

Introduction

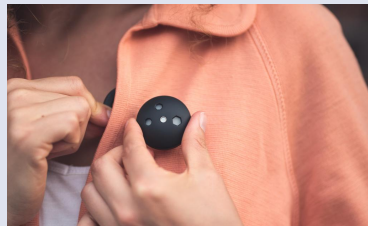
60-70% of melanoma cases are caused by UV Exposure and nearly 1 in 5 people will develop skin cancer in their lifetimes. The project's goal was to find a way to help those with high risk such as outdoor workers to become more aware of factors that put them at risk such as long-time sun exposure while not wearing sunscreen and low perceived risk by providing wearable UV sensors with an app that notifies users of over-exposure and reminders to wear sunscreen.

Objective

The aim was to design a research study for the All of Us research program aimed at raising awareness for the risk of UV exposure.

Study Design

We propose to provide 100 Wearshade UV sensors to 100 outdoor workers over the span of 5 months.



Wearable UV Sensors produced by Wearshade:

If we empower participants to monitor their UV exposure, especially for high-risk people such as outdoor workers, then they will become more aware of risk-factors and make adjustments in lifestyle (wear sunscreen, protective gear, etc.) to decrease their exposure.

Wearshade App Preview:



Results

- Preparing brief to be considered as a study for the All of Us research program.
- If approved, project will be implemented in early 2024.

Discussion

- Empowering historically underrepresented populations, such as outdoor workers, about UV ray awareness is vital for their well-being.
- Outdoor workers are at a higher risk of skin damage and skin cancer due to prolonged sun exposure.
- Providing access to innovative technology that allows others to become aware of the effect of UV rays can help them take proactive measures to reduce health risks.

