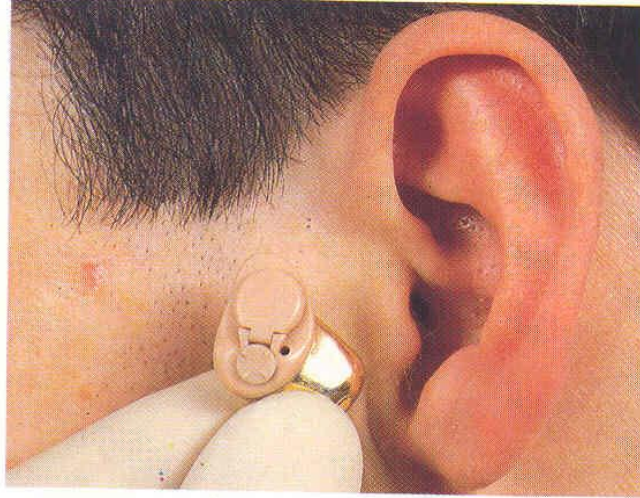


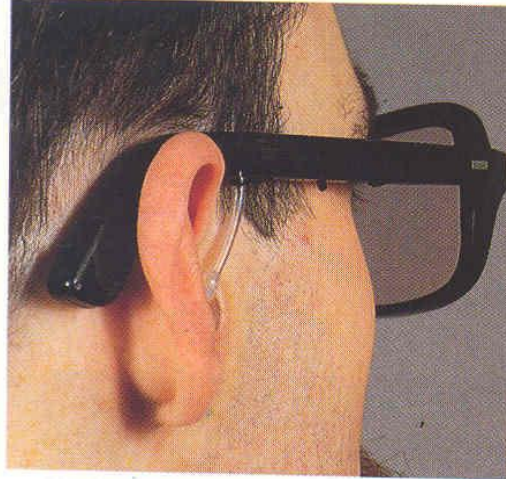
# Pictures of Hearing Aids

15



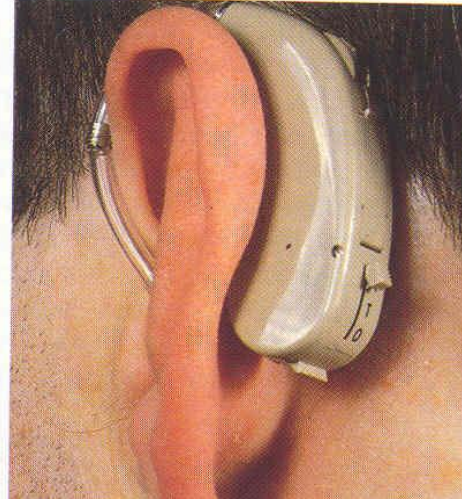
سمعک داخل مجرا

16

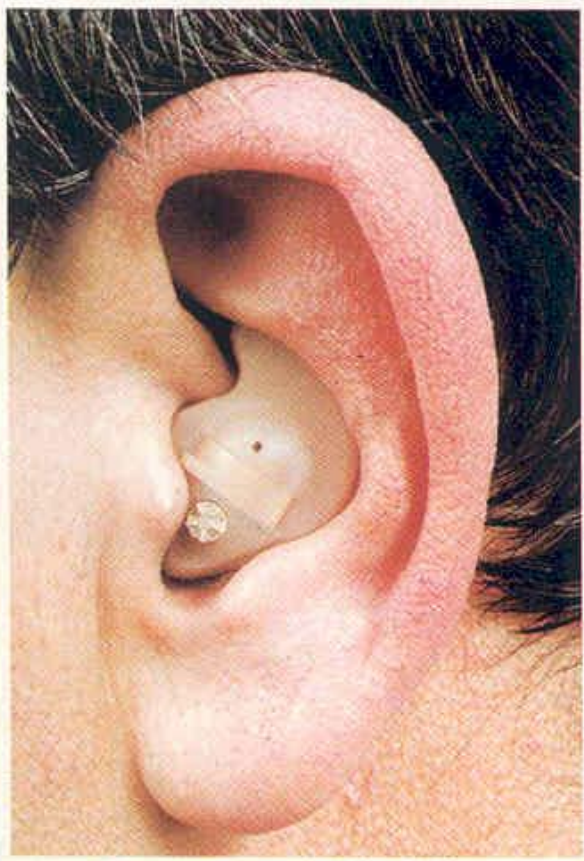


سمعک عینکی

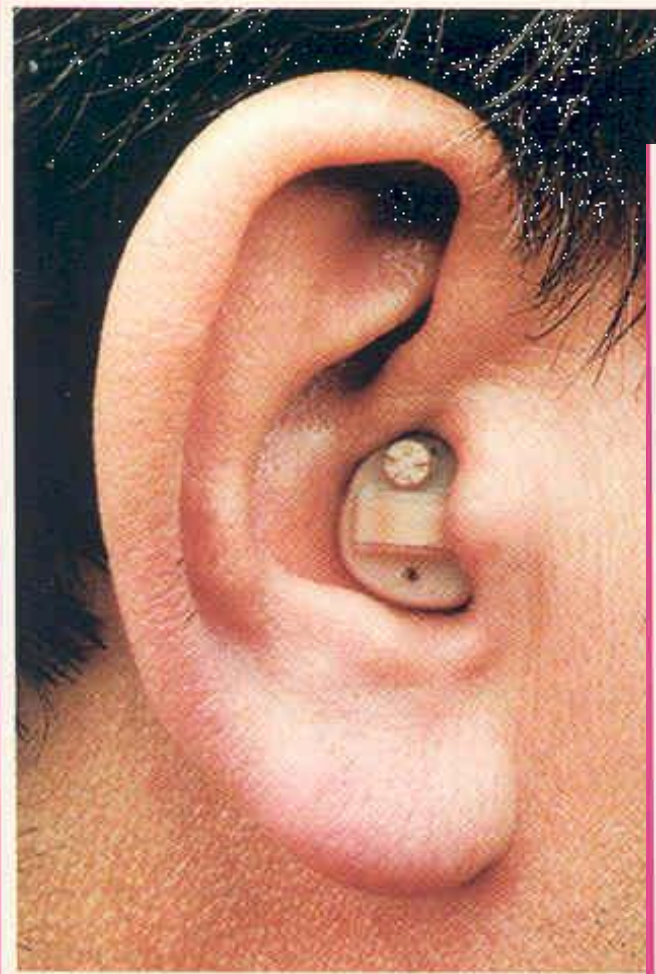
17



سمعک پشت گوشى



داخل گوشى



داخل مجرا



عمق مجرا

# انواع سمعک بر اساس محل قرار گیری

body worn

