COMES® - COgnitives MEdizinisches System

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COMES® System, Sensors and Interfaces

COMES® is a mobile diagnosis and therapy-platform for a healthy and self-determined life. As an intelligent telemedical assistant system accompanies users at any time in any place. A multimodal sensor platform which is able to collect and transport a great number of physiological data as blood pressure, ECG, blood glucose, weight and activity, has been integrated in COMES®. Patient uses commercial medical measuring instruments. These sensors are equipped by a radio module, e.g. Bluetooth or ANT+. Graphical Interfaces are a mobile phone or a Set-Top-Box.

Measurements carried out by the patients themselves in their authentic environment are automatically sent via Bluetooth to a mobile end-device and directly and safely transmitted into the COMES® database. As soon as the values are transferred successfully to the smartphone or Set-Top-Box, they will immediately be assigned through the internet, via SOAP (Simple Object Access Protocol), upon the COMES® Trust Center. There, they will be available in a very short term, to further usage for the doctor, the patient himself or an attending relative. A web front end supports the user and display all readings in tabular and graphics.

Time series analysis and behaviour management are further tools. The system works as an medical analysis-, rule- and guiding center for individual feedback. In case of need, the patients will get both, enough information and immediate help.

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In collaboration with established partners, COMES® provides competent medical professionals, who give medical advice on demand. In combination with the dialogue-oriented telemedical service center, offers COMES® demonstrably innovative assistance for personalized diagnostic, therapy and assistance regarding all kind of medical issues.

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COMES® ist eine Idee, Entwicklung und eingetragenes Markenzeichen des Heinz Nixdorf-Lehrstuhls für Medizinische Elektronik der Technischen Universität München

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