

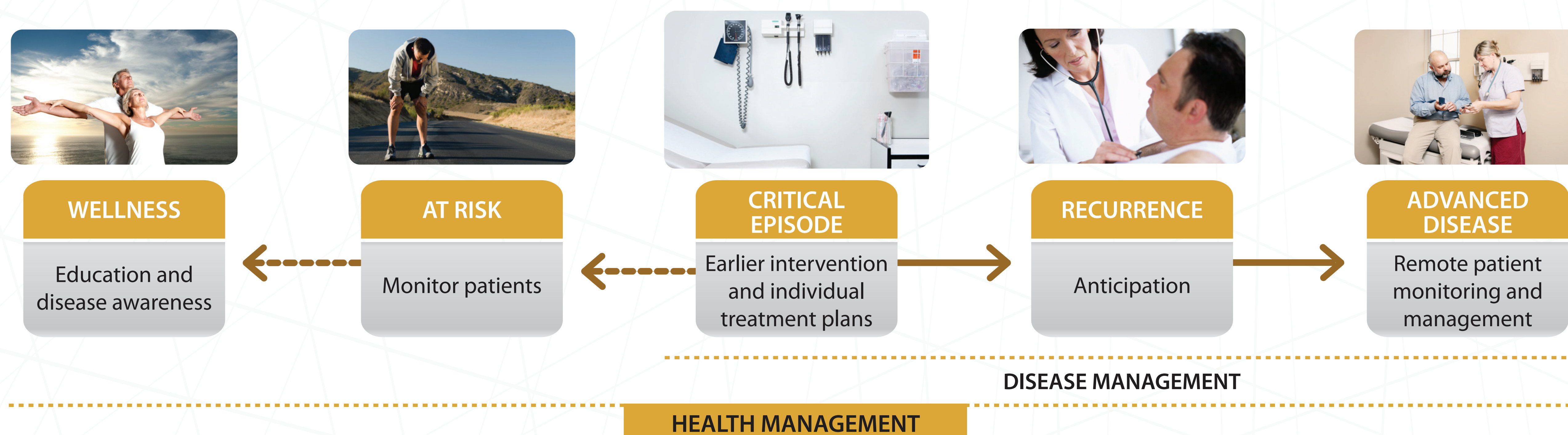
The METABO model for disease management

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Chronic diseases are the leading cause of mortality and morbidity in Europe. With our Health Systems developed in a period of economic growth and structured around acute episodes, a revolution in traditional models of care is expected and needed.

This new paradigm must deal with some of the most pressing issues: lack of common standards of care, lack of continuum of care and lack of tools for optimal management.

Lately, the care model has evolved from “acute care” to “disease management” but METABO goes beyond, fostering the shift to “Health Management”. Health Management proposes the integrated management of health (not just in case of disease) from education, early diagnosis and monitoring patients at risk to individualized treatment plans for critical episodes, anticipation of recurrence to avoid admissions and achieving a successful remote monitoring and continuous management in case of advanced disease.



Industrial exploitation of results

The following projects have been developed by Medtronic Ibérica as a result of our previous experience with METABO, focused on the area of diabetes disease management:



SAPPHIRE House is a physical and a virtual space to support diabetic individuals in the management of their lifestyle and their metabolic control with the help of a multidisciplinary team of health professionals and the best technology available on the Persian Gulf area. The SAPPHIRE Houses are clinics that offer ambulatory services to patients within their geographical area, completing the solutions provided for remote diabetes management with the personal attention of the medical professionals, who will design personalized programs of care and follow up tailored to the specific needs and circumstances of each individual. The services provided through the SAPPHIRE House are not only on-site in the SAPPHIRE facilities, but can also be provided online through the SAPPHIRE technological platform.



COMPASS Alliance is a plan of collaboration between the companies Medtronic and APDP (Associação Protectora dos Diabeticos de Portugal) which was founded in 1926 and has established a solid organization for multidisciplinary care of diabetic patients over the years, consolidating a very innovative model for the provision of personalized assessment, treatment and follow up. The project intends to attain an improvement of the current integrated care model developed by APDP, incorporate a plan for innovation in technology, achieve recognition of the center as a national and international reference for diabetes management and to define a new business model sustainable and enable the expansion at national level and study of the viability and profitability of its internationalization.



Diabetes prevalence is growing among children aged 0-14 years old. Beyond the problems inherent to the diabetes disease, as the medical acute conditions suffered by the patients (hypoglycemia and hyperglycemia), we are facing other problems in juvenile diabetes management that are intrinsic to the actual treatment pathway followed to deal with the disease. eDiana is a comprehensive project that addresses these challenges emphasizing the intervention in education, information and communication technologies and development of adequate clinical pathways placing the focus on family, school and medical environments. eDiana develops this project in tight contact with Spanish Regions, Health Systems and Diabetic Associations with the objective of creating a sustainable technological and organizational model expandable to other regions in Spain and Europe.

New research challenges supported by European Commission



MOSAIC responds to the recognized need to improve the current standards for diabetes diagnosis and management attaining a positive impact in the way diabetes is currently diagnosed and followed in Europe. The MOSAIC project is devoted to the development of mathematical models and algorithms that can enhance the current tools and standards for the diagnosis of T2DM, IGT and IFG ; that can improve the characterization of patients suffering those metabolic disorders and that can help evaluating the risk of developing T2DM and prediabetic states and their related complications. Multiple data bases cutting across geographic boundaries are available to the MOSAIC consortium as a result of the activities of previous studies and projects of the members. MOSAIC will integrate these models into an already existing platform for diabetes management and remote monitoring, NOMHAD Chronic, to facilitate the interpretation and visualization of the data and to enable a comprehensive understanding of the information by the health care professionals.



The results of the METABO project have been used and included as "Commitments" of the "Prescription and adherence to medical plans" Action Group of the European Innovation Partnership on Active & Healthy Aging, a collaborative partnership with EU countries, regions, industry and professionals aiming to improve older people's healthy lives and implementing innovative solutions to improve adherence to medical plans.

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