spectacle

behind the ear

in the ear

in the canal

completely in the canal

receiver in canal

Implantable Hearing Aid

جیبی

عینکی

پشت گوشی

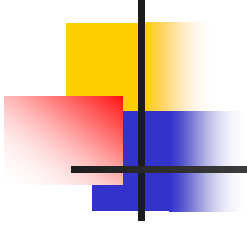
داخل گوشی

داخل مجرا

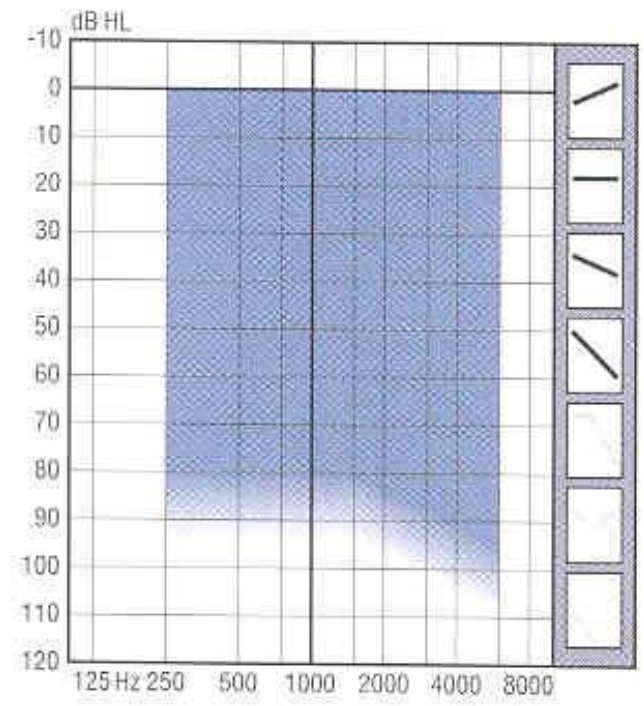
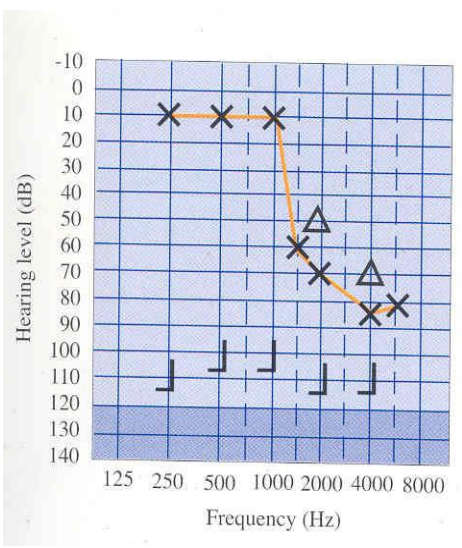
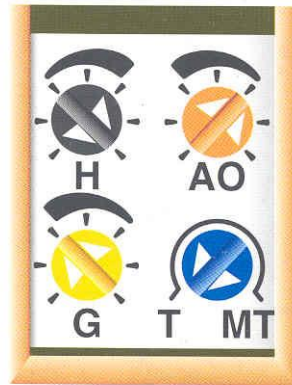
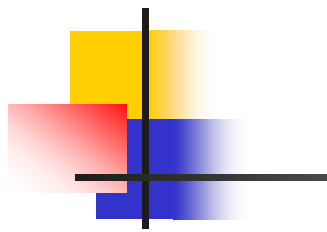
