



## A temperature test designed in Granada enables an early diagnosis of sclerosis

**LOCATION:** Granada

**DURATION:** 1'35''

**SUMMARY:** Researchers of the University of Granada have applied thermography for the first time to the detection of neurological diseases, as multiple sclerosis. Patients affected by this disease suffer temperature alteration caused by the damage caused in the autonomic nervous system; as for example, temperature variations in the forehead. With just a simple test, it is possible to obtain a thermogram and diagnose the disease in an early stage to slow down its development.

### VTR:

This thermographic camera detects temperature variations in different areas of the human body. A simple technique, that according to a group of researchers of the University of Granada, may enable an early detection of neurological diseases as multiple sclerosis.

**EMILIO GÓMEZ**  
Researcher of the  
University of Granada

*"When people start developing the disease they start yawning more often than usual. Yawns are used to regulate the temperature of our brain, to cool it down. In the thermogram of these patients we can see that there is a bad regulation of the temperature in winter and summer."*

The cause is the damage caused by sclerosis to the autonomic nervous system, responsible for the regulation of body temperature.

**ELVIRA SALAZAR**  
Researcher of the  
University of Granada

*"Usually, regarding temperature, the body is symmetric: if there is a temperature in one side of the forehead, you must have the same in the other. However, patients affected by multiple sclerosis, for example, present clear asymmetries in the forehead, and that's one of the most characteristic thermal patterns."*

**EMILIO GÓMEZ**  
Researcher of the  
University of Granada

*"Early detection is fundamental in diseases as sclerosis or Alzheimer, because this permits medical and pharmacological intervention as soon as possible, and this slows down the development of the disease."*

A fast, cheap and non-invasive test for the patient.

**ELVIRA SALAZAR**  
Researcher of the  
University of Granada

*"You take the image in the distance, while in other cases more expensive tests are done to the patient."*

Coeliac people or affected by anorexia may also suffer temperature alterations in their body. And, according to these researchers, the possibilities of thermography are just starting to be discovered.

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