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Noise Induced Hearing Loss

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Noise-induced hearing loss happens when tiny hair-like structures (stereocilia) that sit on top of hair cells in the inner ear are damaged by noises that are too loud and/or last for too long. When stereocilia are damaged, the hair cells can't send information about the sound to the brain.

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**Science of Noise-Induced Hearing
Loss | Noisy Planet**

Noise-Induced Hearing Loss describes the effect of environmental noise on hearing, provides important background on the subject, and also explores the broader issues currently arising on effects of noise on non-human

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vertebrates.

**Noise-Induced Hearing Loss:
Scientific Advances (Springer ...**

Noise-induced hearing loss can affect people of all ages. According to the World Health Organization, nearly 50% of persons aged 12-35 years could be exposed to unsafe levels of sound from

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the use of personal audio devices.

Public Health and Scientific Information | NCEH | CDC

Exposure to loud noise continues to be the largest cause of hearing loss in the adult population. The problem of NIHL impacts a number of disciplines. US standards for permissible noise exposure

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were originally published in 1968 and remain largely unchanged today. Indeed, permissible noise exposure

Noise-Induced Hearing Loss - Scientific Advances

If you are a 'jobbing' occupational physician looking for a book on the diagnosis of noise-induced hearing loss

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(NIHL), then this is not the one for you. It is from a series of volumes on auditory research aimed at graduate students, post-doctoral researchers and clinical investigators; a synthetic rather than a systematic review, laced ...

Noise-induced hearing loss: scientific advances ...

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Noise-induced hearing loss Figure 1A-D shows representative images of succinate dehydrogenase (SDH) staining

on both outer and inner hair cells (OHCs and IHCs) from the two groups.

Noise induced hearing loss impairs ... - Scientific Reports

Scientific Basis of Noise-Induced Hearing

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Loss Thieme, Stuttgart Papers are grouped into four sections, all with respect to noise-induced hearing loss: biological basis, experimental studies, auditory performance changes, and human studies.

Noise-Induced Hearing Loss - an overview

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Sound is measured in units called decibels. Sounds at or below 70 A-weighted decibels (dBA), even after long exposure, are unlikely to cause hearing loss. However, long or repeated exposure to sounds at or above 85 dBA can cause hearing loss. The louder the sound, the shorter the amount of time it takes for NIHL to happen.

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Noise-Induced Hearing Loss | NIDCD

The following factors have been associated with an increased susceptibility to noise-induced hearing loss: blue eyes, light skin, family history of hearing loss, diabetes mellitus, Meniere disease, iron deficiency, vitamin A deficiency, older age, atherosclerosis

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(hardening of the arteries), and smoking
tobacco.

**Noise-Induced Hearing Loss:
Prevention and Treatment Facts**

Ringling in your ears, or tinnitus, is an early sign of noise-induced hearing loss. There is no way to fix damaged hair cells. Hearing aids or other devices can

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help you hear better, but your hearing will not come back on its own. Noise and Your Health. Loud noise does not just hurt your hearing.

Loud Noise Dangers - American Speech-Language-Hearing ...

Three Tips for Choosing the Right Hearing Protector. We live in a noisy

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world. Some noises can damage our hearing, leading to hearing loss, tinnitus (ringing in the ears), and difficulty communicating especially in background noise. Permanent noise-induced hearing damage is incurable.

Hearing Loss | | Blogs | CDC

Title: Noise-Induced Hearing Loss

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Author: National Institute on Deafness
and Other Communication Disorders

Subject: A fact sheet describing what noise-induced hearing loss is, who is affected by it, what causes it, how noise can damage our hearing, signs and symptoms of noise-induced hearing loss, how it can be prevented, and the latest research on it.

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Noise-Induced Hearing Loss - NIDCD

However, to the best of our knowledge, evidence of inner ear damage, compatible with noise-induced hearing loss, has not yet been described in a cetacean mass stranding event.

Implementation of a method to

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For decades, noise-induced and age-related hearing loss research efforts have focused on the loss of hair cells and the threshold elevations this causes.

Noise-induced 'hidden hearing loss' mechanism discovered ...

Based on the mechanistic insights from

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noise-exposure studies, chinchillas have also been used in pre-clinical drug studies for the prevention and rescue of noise-induced hearing loss. This review paper highlights the role of the chinchilla model in hearing science, its important contributions, and its advantages and limitations.

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**The chinchilla animal model for
hearing science and noise ...**

Intense sound is a significant cause of hearing loss in the general population, due to occupational and recreational acoustic overstimulation. In fact, noise is one of the most common occupational hazards in the United States. Noise-induced hearing loss (NIHL) significantly

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affects the military and veterans.

Cellular mechanisms of noise-induced hearing loss ...

Loud noise can damage the inner ear and cause hearing loss. Studying mice, researchers at Washington University School of Medicine in St. Louis and the University of Iowa have shown that a

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drug compound can block damage caused by loud noise, raising the possibility of medication that prevents noise-induced hearing loss.

Noise-induced hearing loss blocked with drug compound ...

It's a Noisy Planet. Protect Their Hearing.® is a national public education

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campaign aimed at preteens (children ages 8 to 12), their parents, and other educators with the goal of increasing awareness of the causes and prevention of noise-induced hearing loss. The science-based program was developed by the National Institute on Deafness and Other Communication Disorders (NIDCD), part of the ...

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