OTOTOXICITY RISK AWARENESS

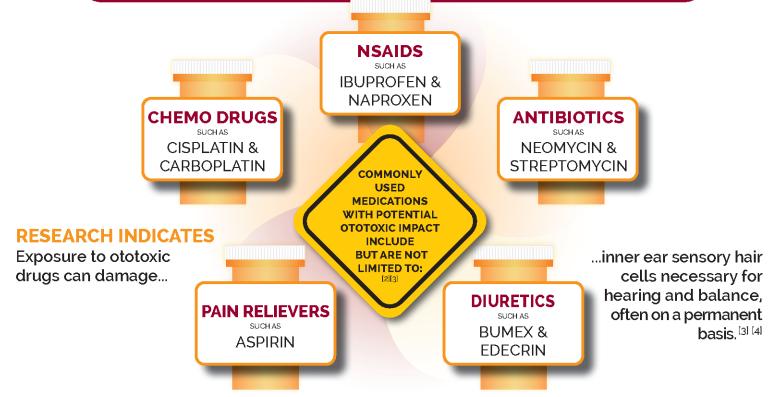


HEARING HEALTH DECISIONS

IN THE U.S., OVER 100 CLASSES OF DRUGS COMMONLY USED TO TREAT PAIN AND INFECTIONS, AS WELL AS CANCER, HEART OR KIDNEY DISEASE, CAN **DAMAGE THE INNER EAR**. [1]

DID YOU KNOW?

The manner in which certain drugs can cause ringing in the ears (Tinnitus), [2] followed by hearing loss or dizziness, is known as "ototoxicity."



TALK TO YOUR CARING DOCTORS:

Who will help educate you about the hearing health-related side effects of treatment-related medications.

OUR EXPERT ADVICE CAN HELP!

GET EXPERT HEARING TESTING:

Including baseline and regular screenings which will enable early detection of ototoxic impact as well as timely response if and when hearing loss occurs.





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Ototoxicity Awareness and Education

Helpful References

The two most widely used adverse event scales for hearing are the **National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events (CTCAE) Ototoxicity Grades** and **Brock's Hearing Loss Grades**.

The **NCI CTCAE Ototoxicity Grades** for children (with adult guidelines in parentheses) are shown below:

GRADE 1

Threshold shift or loss of 15-25 dB relative to baseline, averaged at two or more contiguous frequencies in at least one ear (same for adults)

GRADE 2

Threshold shift or loss of >25-90 dB, averaged at two contiguous test frequencies in at least one ear (same for adults)

Note: For children without baseline evaluation, baseline thresholds are assumed to be >5 dB HL.

GRADE 3

Hearing loss sufficient to indicate therapeutic intervention, including hearing aids (e.g., >20 dB bilateral HL in the speech frequencies; >30 dB unilateral HL; and requiring additional speech-language-related services) (Adults: >25-90 dB, averaged at three contiquous test frequencies in at least one ear)

3RADE 4

Indication for cochlear implant and requiring additional speech-language-related services (Adults: profound bilateral hearing loss >90 dB HL).

DRUGS THAT CAN CAUSE HEARING LOSS:

(League for the Hard of Hearing, 2000)

Diuretics

- bendroflumethazide (Corzide)
- bumetadine (Bumex)
- chlor-thalidone (Tenoretic)
- ethacrynic acid (Edecrin)
- furosemide (Lasix)

Antibiotics

- aminoglycosides
 - amikacin (Amakin)– gentamycin (Garamycin)
 - kanamycin (Kantrex)neomycin
 - netilmicin (Netromycin)streptomycin
 - tobramycin (Nebcin)
- erythromycin
 - (EES) (E-mycin)
- (Ilosone)
- (Eryc) (Pediazole)
- (Biaxin)

- (Zithromax)
- vancomycin (Vancocin)
- minocycline (Minocin)
- polymixin B & amphotericin B (Antifungal preparations)
- capreomycin (Capestat) (Anti-tuberculosis medication)

Mucosal Protectant

misoprostol (Cytotec)

Narcotic Analgesics

hydrocodone (Lorcet, Vicodin)

Salicylates

- aspirin and aspirin-containing products
- salicylates and methyl-salicylates (linaments)

Non-Steroidal Anti-Inflammatory Drugs (NSAIDS)

- diclofenac (Voltaren)
- etocolac (Lodine)
- fenprofen (Nalfon)
- ibuprofen (Motrin, Advil, Nuprin, etc.)
- indomethacin (Indocin)
- naproxen (Naprosyn, Anaprox, Aleve)
- piroxicam (Feldene)
- sulindac (Clinoril)

Chemotherapeutic Agents

- bleomycine (Blenoxane)
- bromocriptine (Parlodel)
- carboplatinum (Carboplatin)
- cisplatin (Platinol)
- methotrexate (Rheumatrex)
- nitrogen mustard (Mustargen)
- vinblastin (Velban)
- vincristine (Oncovin)
- chloroquine phosphate (Aralen)
- quinacrine hydrochloride (Atabrine)
- quinine sulfate (Quinam)