

INSULIN DELIVERY DEVICE: REMOTE MONITORING AND HEALTH MANAGEMENT APPLICATION DEVELOPMENT

Client Profile:

A Medical Device Company who markets an Insulin Delivery Device seeking to develop an application that can remotely monitor the device and track/trend data.

Technologies Used:

Use Case Analysis, Requirements Engineering, Java ME, Bluetooth interface technology, knowledge of Medical Device functionality and interfaces, FDA Application Development /V and V Guidelines to support submission of 510K and HP Mercury Quality Center.

Project Summary:

ASHVINS' focus in this project was the development of a Windows based/ Web enabled application that will interface with the insulin delivery device to facilitate the tracking and trending of medical data. Additionally, the application also facilitates sharing of data between patients and Healthcare Providers for remote monitoring. Data management application to support insulin delivery device users. Wireless connection to insulin delivery device and automatic device reading. Allows Healthcare Providers to view pump history, troubleshoot issues remotely and review data from users Extensible architecture to support future expansion. Intuitive GUI, complex reporting, configurable features. Overall the application enables patients to more effectively manage their disease and improves/increases efficiency of communications between patients and healthcare providers.