

85 dBA L_{Ex8h} (equivalent to 80 dBA L_{Ex24h})

Most standards specify an 8-h occupational noise exposure limit (L_{Ex}) of 85 dBA. This limit assumes that some workers exposed at the limit will develop hearing loss.

83 dBA L_{Ex8h} (equivalent to 78 dBA L_{Ex24h} ; 92 dBA L_{Ex1h})

This limit is applicable to individuals willing to tolerate modest risk for a small degree of noise induced hearing loss, but still sufficiently protective of the vast majority of people exposed to nonoccupational music exposures.

80 dBA L_{Ex8h} (equivalent to 75 dBA L_{Ex24h})

This limit is intended to nearly eliminate the risk of measurable noise induced hearing loss following a 40-year working lifetime. However, lifetime exposures to music and noise may reasonably be expected to exceed a cumulative duration greater than 40 years. Adoption of this limit for exposure to music likely represents an optimal trade-off between being sufficiently protective and being onerous and/or technically or socially infeasible.

75 dBA L_{Ex8h} (equivalent to 70 dBA L_{Ex24h})

This limit is known to eliminate the risk of noise induced hearing loss in any exposed individual over the longest exposure duration that can currently be modelled. This exposure limit includes a margin of safety to account for vulnerable and susceptible individuals.

Risk Profile

First Name - Last name

Gender: Female
Date of Birth
Age: 39
Noise exposure level: 100 dB(A)

YOUR
LOGO

Test details

Professional
Test date
Test time

Risk Assessment



Personal Risk Assessment

Lifetime exposure (in years)

Hearing loss risk models are uniformly based on occupational noise exposure data (ISO 1999). The maximum duration is 40 years (from first employment until retirement). Today, lifetime exposures of 60 years are more reasonable given current demographic and social trends (age 10 through 70).

Personal Noise Exposure Level (L_{Ex8h})

Based on ISO1999; 2013

The risk evaluation takes into account age, gender, noise exposure level and duration of exposure. In this example a female person, aged 39, who the past 21 years (since her first employment) has been working in noise exposure level of 100 dB(A) L_{Ex8h} . The maximum duration of exposure for which the hearing loss risk evaluation is available is 40 years.

Assumed current hearing threshold

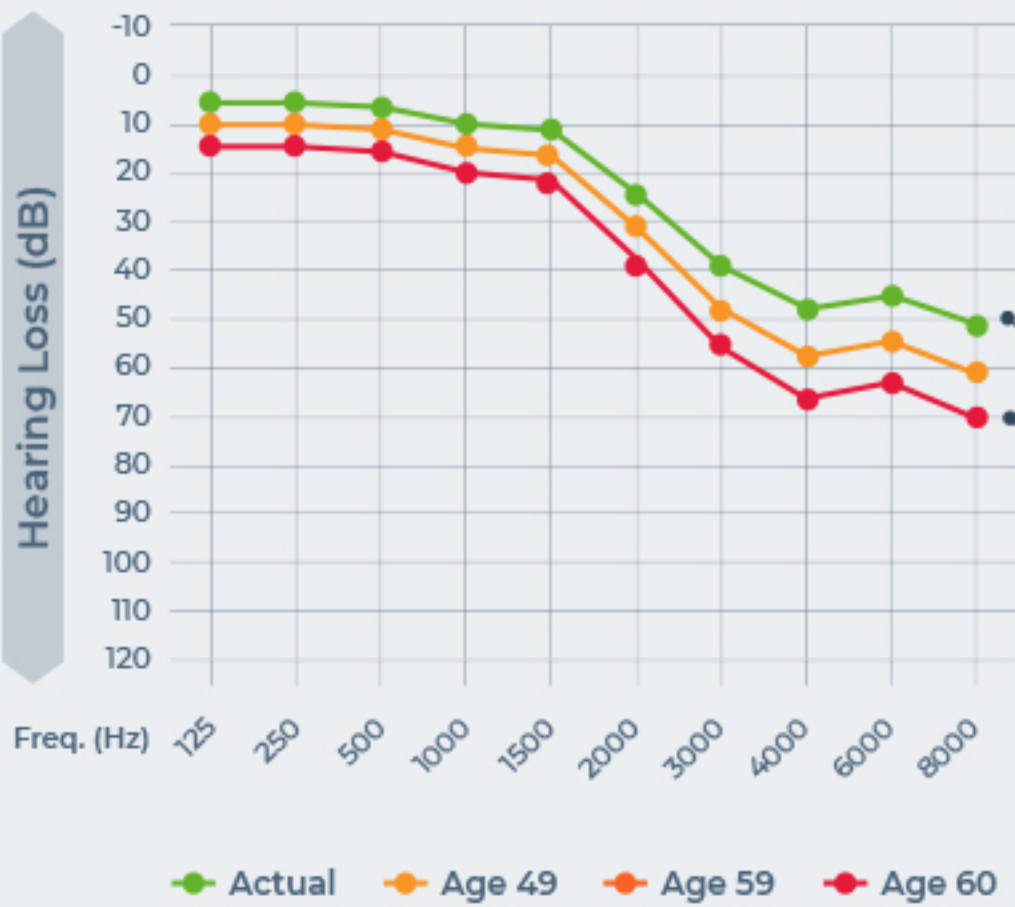
Expected progression of hearing threshold

in steps of 10 years up to the maximum age of 60.

Overall risk

on a hearing loss exceeding 40 dB HL at the age of 60. Patient is eligible for a hearing aid.

Risk Evaluation



87%