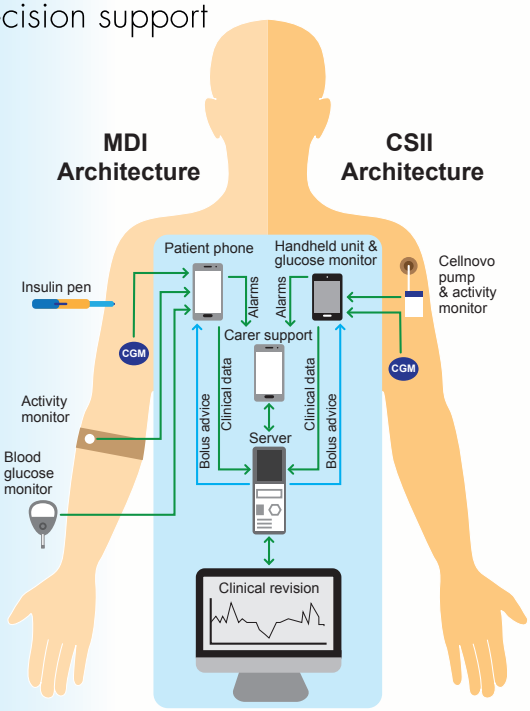
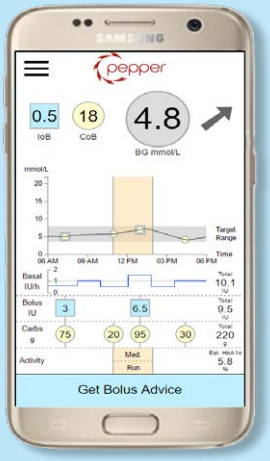
pepper

patient empowerment through predictive personalised decision support

European Commission

PEPPER is an EU-funded project aiming to develop a mobile-based platform that will help people with type 1 diabetes to improve self-management of their condition. PEPPER provides intelligent insulin and carbohydrate dosing advice and puts strong emphasis on safety by including features such as predictive glucose alarms, low-glucose insulin suspend and fault detection and isolation. By preventing adverse glycemic episodes, the system will improve quality of life for people with type 1 diabetes, as well as strengthening their interactions with healthcare professionals.





The tool will offer bespoke advice by unobtrusively integrating various sources of physiological, lifestyle, and environmental data, together with an insulin patch pump. The project will also examine the extent to which human behavioural factors and usability issues have previously hindered the wider adoption of personal guidance systems for chronic disease self-management.

The project, led by Oxford Brookes University (UK), includes academic and industrial institutions from three EU member states: Imperial College London (UK), University of Girona (Spain), Girona Biomedical Research Institute Dr Josep Trueta (Spain), Romsoft (Romania) and Cellnovo (UK).

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