

## **University Hospitals Leuven & KU Leuven - BioXtreme Joint Clinical Trial** **Research Project**

University Hospitals Leuven, KU Leuven and BioXtreme are proud to announce that they have agreed to conduct a joint clinical trial research project in the university's facility in Leuven, Belgium.

BioXtreme has developed a ground-breaking robotic device for motor-learning, based on innovative error enhancement technology for upper limb rehabilitation from stroke and other neurological injuries. Leuven hosts one of the biggest rehabilitation departments in Belgium with a cutting-edge R&D department.

The research project will focus on the effect of BioXtreme's Error Enhancement technology in long-term stroke patients, in the chronic post-stroke phase. The research will focus on the clinical and kinematic effects of treatment using the company's robotic device, deXtreme™, in the university's facilities.

The research will be supervised by Prof. Geert Verheyden and Prof. Robin Lemmens. All research procedures will be performed according to the instructions of the Belgium Ministry of Health regarding clinical trials and following Helsinki's ethical protocol. The Research is planned to include 20 stroke patients in total. Expected start date is October 2021, estimated completion of the research by July 2022.

### **About University Hospitals Leuven:**

As Belgium's largest university hospital, University Hospitals Leuven wants to push boundaries by combining specialised care and innovative treatment with humane attention and respect for every patient. Every day, almost 10.000 passionate employees provide the best customised care possible. At University Hospitals Leuven, future care providers and employees are guaranteed high-quality training, with a view to life-long learning and innovation. As a pioneer in clinical research, the hospital also contributes to future patient care.

<https://www.uzleuven.be/en>.

### **About KU Leuven:**

KU Leuven is Europe's most innovative university (Reuters) and ranks 45th in the Times Higher Education World University Rankings. As Belgium's largest university, KU Leuven welcomes 60,000 students from over 140 countries. Its 7,000 researchers are active in a comprehensive range of disciplines. KU Leuven is a founding member of the League of European Research Universities (LERU) and has a strong European and international orientation. University Hospitals Leuven, its network of research hospitals, provides high-quality healthcare and develops new therapeutic and diagnostic insights with an emphasis on translational research.

<https://www.kuleuven.be/english/>

## About BioXtreme:

BioXtreme Rehabilitation Robotics is instilling new dexterity for stroke and other neuro-injuries patients. Using a patent-protected groundbreaking Error Enhancement technology, BioXtreme has developed a robotic system that preforms upper limb motor rehabilitation. Our product, deXtreme™ preforms automatic rebuild of motion range and capability through adaptive/intuitive learning. Based on unique robotic system that applies Error Enforcement forces, BioXtreme technology helps reprogramming the mind for extreme performance.

<https://www.bio-xtreme.com>

