

Engineering Technology In Hepatology

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Background : This is the era of integration of Engineering Technology monitoring of a person's health and its management. I am highlighting currently available digital health technologies.

Methods : Digital health is presently in a nascent stage, so I am trying to analyze Literature reviews.

Results : Wearable health technology, Fitness bands: It is used to monitor health. It has sensors that measure their heart rate, blood pressure, and temperature, sleeping patterns, etc. Smart piezoelectric necklaces: It uses artificial Intelligence. It detects the swallowing of medications. During swallowing its piezoelectric sensor converts neck movements into electrical signals for transmission into a smartphone apparatus to be read. Implantable and ingestible sensors: Advancements in microelectronics, data processing, and wireless communication have resulted in devices that can be implanted under the skin or ingested. It allows continuous and unobtrusive monitoring of key vital signs, like heart rate. It can also alert patients and caregivers if a problem is detected. Wearable therapeutic devices: Optune system, wearable overhead is used to treat glioblastoma. It delivers electric signals to stop cell division & cancer growth. Pain-relief in neuro-technology: Quell, a band that is wrapped around the calf uses electricity to block pain signals. Automated home-based monitoring: Pain can be managed with telecare. Scheduled telephone calls may be placed for necessary advice. Home blood tests: A remote monitoring device is under research to test a drop of blood at home to measure white cells count, hemoglobin.

Conclusions : Digital technology has created innovative models of healthcare delivery that empower people living with chronic diseases. It is also being widely accepted.

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