DEVICE AND METHOD FOR FOOD MANAGEMENT

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a Continuation Application of U.S. patent application Ser. No. 15/469,859, filed Mar. 27, 2017, and entitled Device and Method for Food Management, now U.S. Pat. No. 10,083,280, issued Sep. 25, 2018 (Attorney Docket No. U90) which is a Continuation Application of U.S. patent application Ser. No. 14/299,330, filed Jun. 9, 2014 and entitled Device and Method for Food Management, now U.S. Pat. No. 9,604,001, issued Mar. 28, 2017 (Attorney Docket No. M55), which is a Continuation Application of U.S. patent application Ser. No. 13/657,094, filed Oct. 22, 2012 and entitled Device and Method for Food Management, now U.S. Pat. No. 8,749,389, issued Jun. 10, 2014 (Attorney Docket No. J87), which is a Continuation Application of U.S. patent application Ser. No. 13/210,011, filed Aug. 15, 2011 and entitled Device and Method for Food Management, now U.S. Pat. No. 8,294,581, issued Oct. 23, 2012 (Attorney Docket No. I91), which is a Continuation Application of U.S. patent application Ser. No. 12/014,382, filed Jan. 15, 2008 and entitled Device and Method for Food Management, now U.S. Pat. No. 7,999,674, issued Aug. 16, 2011 (Attorney Docket No. F21), which claims priority from U.S. Provisional Patent Application No. 60/880,577, filed Jan. 15, 2007 and entitled Apparatus, System and Method for Food Management (Attorney Docket No. DEKA-005XX), each of which is hereby incorporated herein by reference in their entireties.

TECHNICAL FIELD

[0002] The present invention relates to food management and more particularly, to a device and method for food management.

BACKGROUND INFORMATION

[0003] Various people work to manage food everyday. Accordingly, there is a need for a device and method for food management.

SUMMARY

[0004] In accordance with one aspect of the present invention, a medical device is disclosed. The medical device includes an RFID reader for receiving information from at least one RFID transponder. The medical device also includes a memory for storing a database and at least one processor for processing information.

[0005] Some embodiments of this aspect of the invention include one or more of the following. In some embodiments, the medical device is an infusion device. In some embodiments, the medical device is a remote controller for a medical device. In some embodiments, the medical device is a glucose monitoring device. In some embodiments, the database includes user profile information. In some embodiments, the database includes information relating to food. In some embodiments, the database is a learning database. In some embodiments, the device also includes a display for displaying at least a portion of the information.

[0006] In accordance with one aspect of the present invention, a remote controller for a medical device is disclosed. The remote controller includes an information receiver for receiving information related to food. The infusion device also includes a memory for storing a database and at least one processor for processing information.

[0007] Some embodiments of this aspect of the invention include one or more of the following. Some embodiments include where the information receiver is an RFID reader. Some embodiments include where the information receiver is a bar code reader. Some embodiments include where the information is a unique alphanumeric code communicated to the device using a manual input device. Some embodiments include where the manual input device includes a capacitance slider. Some embodiments include where the manual input device includes at least one button.

[0008] In accordance with one aspect of the present invention, a method for use in a medical device is disclosed. The method includes receiving information from an RFID transponder related to food. Also, processing the information by comparing the information to a database. The method also includes determining the acceptability of the food and providing information related to acceptability to the user.

[0009] Some embodiments of this aspect of the invention include one or more of the following. In some embodiments, the method also includes where the processing further includes comparing the information to a food item and user profile database. Some embodiments also include where calculating a recommended amount of said food for user to ingest based on at least one blood glucose value. Some embodiments include inputting an estimate of the amount of the food item to be ingested by the body of the user and calculating an estimated bolus amount of insulin required by the body of the user based upon at least one blood glucose value. Some embodiments of the method include inputting at least one blood glucose value and calculating a recommended amount of the food item for user to ingest based at least upon the at least one blood glucose value. Some embodiments of the method include inputting an estimate of amount of the food item to be ingested by the body of the user and calculating total caloric intake by the user based on a sum of the inputs during a period of time.

[0010] These aspects of the invention are not meant to be exclusive and other features, aspects, and advantages of the present invention will be readily apparent to those of ordinary skill in the art when read in conjunction with the appended claims and accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] These and other features and advantages of the present invention will be better understood by reading the following detailed description, taken together with the drawings wherein:

[0012] FIGS. **1**A-**1**D are illustrations of various embodiments of the relationship between food items the device;

[0013] FIG. **2**A shows one embodiment of the device;

[0014] FIG. **2**B is a top view of one embodiment of the medical device;

[0015] FIG. **2**C is a front view of one embodiment of the medical device;

[0016] FIG. **3** is illustrative view of the communication between an RFID reader on a device and a food item;

[0017] FIG. **4**A is an illustrative view of various embodiments of communication between a food item and a device;

[0018] FIG. **4**B is an illustrative view of one embodiment of a medical device interaction with a food item and information provided to the user;