



## SEIZURE MONITOR FACT SHEET

This fact sheet contains a list of seizure monitors, apps and alarms that may detect seizures. This is not a definitive list. The use of a seizure alert device is an individual choice, with devices offering varying features, reliability and functions. Each device should be evaluated to ascertain their suitability for your individual needs. Please note that no device can guarantee that it will detect all seizures and none of the devices are registered medical devices in Australia, but may be so in their country of origin. We recommend that a device should be considered as just one part of an overall risk reduction review. Reducing risk and best practice Epilepsy Management is a discussion that is best had with your treating clinician.

\*Epilepsy WA does not warrant or endorse any of the products listed below and is not a manufacturer, distributor, seller, representative or broker of the products shown in this information sheet and related pages. Epilepsy WA offers only introductory information about the potential of these devices and does not accept responsibility for the consequences of the actual use of any device listed. All consumers are encouraged to confirm item particulars and pricing, with the relevant supplier, before placing any order.\*

### DEVICES FOR DAYTIME OR 24HR USE

#### Embrace Watch by Empatica



**What it is:** A smartwatch created in the USA that is connected to a person's mobile via Bluetooth connection which may detect tonic clonic seizures and can monitor activity levels and sleep quality. It can also act as a seizure diary. When it detects a tonic clonic seizure, it will send an alert SMS to caregiver's phones. It is also able to detect the location of an individual to help a care giver to respond to a potential seizure crisis.

It is fast charging and has a 48+ hour battery life. There is a monthly subscription fee to enable the monitoring and alert function on the watch. You will require a compatible Smart Phone as Bluetooth® and either an Internet or cellular data connection are necessary for the Alert App to send calls and SMS when Embrace detects a convulsive seizure. The Embrace is water-resistant for up to 1m/3ft.

#### Plans Available:

- Lite Plan - ideal if you want a single caregiver and the benefit of event detection.
- Standard Plan – sends an alert to up to three Caregivers on detecting an event, has Alert Location information (GPS), has Rest Mode which may detect milder seizures during period of low physical activity.
- Plus Plan – as above with the added bonus of having an unlimited number of carers that can be notified.



Current as of October 2020

Where to Purchase: <https://www.empatica.com/> NB. Please **contact Epilepsy WA** prior to purchase to **get a code** that provides you with an **8% discount**.

**Cost:** **USD249** for the watch (approx. \$388 AUS)

3 subscription levels with a **monthly fee (Euros)** – Lite (**€8.25/\$13.85 AUD**), Standard (**€16.60/\$27.88 AUD**), Plus (**€37.42/\$62.85 AUD**). You also have the option to pay yearly.

**Shipping:** USD69 (approx. \$107AUD)

## EpiHunter

**What it is:** Epihunter focuses on absence epilepsy as this causes silent, difficult to notice seizures that have a huge impact on day to day life. It is an app that works in conjunction with a wearable EEG headband so when a seizure is detected, the people around are notified immediately. The app enables the activation of video recording in the linked Smart Phone to capture footage of the seizure, including the 30 seconds prior to the detection as well as up to 30 seconds after the seizure. This requires only the smartphone's camera and EEG headset; no other equipment is needed. The event is also logged in an electronic seizure diary.



The Epihunter Core smartphone app uses brainwaves from the EEG headset to automatically detect, signal and log absence seizures in real time. Available for Android only. The easy-to-use thin EEG headset has 3 gold-plated frontal copper dry sensors. The sensors are on a velcro strip and can be put into a sports cap or beanie. You can remove the Sensor module from the headset for easy charging.

The Epihunter uses a subscription rather than a purchase model.

**Where to Purchase:**

<https://www.seizurealertaustralia.com.au/product/epihunter/>

**Cost:** **\$790.00 – \$1,450.00 inc GST**

Your choice of Epihunter Subscription Package durations with options including or excluding a Samsung A10/A20e or similar phone. All packages include the EEG headband and accessories.

**Shipping:** FREE

## Life Minder

**What it is:** The Life Minder Personal Safety Alarm is a wearable device that detects the sudden impact of a fall and can alert up to 8 nominated people by sending a text message containing a Google Map showing its location accurate to within 2 meters.

The wearer can also press the SOS function themselves to send a conscious alert with two-way speech to the first contact on the list. It can be attached to a belt, lanyard or key ring. The Life Minder is rated IP67 which means it is splash proof.



