets of indications:
- For individuals who have sensorineural hearing loss in addition to a medical condition that prevents the use of a conventional hearing aid. Candidates should show stable air conduction thresholds within the air conduction-shaded area.
- For individuals with conductive and mixed hearing loss who have undergone previous middle ear surgery. Candidates should show stable bone conduction thresholds within the bone conduction-shaded area.

Pure-tone threshold criteria alone do not provide sufficient information to determine implant candidacy. Refer to the relevant instructions for use.

Vibroplasty Couplers
The Couplers provide surgically flexible solutions for every indication of the SOUNDBRIDGE.
SAMBA is the audio processor for SOUNDBRIDGE and BONEBRIDGE. It is an intelligent hearing system with innovative features such as the Intelligent Sound Adapter, Speech Tracking, and adaptive directional microphones. It also offers users 5 individual programs and easy handling by remote control. The SAMBA offers wireless connectivity options* via Bluetooth or telecoil to external devices such as mobile phones, FM systems, and ALDs. Wireless connectivity is available by using the Siemens miniTek™. The design of SAMBA is very sleek with its low profile and interchangeable covers.

The SAMBA features Datalogging, which provides details usage information to simplify fittings. The self-learning system of the SAMBA is designed to reduce the need for adjustments or refittings.

* Wireless connectivity feature is available with the Siemens miniTek™. Sivantos is not responsible for the operation with the SAMBA or its compliance with safety and regulatory standards in operation with the SAMBA.
Every Step of the Way

Learning to hear with a hearing implant is a journey. A cochlear implant requires a commitment to hearing the world in a new way. As the brain gets used to processing the multitude of new sounds, the quality of hearing improves. Voices that may once have sounded tinny or high-pitched become more natural and individual voices can once again be recognised.

Listening skills improve through consistent use and a commitment to practice listening. For this reason, MED-EL has developed a range of materials to support your hearing journey. Developed with experts from the fields of audiology and speech therapy, these materials are developed especially to help users hone their skills.

We invite you to explore our catalogue of materials, online listening activities, and much more at medel.com.
MED-EL is there for you, wherever you are.

MED-EL is internationally recognised as the driving force behind the advancement of hearing implant technology. Its staff of hearing loss professionals fuels the development of industry-changing innovations. MED-EL is the world’s fastest-growing hearing implant company, and has a presence in over 100 countries.

MED-EL is there for you, today and in the future, providing state-of-the-art hearing implant solutions and best-in-class hearing performance with a design that is comfortable to wear and easy to use.

Since its founding in 1989, MED-EL has remained dedicated to overcoming hearing loss as a barrier to communication and quality of life.
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