Personalized Connected Care for Complex Chronic Patients

Eloisa Vargiu & The CONNECARE Consortium
Aim & Objectives
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- More sustainable and optimized use of healthcare resources
- Engaging patients with a 360° approach
- Self-management for patient empowering
- Collaborative and adaptive support to professional staff
- Support for decision making
Aim & Objectives

The chronic complex patient

- Frail (due to social, economic and/or clinical factors)
- Usually elderly
- With multi-morbidities
- Who requires provision of care by several health professionals pertaining to different medical disciplines and working in different healthcare tiers
A 3D Paradigmatic Shift
A 3D Paradigm Shift

Organizational Shift

- Making health and social care systems interoperable
- Promoting collaboration among care settings
- Moving from institutional reactive care to a home-based preventive model
A 3D Paradigm Shift

Care and Social Services Shift

- Health risk prediction
  - operational population-based tools
  - a patient-based five-dimension scoring strategy

Case Identification

Case Evaluation

Personalized Work-Plan Definition

Work-Plan Execution

Follow-Up & Event Handling

Discharge

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A 3D Paradigm Shift

- Technological Shift

- A CONNECARE system which leverages existing assets from partners, fully integrated with management systems in place

- Smart Adaptive Case Management
- Self-management
- 3-level monitoring features
The Approach
The Approach

The Basic Concept

CONNECARE is based on the concept of 4P medicine:
- Predictive
- Personalized
- Preventive
- Participatory

CONNECARE will provide:
- Decision support for the adaptive management of personalized clinical pathways
- Tools to monitor patients’ activities and status
- Recommendations to self-manage patients’ condition
The Approach

Iterative Co-Design

ACT
- Plan the next cycle
- Decide whether the change can be implemented

PLAN
- Define the objective, questions and predictions. Plan to answer the questions (who? what? where? when?)
- Plan data collection to answer the questions

STUDY
- Complete the analysis of the data
- Compare data to predictions
- Summarise what was learned

DO
- Carry out the plan
- Collect the data
- Begin analysis of the data
The Approach

Clinical Studies

Three case studies

- Community-based prevention of unplanned hospital-related events in chronic complex patients with high risk for hospitalization
- Preventive patient-centered intervention in complex chronic patients undergoing elective major surgical procedures
- Pre-habilitation intervention in high risk candidates for major surgery
Conclusion
Some 70% of hospital beds in Europe are occupied by people with chronic long term conditions.

The project aims to reduce costs and improve patient outcomes by improving the integration of long term care for those chronically sick with more than one long term condition.

The CONNECARE consortium will co-design with patients, develop, implement, and evaluate a novel smart-adaptive integrated care system.
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