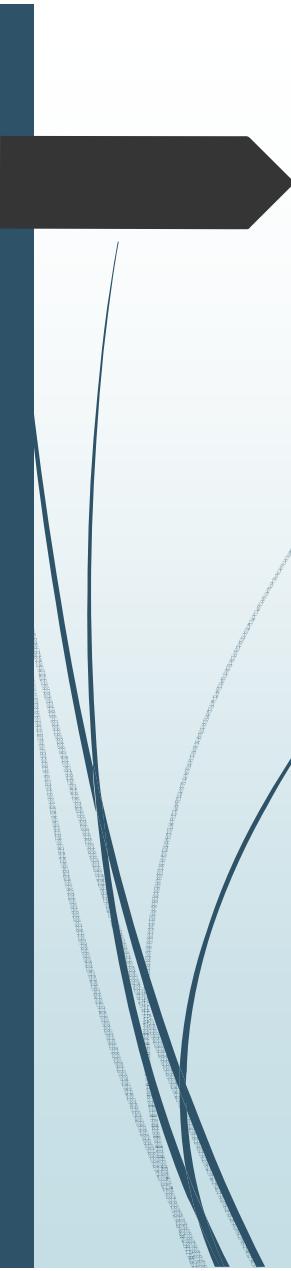




Noise-Induced Hearing Loss

Presented By: Gaurav Badera



Content

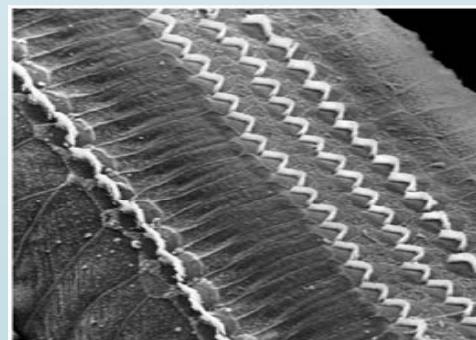
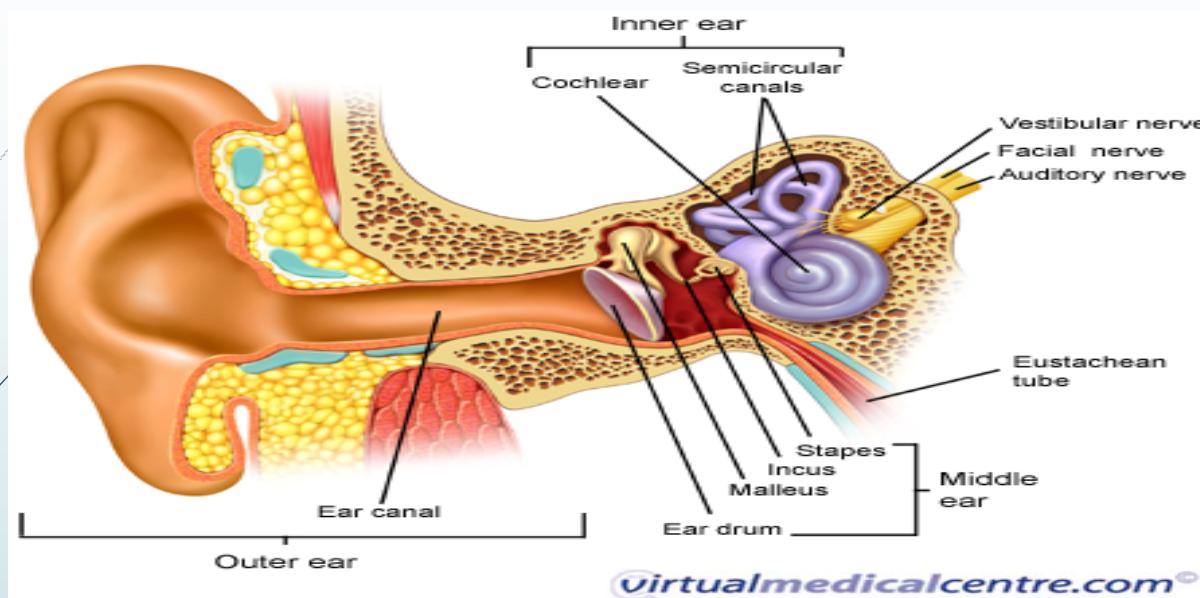
- ▶ Introduction
- ▶ Mechanism
- ▶ NIHL on Audiogram
- ▶ NIHL in Construction
 - ▶ Sources
 - ▶ Causes
 - ▶ Control
 - ▶ Prevention
 - ▶ Hearing Conservation Program
- ▶ Conclusion



