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“Resorbable Magnesium Implants: A Solution for Reduced Hospitalization Time”

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Use of resorbable implants reduces hospitalization time

In times of nursing shortages and a lack of beds in hospitals, the situation is tense. In theory, more nurses and at the same time fewer patients are necessary – all of which is not easy to implement. However, the healing time and the associated inpatient stay of the patient can be significantly reduced thanks to advanced treatment methods, which contributes to relaxation in patient care and nursing. A solution? Resorbable magnesium implants.

But how can implants relieve the burden on caregivers, when they usually involve a rather long healing period? Resorbable implants – in contrast to those made of titanium, for example – only replace bone parts until the gap has been closed and the bone has healed completely, because they slowly dissolve in the body. Stressful removal of the implant through a second operation including an inpatient stay are therefore no longer necessary and the associated complications for the patient are also avoided. In addition, around 15 percent of the population have an immunological reaction to titanium implants, which is no longer a problem with resorbable implants made from the body's own substance magnesium. This treatment method brings relief not only to the patient but also to the carers.

“Resorbable implants are not new, but until now they have mainly been made of polymers. But thanks to its properties and strength, magnesium is much better suited – whether as screws or pins for the fixation of bone or tissue or even as a stent in cardiology,” explains Dr. Frank Feyerabend, Consultant Medical Devices at invenio Healthcare Solutions GmbH. Studies now show a complete, very high cure rate.

invenio Healthcare Solutions supports manufacturers of magnesium implants

In order to be able to benefit from the advantages of resorbable implants in all areas of medicine, invenio Healthcare Solutions is heavily involved in the research and development of innovative implants – above all the invenio expert, patent holder and publicist Dr. Frank Feyerabend.

Relief for the nursing staff thanks to resorbable magnesium implants.

Starting with the selection of the material, the manufacturing process raises the question of which forces in the body act on the implant and how the alloying elements influence the behavior of the magnesium. The design of the first prototypes

must also be well thought out, because an implant made of magnesium often has a different shape than implants made of titanium, even though they are inserted in the same place in the body. Here, invenio always ensures that the implant can be used by the doctors without numerous further training courses. In a subsequent extensive testing, in which both tensile tests for the mechanical properties of the implant and its biological compatibility are examined in laboratory tests, invenio is a reliable partner for manufacturers thanks to its own test laboratory and workshops.

In the process leading up to approval, it is proven that the resorbable implant behaves as it should and that it will survive on the market in order to help as many patients as possible to heal and – almost incidentally – to reduce the area of care by having one operation less per patient in and good recovery properties relieved.

Especially today, on the day of the nurses, our heartfelt thanks go to all nurses who we try to support with new technologies.

Learn more about resorbable magnesium implants here:

<https://www.invenio.net/de/medizintechnik/resorbbare-implantate-aus-magnesium/>

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