Objective

Type 1 Diabetes Mellitus (T1DM) portrays a high need and challenge for self-management by young patients: a complex illness with a high and increasing prevalence, a regimen that needs adaptation to patient’s condition and activities, and serious risks for complications and reduced life expectations. When patients do not acquire the knowledge, skills and habits to adhere to their diabetes regimen at childhood, these risks increase suddenly at adolescence. Current mHealth applications have their own specific value for self-management, but are unable to deliver the required comprehensive, prolonged, personalised and context-sensitive support and to reduce these risks persistently. We aim at a Personal Assistant for healthy Lifestyle (PAL) that provides such support, assisting the child, health professional and parent to advance the self-management of children with type 1 diabetes aged 7 - 14, so that an adequate shared patient-caregiver responsibility for child’s diabetes regimen is established before adolescence. The PAL system is composed of a social robot, its (mobile) avatar, and an extendable set of (mobile) health applications (diabetes diary, educational quizzes, sorting games, etc.), which all connect to a common knowledge-base and reasoning mechanism. The robot and avatar act as a child’s pal or companion, whereas health professionals and parents are supported by, respectively, an Authoring & Control and a Monitor & Inform tool. The PAL-project will assess the benefits of the behavioural change on patients’ health conditions, and the profits for the caregivers in longitudinal field experiments. The consortium
provides the required network, expertise and tools for this research: (a) a knowledge-driven co-design methodology and tool, (b) medical, human factors and technical expertise, (c) end-user participation and (d) initial PAL building-blocks.

Field of Science

/medical and health sciences/clinical medicine/endocrinology/diabetes

Programme(s)

H2020-EU.3.1.4. - Active ageing and self-management of health

Topic(s)

PHC-26-2014 - Self management of health and disease: citizen engagement and mHealth

Call for proposal

H2020-PHC-2014-single-stage

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

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Netherlands

Activity type
Research Organisations

EU Contribution
€ 652 228,75

Website
Contact the organisation

Participants (10)
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<td>MIXEL SCARL</td>
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<td>TECHNISCHE UNIVERSITEIT DELFT</td>
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<td>MEANDERMC</td>
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<td>DIABETESVERENIGING NEDERLAND</td>
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<td>Fokkerstraat 17 3833 Ld Leusden</td>
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</table>
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Activity type
Other

EU Contribution
€ 144 937,50

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