

# Remote communication, examination and training in stroke, Parkinson's and COPD care: work in progress testing 3D camera and movement recognition technologies together with new patient centered ICT services

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## ABSTRACT

This paper describes strategy and work in progress. The combination of patient centered care where many care and nursing units are collaborating with focus on, and in concordance with the patient, the ability to project information focused on the patient total situation and needs independent where the information was created, the ability to use sensor technology to collect a wide range of aspects of the individuals health situation, the ability to use sensor technology to assess movements both for assessment and intervention purposes, to keep the care and nursing process together through module based information services and a structured care plan containing goals, sub goals, defined activity types and a wide range of health status data involve great opportunities for patients having chronic diseases. This group of patients causes extensive resource consumption for society. Well-structured data and semantic definition of data is a key for the ability to communication between different types of multi-professionals actors with different background. New technology like a wide range of sensor types allows the possibly to catch large amounts of data both for assessment and intervention purposes in a continuous way over time. One example is how each planned patient activity has been performed and resulting health status aspects. This research group has worked on these issues for several years and some important milestones have been reached. From a chronic point of view three groups of patients are focused: stroke patients, COPD patients and patients with Parkinson's disease. Collaboration approaches, communication technology and adapted information services allow new ways to perform home based care. Integrated monitoring services of planned activities like motion activities using 3D sensors allows professionals and patient to in an exact way follow planned and executed motion activities which is of great importance to many patient needs.

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**Full papers will be published in the Conference Proceedings and will be freely available to delegates at the conference and online on September 20, 2016.**