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It initially comes supplied with a pre-paid \$25 starter pack SIM card. The SIM card can be reloaded when required for as little as \$15.00 per annum (subject to change). Comes with a Magnetic Charging Cable for charging.

Where to Purchase: visit [www.lifeminder.com.au](http://www.lifeminder.com.au) or call the office 1800 684 422 (Free Call)

NB. If ordering online, call **1800 684 422** for an **additional 5% discount** with a National Seniors card or Pension Card number.

Cost: **\$450** for the pendant (once only cost) – inc. \$25 SIM card

Shipping: Free Express Delivery

## DEVICES FOR NIGHT-TIME USE ONLY

### AbiFit Sensor



What it is: The AbiFit Epilepsy rapid movement sensor (AbiFit sensor) is a small device that is placed in your loved one's bedroom. The AbiFit sensor monitors sleep patterns and alerts family members immediately once it detects what it expects are Tonic-Clonic type seizure movements during sleep (must occur for a period of 20-30 sec minimum). The sensor then activates an audible alarm on the sensor and at the same time transmits a push

notification and email alert to the AbiFit app on a designated parent or guardian's smartphone, waking them to attend to their child or loved one.

AbiFit is a standalone, portable, infra-red sensor. It is a reliable, battery-powered device that does not require connection to a landline, the internet or Wi-Fi to operate. Other than replacing the batteries every 12 months when notified, there is no upkeep required for the AbiFit sensor. Once the AbiFit app is downloaded from the App Store (Apple devices) or Google Play (Android Devices) and installed on your smartphone, it provides all the relevant information to oversee and be alerted by the AbiFit sensor. The AbiFit app may also be shared with other family members so they also receive alert notifications on their smartphone.

Where to purchase: [www.abibird.com.au](http://www.abibird.com.au)

Cost: AbiFit Sensor is free; subscription is **\$15 per calendar month** with no lock-in contract. Currently there is a 3 month free trial for customers to see if the device is a good fit for them.

Shipping: FREE



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## Emfit Epilepsy Sensor Alarm Bed Mat

What it is: A bed sensor that is said to detect nocturnal tonic clonic seizures, through a thin film ferroelectric sensor, that is placed under or on top of the mattress of a sleeping adult or child who is at risk of a convulsive seizure. (Mattress type will determine fitting choice)



When a seizure is detected, an alarm is sounded in the room through the devices alarm system. This device can also be used to alert carers when a person gets up or doesn't return within a set time frame, by setting off the alarm.

### Pager Model



You can also purchase a pager, which has a maximum range of 200 metres, to alert carers in other rooms of the seizure. If an adult wishes to retain their independence by living alone, it can be paired with a Life Minder device can send a text message to a pre-programmed mobile phone to notify loved ones that a seizure has taken place.

Further details can be found here: <http://www.epiassist.com.au/Epilepsy-Safe-Bed>

Where to Purchase: <http://www.epiassist.com.au/Buy-Now>, Phone 1800 684 422 or email [sales@epiassist.com.au](mailto:sales@epiassist.com.au)

Cost: **\$989** for the **mat, controller and power supply**  
An additional **\$419** if you wish to purchase the **Pager**

Shipping: \$30

## Nightwatch



What it is: A comfortable wireless armband that closely monitors heart rate and motion while the wearer is lying in bed. When the NightWatch detects a potentially severe seizure, a warning is transmitted to a caregiver via a wireless signal to the armband's corresponding base station.

The NightWatch detects various types of seizures including: Tonic seizures, Tonic-clonic seizures, Hypermotor seizures, Clustered myoclonic seizures. It can be connected to the internet so you can collect the wearer's heart rate and motion data. It eliminates any uncertainty about what happened during the night and provides neurologist with a greater insight into the intensity and duration of seizures. Armband can be worn on both the arm or the calf to ensure that there are no false alarms.

Where to Purchase: <https://www.seizurealertaustralia.com.au/product/nightwatch/>

Cost: **\$2490**

Shipping: FREE



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## PulseGuard™



What it is: The PulseGuard™ Mk-II system consists of two components: a lightweight watch type sensor that communicates via Bluetooth with the PulseGuard™ Software installed onto your own approved tablet.

The lightweight heart monitoring sensor can be comfortably worn on either the wrist or ankle (for small babies the upper leg) and does not interfere with the user's sleep.

