Seizure Monitors – prices and evaluation*

Safety Devices – Questions to Ask

If you are considering a safety device, it is really important to have considered the different options carefully. You should speak to your Doctor or Epilepsy Specialist before you begin using any of them. These questions are a starting point to help you in your research of the various safety devices on offer:

- Which seizure type or types does this monitor pick up?
- Is this safety device suitable for my type of epilepsy?
- How many or what percentage of seizures is this monitor likely to pick up?
- How often does this monitor give out a false alarm?
- Will this monitor get in the way of my day to day living?
- What is the cost of the monitor?
- What are the potential issues I may experience with this monitor (eg: false alarms)

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### Emfit Epilepsy Sensor Alarm

**What it is:** A bed sensor that detects a seizure by a thin metal sheet placed in between two mattresses. An alarm is then sounded to carers by a pager or if an adult wishes to retain their independence by living alone the D-1090-2G controller will alert the emergency eAlert telephone which will automatically dial pre-programmed telephone numbers and give a recorded message to family or even the government emergency 000 that a seizure is taking place. It can also be used to monitor presence in bed and set off the alarm when the person has left the bed or not returned to the bed within a specified time frame.

<table>
<thead>
<tr>
<th>Alarm Photo</th>
<th>Cost &amp; where to purchase</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
</table>
| ![Emfit Epilepsy Sensor Alarm](image.png) | - AU $949.00 (GST free) sensor alarm  
- Postage AU$30  
**Optional extras**  
- Personal paging system to notify recipient of seizure AU$399 (Ideal for group home living)  
- Replacement sensor only AU$300  
Purchase includes product support via phone from Epi-Assist 24/7.  
Accurate as of Nov 2018 | - No weight restrictions so works for children & adults.  
- The sensor has an audible alarm with adjustable volume.  
- It is registered as a medical device in Australia.  
- 24 month warranty.  
- Emergency eAlert telephone can automatically dial pre-programmed number. | - Power supply is available and can be purchased as an additional accessory.  
- It is battery operated.  
- Personal pager for a family member that lives in another part of a home is available for AU$399. |

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**Seizure Monitors – prices and evaluation**

<table>
<thead>
<tr>
<th>SAMi-3 – The sleep activity monitor</th>
<th>Cost:</th>
</tr>
</thead>
</table>
| What it is: A video based movement detection system. An infrared camera that detects motions during the night and alerts parents/carers on their apple device (iphone/ipod/ipad). Events are recorded and archived. | - International kit US$998.00, includes SAMi-3 camera, pre-configured 32GB iPod (6th generation), international power adapters and Wi-Fi routers.  
- iPAD kit US$1,448.00, includes SAMi-3 camera, pre-configured iPad Mini 4, international power adapters and Wi-Fi routers.  
- SAMi3 camera on its own is priced at US$399.00.  
- Price does not include GST and tariff and duty fee. |

- Unlike a baby monitor which only detects sound, this detects motion.  
- It provides high quality, accurate recordings that are time/date/duration stamped for purpose of documentation, review/evaluation, and communication with your doctor.  
- Can return within 45 days for a refund if you are not happy with it. |

- Needs an Apple device to use it. Will not work with androids.  
- If your child is a very restless sleeper or shares a bed, or if there is a family pet or service dog sleeping with the child, you may get lots of false alarms.  
- The camera has visible lights on the front. There is a bright power light which can be easily covered but there is also a ring of dim red lights that cannot be covered as they allow the camera to see in the dark. This might bother some people.  
- Need good quality Wi-Fi routers. |

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https://www.samialert.com/
## Seizure Monitors – prices and evaluation*

| NDIS Provider Number | Life Minder | One off cost: AU$397.00 (GST included). Free postage Australia wide. However SIM card needs to be topped up. | Water resistant so can be worn in the shower.  
- 12 month warranty.  
- Comes in a variety of colours.  
- Life minder is a mobile phone without complicated features.  
- When a fall is detected up to 5 nominated mobile services will receive a text message including a link via Google Map for the location. | Comes with a $10 SIM card. This SIM card needs to be reloaded. Prices start from $10 for 90 days. |
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<tbody>
<tr>
<td>4050012721</td>
<td>What it is: The Life Minder is a wearable device that detects the sudden impact of a fall and can alert up to 5 people by sending a text message with a Google Map location, accurate to within 2 meters. The wearer can also press the SOS function themselves to alert the mobile phones connected to it. It works with a SIM card on either Telstra or Optus network Australia wide. Can be attached to a belt, lanyard or key ring. Comes with its own docking station to charge.</td>
<td><a href="http://www.lifeminder.com.au/product/the-life-minder/">http://www.lifeminder.com.au/product/the-life-minder/</a></td>
<td>*The Epilepsy Foundation does not warrant or endorse these products and is not a manufacturer, distributer, seller, representative or broker of the products shown in this information sheet. The Epilepsy Foundation 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 on this fact sheet. *Researched by Alyce Woodruff, Occupational Therapist, Epilepsy Foundation, September 2017. (Reviewed and updated by Peter Kim, a social work student, on November 2018). The product listed were not arranged in any particular order.</td>
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### Seizure Monitors – prices and evaluation*

