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Internet of Things based Remote Monitoring Platform for Patients with Movement Disorders

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In the coming years, the concept of Internet of Things is expected to be used in many different industries. One of the fields where Internet of Things offers great promises is healthcare, where its principles have already been applied to some extent. The possibility to remotely monitor patient's vital parameters offers a number of benefits. Doctors can be aware of patient's condition in real time, that allows them to react in time in the case of emergency. Besides, for patients it is much more comfortable, since they can stay at their homes and at the same time saving them from expensive hospitalization costs. In this paper, we propose an Internet of Things based system for patients with movement disorders. We focus on the application of wireless inertial sensors platform in evaluation of therapy effectiveness for patients with spasmodic torticollis. In particular, we provide some initial results for patients with neck tremor before and after receiving botulinum toxin injections.

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