

Nanostic Technologies ApS

Transforming Health Monitoring with Advanced Biosensor Technology

THE PROBLEM

Delayed Detection of Post-Surgical Complications

Post-surgical infections and complications affect 10 to 20% of patients, yet detecting these issues can take 9 to 14 days—a critical window where timely intervention is often missed. During this period, patients either remain in the hospital for monitoring, increasing their risk of hospital-acquired infections, or are discharged with the hidden danger of an undetected infection.

Delays in detecting post-surgical infections have **serious consequences**, leading to **costly hospital readmissions averaging \$19,000 per patient**, increased strain on healthcare systems, and preventable complications that, if caught early, could reduce the need for prolonged hospital stays or emergency interventions. There is a critical need for a user-friendly, at-home monitoring solution that allows patients to measure key biomarkers like inflammation indicators in real-time.

OUR SOLUTION

Inspired by the glucose sensor, which revolutionized diabetes management, we are developing a microneedle-based electrochemical biosensor for monitoring of biomarkers like CRP (C-reactive protein), interleukins, and more. Our solution provides **real-time health tracking** through **non-invasive, microneedle-based sampling**, delivering AI-driven insights and smart alerts for early intervention. With secure remote monitoring for clinicians and a **cost-effective, scalable design**, it eliminates the need for expensive lab infrastructure, making advanced biomarker detection more accessible and efficient.

JOIN US IN TRANSFORMING HEALTHCARE

We are looking for investors, strategic partners, and early adopters to help bring real-time biomarker monitoring to patients, hospitals, and homes worldwide. Together, we can revolutionize post-surgical care and advance personalized, proactive healthcare.

MARKET OPPORTUNITY

- **High Surgical Volume & Costs** – The U.S. performs 10M+ inpatient surgeries annually, with surgical site infections costing \$3.3B each year.
- **Shift Toward Value-Based Care** – Hospitals are incentivized to improve patient outcomes while reducing costs, driving demand for early detection solutions.
- **Booming Remote Monitoring Market** – Post-COVID adoption has surged, with the global market projected to grow from \$71B to \$207B in 5 years.

Our solution aligns with this shift, offering hospitals an innovative, cost-saving approach to post-surgical monitoring.

MILESTONES FOR 2025

- **Market Access Study and Hospital Collaboration** – Elaborate a detailed market access study for stabilizing commercial strategy, and establish partnerships for clinical studies and real-world validation.
- **Prototype & Pre-Clinical Trials** – Finalize prototype development and initiate first pre-clinical trials.
- **Funding & IP Protection** – Secure soft funding and begin the patent application process.