

Wearable device

- [A Multicenter Study of Noninvasive Wireless Assessment of Cerebrospinal Fluid Shunt Function in Hydrocephalus Patients](#)
- [A Granular Hydrogel-Enabled Wearable Electrochemical Biosensing Platform for Continuous Non-Invasive Sweat Lactate Detection](#)
- [Revolutionizing stroke prediction: a systematic review of AI-powered wearable technologies for early detection of stroke](#)
- [In-hospital evaluation of an app-based seizure detection system in dogs: timely detection of generalized tonic-clonic seizures](#)
- [Higher blood pressure variability during hospitalisation is associated with lower cerebral white matter integrity in COVID-19 patients](#)
- [80N as the Optimal Assistive Threshold for Wearable Exoskeleton-Mediated Gait Rehabilitation in Parkinson's Disease: A Prospective Biomarker Validation Study](#)
- [Serial Assessment of Gait Changes After Interventions Using Smart Insole in a Patient With iNPH: A Proof-of-Concept Case Report](#)
- [Assessing Parkinson's Rest Tremor from the Wrist with Accelerometry and Gyroscope Signals in Patients with Deep Brain Stimulation: An Observational Study](#)

A wearable [device](#) is a type of [technology](#) that can be worn on the body, typically on the [wrist](#), fingers, head, or torso. These devices are designed to provide various features and functionalities to the user, such as tracking fitness activity, monitoring health data, receiving notifications, and even making phone calls.

Examples of wearable devices include smartwatches, fitness trackers, [virtual reality](#) headsets, smart glasses, and smart clothing. Many of these devices are equipped with [sensors](#), such as accelerometers and heart rate monitors, to collect data about the user's activity and health status.

Wearable devices are becoming increasingly popular due to their convenience, ease of use, and ability to seamlessly integrate with other technology. They are often connected to smartphones or other devices via Bluetooth or Wi-Fi, allowing users to access and share data easily. As technology continues to advance, the capabilities of wearable devices are likely to expand, providing even more opportunities for users to enhance their daily lives.

[Seizure](#) timing is associated with daily and multiday cycles in multiple physiological processes. Chronic multimodal wearable device recordings can situate rare paroxysmal events, like seizures, within a broader chronobiology context of the individual. Wearable [devices](#) may advance the understanding of factors that influence seizure risk and enable personalized time-varying approaches to epilepsy care ¹⁾

¹⁾

Gregg NM, Attia TP, Nasser M, Joseph B, Karoly P, Cui J, Stirling RE, Viana PF, Richner TJ, Nurse ES, Schulze-Bonhage A, Cook MJ, Worrell GA, Richardson MP, Freestone DR, Brinkmann BH. Seizure occurrence is linked to multiday cycles in diverse physiological signals. *Epilepsia*. 2023 Apr 14. doi: 10.1111/epi.17607. Epub ahead of print. PMID: 37060170.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=wearable_device

Last update: **2024/06/07 02:57**

