

Poster journal

Smartphone-based analytical biosensors

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Commentary:

What does point-of-care technology mean? It refers to a patient being diagnosed by a doctor or self-diagnosis without the requirement of a laboratory. Biosensors are tools that are used to perform this function. For many years, the biosensors used were heavy and difficult to manage. Therefore, they could be used only where it was feasible. Now, smartphone-based biosensors are developed which can easily be connected to a smartphone which allows the operator to carry out various functions at ease, due to its portability and also compile data from anywhere¹. Due to the proximity of these devices to the patient, it helps the patient monitor long-standing diseases and actively participates in improving their health². Wearable biosensors are considered to be the future of healthcare due to its precision, expense, and accessibility³.

Optical biosensors incorporated with a smartphone camera have now been developed⁴. Smartphone adjuncts for recognition of biomarkers in body fluids could decrease the expense of medical diagnostic services and expand the global outreach to healthcare⁵.

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