

Young engineers apply technology used in Formula 1 to develop personally designed prosthetics

LOCATION: Granada

VTR DURATION: 1'47"

SUMMARY: Two young engineers, one of them an intern at the Formula 1 pilot Fernando Alonso's team, have begun to apply the advanced technology used in this competition to develop personally designed prosthetics. They're the driving force behind BRECA Health Care, a company from Almeria which has introduced biomechanics in medicine. With these techniques they can recreate prototypes of any part of the body so that the surgeon can physically study it in order to give a much more personalized treatment. This system would reduce the time of surgical interventions as well as later on throughout recovery.

TEXT VTR:

What does Formula 1 have in common...with this apparently simple neck prosthetic?

JOSÉ MANUEL BAENA

BRECA Health Care

"They're areas which require very specific products that are extremely technological. "

PEDRO RAYA

BRECA Health Care

"The topic of using prototypes"

These young engineers have the answer, one of them an old intern of the Formula 1 pilot Fernando Alonso's team, and have decided to join knowledge and talent to apply advanced Formula 1 engineering to medicine, particularly towards prosthetics.

They use the same precise computer programs, like this one, which reproduces any part of the body in 3D making exact duplicates.

PEDRO RAYA

BRECA Health Care

"For example if someone is getting a hip operation, the doctor can have a plastic replica made beforehand and plan ahead the intervention how to adapt the implants and prosthetics specifically to the patient before actual surgery starts. So when the doctors have to complete different types of operations they can physically have real information beforehand."

So they're adapting medicine to the patient and not the patient to medicine. This young company from Almeria, BRECA Health Care, designs personalized prosthetics which are unique to each patient.

JOSÉ MANUEL BAENA

BRECA Health Care

"The patient instead of receiving a standard mass produced prosthetic, gets one that's specifically designed."



This change in mentality and technique reduces the time spent in surgery, minimizes errors and speeds up the recovery of the patient. Advanced engineering adapted to the most perfect machine: the human body.

For more information or support please call +34 647 310 157 or email info@andalusianstories.com