

Magnetic resonance instead of artificial joints

Artificial joints may return quality of life to those affected by joint diseases. But to preserve the natural joint and prevent surgery is the better option. Using patented MBST magnetic resonance technology, the therapy devices manufactured by MedTec Medizintechnik GmbH in Wetzlar can ease pain, stop degenerative processes and stimulate regeneration. For more than 20 years, they have been applied successfully in the treatment of various conditions.

It is due to his curiosity and openness for new topics, that Axel Muntermann, managing director, owner and founder of the company MedTec Medizintechnik in Wetzlar, discovered the potential of the therapeutic use of magnetic resonance. "With magnetic resonance imaging, some distinctive effects were noticed but they were rated as placebo, for example when patients afterwards showed improve-

ment in walking", he says. His entrepreneurial spirit, which he had already demonstrated in the development of products for cardiology, was roused. He started a cooperation with magnetic resonance experts of the Max-Planck-Institute. In 2000, after 5 years of development, the first device was brought to completion and the first two studies were started. "We build a plain device that could generate magnetic

resonance and cut out everything that is needed to create images. Our idea was: 20% of the population suffer from complaints of the joints. These degenerative processes reduce the cartilage until the bony surfaces grind on one another which ultimately results in artificial joints. Doctors are mainly able to turn off the pain

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EMPLOYEES

but cannot remove the cause." But this is exactly the aim of MBST magnetic resonance therapy. The first devices were then tested in medical practices and the results were convincing.

Cell division thrice as fast

The development picked up pace with another idea, tells Axel Muntermann: "We implemented a software and a chipcard in the basic magnetic

Interview mit



Axel Muntermann,
Managing director
and owner of
MedTec Medizintechnik GmbH

resonance device. The chip allows the doctor to determine the targeted tissue. In the treatment of osteoarthritis, a card with therapy sequences specified for cartilage is used. For osteoporosis, the sequences are specified for bone tissue." 98% of the treatments with the new therapy were successful. The devices were rented out, the revenue reinvented: in in-vitro and clinical studies, for example regarding hip or disc complaints. "In in-vitro experiments with cells, we were able to proof that our devices can stimulate cell division, it is three times as fast as usual. In this way, we can stop the disease, trigger regenerative processes and



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preserve the natural joint. The pain often already vanishes during the course of the therapy." Axel Muntermann points out further positive effects: "The immune system is encouraged. And the therapy can prevent the docking of viruses. Research into the question if this may be an interesting approach in the case of corona virus is currently under way."

IN USE IN

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MEDICAL
PRACTICES

Patented global technology

The list of indications that may be treated with MBST magnetic resonance technology is long: from osteoarthritis, disc problems and osteoporosis to damages of ligaments, muscles and tendons, acute and chronic pain symptoms and wound healing disorders. The active principle is based on the transfer of energy into the body and

directly into the damaged tissue. "A cell is a living element with its own metabolism. With our software, we can control which kind of cells – skin, bone, organ or cartilage – is targeted. The procedure is absolutely harmless. The technology is protected by patents and can



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"Our devices can stimulate cell division. It is three times as fast as usual."

Axel Muntermann,
Managing director and owner

be used around the globe", Axel Muntermann emphasizes. Development and final assembly of the devices is carried out by MedTec, manufacturing of the parts by subcontractors. The devices are rented out to medical practices. The chip card, which defines the performance, also serves as a quality index for the therapy. MedTec's market is one of extreme pricing pressure, Axel Muntermann notes. "The physician has to generate the revenues that

he does not get from health insurance with our technology. It is a so-called IGeL service, an individual health service."

MBST magnetic resonance technology around the globe

"Our technology is worldwide unique", Axel Muntermann

publications of a high standard. "Science notices what we are doing," says Axel Muntermann. In numerous countries around the world, patients have the opportunity to be treated with MBST magnetic resonance technology. "For each country, we need an individual approval," he says.

Available for dentists soon

In the next year, Muntermann plans another milestone in the company's history: "We want to enter the dental field. Problems with implant healing are frequent, the implants do not engraft well. With our devices, we can support engraftment, treat arthrosis of the jaw and help nerves to grow back together." Furthermore, the indication fields shall be expanded. Axel Muntermann is now 69 years old and has great visions for his company: "We want to be present in all countries worldwide and heighten our brand awareness in the market." One thing will definitely change: "We are now open to investors."