

## Cooling Vest Improves Symptoms for MS Patients

- **About 70% of Patients with MS are heat sensitive.**
- **Small increases in body temperature can slow nerve signals significantly**
- **Existing symptoms often get worse with heat and new symptoms can emerge**
- **The Arctic Heat Cooling Vest lowers body temperature allowing nerve signals to function properly.**

**The Problem:** Physical dysfunction in most MS patients is caused by overheating. As the body temperature rises, nerves fail to conduct normal signals from the brain leading to symptoms such as:

Abnormal fatigue, hampered physical performance, hampered coordination and balance, spasticity, hindered cognitive abilities or thinking abilities, blurred vision, slurred speech, loss of bladder and bowel control.

**The Good News:** The Arctic Heat Cooling Vest is a lightweight easy to use garment that brings immediate relief to the symptoms of heat allowing normal activity.

The Vest is made from specific body cooling fabrics, sportwool and micromesh with special crystal sewn into the pockets which when placed in water becomes a gel. This gel has the ability to hold temperature for long periods. The Vest can be used ice cold or cool; it can be used wet, damp, or completely dry: whatever fits the need. Weighing only 2 – 2.2 lbs the Vest is no thicker than a singlet and can be worn as an undergarment or over a shirt.

"This is exciting, because it's a relatively easy treatment that brings immediate benefit," said Author and Neurologist Jacque De Keyser, MD, PHD of the University Hospital in Gronin, Holland.

### **The American Academy of Neurology Study**

A study published in the scientific journal of the American Academy of Neurology found that wearing a cooling vest helped MS patients with muscle strength, fatigue and balance.

For the study, 10 patients whose symptoms respond to temperature changes wore the vest for an hour. After active cooling, balance improved by an average of 20%, muscle strength improved by 10%, and the level of fatigue also improved significantly, according to Dr Keyser. Researchers also tested the blood of patients for white cell production of nitric oxide, a naturally-occurring molecule, before and then three hours after the cooling session. The level of nitric oxide decreased by 41%. Researchers also believe the nitric oxide plays a role in reducing the activity of damaged, or demyelinated, neurons in MS, and thus contributes to the development of symptoms.

**Major benefits of using the cooling vest include:**

Drop in skin temperature, stabilizing core temperature, improvement in perceived comfort level. Available in many sizes – Small – 5XL

**Major features include:**

Non-Toxic, environmentally friendly, relieves pain, improves quality of life, improve working productivity, reusable for many year, can be washed easily or dry cleaned, can be used from frozen to hot, relief from warmth or heat is instantaneous, all products come in blue or plain white.