3.4.12 Neuro-Cure*

Publications: 3 | **Q1:** 0

COMPOSITION

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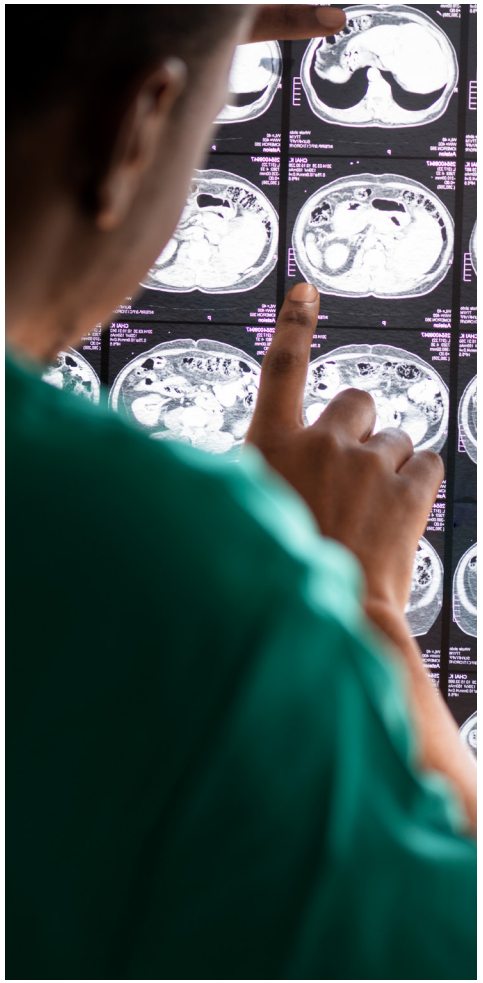
STRATEGIC OBJETIVES

- To investigate issues related to the care and rehabilitation of neurological patients.
- Different lines of work will be generated seeking to encompass an interdisciplinary approach that includes technological advances as well as human and holistic strategies to improve the quality of life of neurological patients.

RESEARCH LINES

- Innovation in neurofunctional rehabilitation techniques: Design, implementation and evaluation of advanced therapies based on neuroplasticity; use of technology such as robotics, exoskeletons and virtual reality to enhance rehabilitation; development of personalized protocols for the recovery of motor and cognitive functions
- Comprehensive care for neurological patients: research on patient- and family-centered care models; study of the psychosocial impact of neurological care on patients and caregivers; development of tools to improve the quality of life of patients with neurodegenerative diseases
- Evaluation of assisted technologies and telemedicine: validation of assisted devices for home rehabilitation; implementation and evaluation of tele-rehabilitation and remote monitoring programs; study of the results of artificial intelligence in the prediction of clinical outcomes
- Palliative care in advanced neurological diseases: research on pain and non-motor symptom management strategies; design of interdisciplinary protocols for end-of-life care; analysis of the emotional and psychological impact on patients and their families
- Prevention and management of associated complications: study of strategies to prevent complications such as pressure ulcers, infections and thrombosis in neurological patients; development of programs for early detection of functional deterioration
- Personalized nutrition. design of individualized nutritional plans based on metabolic status and specific needs; study of the impact of specific supplementation on the recovery of cognitive and motor functions. research on dietary strategies to prevent dysphagia-related complications in patients with neurological damage; development of adapted food textures and formulas to optimize intake in patients with dysphagia; evaluation of diets in neurological recovery processes; study of the role of the intestinal microbiota in neurological function and its modulation through nutrition



*Group recently created, december 2024