عمق مجرا

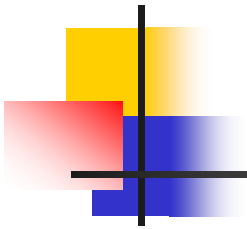
رسیور در مجرا

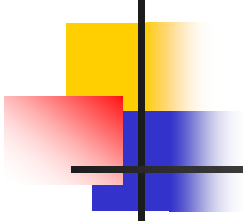
سمعکهای قابل کاشت



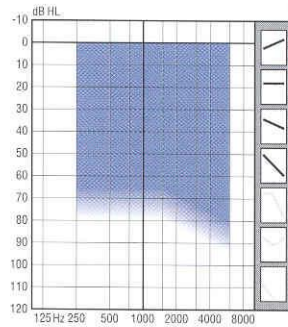
# BTE





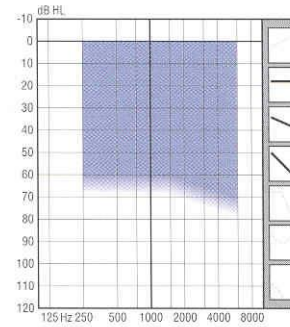


# Canal



W/ Canal Instruments with Ear 91 100

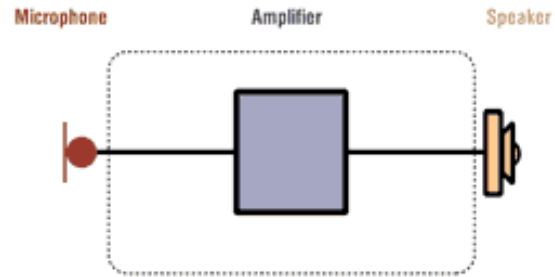
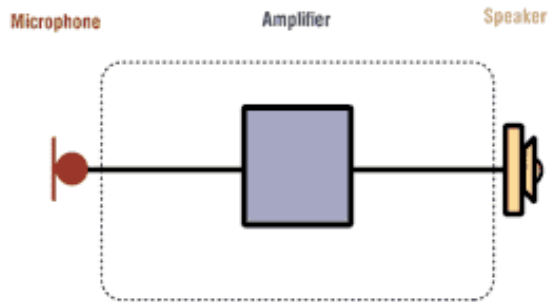
# CIC



