

NOISE AND VIBRATION EXPOSURE IN INDUSTRIAL WORKPLACES

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Abstract

Noise and vibration exposure in industrial workplaces can significantly impact workers' auditory health and overall well-being. This study aims to analyze the effects of noise and vibration in different manufacturing sectors by examining workers exposed to varying levels of these factors. Understanding the relationship between workplace noise, vibration, and hearing threshold shifts is crucial for implementing effective protective measures.

Methods

The study was conducted in multiple manufacturing units, where workers were categorized into three experimental groups based on noise and vibration exposure: (1) workers with low noise threshold, (2) workers with high noise threshold, (3) workers exposed to both noise and vibration, and (4) a control group comprising workers in relatively noise-free environments. Data collection involved audiometric tests to assess hearing thresholds, workplace noise level measurements, and a survey on workers' exposure history and job roles.

Results

Preliminary findings indicate a significant correlation between prolonged exposure to high noise levels and an increase in hearing threshold shifts. Workers exposed to both noise and vibration showed more pronounced auditory effects than those exposed to noise alone. The control group exhibited minimal to no changes in hearing thresholds, reinforcing the impact of workplace noise and vibration.

Discussion

The study highlights the necessity of noise and vibration control measures in industrial settings. The results suggest that workers in high-risk environments require targeted hearing protection strategies, periodic audiometric screening, and

engineering controls to reduce occupational hazards. Further research is needed to explore long-term effects and develop improved workplace safety regulations.

Conclusion

Noise and vibration exposure in industrial environments contribute to hearing loss and related health risks. Implementing effective noise management policies and protective measures is essential to safeguarding workers' health and enhancing workplace safety.

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