<table>
<thead>
<tr>
<th>Live Life Personal Alarm</th>
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<tbody>
<tr>
<td>When activated, the pendant sends 5 help messages using the in-built Swiss U-Blox 7 precision GPS via SMS with a link to Google Maps showing the wearer’s location to within 2 metres. It then starts calling up to 5 emergency contacts one after the other using the Telstra or Optus mobile network.</td>
<td>• AUD $497.00 one off cost and free postage. Can be purchased from <a href="https://livelifealarms.com.au/product/order-mobile-alarm/">https://livelifealarms.com.au/product/order-mobile-alarm/</a></td>
<td>• Can add up to 5 contacts or add 000. • Automatic fall detection. • Pendant is shower and rain proof.</td>
<td>• Sim card needs top up when balance is low.</td>
</tr>
</tbody>
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<tr>
<th>Smart Watch Inspyre App</th>
<th>Embrace1 and Embrace 2/ Empatica Watch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What it is:</strong> An app that is downloaded to the user’s phone. You need to have your own smart watch or you can purchase an android smart watch from them. Users need to carry their phone (either an Android or Apple) within 15 foot range so that the watch can signal the users phone which then texts or calls their family member or friend’s phone. Alerts can be cancelled by the user. The user can also request help by pushing a button on the watch.</td>
<td><strong>What it is:</strong> A smartwatch that is connected to a person’s mobile via Bluetooth connection which may detect seizures, and can monitor activity levels and sleep quality. When it detects a seizure</td>
</tr>
<tr>
<td><strong>SmartMonitor</strong></td>
<td><strong>Embrace1</strong></td>
</tr>
<tr>
<td><img src="image" alt="SmartMonitor" /></td>
<td><img src="image" alt="Embrace1" /></td>
</tr>
</tbody>
</table>
| **ANDROID SUBSCRIPTION FEE**  
Bronze package US$119  
Silver package US$239  
Gold package US$479  
(Does not include activation fee US$20). | **US$199 for Embrace 1 plus monthly subscription fee. Has 24-36 hours of battery life.**  
**US$249 for Embrace2 plus monthly subscription fee. Has 48 hours battery life** |
| **APPLE SUBSCRIPTION FEE**  
Bronze package US$179  
Silver package US$359  
Gold package US$599  
(Does not include US$20 activation fee). | **Looks like any other stylish smartwatch on the market.**  
**The watch can be return within 30 days from delivery.**  
**The order will include a 30 days free trial of** |
|  | **Subscription fee needs to be paid each year.**  
**Phone and watch need to be within 15 meters of each other.**  
**Apple watch subscription will cost more than Android watch subscription.** |

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|          | Embrace 2 | Postage not include | Both watches require a monthly subscription fee. | Can be purchased from [https://www.empatica.com/](https://www.empatica.com/) | Plus Plan. | International buyers do not need a prescription. | For donated or discounted Embrace 1 Watch please contact Epilepsy Action Australia. [https://support.empatica.com/hc/en-us/articles/204713469-How-to-receive-a-donated-Embrace](https://support.empatica.com/hc/en-us/articles/204713469-How-to-receive-a-donated-Embrace) | The watch needs to be charged for 2 hours each day. | The watch may confuse stimming behaviour (repetitive or unusual body movement or noises, like hand flapping or snapping fingers) with a seizure. | Is specifically made to detect only Tonic-clonic seizure. | You need to connect it to the Alert App or Mate App |
|----------|-----------|----------------------|------------------------------------------------|--------------------------------------------------------------------------|----------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Embrace 2 | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) | ![Embrace 2](image) |

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Drop Support

What it is: Designed and produced by someone who has a family member with epilepsy – and drop attacks (tonic and atonic seizures). Drop Support is unique in that it secures the user’s whole upper body, with one centralised point of contact. It’s this point of contact that enables full fall support for the whole upper body, and the ability to re-stabilise the person, lessening the likelihood of injury.

