

## Down syndrome

While cardiovascular health is a critical concern for everyone, people with **Down syndrome** are at a significantly **higher risk** of experiencing cardiovascular issues compared to the general population.



Over half of all infants born with Down syndrome will have a congenital heart defect that is likely to develop over a lifetime into serious cardiovascular complications.

People with Down syndrome in Australia are over **3 times more** likely to be admitted to hospitals for severe cardiac events such as stroke compared to people without. We estimate that 1 in 14 individuals with Down syndrome will experience a similar severe cardiovascular event every year.

This is a major concern as cardiovascular disease is one of the leading causes of death in individuals with Down syndrome, and an adverse event can worsen disability outcomes and decrease quality of life significantly. Addressing these challenges requires a **proactive and tailored approach** to improve long-term outcomes and reduce the risk of experiencing these severe cardiovascular events.

### The Challenge

Although clinical guidelines for Down syndrome recommend regular and lifelong ECG monitoring, the reality often falls short of these standards. Barriers such as specialised support needs and lack of communication, finances and logistics contribute to this gap, leaving many individuals with Down syndrome at a heightened risk for undiagnosed and unmanaged cardiovascular complications. ECG monitoring is traditionally performed in hospital or clinic, typically on an annual basis. The long time between ECG checks weakens the benefit of early detection, increasing the risk of adverse cardiovascular events and worsened disability outcomes that could have been prevented.

#### A severe complication such as a stroke or heart attack can lead to:

- Worsened disability outcomes
- Lower quality of life
- Long-term assisted healthcare, support needs and costs
- Loss of independence

### How we can help

Our simple to use, TGA-approved, ECG device observes the way that your heart functions and is able to detect the presence of undesirable cardiovascular conditions. It is a powerful diagnostic tool made available under our NDIS services.

#### Frequent ECG monitoring

- Transform cardiovascular outcomes by identifying key potential heart health issues before they escalate
- Provides a proactive approach to early detection of cardiac arrhythmia's, enabling timely clinical intervention to prevent stroke and other adverse cardiovascular events
- Brings **peace of mind** to people with Down syndrome



## Why choose ecgme™?

### Empowerment

- Ensures individuals with Down syndrome and their caregivers have the power to make informed decisions about their cardiovascular health.

### Prevention

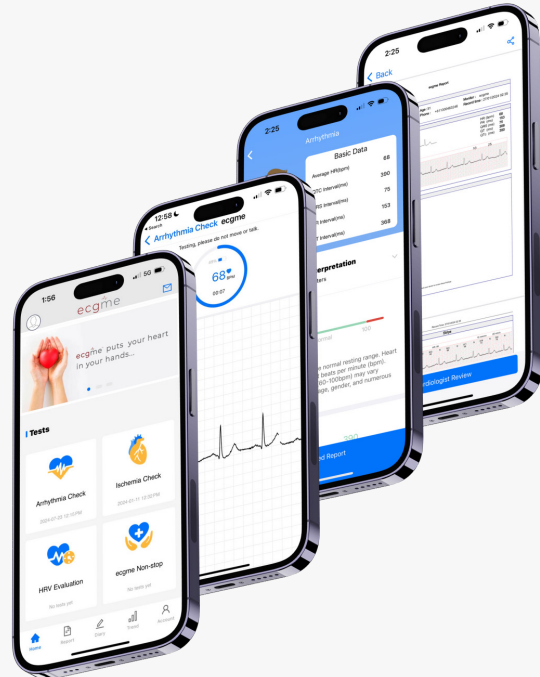
- Enables early detection of cardiac abnormalities, allowing for early health interventions for cardiovascular diseases that affect individuals with Down syndrome disproportionately.

### Convenience

- Designed to integrate seamlessly into everyday life, with the ability for tests to be administered by caregivers or during allied health, community nursing or occupational therapy visits in as little as 30 seconds.

### Improved Outcomes

- Enables access to early interventions that preserve independence, reduce care needs and protect quality of life.



## About Us

Biosignals Diagnostics is a registered NDIS provider for assistive technologies, we are committed to improving the health outcomes for people with disabilities, we believe that everyone deserves access to proactive, potentially life-changing healthcare solutions.

We empower individuals with Down syndrome and their caregivers to take proactive steps to improve their heart health.

Our cutting-edge ECG monitoring platform can help detect cardiac abnormalities early, before they develop into a life altering adverse cardiovascular event.

ecgme™ is a small, easy-to-use assistive technology device that provides immediate insight and early warnings for potential heart health issues and health conditions from the comfort of your own home.

Our team of expert cardiologists review your heart's health and provide oversight to make informed decisions alongside your GP. As an NDIS provider, we align with recommendations for regular health assessments.

*Proactive ECG monitoring saves lives, with **ecgme®** you can take control of your cardiovascular health and detect an adverse event before it escalates. Stay ahead of the risks – protect your heart and improve your outcomes.*

*Talk to us today to learn how the **ecgme®** disability services can fit within your plan and how you can take control of your heart health today.*

Biosignals Diagnostics Pty Ltd  
Level 1, 127 Market Street  
South Melbourne, VIC 3205  
[www.biosigdx.com](http://www.biosigdx.com)  
1300 463 246

**bio**signals<sup>DX</sup>  
BIOSIGNALS DIAGNOSTICS