

Kick-off for the INTAKT research project **Interactive implants as pulse generators for improved therapy**

inomed as well as 17 partners from industry, science and hospitals are starting an unique basic research project on the therapeutic use of interactive micro-implants called the INTAKT innovation cluster. The focus of this research project is on the application areas of tinnitus treatment, the restoration of the grasping function and the treatment of gastrointestinal motility disorders.

The 5-year project is being initiated and funded by the German Federal Ministry of Education and Research (BMBF).

The goal of the INTAKT research project is to develop a completely new generation of actively cross-linked micro-implants. They are intended to deliver future-oriented approaches for improved interaction between humans and technology. The implants are interconnected with each other and communicate with the physician or patient using an external interface. This direct line of communication will allow physicians to have secure access to all relevant information. In the future implants will be enabled to optimally adapt the treatment to the patients' need by external control of the parameters and stimulation modes.

Reduce secondary damage from brain tumours, paralysis or strokes

Motor impairments and paralysis are often the late effects of strokes or brain tumours. With the help of an implant and the controllable assistance system, the nerves or muscles that are still intact, can be activated again by electrical stimulation. Even if muscles can no longer be controlled directly by the patients' brain, the central motor deficits are partially compensated. This method could offer affected patients a better quality of life in the future. And when used in additional areas such as pain therapy, further impact could be generated.

Digital medical devices are highly relevant for the general public

The topic and importance of the research project being started - the use of digital technologies for medical treatments - has been affirmed by the general public: 84 per cent of German citizens believe research on digital medical devices to be important or very important. Even 90 per cent would consider using a digital implant for a serious illness. These were the findings of a survey conducted by the 'forsa' market and opinion research institute, which was commissioned by the Federal Ministry of Education and Research (BMBF).

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*Further information: www.inomed.de
PR characters with white spaces: 2.438*

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inomed develops, manufactures and markets medical devices for use within the fields of intraoperative neuromonitoring, functional neurosurgery and pain management. inomed systems have been helping to improve treatments and to increase patient safety for 25 years. 165 members of staff are currently employed at inomed's Emmendingen location.

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