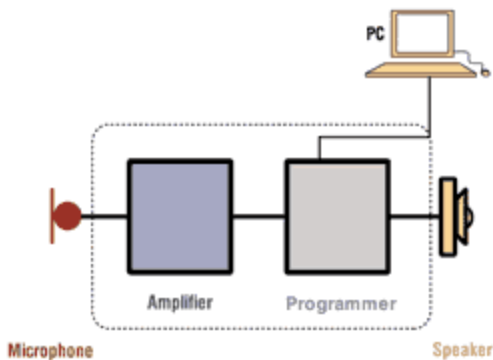
W/ CIC Instruments with Ear 91 100

# The types of Hearing Aids (Cont'd)

سمعک آنالوگ مدارهای تراکم



سمعک دارای کنترل کامپیوتر



➤ Advantage

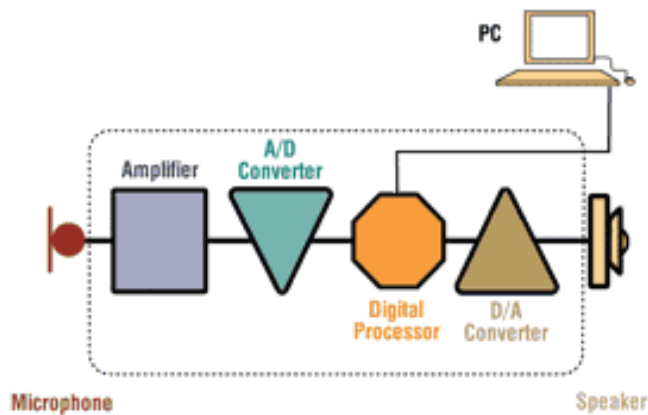
- قیمت کم
- تنظیم سرعت

➤ Disadvantage

- ✓ انعطاف پذیری کم
- برای تنظیم

# The types of Hearing Aid (Cont'd) ■

سمعک دیجیتال ➤

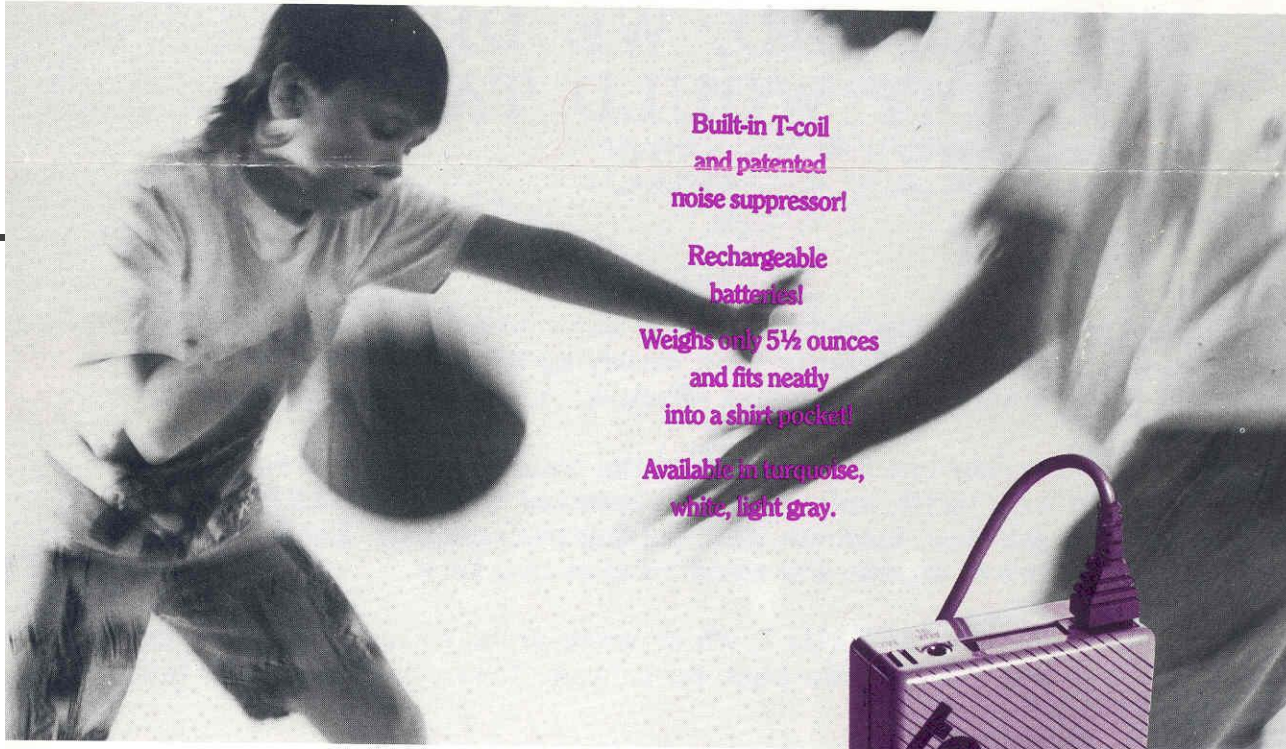


## ➤ Advantage

- ✓ قیمت های بالاتر
- ✓ Performance (کیفیت صدا)
- ✓ و غیره) بالا (SNR)
- ✓ انعطاف پذیری آسان برای تنظیم نیست

## 10 ➤ Disadvantage

# It's a whole new ballgame!

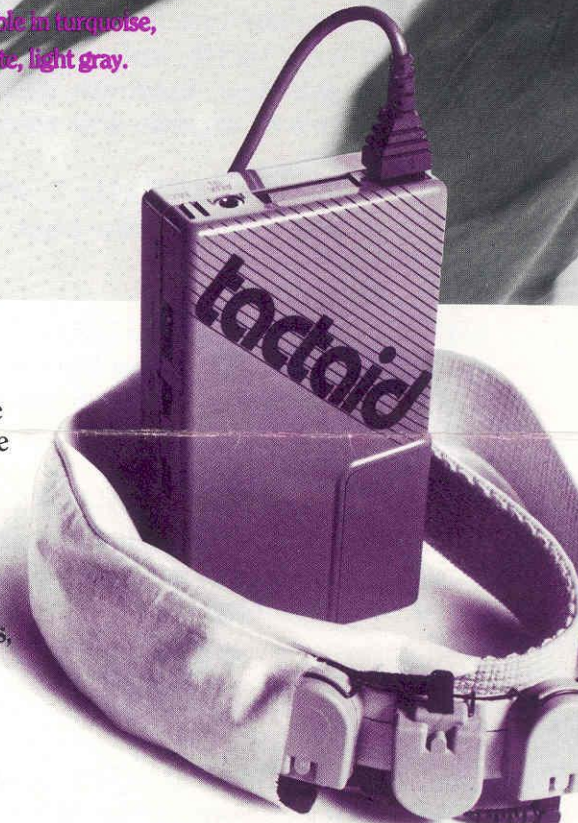


Built-in T-coil  
and patented  
noise suppressor!

Rechargeable  
batteries!

Weighs only 5½ ounces  
and fits neatly  
into a shirt pocket!

Available in turquoise,  
white, light gray.



On the playground or in the classroom, in the office or on the street, TACTAID 7's seven channels produce a never-before-available wealth of information about environmental sounds. Equally important, the "7" also produces a unique, consistent—and learnable—pattern of vibrations for every speech phoneme. This signature pattern provides distinctive, richly textured information about a whole range of speech characteristics, including voiced vs. unvoiced sounds; inflection; intensity; temporal cues; and the crucial first two "formants" that assist in vowel recognition.

