



A device reduces up to ten times the number of radiotherapy sessions to heal a tumour

LOCATION: Seville

DURATION: 1'31"

SUMMARY: A radiophysicist of the Virgen del Rocío Hospital in Seville has designed a customisable device able to predict how is going to be the movement of tumours during radiotherapy sessions. This gives an accuracy able to reduce the number of sessions from 30 to just three, rising the healing rate up to a 90%, similar to surgery. This system has been patented by the Andalusian Public Health System and it is been tested in other hospitals in Spain an Latin America.

VTR:

This device is revolutionizing radiotherapy treatments; its personalized functioning has managed to reduce drastically the number of sessions per patient, with a healing rate of a 90 per cent.

SANTIAGO VELÁZQUEZ
Radiophysicist

"The patient goes from 40-35 sessions during a long period to have three short sessions."

FERNANDO FLORES
Patient

"There is a huge difference."

That's what Fernando says. He has just recovered from lung cancer that was detected in an initial stage. He couldn't be operated because he already had surgery in the other lung due to the same cause. This treatment is aimed at this type of patients.

ELENA MONTERO
Oncologist

"Because the patient isn't going to be able to enter an operating room, or won't be able to tolerate the amount of lung that is going to be removed to have a normal life; and also in patients with metastasis."

FERNANDO FLORES
Patient

"I was at the ICU for eight days when I had surgery in my left lung and here, in three days, we could say that I am almost cured."

It is a device designed by this radiophysicist of the Virgen del Rocío Hospital in Seville and patented by the Andalusian Public Health System. In a personalized way, it manages to predict hoy the tumour is going to move during radiotherapy sessions; movements caused, for example, by breathing.

SANTIAGO VELÁZQUEZ
Radiophysicist

"Making it predictable we can adapt the whole machine, linear accelerators as you see here, and other types of radiological techniques giving them enough precision to become as aggressive as we are."

FERNANDO FLORES
Patient

"This has been a miracle."

But fortunately it isn't a miracle, it is science's precision.

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