

**HUBUNGAN INTENSITAS SUARA DAN DURASI
PENGGUNAAN *EARPHONE* TERHADAP GANGGUAN
PENDENGARAN PADA MAHASISWA PROGRAM STUDI
TEKNOLOGI PANGAN UNIVERSITAS KATOLIK
SOEGIJAPRANATA**

SKRIPSI



**PROGRAM STUDI KEDOKTERAN FAKULTAS KEDOKTERAN
UNIVERSITAS KATOLIK SOEGIJAPRANATA
SEMARANG
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Diajukan guna memenuhi salah satu syarat untuk memperoleh gelar sarjana
pada Program Studi Kedokteran



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ABSTRACT

Background: Earphones are modern devices that are popular among teenagers, especially university students, for listening to music. High sound intensity and prolonged use of earphones are considered potential causes of hearing impairment. This hearing loss can be permanent or irreversible. This study aims to determine the relationship between sound intensity and duration of earphone use with hearing impairment among students of the Food Technology Department at Soegijapranata Catholic University.

Methods: This study used a quantitative observational design with a cross-sectional approach. A total of 152 respondents who met the inclusion and exclusion criteria were selected through stratified random sampling. The independent variables in this study were sound intensity and duration of earphone use, while the dependent variable was hearing impairment. Data analysis was performed using univariate and bivariate analysis.

Results: Statistical analysis using the Spearman test showed no significant relationship between the sound intensity of earphone use and hearing impairment ($p = 0.402$). Additionally, no significant relationship was found between the duration of earphone use and hearing impairment, whether measured in hours per day ($p = 0.087$), hours per week ($p = 0.158$), or on an annual basis ($p = 0.516$).

Conclusion: The study concluded that there is no significant relationship between sound intensity, duration of earphone use, and hearing impairment among students of the Food Technology Department at Soegijapranata Catholic University.

Keywords: Sound Intensity, Duration of Earphone Use, Hearing Impairment.