



Worldwide, Chronic Obstructive Pulmonary Disease (COPD) affects 329 million people, nearly 5% of the population. In 2011 it ranked as the fourth-leading cause of death, killing over 3 million people. The number of patients affected by COPD is expected to increase for the ageing of the population in the first world countries.

To improve life-expectation and the health status of people affected by COPD and its correlated comorbidities, as CHF (Chronic Heart Failure) and SDB (Sleep Disordered Breathing) the CHROMED (Clinical trials for elderly patients with multiple diseases) project has been designed and realized with the approval and the support of the European Community. The aim of the CHROMED is to test on a large number of patients a platform able support elderly people with a combination of chronic diseases involving respiratory and cardiovascular systems, reducing their exacerbations and improving their life conditions. For over 9 months, an international multi-centric randomized control trial is being conducted on 300 patients in five European countries: United Kingdom, Sweden, Estonia, Spain and Slovenia, representing different social and organizational contexts in Europe. The challenge is to integrate the platform and its management in the participating care organizations which have existing practices and procedures for age-related disease management.



In CHROMED a specific ICT platform in combination with a set of both well established and innovative devices are used to collect and process useful clinical data at the patient's home. In particular, for each patient a set of devices is defined considering the existing co-morbidities. The platform consists of:

- A Home Patient Monitor used to complete daily validated questionnaires,
- A FOT device, able to measure lung mechanics parameters, completely auto assessed (RESMON PRO DIARY)
- The WristClinic, a wearable device that measures Saturimetry, Blood Pressure, Heart Rate, Breath Rate, ECG, and Temperature

Current situation

The testing phase have been started on October 2013. Up to now, the first 150 patients have been enrolled and started their monitoring period. 146 patients are still active. According with their comorbidities they are distributed as follows: COPD: 103, COPD+CHF: 30, COPD+HF: 3, COPD+SRDB: 12, COPD+CHF+SRDB: 2. The patients are divided in Interventional and Observational Arms, and they have been monitored for 130 days up to now.

Chromed partners

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