Preventing hearing loss in the young generation: meet the smart wearable Sonoshirt

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BACKGROUND

Hearing loss is increasing dramatically, especially among the younger generation.

Over 1 billion young people worldwide at risk due to unsafe listening practices (WHO).

Will have catastrophic consequences on the long-term health of future generations as well on the healthcare burden to society.

This is despite clear evidence from research and the existence of safe-hearing guidelines, pointing to a critical issue of awareness.

MEET THE SONOSHIRT

• The Sonoshirt is an innovative body-worn sound dosimeter and visualizer device appeals to the young to raise awareness
• It provides a simple yet accurate assessment of instantaneous damage potential & daily dose
• Visually sensitize people on noise exposure and hearing protection in concerts, clubbing, and noisy recreational activities
• Our GOAL is to raise awareness with an approach suited to the young generation, with a focus on exposure on music events

APPROACH

• Combining the advances in engineering and cognitive auditory research to protect people’s ears

FUTURE DIRECTIONS

Finalizing our proof of concept prototype (70% done)
Lab Validation with 3D playback of recorded concert

EXPECTED OUTCOMES

Provides a novel tool, promoting safe listening practices amongst youth
Will benefit hearing prevention in young music listeners and the general population
Impact society and reduce the alarming hearing loss observed in the younger generation

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