

New software measures brain waves to improve the effectiveness of early treatment in children

LOCATION: Huelva

DURATION: 1'37"

SUMMARY: Innovation is the result of the work by Andrés Mejías, an engineer from Huelva, who has counted on the collaboration of the ASPROMÍN association. A helmet is placed over the children's heads during therapy so it can record their brain waves. Then, software designed by Mejías registers and measures the attention and relaxation levels of the kid. This allows therapists to know the efficiency of their work in real time and adapt it to the requirements of each user.

VTR:

Today, Marta has an appointment with her speech therapist. And this device is measuring the efficiency of their work through the monitoring of her brain waves.

ANDRÉS MEJÍAS
Engineer

"The development of this technology has allowed us to put electronic circuits inside the helmet that measure brain waves with precision levels similar to those used in research."

Physiotherapy. Speech Therapy. Early treatment is crucial for the future of children like these, with any kind of mental disability. This engineer from the University of Huelva has designed software that improves its effectiveness. Connected to the helmet, it uses brain waves to measure attention and relaxation levels in children. This information is valuable for the therapist because it is a tool that allows them to...

ANDRÉS MEJÍAS
Engineer

"Determine which exercises are the most suitable and profitable for the kid."

JUANFRAN MANCERA
Physiotherapist

"Before, we needed several treatment sessions to determine if the activity was suitable for the kid."

ANABEL MORENO
Speech therapist

"The helmet objectively shows the attention levels of the kid in that moment, offering the possibility to increase that attention, so I change the activity and test it."

Andrés Mejías has designed this tool, still in experimental phase, with the collaboration of ASPROMÍN, an association based in Huelva. Their goal is to make it accessible for schools and families.

JOSÉ MANUEL MORENO
Manager of ASPROMÍN

"We would like this to motivate research in other similar projects, or even more interesting."

Research to bring light to the future of children with difficulties.

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