



The only wearable actively helping people with severe balance disorders.

Severe balance disorders go beyond feeling off-balance...



Zonder BalanceBelt



Met BalanceBelt

Balance disorders

Bilateral Vestibular Loss (BVL) is a total loss of both inner ears, while **Bilateral Vestibular Hypofunction (BVH)** is a partial loss. This is caused by damage to the vestibular system, which connects your inner ear to your brain and supports in keeping you in balance.

Due to symptoms including dizziness, loss of balance, and blurred vision, patients with BVH or BVL may be forced to reduce their daily activities. This can lead to social isolation, and the need for help with daily tasks like walking or attending social events, which reduces physical activity and increases feelings of loneliness and depression.

Causes

This disorder can be caused by a variety of conditions, including meningitis, sequential vestibular neuritis, progressive disorders, autoimmune disorders, and congenital loss. Although the underlying cause is (often) difficult to identify.

Primary complaints

- **Imbalance and risk of falling**

You may feel unsteady when lying down, sitting down, or more frequently when standing or moving around. Sprains, dislocations, and fractures of the bones can occur as a result of falling.

- **Blurred vision**

You might also experience blurred or unstable vision when your head is moving, also known as *oscillopsia*.

- **Vertigo**

You might occasionally feel unsteady and experience vertigo attacks; as a result, you might have a spinning sensation or the impression that the world is spinning around you.

- **Fatigue**

This condition has an influence on both your physical and mental well-being, impacting your daily activities. Even light physical activity may leave you feeling exhausted since it requires a great deal of focus and energy to move around. Additionally, you might notice that despite your best efforts, sleep or relaxation do not alleviate these symptoms.

- **Physical deconditioning**

Being physically unwell can also be a major issue for you. This can be caused either directly by your fear of falling or indirectly through increased dizziness when moving.

Vestibular function: diagnosis & procedure

We advise you to request a referral to a specialist for a vestibular function diagnosis from your physician or doctor. Tests like the *rotational chair*, *video head impulse testing*, and *caloric tests* can be used to measure vestibular function. Your doctor might also inquire about your balance history.

A physical examination of (BVL) patients will take into account symptoms such as oscillopsia, postural instability, and the patient's ability to perform daily activities. During this vestibular history assessment, it is also necessary to look for additional factors, such as visual and somatosensory abnormalities, that could impede recovery.

What is the BalanceBelt?

The BalanceBelt is a belt worn around your waist that provides feedback about your body's position and balance through vibration signals.

The belt is comfortable, easy, and intuitive to use. The BalanceBelt replaces the (lost) function of your balance organs and helps you regain your sense of balance: giving you back your independence.



How does the BalanceBelt work?

The BalanceBelt detects your posture by measuring the angle of your upper body and communicates this information to your body via vibration signals. Within one hour*, your brain and body will subconsciously process this feedback and perceive it as a new, true source of information that helps you move more confidently and freely without having to constantly analyse your surroundings. As a result, you will feel less tired and have a lower risk of falling.



*Your body may require more time to react to the input of the BalanceBelt, depending on the severity of your vestibular loss and how long you have experienced it.

What can you do?

Severe balance disorders can lead to social isolation, dependence on others and depression. Until now, there was no cure or treatment for this condition. The BalanceBelt helps you to increase your confidence and regain your independence, making you feel free with every step you take.

-  Regain your confidence and independence
-  Resume an active and social lifestyle
-  Reduce fatigue, recover your mental & physical energy
-  Remove the stigma of using a walker or looking intoxicated when walking
-  Reduce the need for physical therapy and medication



 BalanceBelt

Contact us for a referral to a balance clinic for a diagnostic test and certification, or a BalanceBelt trial if you have already been diagnosed.

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This leaflet is not intended to replace a physician's evaluation of your condition, or a discussion between you and your doctor or physician regarding your condition or treatment options, although it may serve as a starting point for discussion.