What all this means to the user is a far more complete and satisfying awareness of the world of sound, and also a very significant improvement in virtually

کاشت حلزوني :

مناسب برای ناشنوایان





## اجزای بیرونی

- میکروفن و پردازشگر گفتار
- فرستنده

## اجزای درونی

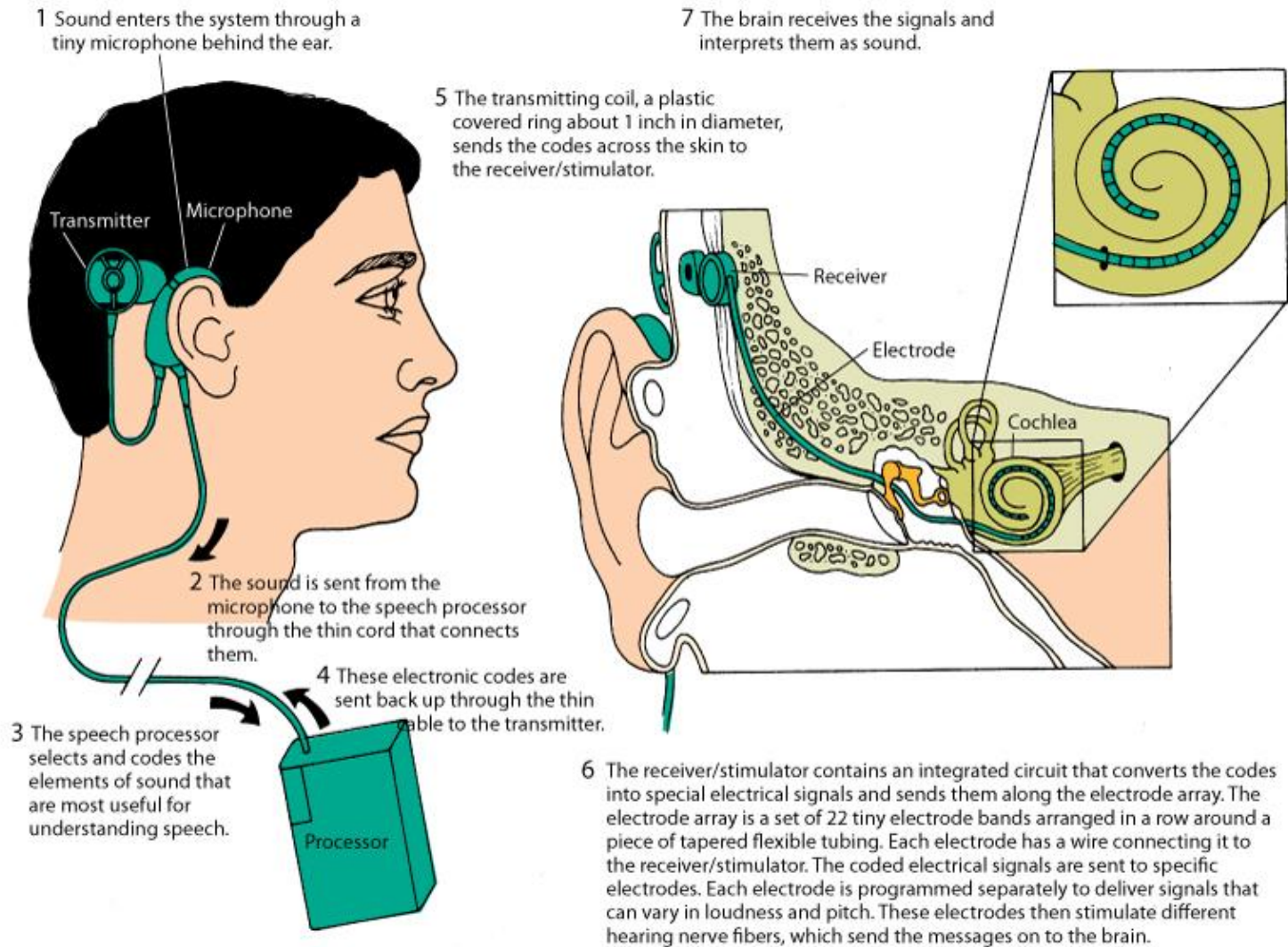
- رسیور
- نوار الکترودها

# اجزای درونی



# اجزای بیرونی





From Black, J.M., Hawks, J.H., & Keene, A.M. (2001). *Medical-surgical nursing: Clinical management for positive outcomes* (8th ed.). Philadelphia: Saunders.



