



Identificación del proyecto

CONCEPT-STROKE: Effectiveness and efficiency of acute ischemic stroke care pathways in five Spanish regions (EXPT. PI19/00154)

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Descripción del proyecto

CONCEPT-STROKE is part of CONCEPT, a coordinated research initiative including five projects under the umbrella of REDISSEC, the Spanish Research Network on Health Services Research and Chronic Conditions (www.redissec.com). CONCEPT projects seek to analyse the effectiveness and efficiency of the care provided to patients with diabetes, atrial fibrillation, breast cancer and ischaemic stroke in eight Spanish healthcare systems. Aims: In Stroke care, we aim to show the relevance of care pathways on the health outcomes and efficiency of Stroke care. Methods: Observational and retrospective, CONCEPT-STROKE builds on a two-stage design: a cross-sectional data mining design followed by a quasi-experimental design comparing interventions on acute ischaemic stroke. Main endpoints: In the first stage, the pathway of care as such, as it happens in real life and the propensity for a patient to follow a specific path; in the second stage, patients' survival at 30 days and 6 months after the admission to an emergency room. Analyses: Using real world data from the health care services of Aragon, Basque Country, Catalonia, Navarre and Valencia: a) process mining techniques will allow to discover and compare actual care paths with the theoretical pathway and with those present in the five regions; b) survival analysis will provide the prediction of health outcomes within each path; c) single and hierarchical generalized additive modelling will yield the comparative effectiveness of the interventions within the paths; and, d) an economic evaluation will result in a measure of economic impact and efficiency. CONCEPT-STROKE, as coordinating project, will yield and provide the self-contained analytical pipeline for the rest of CONCEPT projects.

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