Hearing implant will open the world of sound for many

Common entrol region help a person engine help a person communicate by improving the accuracy of lip reading and enabling people to bear sounds important tolheir safety.

The implant can help people distinguish between loud and soft sounds as wall as control the loudness of their valence.

volces.
While the surgery can be performed
on those people who benefit from the
use of a bearing aid, the implant was
designed for those whose hearing cannot be improved through any other
means, according to 3M, the only manufacturer of the cochlear device in the

country.

About 14 million people in the United States have hearing problems, Brandes said. Of that total about 2 million are profoundly deaf which means they hear very little, if anything. And what hear-about it is conneally "close to the ing there is is generally "close to the threshold of pain," Brandes said.

THOSE WHO are considered profoundly deaf are candidates for the cochlear implant, Brandes said. In the Detroit area alone that includes approximately 4-5,000 people whose lives could be improved.

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In some cases, however, those who are profoundly deaf have adapted well to a deaf environment and reject the implant procedure because of fear of change, Brandes said.

But for those who choose to have the implant, surgery, a three-four day stay in the bosplati, motiviation and training are required to achieve some type of result.

The cochiear implant system involves several pieces of equipment that are designed to work together to help a person hear sound:

A microphone (2-3 millimeters in size), which can be worn anywhere, changes the mechanical energy of sound to electrical energy of the control of the control

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surgery and the removal of the masteld bone. The signal from the transmitter causes electricity to fibw to the small receiver placed just under the skin, beind the ear.

The receiver is made of a small coil additional risks include possible. The receiver is made of a small coil additional risks include possible and two wires or electrodes. One wire

receiver placed just under an on-hind the ear.

The receiver is made of a small coil and two wires or electrodes. One wire extends to the patient's inner ear, the other is placed outside the inner ear.

other is placed outside the knore ear.

WHEN AN electrical current passes between these two wires the hearing nerve is stimulated and produces an impulse the brain interprets as sound.

"This is not a hearing ald," Brandes said. "A hearing ald simply amplifies sound."

The cochlear implant, on the other hand, actually stimulates a patient's hearing nerve, Brandes said. Including hospital and surgical expenses, is about \$9-10,000, according to Brandes. "It's relatively cheap to regain hearing," he said.

But to date, insurance companies are unwilling to cover the procedure, said Brandes. "Insurance companies are unwilling to make a decision."

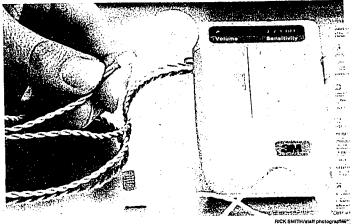
Although the implant produces positive results for patients, certain risks

to home @

News that's closer

News that's closer to home

rather than batteries, Brandes said. The microphone which must now be clipped onto a man's tie or woman's bra strap could be left externally in the outside ear, he added.



RCK SMITH/stat/photogra

This is the device which will open a whole new world to Robert Esher who has been deaf since birth.

Man fights to catch up after years of loneliness

who have no hearing now, now will be bearing," he said. The implant, manufactured only by 3M, electrically stimulates the cochlea—the spiral tube of the laner ear—which contains the serve endings essential for hearing.

Many people who are deaf have badly damaged sensory cells inside the cochlea. Cochlear implants help people hear sounds by bypassing hose sensory cells and delivering tiny amounts of electrical current near the bearing nerve. The electrical current excites

Continued from Page 1

the nerve, sends a signal to the brain, brandes said.

The person then hears the signal as sound.

"It's a question of all or none. Those who have no hearing now, now will be hearing," he said.

The implant, manufactured only by

THE COCHLEAR implant system involves several small pieces of equip-ment.

On the outside of his body, Ersher

On the outside of his body, Ersher will wear a tluy microphone, processor and transmitter in addition to the receiver which was implanted last week behind his ear, just under the økin.

Ersher must walt about two months for his skin to heal completely before receiving the transmitter, the final

Although the ideal candidate for a cochlear implant would be one who had been able to hear at one time and is able to speak, Ersher's desire to have the surgery and an opportunity to hear something, anything, gives him a chance at success.

"The patien's who have the surgery have a high desire rate to hear," Brandes said.

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