



Regenerative Stem Cell Therapy for Stroke

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Cerebrovascular diseases are one of the most prevalent health care problems worldwide. RESSTORE is working on method to improve stroke recovery and patients quality of life.

Stroke is the second leading cause of death in the world population. When not fatal, stroke often results in disability, due to motor and cognitive impairments, and secondary health problems affecting not only patients but also their families. Building on emerging preclinical and pilot clinical evidences, RESSTORE will focus on the clinical assessment of regenerative cell therapy to improve stroke recovery. RESSTORE European multicentre randomised phase IIb will explore, for the first time, the efficacy (functional recovery) and safety of intravenous infusion of allogenic adipose tissue derived mesenchymal stem cells (ADMSCs) in 400 stroke patients. Therapeutic effects of ADMSCs will be assessed and monitored in patients using clinical rating scales, multimodal MRI and novel blood biomarkers. Additionally, the societal value and cost-effectiveness of ADMSCs-based regenerative therapy will be evaluated through health economics and predictive in silico simulations. Complementary ancillary animal studies will support the clinical trial by defining i) if the treatment response can be further enhanced by intensive rehabilitation, ii) the contribution of co-morbidities and iii) the mechanism(s) underlying the therapeutic effect.

Total Budget

6.34 M€

Hospices Civils de Lyon
Budget

70 000 €

The European regenerative therapy capacities (France, Spain, Finland, United Kingdom and Czech Republic), developed in RESSTORE will cover the full value chain in the field (large scale GMP cell production, clinical testing, biomarkers discovery, understanding of the restoring mechanisms, modelling, biobanking, economic studies, exploitation and communication plan). RESSTORE will thus surely contribute, together with the workforce trained in the context of the programme, to improve its public and private (SME) competitiveness and increase the attractiveness of Europe as a reference location to develop and clinically assess new innovative therapeutic options for brain diseases.

More information on: <http://www.resstore.eu/>



Timeline of the project

