Health cost represents a considerable ratio in the economic budget of developed countries, and certain tendency studies are not optimistic about an improvement in the situation. Average age of the population tends to increase and the number of people requiring more or less care intensive medical monitoring is not small. This increases overall cost of medical care. No doubt, using socio-medical establishments to place people at risk under surveillance is impractical for cost reasons, but also for reasons of quality of life. Many of these people are fully autonomous, though weakened. Their psychological confinement due to the presence of nursing staff would be a breach of their freedom. Therefore, partially replacing the assistance of nursing staff by small health surveillance and communication equipment like sensors, networks, monitoring software could be cost effective and would increase life standard. The objective is to develop and implement innovative solutions based on information technologies and wireless communication for the benefit of those needing medical permanence. Recent Advances in technology has led to the development of small, intelligent, wearable sensors capable of remotely performing critical health monitoring and use of this information either by a local contractor or off site through the Internet, the access to medical permanence. Recent Advances in technology has led to the development of small, intelligent, wearable sensors capable of remotely performing critical health monitoring and use of this information either by a local contractor or off site through the Internet, the access to medical permanence. 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