associated indicator, and the one or more sub-labels each include at least the associated indicator.

In yet another aspect, an infusion line management system includes a hospital computer system storing prescription information related to one or more prescriptions associated with a patient. A label generating device receives the prescription information from the hospital computer system, and generates, for each of the one or more prescriptions, a label including a master label and one or more sub-labels related to the corresponding prescription. Each master label includes at least the prescription information and a unique indicator, and each of the sub-labels includes the unique indicator. The one or more sub-labels are individually removable from the master label and affixable to locations throughout the patient infusion system.

In a further aspect, there is provided an infusion line management system, including a patient infusion system, comprising:

at least one medication container containing a prescribed medication, and one or more tubing sections forming a tubing set associated with each said medication container;

a label generating device including a processor, a non-transitory memory, and a display and a printer which are both connected to said processor, said device configured for receiving prescription information for one or more patient prescriptions, the received information being used to generate, for each of the prescriptions, a label including a master label and one or more sub-labels related to the corresponding prescription, said master label is affixable to said at least one medication container;

each said master label includes at least information related to the corresponding prescription and an indicator identifying a particular portion of the patient infusion system to which said medication container containing the prescription should be connected; and

each of said one or more sub-labels include said indicator without information related to said corresponding prescription, such that said master label and said sub-labels each share said indicator, said one or more sub-labels being individually removable from said master label, and said one or more sub-labels being constructed and arranged to be individually affixable to selected locations throughout the patient infusion

system, including at least the one or more tubing sections forming said tubing set, so that all of the selected locations and tubing sections forming said tubing set are provided with said common indicator, which facilitates user identification of the portion of the patient infusion system associated with a particular prescribed medication; and

said processor, said non-transitory memory, and said display being components of a patient infusion system, said display providing an infusion map corresponding to an arrangement of the patient infusion system, said infusion map identifying, using said indicator, the portion of the patient infusion system associated with a particular prescribed medication to achieve a correspondence between said display and the patient infusion system.

In a further aspect, there is provided an infusion line management system comprising:

a hospital computer system storing prescription information related to one or more prescriptions associated with a patient;

a label generating device receiving the prescription information from said hospital computer system, said label generating device generating, for each of the one or more prescriptions, a label including a master label and one or more sub-labels related to the corresponding prescription;

each said master label includes at least the prescription information and a unique indicator; and

each of said one or more sub-labels includes the indicator, said one or more sub-labels being individually removable from said main label and affixable to locations throughout said patient infusion system.

In a further aspect, there is provided an infusion line management system, said management system comprising:

a patient infusion system including at least one medication container containing a prescribed medication, one or more tubing sections forming a tubing set associated with each said medication container, one or more access ports on said at least one tubing set, and at least one catheter on said at least one tubing set;

a patient information software system including a processor, a non-transitory memory, a display and a network interface;

an input device connected to said processor, said input device configured to receive prescription information for at least one prescribed medication;

an output device connected to said processor, said output device configured to generate a printed human readable label, including a master label and one or more sub-labels, for each of said at least one prescribed medication and its associated tubing set, using said received prescription information;

each said master label being affixed to one of said medication containers, said master label including at least human readable information related to said received prescription information and an indicator identifying a particular portion of said patient infusion system to which said medication container should be connected;

each of said one or more sub-labels being affixed to selected locations throughout said particular portion of said patient infusion system, including at least said one or more tubing sections, said one or more access ports, and said at least one catheter, and so as to facilitate user identification of said particular portion of said patient infusion system to which said medication container should be connected; and

said display providing an infusion map corresponding to an arrangement of said patient infusion system, said infusion map identifying, using said indicator, said particular portion of said patient infusion system to which said medication container should be connected so as to achieve a correspondence between said display and said patient infusion system.

BRIEF DESCRIPTION OF THE DRAWINGS

FIGURE 1 is a schematic diagram showing the present infusion line management system;

FIG 2A shows a top plan view of a multi-part label of the infusion line management system of FIG. 1;

FIG. 2B shows a bottom plan view of a multi-part label of the infusion line management system of FIG. 1; and

FIGs. 3A and 3B show an example screenshot of a virtual infusion map using the infusion line management system of FIG. 1

DETAILED DESCRIPTION

An infusion tube line management system is generally designated 10. As shown in FIG. 1, the system 10 preferably includes a computerized physician/prescriber order entry (cPOE) system 12, a multi-part label 14, and a label generating device 16 used to generate the label. While the description refers to a cPOE system 12, those of skill in the art will recognize that any other computerized system capable of producing required information for printing labels described herein may be used in place of the cPOE system.