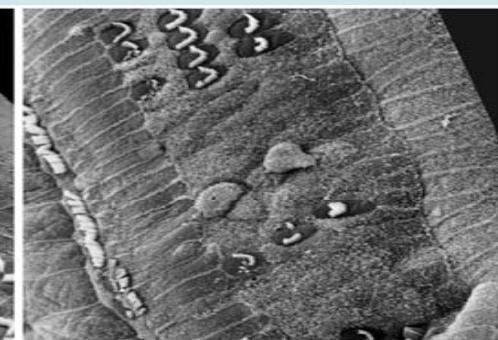
Introduction

- ▶ What is Noise?
- ▶ Range of hearing
- ▶ Hearing Loss (excessive noise, accidents, illness, aging, chemicals.)
- ▶ Other symptoms: Tinnitus, Hyperacusis, Dizziness, some pain in the ear.
- ▶ Noise-Induced hearing Loss

Mechanism

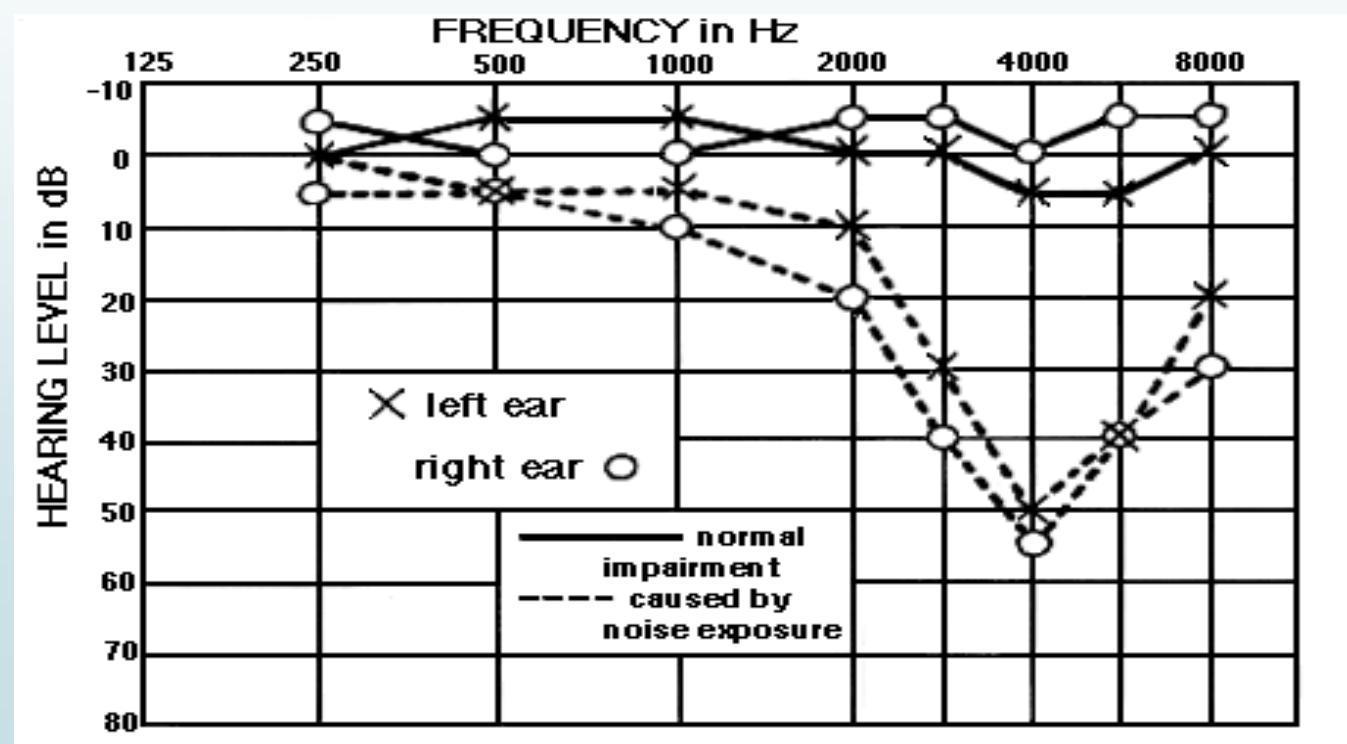


Intact cochlea



Damaged cochlea

NIHL on Audiogram Vs Normal Audiogram



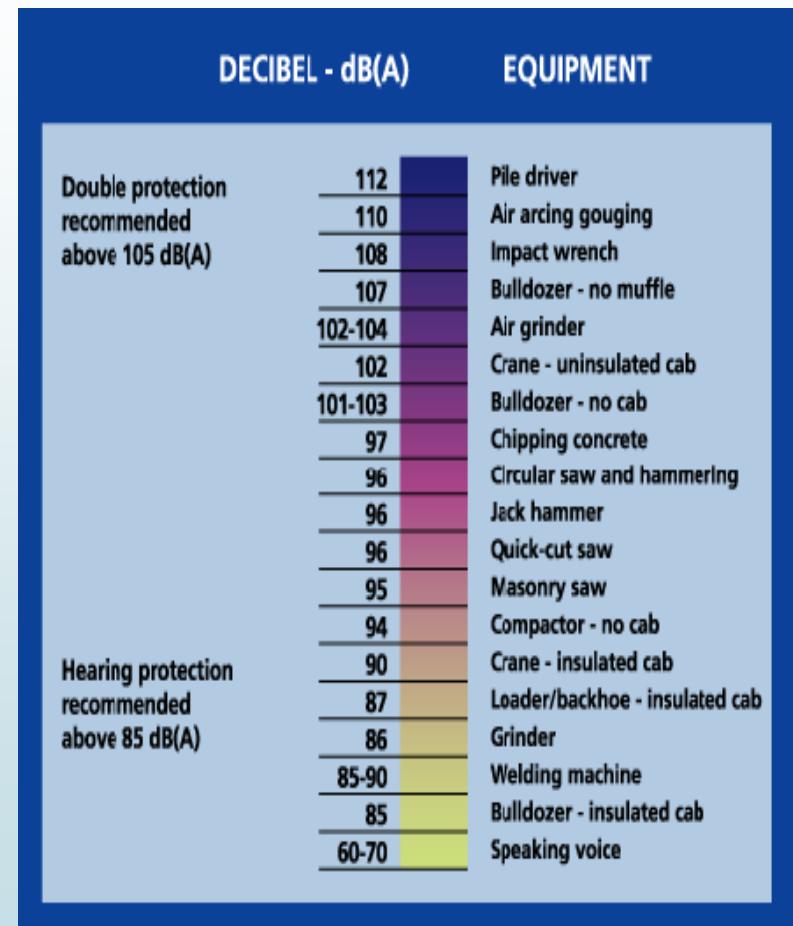
NIHL in Construction

- ▶ Source
- ▶ Causes
- ▶ Control
- ▶ Prevention



Sources

- ▶ Tools
- ▶ Task
- ▶ Trade
- ▶ Stage of Construction
- ▶ Type of Construction





Causes

- ▶ Intensity of sound
- ▶ Frequency of sound
- ▶ Duration
- ▶ Occupational noise
- ▶ Non-occupational noise



Controls

- ▶ Engineering Control
- ▶ Administrative Control
- ▶ Hearing Protection Devices (HPDs)

Prevention

- ▶ Treatment
- ▶ Medication
- ▶ Awareness
- ▶ Training/ workshop.
- ▶ Communication
- ▶ Mandatory HPDs.
- ▶ Hearing Conservation Program



Hearing Conservation Program(HCP)

- ▶ Identifying noise hazard
- ▶ Exposure Monitoring
- ▶ Assessment and Corrective actions
- ▶ Hazard Communication
- ▶ Worker Education
- ▶ Periodic Review





- ▶ Hair Cells (inner ear) once gone, gone forever.
- ▶ Lot of sources of NIHL in construction
- ▶ Less engineering Control but proper administration and HPDs can protect a lot.
- ▶ HCP is essential on every site.