

**Facts about Noise-Induced Hearing Loss** 

Approximately 40 million American adults may have hearing loss resulting from noise exposure. Noise-induced hearing loss is caused by damage to the hair cells found in the inner ear. Hair cells are small sensory cells that convert the sounds we hear (sound energy) into electrical signals that travel to the brain. Once damaged, our hair cells cannot grow back, which results in permanent hearing loss.

Hearing protection decreases the intensity, or loudness, of noise and helps preserve your hearing.

Harmful sounds are those that are too loud and last too long or are very loud and sudden. For example, exposure to a one-time intense "impulse" sound such as an explosion, or continuous exposure to loud sounds over an extended period of time such as at a concert may be harmful. The louder the sound, the shorter the amount of time you can safely be around it.

You may encounter harmful sounds at work, at home, and during recreational activities. If you work in a hazardous noise environment, speak to your supervisor or compliance officer about OSHA recommendations on your amount of noise exposure.

## Sound is dangerous if:

- You have to shout over background noise to be heard
- The noise is painful to your ears
- The noise makes your ears ring
- You have decreased or "muffled" hearing for several hours after exposure

Noise-induced hearing loss can be caused by sudden or prolonged exposure to any sound over 85 dB. Sound loudness is measured in units called decibels (dB).

60 dB	Normal conversations,
	dishwashers

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80 dB	Alarm clocks
90 dB	Hair dryers, blenders, lawnmowers
100 dB	MP3 players at full volume
110 dB	Concerts (any music genre), car racing, sporting events
120 dB	Jet planes at take off
130 dB	Ambulance, fire engine sirens
140 dB	Gun shots, fireworks, custom car stereos at full volume

## **Protect your hearing:**

- Wear hearing protection when around sounds louder than 85 dB. There are different types of hearing protection such as foam earplugs, earmuffs, and custom hearing protection devices
- Contact your local audiologist for custom hearing protection devices. These include special hearing protection for musicians and hunters.
- Turn down the volume when listening to the radio, television, MP3 player, or anything through earbuds and headphones. Visit www.TurnItToTheLeft.com
- · Walk away from the noise.

## **Role of Audiologists**

Audiologists identify, diagnose, and provide treatment options for patients with hearing loss and dizziness. They work closely with physicians, when necessary, and are an important part of the management team.

Do you think you or a family member may have a hearing loss? Click on the "Find an Audiologist" link at <a href="https://www.audiology.org">www.audiology.org</a> to locate and set up an appointment with an Audiologist in your area.

<sup>&</sup>lt;sup>1</sup> National Institute on Deafness and Other Communication Disorders (NIDCD) www.nidcd.nih.gov/health/noise-induced-hearing-loss Visit our website at www.davisonaudiology.com