The multi-part label 14 is preferably generated as a single entity at the time that a prescription medication is prepared for a patient, and is applied to the medication container (e.g., bag, bottle, syringe, etc.), preferably in a single step. Information transferred to the label 14 is preferably derived from the cPOE system 12.

CLAIMS

1. An infusion line management system, including a patient infusion system, comprising:

at least one medication container containing a prescribed medication, and one or more tubing sections forming a tubing set associated with each said medication container;

a label generating device including a processor, a non-transitory memory, and a display and a printer which are connected to said processor, said device configured for receiving prescription information for one or more patient prescriptions, the received information being used to generate, for each of the prescriptions, a label including a master label and one or more sub-labels related to the corresponding prescription, said master label is affixable to said at least one medication container;

each said master label includes at least information related to the corresponding prescription and an indicator identifying a particular portion of the patient infusion system to which said medication container containing the prescription should be connected; and

each of said one or more sub-labels include said indicator without information related to said corresponding prescription, such that said master label and said sub-labels each share said indicator, said one or more sub-labels being individually removable from said master label, and said one or more sub-labels being constructed and arranged to be individually affixable to selected locations throughout the patient infusion system, including at least the one or more tubing sections forming said tubing set, so that all of the selected locations and tubing sections forming said tubing set are provided with said common indicator, which facilitates user identification of the portion of the patient infusion system associated with a particular prescribed medication; and

said processor, said non-transitory memory, and said display being components of a patient infusion system, said display providing an infusion map corresponding to an arrangement of the patient infusion system, said infusion map identifying, using said indicator, the portion of the patient infusion system associated with a particular prescribed medication to achieve a correspondence between said display and the patient infusion system.

2. The infusion line management system of claim 1, wherein said one or more sub-labels includes a plurality of sub-labels affixable to each of said one or more tubing sections.

3. The infusion line management system of claim 1, said label generating device including:

a network communication interface configured for receiving the prescription information;

an output device configured for printing the prescription information and the indicator on said master label and the indicator on each of said one or more sub-labels; and

a processor configured for controlling said network communication interface and said printer.

4. The infusion line management system of claim 3, wherein said printer is capable of writing information to a radio frequency identification tag embedded in said master label, and

wherein the information includes machine-readable information stored in said radio frequency identification tag.

5. The infusion line management system of claim 1, wherein the information includes both human-readable information related to the prescription and machine-readable information related to the prescription.

6. The infusion line management system of claim 5, wherein the machine-readable information is information represented as an optically readable element.

7. The infusion line management system of claim 1, wherein said master label includes a front surface for displaying the information related to the prescription and the indicator provided by said device, and a rear surface coated in an adhesive and configured for adhesion to a medication container, and wherein each of said one or more sub-labels includes a front surface for displaying at least the indicator and a rear surface coated in an adhesive configured for adhesion to said patient infusion system.

8. The infusion line management system of claim 1, wherein said infusion map indicates medications being administered to each patient.

9. The infusion line management system of claim 1, wherein said label generating device is in electrical communication with a hospital computer system, said label generating device receiving the prescription information from said hospital computer system.

10. An infusion line management system, said management system comprising:

a patient infusion system including at least one medication container containing a prescribed medication, one or more tubing sections forming a tubing set associated with each said medication container, one or more access ports on said at least one tubing set, and at least one catheter on said at least one tubing set;

a patient information software system including a processor, a non-transitory memory, a display and a network interface;

an input device connected to said processor, said input device configured to receive prescription information for at least one prescribed medication;

an output device connected to said processor, said output device configured to generate a printed human readable label, including a master label and one or more sub-labels, for each of said at least one prescribed medication and its associated tubing set, using said received prescription information;

each said master label being affixed to one of said medication containers, said master label including at least human readable information related to said received prescription information and an indicator identifying a particular portion of said patient infusion system to which said medication container should be connected;

each of said one or more sub-labels being affixed to selected locations throughout said particular portion of said patient infusion system, including at least said one or more tubing sections, said one or more access ports, and said at least one catheter, and so as to facilitate user identification of said particular portion of said patient infusion system to which said medication container should be connected; and

said display providing an infusion map corresponding to an arrangement of said patient infusion system, said infusion map identifying, using said indicator, said

particular portion of said patient infusion system to which said medication container should be connected so as to achieve a correspondence between said display and said patient infusion system.