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The conceptual model of wireless sensor network (WSN) and smart bed for reducing bedsores

Lida Khaleghi

Salman Farsi Hospital, Iran

Decubitus ulcer or bedsore is a common and serious problem for inpatients in the hospital. When someone is in the sleep mode, pressure of his body weight enters into certain points and in the long term, this results in bruises and ultimately incurable wounds; At present, the solutions to prevent bedsore include using various techniques for movement and displacement of patients, which is not possible for some patients or dangerous for some of them while it also poses problems for health care providers. Prevention is less cost-effective than treatment and the cooperation of health care staff can help in the prevention of Decubitus ulcer; Decubitus ulcer is still as a significant problem for certain patients in the hospital and society. Utilizing remote sensor arrange (WSN) in healing facility beds, which are known as brilliant beds, is a proper answer for anticipate Decubitus ulcer and an approach to falsifier the weights of Decubitus ulcer in patients hospitalized for quite a while. On the other hand, development of information technology in the health care system including application of wireless sensor networks (WSNs) has led to easy and quick service-providing. It can provide a solution to prevent bedsore in motionless and disabled patients. Hence, the aim of this article was first to introduce WSNs in hospital beds and second, to identify the benefits and challenges in implementing this technology. This study was a nonsystematic review. Therefore, identification and implementation of this technology will be a step toward mechanization of traditional procedures in providing care for hospitalized patients and disabled people. The smart bed and mattress, either alone or in combination with the other technologies, should be capable of providing all of the novel features while still providing the comfort and safety features usually associated with traditional and hospital mattresses. It can eliminate the expense of bedsore in the intensive care unit (ICU) department in the hospital and save much expense there.

Lidakhaleghi@yahoo.com