The sensor constantly monitors the wearer's heart rate and sends data to the tablet running the PulseGuard™ Software which must be located in the same room, approximately 1 to 2 meters adjacent to the sensor. The tablet processes this constant flow of data and will raise an alert if the wearer's heart rate falls outside the normal parameters, which are individually programmed and tailored to each wearer's unique heart rate.

How to Purchase: Australian customers are encouraged to purchase a tablet and sensor yourselves in our own country and PulseGuard will then install the specialised software on it for you.

To do this, you will first need to purchase the following:

- Lenovo Tab M8 (\$188)
- Wahoo TICKR Fit Heart rate monitor, Bluetooth/ANT+ (\$129.95)

Once you have the above devices, you access the PulseGuard shop <https://pulseguard.org/shop/>. You will then click on the 'Purchase Software' button, complete your details, enter the serial number of the tablet, sign the software agreement, and make your payment.

Cost: **£450** (\$817 AUD) signup fee for the software and inclusive of 18 months of phone and email support.

Shipping: N/A

## Sami – The Sleep Activity Monitor

What it is: A sleep activity monitor for caregivers and individuals who need to watch carefully for abnormal movements at night (not the normal tossing and turning during sleep). During sleep, audio-video information from a remote infrared video camera is sent to an app that runs on an iOS device such as an iPhone or iPod Touch. The SAMi app records and analyzes the video for unusual activity. When an unusual event is detected, it sounds an alarm and records live audio and video from the SAMi network camera on the chosen device. You can then share these recordings with your doctor.



Where to Purchase: <https://www.samialertaustralia.com.au/shop>

Cost: **\$650** (camera only)

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**\$1490** - Standard Sami 3 Kit (the SAMi-3 Camera, tested and Preconfigured 6th Generation 16 or 32GB iPod Touch, tested and Preconfigured Dual Band WiFi Router and accessories)

**\$1990** - JB Edition SAMi-3 iPad Kit (the SAMi-3 Camera, tested and Preconfigured iPad Mini 4 WiFi 128GB, tested and Preconfigured Dual Band WiFi Router and all accessories)

**Shipping:** FREE

## **Baby Monitors**

**What it is:** If a seizure alert technology device is not practical for you to purchase, you may opt to use a baby monitor as a listening device. These monitors can be purchased at differing price points. Some baby monitors have differing functionality to include video etc. Please note these are not purposely designed as a seizure alert monitor, however they may be useful to amplify the sounds of a seizure occurring if the seizure results in noise creation. In addition, some people opt to use baby monitor devices in conjunction with a seizure alert device, to help amplify the sound of any alarm. We encourage people to research the capability around any device they purchase in advance.

**Cost:** varied

**Shipping:** varied

## **SPECIFIC ITEMS FOR INFANTS & TODDLERS**

### **Owlet**



**What it is:** The Owlet Monitor Duo tracks your baby's heart rate and oxygen levels while streaming live video and audio to your phone. Stay informed of your baby's needs with live readings of heart rate and oxygen levels in the Owlet app. Parents can see and hear baby from anywhere, and multiple users can access the same account with a single login.

The duo consists of a wearable 'sock' and a camera. The device is designed to be used by children from birth up to 18mths of age (or until they weigh around 11kg). As the device monitors heart rate, it may be able to detect seizures as there is often an elevation of heart rate during an event.

**Where to Purchase:** <https://owletcare.com.au/>

**Cost:** **\$649.99** for both the sock and the camera. These can be purchased individually (the sock does not require the camera to work, but it does not provide any visual footage) – Sock = \$429.99, Camera = \$279.99

**Shipping:** free



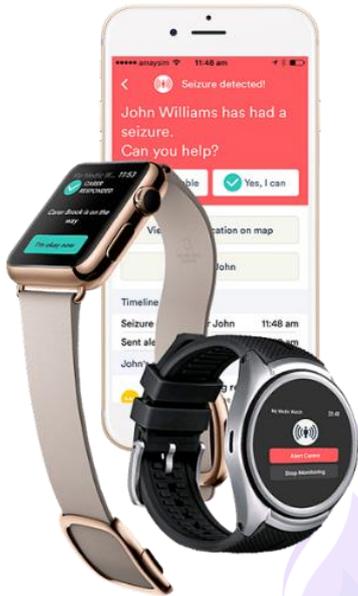
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## SMART PHONE APPLICATIONS

### My Medic Watch

What it is: Apps that run on Apple and Android smartwatches. They automatically detect falls or seizures, using proprietary and innovative algorithms to interpret data automatically captured by smartwatch sensor technologies. It constantly reads the data, including heart rate, to automatically detects falls and seizures. The app is compatible with a variety of Apple, Samsung and Android Smart Watches (see website for full list).



