162162
G00002

SYSTEMS AND METHODS FOR REMOTELY CONTROLLING MEDICATION INFUSION AND ANALYTE MONITORING

ABSTRACT

Devices, systems and methods are provided for remotely controlling medication delivery to a patient by means of a medication infusion pump, such as a subcutaneous infusion pump, and for remotely controlling the monitoring of one or more physiological fluid analytes such as by a percutaneous measurement device. The systems of the present invention include a medication infusion pump and a hand-held "fob" for the remote control of the infusion pump and/or measurement device. In addition to remotely controlling the insulin pump and the measurement device, the fob provides for the consolidation of blood chemistry data and insulin delivery data over a period of time and maintains such consolidated data for immediate and later retrieval by the user or a physician. The methods of the present invention allow a user to customize and optimize an insulin bolus delivery protocol, *i.e.*, bolus volume and delivery duration, by factoring in or compensating for the user's current or substantially current blood chemistry evaluation and/or the user's anticipated and/or actual carbohydrate intake.

Figure 1