

Microneedle Based Biosensor Technologies

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Abstract

A biosensor, which has been known and used for a long time, is an analytical tool that combines a biological element with a physicochemical detector to detect a chemical compound¹. A new perspective on therapies can be generated with numerous advantages when biosensors and microneedles are combined. Biomarkers like nucleic acid, proteins, tiny compounds, and even cells from interstitial skin fluid (ISF) have been detected using microneedles (MNs) for early diagnosis and real-time monitoring.² Considering these characteristics, microneedle-based biosensors have the potential to decrease hospital stays, follow up with patients more effectively, prevent re-hospitalizations, and thus lower expenses. Looking at the main objectives for using MN-based technologies, MNs, who gain from the consistency of their. The focus of this study is to reveal the ways and benefits of the use of microneedle patched biosensors, technologies that serve the benefit of people in the rapidly developing world in the field of health, as in many other field.³

Keywords: microneedle; biosensor; invasive

Reference

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