If an individual has a fall or a seizure, My Medic Watch app automatically detects the event and notifies his/her caregivers, providing details of the individual's location. Each alert recipient can send a response advising whether they are able to assist, which is forwarded to both the individual and the other caregivers.

The My Medic Watch seizure app may capture 'generalised tonic-clonic seizures', also known as convulsive seizures or grand mal seizures. In some cases, if and only if the smartwatch is worn on the same side as the seizure side, it might capture myoclonic seizures and might also capture a focal motor seizure.

#### Plans Available:

- Starter Plan – seizure and fall detection, manual alert function, push notification to up to 3 carers, data recorded and email support.
- Plus Plan – as above with up to 5 caregivers notified, sms messages, ability to access and share data.
- Premium Plan – as above with the added bonus of having an unlimited number of carers notified, call centre and data analysis.

#### Where to Download/Purchase:

<https://play.google.com/store/apps/details?id=com.mymedicwatch.seizure.prod> or  
<https://apps.apple.com/au/app/seizure-alert-my-medic-watch/id1392205704>

Cost: There is no cost for the app but there is a monthly fee for the detection and alert service  
3 subscription levels with a **monthly fee** – Starter (**\$10 AUD**), Plus (**\$20 AUD**), Premium (**\$55 AUD**). You also have the option to pay yearly.

Shipping: N/A

## SeizAlarm App

What it is: A user-friendly iPhone and Apple Watch app that enables those with epilepsy and other seizure disorders to alert emergency contacts automatically when seizure-like motion is detected or manually if they need immediate help or think they might need help soon. It is suggested that using the watch is more accurate and it also allows you the option of heart rate based detection (not available on iPhone).



Emergency contacts will receive a text message, email and phone call letting them know the user needs help with the GPS coordinates of where the user is located. The user has complete control over which contact methods are used for each contact. The "Help Request" button should be used if you feel a need for immediate assistance or The "Time Delayed Help" button can be used if you have frequent mild to moderate auras (simple-partial seizures), that don't always result in tonic-clonic seizures. Using the Time Delayed Help button starts a timer and if the delayed help request is not ended manually by the user after user-controlled set period of time, then a help request is sent to your emergency contacts. This option can also be used if the customer believes are experiencing any other symptoms you believe could be a precursor to a seizure.

### Cost:

- There is no cost for the app, but there is a \$14.99 USD/month or \$149.99 USD/year (17% discount) subscription required for seizure detection and the help request service.

Where to Purchase: <https://apps.apple.com/app/apple-store/id978475280?mt=8>

Shipping: N/A

## SmartWatch Inspyre

What it is: A non-invasive movement detection and alerting monitoring app that can be used with the Apple Watch and with Samsung Gear S3, Gear Sport, and the Samsung Galaxy/Galaxy Active 1 and 2 watch. The watch looks for repetitive shaking motion - upon the onset of such motion, the SmartWatch Inspyre sends information from the watch to the user's phone via Bluetooth. Almost immediately the phone then sends out alert notifications that abnormal motions have been detected to whomever has been selected as an alert recipient.



### Plans Available:

The Bronze, Silver and Gold plans ALL offer motion detection, instant alerts, and event recording with secure access. They also all offer adjustable settings for both am and pm use - the user can determine the intensity and duration of the movement they would like the Inspyre to detect and alert upon.

Current as of October 2020

- Bronze Plan – single contact only.
- Silver Plan - up to five contacts to receive a text message alert, one primary contact to receive a voice call, a “Get Help” button, and snooze option where the wearer can pause the movement monitoring.
- Gold Plan - unlimited contacts receive a text message alert, one primary contact will receive a phone call, GPS location of the individual in the text of the alert, medication reminders, a snooze option, symptom reporting, and heart rate data recording during an event.

