of electronic health record providers, each with its own requirements and non-standard data format. There is a need to simplify the collection of POCT data and to simplify the process of importing the POCT data into electronic health records for patients.

SUMMARY

Aspects of the invention can provide a more automated method of inputting point of care test data into an electronic health record avoiding user intervention. In one aspect, point of care test data can be automatically completed and uploaded into an electronic health record. In one aspect, if a point of care test order is required in an electronic health record, it can automatically be created or identified for the uploading of point of care test data to the electronic health record for association with the automatically created or identified order.

The invention of claim 1 provides a server system for processing patient test data from at least one point of care device, the server system comprising a test data interface for receiving point of care test data for a patient from at least one point of care device; an electronic health record provider interface for interfacing with at least one electronic heath record provider's computer, the at least one electronic health record provider's computer storing electronic health records for patients; program memory storing computer code; and a processor for reading and implementing the computer code in the program memory; wherein the program memory stores computer code for implementation by the processor to; control the test data interface to receive the point of care test data for the patient from at least one point of care device, identify additional required data missing from the point of care test data for the patient according to electronic health record provider requirements, in response to the identification of additional required data, control the electronic health record provider interface to retrieve electronic health record data for the patient from a said electronic health record provider's computer, and process the retrieved electronic health record data for the patient to try to identify the identified additional required data in the retrieved electronic health record data, and to automatically add any identified additional required data in the retrieved electronic health record data to the point of care test data for the patient to try to form complete point of care test data for the patient.

The invention of claim 8 also provides a method at a server system for processing patient test data from at least one point of care device, the method comprising receiving point of care test data for a patient from at least one point of care device; identifying additional required data missing from the point of care test data for the patient according to electronic health record provider requirements; in response to the identification of additional required data, retrieving electronic health record data for the patient from an electronic health record provider's computer, the electronic health record

ooo

provider's computer storing electronic health records for patients; and processing the retrieved electronic health record data for the patient to try to identify the identified additional required data in the retrieved electronic health record data, and automatically adding any identified additional required data in the retrieved electronic health record data to the point of care test data for the patient to try to form complete point of care test data for the patient.
The invention of claim 15 provides a carrier medium carrying computer readable code for controlling a computer to carry out any of the method as described above.

Optional features are defined in the dependent claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a schematic diagram of a system for processing patient test data according to one embodiment of the invention;
Figure 2 is a schematic diagram of a client application according to one embodiment of the present invention;
Figure 3 is a schematic diagram of a client application according to one embodiment of the present invention;
Figure 4 is a schematic diagram of an application server according to one embodiment of the invention;
Figure 5 is a flow diagram illustrating a method of processing patient test data according to one embodiment of the invention;
Figure 6 is a flow diagram illustrating a method of allowing a user to create an EHR order according to one embodiment of the invention; and
Figure 7 is a flow diagram illustrating a method allowing a user to enter data and control the processing of the patient test data according to one embodiment of the invention

DETAILED DESCRIPTION

A first generalised embodiment comprises a server system for processing patient test data from at least one point of care device, the server system comprising a test data interface for receiving point of care test data for a patient from at least one point of care device; an electronic health record provider interface for interfacing with at least one electronic heath record provider's computer, the at least one electronic health record provider's computer storing electronic health records for patients;

ooo

CLAIMS

1. A server system for processing patient test data from at least one point of care device, the server system comprising:

a test data interface for receiving point of care test data for a patient from at least one point of care device;

an electronic health record provider interface for interfacing with at least one electronic heath record provider's computer, the at least one electronic health record provider's computer storing electronic health records for patients;

program memory storing computer code; and

a processor for reading and implementing the computer code in the program memory;

wherein the program memory stores computer code for implementation by the processor to;

control the test data interface to receive the point of care test data for the patient from at least one point of care device,

identify additional required data missing from the point of care test data for the patient according to electronic health record provider requirements,

in response to the identification of the additional required data missing from the point of care test data, control the electronic health record provider interface to retrieve electronic health record data for the patient from a said electronic health record provider's computer, and

process the retrieved electronic health record data for the patient to try to identify the additional required data missing from the point of care test data in the retrieved electronic health record data, and to automatically add any identified additional required data in the retrieved electronic health record data to the point of care test data for the patient to try to form complete point of care test data for the patient.

2. A server system according to claim 1, wherein the additional required data comprises an order identifier entered in the electronic health record for the patient

°°°

indicting that the point of care test for the patient was ordered by a physician, and the retrieved electronic health record data comprises an order identifier from the electronic health record data for the patient.

3. A server system according to claim 2, wherein the additional required data includes additional data and the retrieved electronic health record data comprises an order identifier and associated order data from the electronic health record data for the patient.

4. A server system according to claim 1, wherein the computer code is adapted to be implemented by the processor to control the electronic health record provider interface to transmit the complete point of care test data for the patient to the electronic health record provider's computer for inclusion in the electronic health record for the patient.

5. A server system according to any one of claims 1 to 4, wherein the electronic health record provider interface comprises at least one API for interfacing to the at least one electronic health record provider's computer.

6. A server system according to any one of claims 1 to 5, wherein the computer code is adapted to be implemented by the processor to control the electronic health record interface to obtain the electronic health record provider requirements.

7. A server system according to any one of claims 1 to 6, wherein the computer code is adapted to be implemented by the processor to store point of care test data that could not be automatically completed and to generate a notification to a user to enable the user to enter data to form complete point of care test data for the patient.

8. A method at a server system for processing patient test data from at least one point of care device, the method comprising:

receiving point of care test data for a patient from at least one point of care device;

°°°

identifying additional required data missing from the point of care test data for the patient according to electronic health record provider requirements;

in response to the identification of additional required data missing from the point of care test data, retrieving electronic health record data for the patient from an electronic health record provider's computer, the electronic health record provider's computer storing electronic health records for patients; and

processing the retrieved electronic health record data for the patient to try to identify the additional required data missing from the point of care test data in the retrieved electronic health record data, and automatically adding any identified additional required data in the retrieved electronic health record data to the point of care test data for the patient to try to form complete point of care test data for the patient.

9. A method according to claim 8, wherein the additional required data comprises an order identifier entered in the electronic health record for the patient indicating that the point of care test for the patient was ordered by a physician, and the retrieved electronic health record data comprises an order identifier from the electronic health record data for the patient.

10. A method according to claim 9, wherein the additional required data includes additional data and the retrieved electronic health record data comprises an order identifier and associated order data from the electronic health record data for the patient.

11. A method according to claim 8, including transmitting the complete point of care test data to the electronic health record provider's computer for inclusion in the electronic health record for the patient.

12. A method according to any one of claims 8 to 11, wherein the electronic health record provider's computer is interfaced to the server system using an API.

13. A method according to any one of claims 8 to 12, including obtaining the electronic health record provider requirements from the electronic health record provider's computer.

ooo

14. A method according to any one of claims 8 to 13, including storing point of care test data that could not be completed and generating a notification to a user to enable the user to enter data to form complete point of care test data for the patient.

15. A carrier medium carrying computer readable code for controlling a computer to carry out the method of any one of claims 8 to 14.

ooo