

Abstract

# MED31/437: A Web-based Diabetes Management System: DiabNet

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## Abstract

**Introduction:** A web-based system (DiabNet) was developed to provide instant access to the Electronic Diabetes Records (EDR) for end-users, and real-time information for healthcare professionals to facilitate their decision-making. It integrates portable glucometer, handheld computer, mobile phone and Internet access as a combined telecommunication and mobile computing solution for diabetes management. Methods: Active Server Pages (ASP) embedded with advanced ActiveX controls and VBScript were developed to allow remote data upload, retrieval and interpretation. Some advisory and Internet-based learning features, together with a video teleconferencing component make DiabNet web site an informative platform for Web-consultation.

**Results:** The evaluation of the system is being implemented among several UK Internet diabetes discussion groups and the Diabetes Day Centre at the Guy's & St. Thomas' Hospital. Many positive feedback are received from the web site demonstrating DiabNet is an advanced web-based diabetes management system which can help patients to keep closer control of self-monitoring blood glucose remotely, and is an integrated diabetes information resource that offers telemedicine knowledge in diabetes management.

**Discussion:** In summary, DiabNet introduces an innovative online diabetes management concept, such as online appointment and consultation, to enable users to access diabetes management information without time and location limitation and security concerns.

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## KEYWORDS

Web-based; ActiveX ; Diabetes Management; Decision-Making; Mobile Computing

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