Where to Purchase: [www.smart-monitor.com](http://www.smart-monitor.com)

Cost:

- **USD20/\$28.85 AUD** Activation Fee: **plus** annual service fee (choice below)
- Android Annual Service Fee: IOS Annual Service Fee:
  - **Bronze USD119/\$171.67 AUD** - **Bronze USD179/\$258.22 AUD**
  - **Silver USD239/\$344.78 AUD** - **Silver USD359/\$517.89 AUD**
  - **Gold USD479/\$691 AUD** - **Gold USD559/\$ 806.41 AUD**

**Shipping:** N/A

Epilepsy WA has a number of seizure alert technology options on display in our office in Nedlands and offers a free Emfit Epilepsy Sensor Alarm Bed Mat loan service for evaluation purposes (subject to availability, terms & conditions apply). Call 1300 852 853 for more information or to book an appointment to view the seizure monitor display devices.

EWA has recorded online information sessions with the companies that produce the Empatica Embrace Watch, PulseGuard, Epihunter, Sami and AbiFit. This can be viewed on the Epilepsy WA website: <http://www.epilepsywa.asn.au/online seminars>. Other webinars will be added over time.



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## SEIZURE ALERT TECHNOLOGY INFORMATION SHEET

| Product Description  | Cost  | Type of Product |     | Seizure Type Intended to Detect |                | When to Use |       | Alert Sent to Carers Phone | GPS Location Sent                 | Person Can Send Manual Alert | Where to purchase   |
|--|---|-----------------|-----|---------------------------------|----------------|-------------|-------|----------------------------|-----------------------------------|------------------------------|---|
|  |   | Device          | App | Convulsive                      | Non-convulsive | Day         | Night |                            |                                   |                              |   |
| <b>Embrace Watch by Empatica</b><br>- A smartwatch that is connected to a person's mobile via Bluetooth connection which may detect tonic clonic seizures. | Watch USD249 (\$356AUD)<br><br>8% discount may be available for EWA members.<br><br>Monthly Subscription Fee<br>- Lite (€8.25/\$13.85)<br>- Standard (€16.60/\$27.88)<br>- Plus (€37.42/\$62.85)<br><br>Can Pay Yearly<br><br>Shipping: USD69 \$107AUD) | Y               | Y   | Y                               | N              | Y           | Y     | Y                          | Y<br>(with silver and gold plans) | N                            | <a href="https://www.empatica.com/">https://www.empatica.com/</a> |

*NB: All prices are subject to change, currency conversions are intended as a rough guide only. All consumers are encouraged to contact the suppliers to confirm costings and item particulars before ordering directly from them.*

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|--|--|-----------------|-----|--|----------------|-----------------------|-------|--|-------------------|------------------------------|---|
|  |  | Device          | App | Convulsive                                       | Non-convulsive | Day                   | Night |  |                   |                              |   |
| <b>EpiHunter</b><br>- A wearable device that may detect Absence Seizures | \$790 – \$1,450<br>Choice of Epihunter Subscription Package with options +/- a Samsung A10/A20e phone. EEG headband and accessories included | Y               | Y   | N  | Y              | Y                     | N     | Y  | N                 | N                            | <a href="https://www.seizurealertaustralia.com.au/product/nightwatch/">https://www.seizurealertaustralia.com.au/product/nightwatch/</a> |
| <b>Life Minder</b><br>- Wearable pendant device that detects falls       | \$450 for the pendant – inc. \$25 prepaid SIM card<br><br>Shipping: free   | Y               |     | Y<br>(Detects the fall or drop at seizure onset) | N              | Y                     | N     | Y<br>(Calls first person on list as well as sending SMS) | Y                 | Y                            | <a href="http://www.lifeminder.com.au">www.lifeminder.com.au</a> or call the office 1800 684 422 (Free Call)                            |
| <b>AbiFit Sensor</b><br>– Wall mounted sensor                            | 3 month free trial<br>\$15/month<br>No lock in contract  | Y               | Y   | Y  | N              | Y<br>(must be in bed) | Y     | Y  | N                 | N                            | <a href="http://www.abibird.com.au">www.abibird.com.au</a>  |
| <b>Emfit Epilepsy Sensor Alarm</b><br>- A bed sensor mat                 | \$ 989 (mat only)<br>+ \$419 for the paging system<br>Shipping: \$30   | Y               |     | Y  | N              | Y (must be in bed)    | Y     | N<br>(Alert sent to pager when purchased)                | N                 | N                            | <a href="http://www.epiassist.com.au/Buy-Now">http://www.epiassist.com.au/Buy-Now</a>   |