- Children’s drop support harness US$99.99
- Boys and Girls drop support harness US$129.99
- Adult drop support harness US$129.99
- Postage is not included
- Promotional code DROP30 can be used for 30% off your purchase
- Available at https://www.dropsupports.com/

Accurate as of Nov 2018

- The vertical handle provides the assistant with a better means of controlling and managing the user’s directional motion.
- The added support straps over the shoulder’s and chest area help the assistant in better managing and stopping forward falls.
- The support handle sits higher up the back, and is more accessible when the user is seated.

- Is sold in the US but can ship to Australia.
- The purchaser has to pay for the shipping cost.
- May not work for everyone.

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| **Tunstall Healthcare Vibby Fall Detector** | **The Vibby fall detector cost** AU$198.66.  
**The Smart Hub in-home 3G GSM device is priced at AU$425 plus AU$20.90 per month for 24x7 monitoring support.**  
**The Smart Hub in-home 3G GSM device can also be rented at AU$44.50 a month which will include 24x7 monitoring support.**  
For information enquiry contact info@tunstallhealthcare.com.au  
For sales enquiry contact sales@tunstallhealthcare.com.au  
For NDIS enquiry contact NDIS@tunstallhealthcare.com.au  
For demonstration video visit [https://www.youtube.com/watch?v=gyrOKyBybP4](https://www.youtube.com/watch?v=gyrOKyBybP4) | **Will automatically call through to the Tunstall 24/7 customer care team in the event of a significant fall.**  
**There is a 20 second delay before raising an alert, to ensure that it wasn’t a false alert.**  
**Fully covered by NDIS and can be claimed under Assistive Technology.**  
**Flat monthly rate regardless of how many alerts are raised.**  
**Demonstration video is available at [https://www.youtube.com/watch?v=gyrOKyBybP4](https://www.youtube.com/watch?v=gyrOKyBybP4)** | **The Vibby need the Smart Hub 3G GSM alarm to work. The alarm is also covered under NDIS.**  
**Subscription fee is required each month.**  
**A help call will NOT be initiated if the Vibby is out of range.**  
**Home condition can also affect the range of the Vibby.**  
**Following a low battery signal the battery should be changed as soon as possible.** |

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<table>
<thead>
<tr>
<th><strong>Feros Care</strong></th>
<th><strong>AngelCare Sound &amp; Movement Monitor AC401</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>What it is: Tunstall Epilepsy care bundle. The package includes in-home communicator base, nocturnal epilepsy sensor mat, falls detector pendant, 24/7 emergency response monitoring.</td>
<td>Slide the Sensor Pad under the crib mattress and its motion detectors will pick up the slightest movements; whether baby is sound asleep or wide awake.</td>
</tr>
</tbody>
</table>
| - One off activation fee of AU$335.  
- **Weekly fee** is AU$39.55.  
- Detect all of the baby’s movements.  
- Low battery indicator.  
- Adjustable sensitivity.  
- Battery or AC adapter operated.  
- Automatically converts to battery during a power failure. |
| - For those living alone who are worried about falling and injuring themselves during a tonic-clonic seizure.  
- Lifelink will alert you when the person you care for is having a seizure.  
- Packaged with seizure mat, fall monitor, installation, and 24/7 support. | - High cost of registration and subscription fee.  
- You may not need or use all of the equipment that is provided to you. |
| - High cost of registration and subscription fee.  
- You may not need or use all of the equipment that is provided to you. | - Reliability still unknown.  
- Can’t return or exchange for change of mind. |

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Plus, like music to your ears, you’ll hear every little sound coming from baby’s room on your portable Parent Unit, which features a full colour digital display, nursery temperature display and other extras designed to give you the peace of mind you need to get a good night’s sleep too.

Future Development

NightWatch

A new high-tech bracelet, developed by scientists from the Netherlands detects 85 percent of all severe night-time epilepsy seizures. The research team prospectively tested the bracelet, known as Nightwatch, in 28 intellectually handicapped epilepsy patients over an average of 65 nights per patient. The bracelet was restricted to sounding an alarm in the event of a severe seizure. The patients were also filmed to check if there were any false alarms or attacks that the Nightwatch might have missed. This comparison shows that the bracelet detected 85 percent of all serious attacks and 96 percent of the most severe ones (tonic-clonic seizures), which is a particularly high score.

Taken from: Johan Arends et al. Multimodal nocturnal seizure detection in a residential care setting, Neurology (2018). DOI: 10.1212/WNL.0000000000006545

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