SOME COMMONLY USED MEDICINAL SUBSTANCES REPORTED TO CAUSE HEARING LOSS

The following is a list of generic names of commonly used medications that have been associated with hearing loss. It is not by any means a comprehensive list, as more than 100 classes of drugs have been associated with ototoxicity.

This list is more fully explained in the slide show presented by Dr. Leslie McCament-Mann, Associate Director of the New Mexico Poison and Drug Information Center, at the January 21, 2017 meeting of the Hearing Loss Association of America—Albuquerque Chapter. Please refer to the slides for additional information.

Always inquire about whether ototoxic side effects or drug interactions have been reported for a newly prescribed drug or over-the-counter (including herbal) medication. Express concerns to your doctor or pharmacist about your risk for drug-related hearing loss, and inquire about alternative agents that might carry less risk of ototoxicity.

Consult one of the recommended online resources, the drug package information leaflet, your doctor or pharmacist, and the New Mexico Poison and Drug Information Center for the most current information regarding potentially ototoxic substances.

CATEGORY OR DRUG NAME	SYMPTOMS	REPORTED FREQUENCY
Antibiotics:		
 Aminoglycosides (gentamicin, tobramycin, amikacin, neomycin 	Possibly permanent high- frequency hearing loss, tinnitus	7.5%
 Macrolides (erythromycin, azithromycin, clarithromycin) 	Reversible hearing loss, tinnitus	<1%
 Sulfonamides (sulfamethoxazole- trimethoprim or SMZ- TMP) 	Tinnitus	unknown
 Tetracyclines (doxycycline, minocycline, tetracycline) 	Tinnitus	<1-2%
Vancomycin, daptomycin	Hearing loss, tinnitus Tinnitus	unknown but thought to be low <1%

<u>SYMPTOMS</u>	REPORTED FREQUENCY	
Irreversible high-frequency hearing loss, tinnitus	20-30% adults, 40-60% children	
Partial or total hearing loss	unknown	
Tinnitus	unknown	
Tinnitus	3-9% ibuprofen, naproxen <3% indomethacin <2% celecoxib	
Reversible hearing loss, tinnitus	unknown	
Tinnitus	2% hydrocodone <1% oxycodone, tramadol unknown for hydromorphone	
Reversible hearing loss, tinnitus	"rare"	
Tinnitus	unknown	
Tinnitus	≤1%	
Tinnitus	<2%	
Tinnitus	≤1%	
Tinnitus	<2%	
Tinnitus	<2%	
Tinnitus	unknown	
	Irreversible high-frequency hearing loss, tinnitus Partial or total hearing loss Tinnitus Tinnitus Reversible hearing loss, tinnitus Tinnitus Reversible hearing loss, tinnitus Tinnitus	

CATEGORY OR DRUG NAME	<u>SYMPTOMS</u>	REPORTED FREQUENCY	
SSRI's (citalopram, escitalopram, fluoxetine, paroxetine, sertraline)	Tinnitus	≤1%	
 SNRI's (desvenlafaxine, duloxetine, venlafaxine) 	Tinnitus	<2%	
Bupropion	Tinnitus Auditory disturbance	1-6% 5%	
Drugs for ED and BPH:			
PDE-5 inhibitors (sildenafil, tadalafil, vardenafil)	Hearing loss (likely reversible), tinnitus	<2%	
Cold and allergy medications:			
Antihistamines (diphenhydramine, loratadine, fexofenadine, cetirizine)	Tinnitus	"low"	
Decongestant (pseudoephedrine)	Tinnitus	"low"	
Quinine, quinidine	Reversible high-frequency hearing loss, tinnitus	unknown	
Recreational substances:			
Alcohol	Tinnitus	unknown	
Caffeine	Tinnitus	unknown	
Nicotine	Tinnitus	unknown	
Cocaine	Tinnitus	unknown	
Marijuana (THC)	Tinnitus	unknown	
Harbale			
Chenopodium oil, Coenzyme Q10, Ephedra	Hearing loss	unknown	
 Devil's claw, Gingko, Hibiscus, Lithium, Meadowsweet, Oleander, Pipsissewa, Pyrethrum, Tin, Trailing arbutus, Uva ursi, Wintergreen 	Tinnitus	unknown	