



A new system facilitates the early diagnosis of blindness causing illnesses

LOCATION: Córdoba/Bailén (Jaén)

DURATION: 1'52"

SUMMARY: A Cordovan startup has developed an early detection tool for optical conditions, which is now being piloted by the Andalusian Health System and has been validated by the Andalusian Integral Plan of Diabetes. A test which allows for the detection of anomalies in the retina in a short space of time and with great precision to avoid the advancement of blindness causing illnesses such as diabetic retinopathy, glaucoma or macular degeneration. Lynhce Diagnostics has also adapted the use of this system to the opticians, so that any individual has access to this test. This is one of the young businesses integrated into the Minerva Programme of technological entrepreneurship supported by Vodafone and the Andalusian Council.

VTR:

This is the back of our eyes seen in detail, and these Andalusian engineers have designed software capable of automatically detecting in these images, some of the most common optical illnesses, such as retinopathy derived from diabetes, glaucoma or macular degeneration.

RAFAEL RODRÍGUEZ
CEO Lynhce Diagnostics

"From a diagnostic test named retinography, it's able to interpret and find different anomalies that can indicate the early appearance of different optical illnesses."

DAVID CORONADO
CTO Lynhce Diagnostics

"It's very important because if we're able to detect it early, in its initial stages, it's possible to maintain vision and your quality of life for many more years."

These artificial sight experts have applied their knowledge to develop an algorithm which detects if there are any anomalies compared to the image of a healthy retina, a system which has been approved by the Andalusian Health Service.

RAFAEL RODRÍGUEZ
CEO Lynhce Diagnostics

"Specifically with the Andalusian Integral Plan of Diabetes. The effectiveness of the algorithm has already been tested on 5000 diabetic patients and now they are developing a pilot programme in some health centres."

And now they have gone a step further, taking this tool to the optical sector to put this test within the reach of any individual.

RAFAEL RODRÍGUEZ
CEO Lynhce Diagnostics

"They take images of the retina and send them to our servers through the internet. In these servers they are analysed by our artificial vision algorithms and also by a team of retinologists in partnership with Lynhce who also approve the software report."

PEDRO LERMA
Optician

"The population is living longer, however, more and more there are both macular degenerations and diabetic retinopathy. The more tools we have the better."



It is calculated that throughout their life 10% of the population will suffer from these illnesses. The tool developed by this Cordoban startup, Lynhce Diagnostics, part of the Minerva Project supported by Vodafone and the Andalusian Council, acts as an early detection tool when broadcasting reports within 48 hours, so that the eye specialist can finally determine the most appropriate treatment.

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