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|   |   | Device          | App | Convulsive                      | Non-convulsive   | Day         | Night |                            |                   |                              |   |
| <b>Nightwatch</b><br>- Consists of a comfortable wireless armband that closely monitors heart rate and motion while the wearer is lying in bed. | \$2490  | Y               |     | Y                               | Y<br>(may also detect Tonic seizures, Hypermotor seizures, Clustered myoclonic seizures) | N           | Y     | Y                          | N                 | N                            | <a href="https://www.seizurealertaustralia.com.au/product/nightwatch/">https://www.seizurealertaustralia.com.au/product/nightwatch/</a> |
| <b>PulseGuard</b><br>- Software that works with wearable sensor that monitors heart rate. For bedtime use only.                                 | <b>£450</b> (\$817 AUD) signup fee for the software and inclusive of 18 months of phone and email support.<br><br>Shipping: N/A | Y               |     | Y                               | Y<br>(May Detect)  | Y           | Y     | Y                          | N                 | N                            | <a href="https://pulseguard.org/">https://pulseguard.org/</a>   |



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|  |  | Device          | App | Convulsive                      | Non-convulsive | Day                | Night |  |                   |                              |   |
| <b>Sami – The Sleep Activity Monitor</b><br>- Infrared camera monitors sleep activity. AV info sent to an app.                                     | \$650 (camera only)<br><br>\$1490 - Standard Sami 3 Kit<br><br>\$1990 - JB Edition SAMi-3 iPad Kit<br><br>Shipping: free | Y               |     | Y                               | N              | Y (must be in bed) | Y     | N<br>(Alert sent to purchased portable device) | N                 | N                            | <a href="https://www.samialertaustralia.com.au/shop">https://www.samialertaustralia.com.au/shop</a> |
| <b>Owlet Monitor Duo</b><br>- baby monitor that tracks your baby's heart rate and oxygen levels while streaming live video and audio to your phone | - \$649.99 (both the sock and the camera)<br><br>- \$429.9 sock only<br><br>- \$279.99 camera only                       | Y               | Y   | N                               | N              |                    | Y     | Y  | N                 | N                            | <a href="https://owletcare.com.au/">https://owletcare.com.au/</a>                                   |



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|  |   | Device          | App | Convulsive                      | Non-convulsive | Day         | Night |                            |                                   |                                   |   |
| <b>SeizAlarm</b><br>- An iPhone and Apple Watch app which alerts emergency contacts automatically when seizure-like motion is detected or manually if a person needs help. | Free App<br><br>Monitoring and Alert Service<br>\$14.99 USD/month or<br>\$149.99 USD/year   |                 | Y   | Y                               | N              | Y           | Y     | Y                          | Y                                 | Y                                 | <a href="https://apps.apple.com/app/apple-store/id978475280?mt=8">https://apps.apple.com/app/apple-store/id978475280?mt=8</a> |
| <b>SmartWatch Inspyre</b><br>- A movement detection and alerting monitoring app.   | Activation Fee:<br>USD20/\$28.85<br><br>Annual service fee<br><u>Android</u><br>Bronze-USD119/\$171<br>Silver<br>USD239/\$344.78<br>Gold<br>USD479/\$691<br><br><u>iOS</u><br>Bronze<br>USD179/\$258.22<br>Silver<br>USD359/\$517.89<br>Gold<br>USD559/\$806.41 |                 | Y   | Y                               | N              | Y           | Y     | Y                          | Y<br>(with silver and gold plans) | Y<br>(with silver and gold plans) | <a href="http://www.smart-monitor.com">www.smart-monitor.com</a>  |



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|   |  | Device          | App | Convulsive                      | Non-Convulsive | Day         | Night |                            |                   |                              |  |
| <b>My Medic Watch</b><br>- Compatible with Apple and Android smart watches. It interprets data automatically captured by smartwatch sensor to detect falls or seizures. | Free App<br><br>Monthly fee for the detection and alert service<br><br>3 subscription levels with a monthly fee<br>- Starter \$10<br>- Plus \$20<br>- Premium \$55 |                 | Y   | Y                               | N              | Y           | Y     | Y                          | Y                 | N                            | <a href="https://play.google.com/store/apps/details?id=com.mymedicwatch.seizure.prod">https://play.google.com/store/apps/details?id=com.mymedicwatch.seizure.prod</a><br>or<br><a href="https://apps.apple.com/au/app/seizure-alert-my-medic-watch/id1392205704">https://apps.apple.com/au/app/seizure-alert-my-medic-watch/id1392205704</a> |



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