AIMN - Associazione Italiana di Medicina Nucleare ed Imaging Molecolare

PICASO: A Personalised Integrated Care Approach for Service Organisations and Care Models for Patients with Multi-Morbidity and Chronic Conditions

Agostino Chiaravalloti[1,2], Christian Heinrich Schunck[3] , Trine Fuglkjær Sørensen [4],Jesper Thestrup [4], Peter Rosengren[5],Clelia Pellicano[6] , Maurizio Talamo[3], Orazio Schillaci[1,2]

[1] Dipartimento di Biomedicina e Prevenzione, Università degli Studi di Roma, Tor Vergata, Italy

[2] IRCCS Neuromed, Pozzilli, Italy

[3] Fondazione Inuit, Rome, Italy

4 In-JET, Denmark

5 C-NET, Sweden

6 IRCCS Santa Lucia, Rome, Italy

7NL77

Acknowledgment of funding

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 689209

Disclaimer

The content reflects only the author's view. The Commission is not responsible for any use that may be made of the information that it contains.

Current clinical situation

- **Difficulties in the management of patients with chronic conditio**

a) Co-morbidit

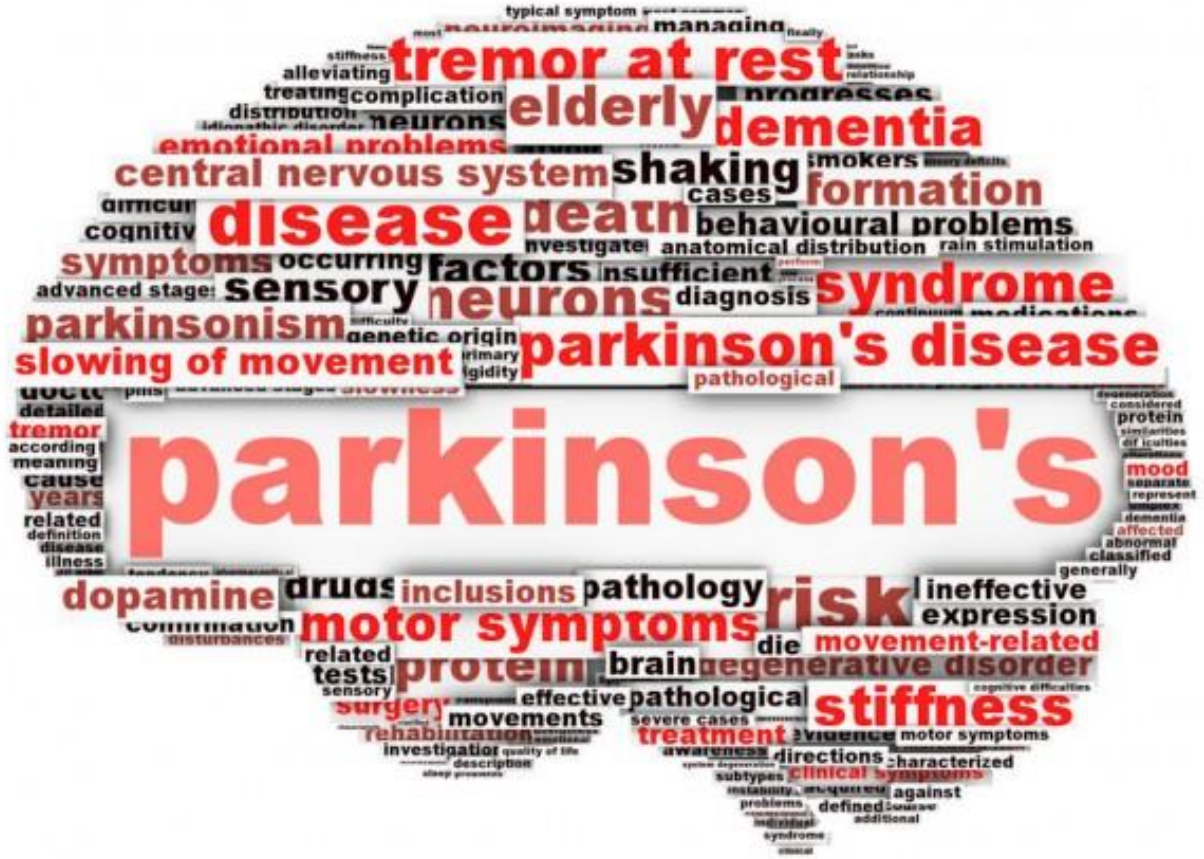
b) Multiple dis

c) Medical exa

d) Data collect and may be over time;

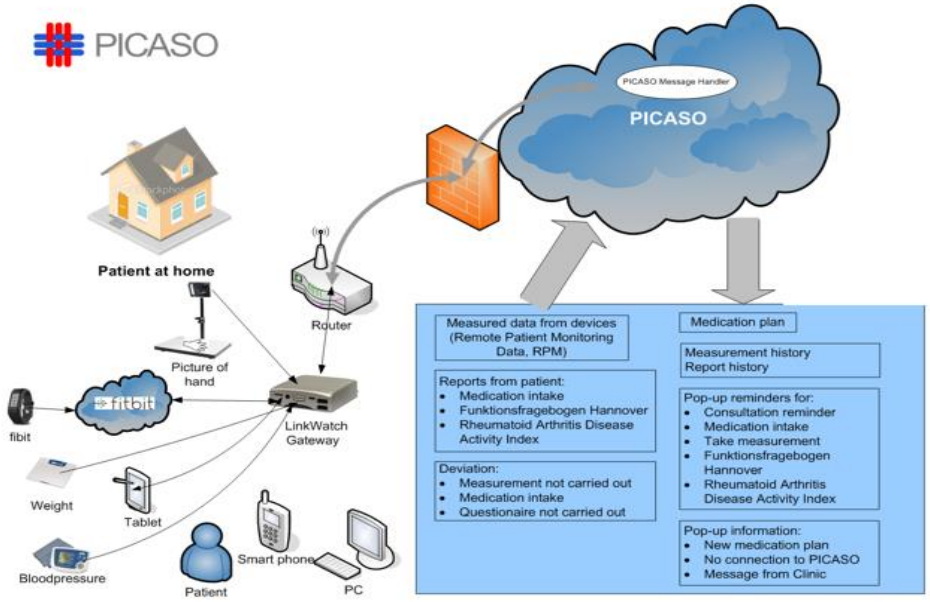
e) Data are usu format;

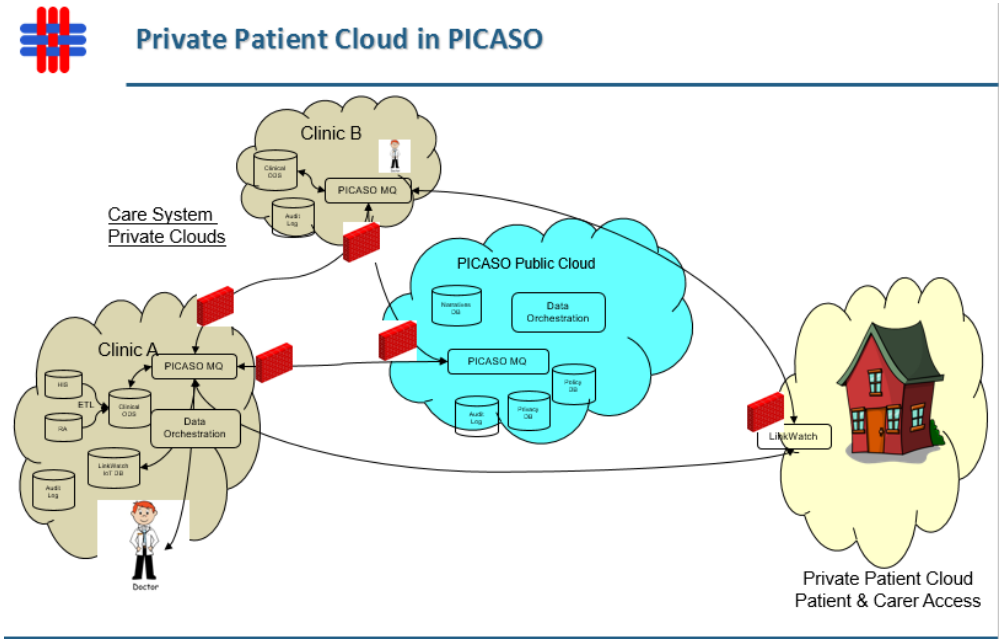
f) During the c quired to co different ca d and clearl in the corre



