



# Rare-Ed

# Rare Disease Medical Devices

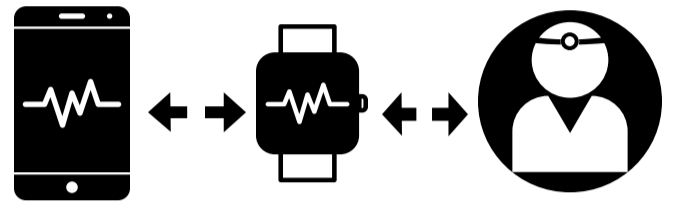
Learn about the Rare Wear Program and medical devices available to help with rare disease.

## How can medical devices help rare disease patients?

Medical wearable technologies and monitoring devices help patients better monitor and manage their condition, including neurological, cardiovascular, ophthalmic, chronic and neuromuscular conditions directly through their phones or smart watches. Devices can help monitor pain, activity, sleep, body vitals, seizures, glucose levels, and sweat



## WHAT ARE THE DIFFERENT TYPES OF MONITORING DEVICES?



### Wearable Cardiac Monitors



A Mobile Cardiac Telemetry (MCT) device provides real-time monitoring and transmission of ambulatory ECG information. **The Bioflux® MCT** system is a complete solution for remote cardiac monitoring that merges seamlessly with the physician's existing platforms and workflows. The device features 3 channels of remote ECG data, recorded for up to 30 days that offers increased diagnostic yield.

### Wearable O2 Fitness and Sleep Monitors



O2 and Sleep monitors can help better understand sleep quality and how changes in fitness and lifestyle impact sleep quality. It can improve quality of sleep using customizable O2 thresholds and tracks SpO2, Heart Rate and Motion. The **Bodimetrics O2 Fitness** and Sleep monitor comes with daily step goals and smart alert reminders that can help maximize fitness regimens and keep you on track with your health goals.

### Drug Dosing Devices



Drug dosing devices like wearable injection devices are a novel approach to drug delivery by allowing subcutaneous injections to be suitable for at-home administration. These devices allow patients with chronic conditions to administer medications at home. Devices include time-dosed autoinjectors affixed via adhesive onto the patient's body.

### Pain Management Monitors



Pain management monitors are real-time, self-report pain assessment systems available through smartphones or wearable devices. These monitors accurately reflects pain status and may help to alleviate pain for individuals with chronic pain conditions like fibromyalgia.

### Seizure Monitoring Wearable Devices



Seizure monitoring smart watches employ machine learning technology to detect epileptic seizures and immediately alert care team members. **The Embrace device** monitors electrodermal activity and identifies the most dangerous kinds of seizures, "grand mal" seizures or "generalized tonic-clonic" seizures. Then it sends alerts by text message and e-mail to designated caregivers.

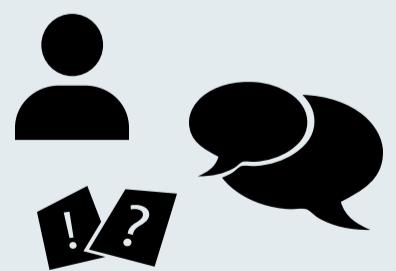
### Wearable Respiratory Monitors



Respiratory monitoring helps in the detection of sleep apnea, unhealthy sounds in diseased lungs, and measurement of respiratory rate. The automatic detection of breathing patterns through wearable devices helps monitor breathing activity continuously. The **Strados RESP technology** is a wireless, wearable stethoscope for lung sounds capture and unlocks patient auscultation data and puts it into the hands of the entire care team via the cloud.

## If I am interest in rare disease monitoring devices, what can I do?

Contact us! At <https://www.raregenomics.org/contact-us> (CLICK HERE)



The Rare Genomics team is very excited to officially launch the "RareWear" initiative (<https://www.raregenomics.org/rarewear/home>)! This program is designed to connect rare disease patients in need to companies gifting advanced medical device, monitoring, and wearable technology.

Follow us on social media to stay up to date on our latest programs like RareWear!

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