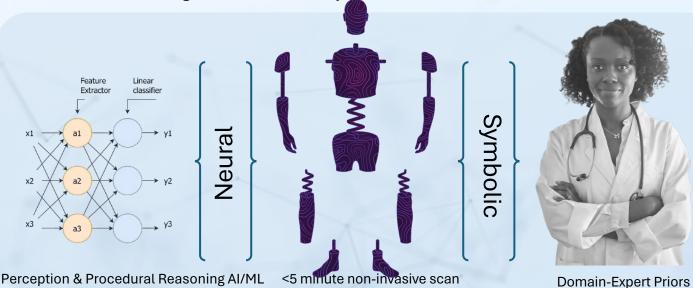




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Al interpretation of silent sound waves of health and disease.

The human body is a mostly soundless musical orchestra of lung, heart, brain, and gut instruments that play harmoniously during health but fall out of sync during disease. We are introducing a safe, fast, non-invasive, genAl platform that harvests and interprets inaudible and audible vibroacoustic bodily symphonies that are uncollectable or disregarded as "noise" by current clinical tools.



Neurosymbolic program synthesis algorithms automate vibroacoustic biomarker discovery from novel biopotential and biomechanical "noise" generated by the human body for earlier disease detection, more accurate diagnosis, and convenient monitoring.

INTEROPERABLE DEVICES:



imPulseTM TOR electro-phono-cardiogram (EPHNOGRAM™)

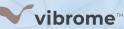


imPulseTM UNA
Infrasonic-ultrasonic e-stethoscope



TrillianTM smartPatch Point-of-person EPHNOGRAM











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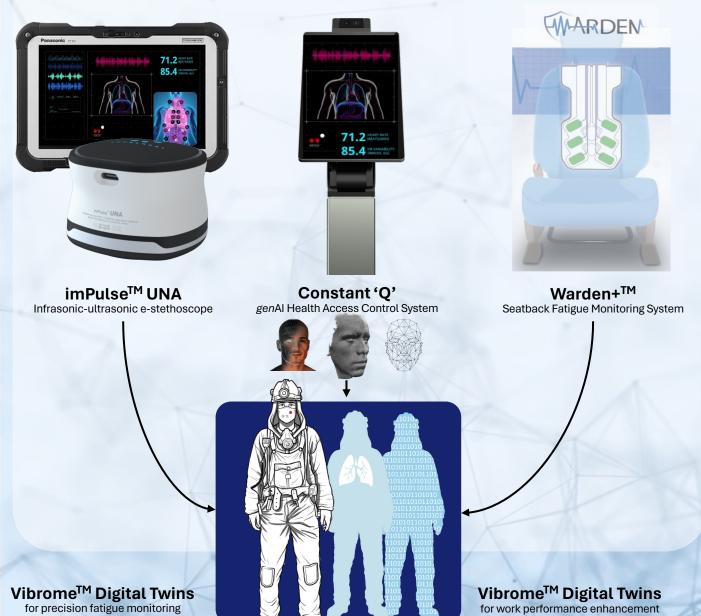
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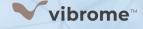
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genAl F.A.C.E.S. Monitoring Platform

Fatigue, Actigraphy, Congestion, Edema, Stress Digital Twin System













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Audible and Insudible Sound Collected from Body Audible and Insudible Sound Collected from Body Audible and Insudible Sound Collected from Body Infrasound (Novel Data) O 375 O 395 O 375 O 375

imPulseTM UNA

Infrasonic-ultrasonic e-stethoscope

More than 90% of biosignal data produced by healthy hearts, lungs, and digestive tracts lie below current instrument detection thresholds, rendering these data inaccessible for bedside and remote clinical diagnosis and decision-making. The real-time "noise" generated by the human body is an underexplored data source for health biomarker discovery. What if we could unveil innate early human health warning signals to increase warfighter health spans and enhance performance?

The Technology

Our bodies are living organisms and vibrations and noises are part of our bodies' functions. imPulse™ UNA technology monitors physiological conditions from 0.01 Hz to 160 kHz, spanning the entire frequency, resonance, and harmonic progression bandwidth range. By capturing, deciphering, and annotating novel broad-spectrum data for advanced genAl algorithms, we aim to revolutionize screening, detection, and monitoring of lung, heart, and gut diseases affecting warfighters and veterans. The imPulse™ UNA can be coupled directly to a person's body or used through layers of clothing.

















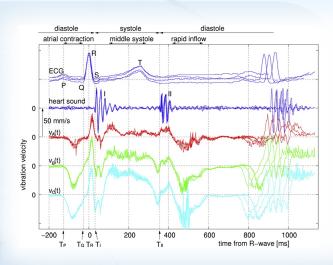
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Most places on Earth have a vertical electric field of about 100 V/m. The human body is mostly water and this interacts with the electric field.



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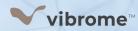
imPulse[™] TOR

electro-phono-cardiogram (EPHNOGRAM™)

The Technology

The Level 42 capacitive electric field sensor is a new ECG/EEG technology that works by measuring tiny changes in the electric field down to milliVolts, even at a distance and through clothing. Capturing deep-phenotyping vibroacoustics, ECG, and SpO2 at the same time enables separation and interpretation of lung, heart, gut infrasonic (mechanical vibrations at very low frequencies and low amplitudes) waves produced by physiological processes—heartbeats, respiratory movements, blood flow in vessels, gut motility, and other lifepreserving processes, and non-invasive fetal health monitoring.











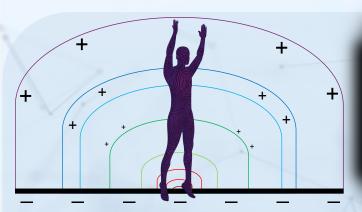
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Simultaneously capturing clear fetal s1 and s2 heart sounds and maternal ECG for preeclampsia, gestational diabetes and hypertension early detection and monitoring.

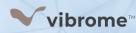
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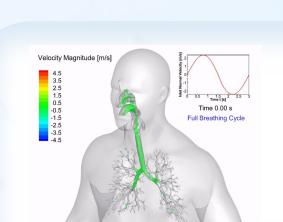
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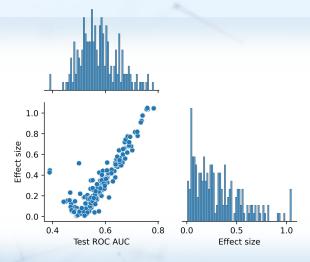


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imPulseTM UNA

Infrasonic-ultrasonic e-stethoscope

The Technology

Our bodies are living organisms, and vibrations and noises are part of our bodies' functions. We are introducing a proprietary, safe, and non-invasive biosensor AI platform that harvests and interprets lung symphonies that often goes unnoticed or are disregarded as mere "noise" by current clinical tools. The world is on the brink of a new health era, where COVID-19, RSV, Flu, TB early disease detection, precise health assessment, timely diagnosis, and treatment monitoring are enhanced by analyzing the sounds and vibrations, both audible and inaudible, emitted by the human body.











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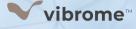
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genAl F.A.C.E.S. Monitoring Platform

Fatigue, Actigraphy, Congestion, Edema, Stress Digital Twin System













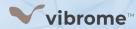
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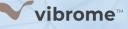
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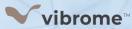
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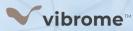
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