Newsletter February 2011

Robo M.D.

Home-care Robot for monitoring and detection of critical situations

Description:

Robo M.D. is one of eight sub-projects in the Interreg IVC project Innovation 4 Welfare. A home-care robot for monitoring and detection of critical situations is developed to improve quality of life of risk patients like elderly people and also to reduce costs of home care-systems. This robot allows a monitoring of risk patients without the need of a caregiver and thus provides important benefits for this class of patients giving them the opportunity to stay at home independently.

Status:

During the first period of the project a sensor which continuously monitors vital signs had to be found. The chosen sensor of the company Intelesens measures single lead ECG, skin surface temperature and 3 axis acceleration. At the moment the first sensor tests are running and the first measurements are taken. In addition to the internal sensor tests, discussions are going on with an elderly nursing home to test the sensor also on elderly people which represents the target group of the project much better. Therefore an experiment protocol is designed. During the experiment the sensor should be worn for approximately 24 hours and special activities (for instance going up and downstairs) have to be fulfilled. Besides the sensor test first discussions about establishing the communication between the robot, sensor and basic station are done.

Information: http://www.innovation4welfare.eu/