Aims

- Demonstrate and document how PICASO can be successfully deployed by in two different hospital settings including Neurology, Psychiatry and Radiology Departments. This will be demonstrated on cronically ill patients affected by Parkinson's disease. This has never previously been attempted in Italy;
- Provide evidence for an impact on hospital admissions, clinical events and symptoms and improvements in functional measures and patients' and carers' experiences with care;
- Evaluate impact on clinical work force availability and deployment;
- Evaluate impact of human factors (acceptability, usability by patients, carers, nurses, pysicians and administrators);
- Develop a new evidence based data analytical technique for the risk stratification of patients;


PICASO
PICASO Message Handler
PICASO
Patient at home
Router
Picture of hand
fitbit
LinkWatch Gateway
Weight
Tablet
Bloodpressure
Patient
Smart phone
PC
Measured data from devices (Remote Patient Monitoring Data, RPM)
Reports from patient:
Medication intake
Funktionsfragebogen Hannover
Rheumatoid Arthritis Disease Activity Index
Deviation:
Measurement not carried out
Medication intake
Questionaire not carried out
Medication plan
Measurement history
Report history
Pop-up reminders for:
Consultation reminder
Medication intake
Take measurement
Funktionsfragebogen Hannover
Rheumatoid Arthritis Disease Activity Index
Pop-up information:
New medication plan
No connection to PICASO
Message from Clinic


Private Patient Cloud in PICASO
Clinic B
PICASO MQ
Care System
Private Clouds
PICASO Public Cloud
Data Orchestration
PICASO MQ
Clinic A
PICASO MQ
ETL
Data Orchestration
LinkWatch
Doctor
Private Patient Cloud
Patient & Carer Access

30-50 subjects

PICASO

10 subjects:

home monitoring, sharing of informations among caregivers

20-40 subjects:

current clinical practice

Project month	Corresponding dates	Trial	
M07	September2016	Recruitment start	Pre - Trial
M08	October 2016	Establish baseline w/o PICASO	Pre - Trial
M09	November 2016		Pre - Trial
M10	December 2016		Pre - Trial
M11	January 2016		Pre - Trial
M12	February 2017		Pre - Trial
M13	March 2017		Trial ongoing
M14	April 2017	Recruitment end	Trial ongoing
M15	May 2017	Introduction of experimental arm (10 patients) to PICASO including home monitoring	Trial ongoing
M16	June 2017		Trial ongoing
M17	July 2017		Trial ongoing
M18	August 2017		Trial ongoing
M19	September 2017		Trial ongoing
M20	October 2017		Trial ongoing
M21	November 2017		Trial ongoing
M22	December 2017		Trial ongoing
M23	January 2018	Evaluation of intermediate results	Trial ongoing
M24	February 2018		Trial ongoing
M25	March 2018		Trial ongoing

Project month	Corresponding dates	Trial	
M26	April 2018	Updated PICASO platform available for patients in experimental arm	Trial ongoing
M27	May 2018		Trial ongoing
M28	June 2018		Trial ongoing
M29	July 2018		Trial ongoing
M30	August 2018	Data analysis	Trial ends
M31	September 2018		
M32	October 2018		
M33	November 2018		
M34	December 2018		