niCE-life Newsflash Nr. 5

AP NURSE in Warsaw (O.T2.2)

A simple and modular monitoring tool designed for patients suffering from Alzheimer's and Parkinson's disease for home and medical application

niCE-life
Development of an integrated concept for the deployment of innovative technologies and services allowing independent living of frail elderly

Interreg CENTRAL EUROPE niCE-life
European Union
European Regional
Development Fund

Project partners

- Petržalka Municipal District of Bratislava - the Capital of Slovakia (Lead partner)
- Brno University of Technology, CZ
- The University Hospital Olomouc, CZ
- Slovak University of Technology in Bratislava, SK
- LEPIDA SCPA, IT
- Local Health Authority of Bologna, IT
- Institute for elderly care and shelter, IT
- Samaritan Burgenland, Department of Home Care, AT
- The City of Warsaw, PL
- National Institute of Public Health, SI

AP-NURSE

- Encompasses ambient sensors for monitoring of activity patterns, gas, temperature and other aspects
- Aims to simplify the work of caregivers or nurses by monitoring basic interactions of the patient with the environment during night or job duties
- Provides fast alert about possible dangers and support independent living of frail elderly

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AP NURSE testing in Warsaw

> The AP-NURSE monitoring tool was designed by the Slovak University of Technology in Bratislava based on the needs of caregivers and patients. The pilot testing took place in the Social Care Home, a part of the Alzheimer Centre located in Warsaw, Poland, where all developed platforms were installed (i.e. AP-NURSE HOME, AP-NURSE CARE M5stack and AP-NURSE CARE Waspmote).

MAIN GOAL OF THE TOOL

- To increase the quality of the caregiving services by utilizing smart assistance
- To contribute to minimisation of consequences of harmful events by monitoring of the patient's living environment by fast notification of the caregiving personnel
- To provide continuous data for a health progress evaluation and may decrease the level of stress of the caregiving personnel.

BENEFITS

The development and testing of the tools contributed to the improvement of the quality of life of the elderly vulnerable persons.
Based on the feedback from caregivers:

- The system passed the acceptance indicator
- The AP-NURSE system passed also the usability indicator
- The AP1-W and AP4-W devices are reliable, the AP1-H and AP1-M devices have limited performance and the AP2-M, AP4-M, AP4-W and AP6-H versions are not reliable.
- The AP1 and AP4 platforms have a very good rate of false alarms, below 2 %, therefore these versions passed the accuracy indicator.
- The AP1 and AP4 versions of the AP-NURSE system passed also the applicability indicator.