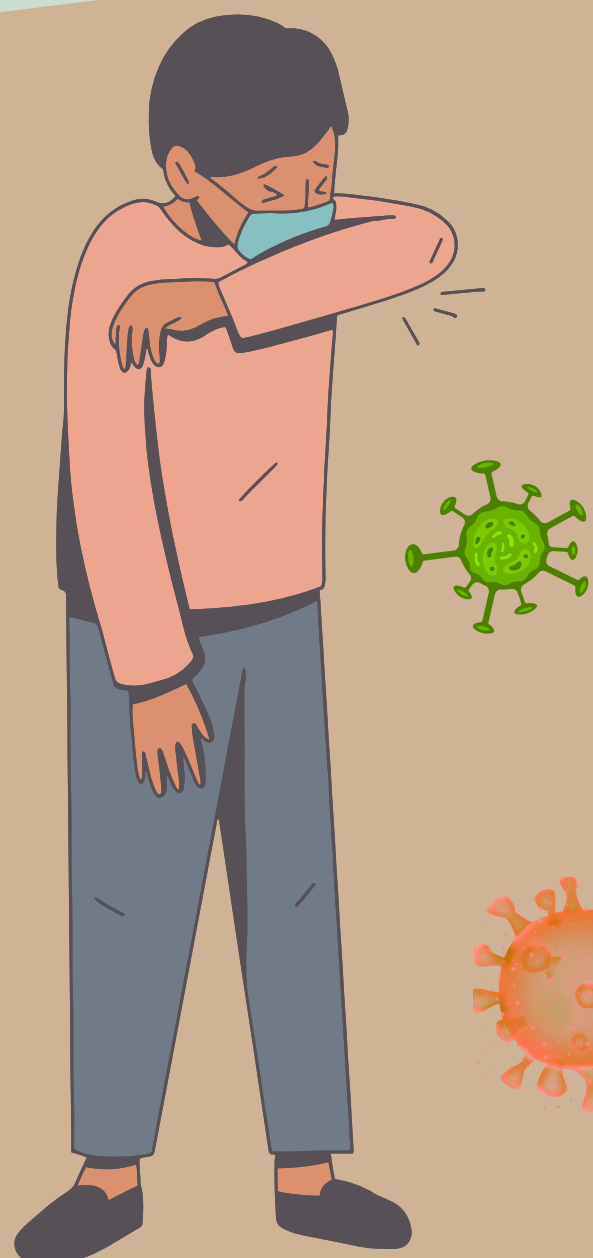
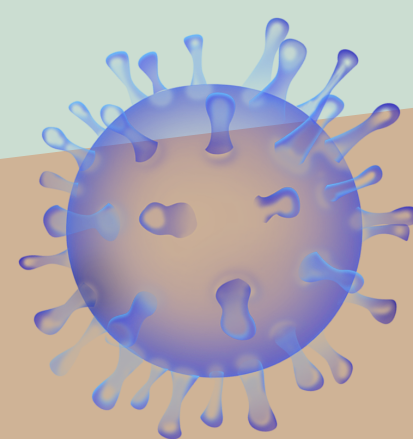


Buddy Band

A Child-Friendly Early Virus Detection Wearable



AI generated image



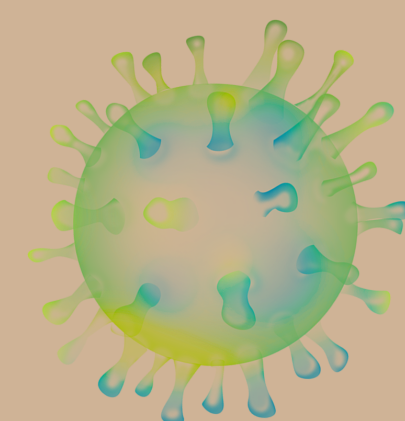
Canva generated image

Children are frequently exposed to airborne viruses

Schools are high-transmission environments

Current tests detect viruses after infection

Infections like the flu, colds, and stomach viruses are among the leading health concerns for kids



Our Inspiration

What if kids could be warned about viruses in the air before they get sick?

Buddy Band transforms advance virus detection techniques into a simple wearable that protects children from getting sick



BUDDY BAND

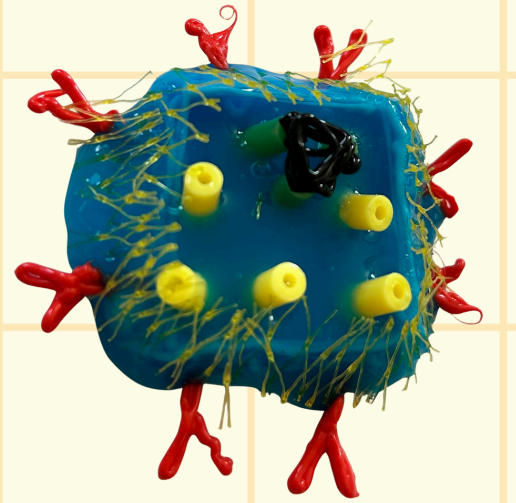
A CHILD-FRIENDLY EARLY VIRUS DETECTION WEARABLE

Air Intake System

Air from surroundings enters the band through nano air-filter system

Hydrogel Based Bio-sensor

Hydrogel layer containing virus-specific antibodies bind only to matching viral antigens in the air.



Viral specific antibodies within the Hydrogel

Detection and Data Processing

Nano sensors detect changes in the Hydrogel. Microprocessors use AI to analyze and identify viruses in real time

LED Alert System

A simple traffic-light alert system helps kids to respond quickly and correctly without needing medical knowledge.

Comfortable Wrist Band

Why should adults have all the fun? The band is customizable to kid's favorite themes



THE FUTURE ON YOUR WRIST

BREAKTHROUGHS

Ultra-small, High sensitive sensors
Reusable Hydrogels
Real-time On-device AI processing



BuddyBand showing
High-Viral Contamination
AI - Generated

IMPACT ON SOCIETY

Schools can monitor virus exposure
Real-time Alerts
Early detection of Outbreaks

LIMITATIONS

Sensors may require calibration
Some viruses may be harder to detect
Technology is still developing

**BUDDY BAND REPRESENTS A FUTURE
WHERE CHILDREN STAY ONE STEP
AHEAD OF INVISIBLE VIRUSES!**

