

Image courtesy of Praxa Sense

DuPont™ Liveo™ Soft Skin Conductive Tape 1-3150 supports Afi remote patient-monitoring system from Praxa Sense

Case study: Skin electrode technology from DuPont helps deliver reliable data & patient comfort in device for detection of atrial fibrillation

Monitoring and diagnosing atrial fibrillation

Atrial fibrillation – also known as AFib or AF – can be challenging to monitor and diagnose, as it occurs less than once per week in many cases. The chances of missing an instance of atrial fibrillation are high – which can carry severe consequences, given that AFib can lead to blood clots and strokes. With their many electrode stickers, wires and machines, traditional devices used to monitor for AFib are not user-friendly and make daily activities difficult.

Praxa Sense (praxasense.com) – a startup company based in Delft, The Netherlands – is on a mission to enable reliable long-term remote monitoring of AFib patients without making concessions in user-friendliness.

The company is developing a remote patient-monitoring system called Afi, which features a device that comfortably measures single-lead ECG for up to 30 days. Praxa Sense is continuing to refine Afi to monitor multiple additional data streams, such as blood oxygen saturation, respiration rate, temperature and movement.

Partnering to deliver high-quality data and optimal patient comfort

The Afi patch and device are designed for optimal measurement quality and usability. With the support of **DuPont™ Liveo™ Soft Skin Conductive Tape 1-3150**, the Afi device can be worn comfortably for up to 30 days. The DuPont dry electrode technology is less susceptible to humidity changes during storage and use, which protects ECG measurement quality – making the use of the device hassle-free.

As of Q4 2023, Praxa Sense was engaged in multiple studies with medical centers and private clinics to test the device. The company expects to receive the EU CE mark in 2024.

Praxa Sense's Afi device is a single-lead ECG monitor designed for user comfort and reliable long-term data collection.
Image courtesy of Praxa Sense.

Biosignal monitoring with DuPont technology

DuPont™ Liveo™ Soft Skin Conductive Tape 1-3150 is intended to be used for a wide range of electrical biosignals for patient diagnosis and monitoring, including:

- ECG – Atrial fibrillation (AF) diagnosis
- EEG – Sleep monitoring; epilepsy monitoring
- EMG – Muscle stimulation; rehabilitation
- Monitoring of clinical trials

DuPont™ Liveo™ Healthcare Solutions collaborates with global device makers to develop wearable medical devices that support outpatient care and monitoring.



About DuPont™ Liveo™ Healthcare Solutions

DuPont™ Liveo™ is a globally recognized leader in technology for a broad range of innovations in medical devices, biopharmaceutical processing and pharmaceutical solutions. DuPont high-performance materials help create safer healthcare environments and protect the health of patients and healthcare providers worldwide. We help enable smarter healthcare and positive patient outcomes.

For more information about Liveo™ solutions for smart wearable devices



Visit liveo.dupont.com – or scan the QR code at left to be taken directly to our wearable medical device solutions web page, where you'll find details on the full portfolio of Liveo™ Silicone Skin Adhesives and Liveo™ Silicone Elastomers.



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Positive Patient Outcomes.

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