VitalTag: Next-Generation Patient Monitor

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Patent(s) Pending
Available for licensing in all fields

SUMMARY

Every second counts during a mass casualty event. Emergency medical personnel must move quickly to triage, treat, and transport patients while keeping track of their vital signs along the way. First responders overwhelmingly indicate that a device is needed to continuously monitor patients in demanding environmental conditions. The patent-pending VitalTag sensors presents a wearable, cost-effective health monitoring solution.

VitagTag comprises a disposable suite of sensors that detect, monitor, and transmit patient vital signs including blood pressure, heart rate, respiration rate, and other other metrics such as blood oxygen (SpO$_2$), shock index and single-lead electrocardiogram. VitalTag connects seamlessly via WiFi or Bluetooth to securely share patient data via a mobile app. Responders can see each patient's medical status and location and receive alerts when the status changes.

ADVANTAGES

- Securely detects and communicates vital sign data in real-time via a mobile app
- Allows simultaneous monitoring of multiple patients, enhancing situational awareness and improving resource management.
- Combines expensive/bulky medical devices into a single vital sign monitoring sticker.
- Enables continuity of care through triage, treatment, and transport.
- Improves operational efficiency, situational awareness, and patient outcome.
- Provides advanced incident and emergency management capabilities for first responders.
STATE OF DEVELOPMENT & AVAILABILITY

This is a field prototype technology that has not yet been approved by the FDA and is not commercially available. This document contains the results of work performed under Contract No. DE-AC05-76RL01830 from the United States Department of Energy.

RELATED LINKS

"VitalTag to give vital information in mass casualty incidents"
News Release

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