

## About ICTUSnet

ICTUSnet is a project that wants to improve the health care and quality of life of people having a stroke. ICTUSnet has the mission to create a network of collaboration between different regions of southern Europe formed by patients and professionals from different areas related to stroke, covering an area of 20 million inhabitants. At the same time, ICTUSnet aims to create research infrastructures that incorporate innovative data analysis technologies to improve stroke care systems and subsequently reduce the impact of the disease on the population.

To obtain this, the partners have structured the tasks to be performed in 8 work packages:

- WP1: REGIONAL REGISTRIES AND INTEGRATED PLATFORM
- WP2: ARTIFICIAL INTELIGENCE TOOLS (TEXT & IMAGING)
- WP3: ANALYSIS & BENCHMARKING OF STROKE HEALTHCARE PATHWAYS
- WP4: KNOWLEDGE TRANSFER TO HEALTH POLICIES
- WP5: KNOWLEDGE EXCHANGE, COLLABORATION & MUTUAL LEARNING
- WP T1: PROJECT MANAGEMENT
- WP T2: COMMUNICATION
- WP T3: EVALUATION

ICTUSnet is planned for 3 years (April 2018 - March 2021)

## What will be done in WP3: Analysis and Benchmarking of Stroke Healthcare Pathways

### Objectives

WP3 aims at analyzing and benchmark the regional plans on stroke. WP3 will be first defining a common evaluation framework to assess care interventions on health promotion, primary prevention, acute care and rehabilitation contributing to a more comprehensive and multi-sectoral approach. In accordance to the evaluation framework, WP3 will be then exploring and analyzing: 1) regional strategies in health promotion and primary prevention meant to reduce the burden of stroke; 2) discovering the differences in the organization of acute care across the IctusNet regions; and 3) mapping out the follow-up and rehabilitation resources and strategies currently in place; and 4) benchmarking with the better practices.

## Tasks

- 1) Building on different international consensus and the WHO Global Action Plan for the prevention and control of non-communicable diseases, the development of an evaluation framework will provide with meaningful evaluative dimensions, indicators and targets with which assess regional strategies on stroke.
- 2) Upon that framework, health promotion campaigns´ and primary prevention strategies will be mapped out and analyzed.
- 3) Likewise, acute care of stroke will be analyzed; in this particular case, the care provided to ischemic stroke patients will be empirically analyzed using **process mining** techniques on existing real world data lakes.
- 4) Consequently, follow-up and rehabilitation care models will be mapped out with a view to compare differences and similarities in care services supply.
- 5) Lastly, a benchmarking approach will take place as to identify those best practices in health promotion and primary prevention, acute care of ischemic stroke and follow-up and rehabilitation.

## Deliverables

- 3.1.1 - Evaluation framework, with indicators and targets for the evaluation of regional strategies on stroke
- 3.2.1 - Report on health promotion campaigns and primary prevention strategies implemented in IctusNet regions
- 3.3.2 - Report comparing the provision of Code Stroke across IctusNet regions
- 3.4.1 - Report on follow-up and rehabilitation models and services supply across IctusNet regions
- 3.4.2 - Repertoire of best practices, including guidance notes for identification.

## Products

The main products for this WP are the analysis and comparisons of the different regional stroke care models, along all stages of the continuum of care (prevention, acute care and rehabilitation). An evaluation framework will be defined and process mining techniques will be applied to identify best practices, using different data sources from the regions.

