CLAIMS

1. An infusion planning system that provides adaptive clinical decision support for dynamic patient treatment scheduling, comprising:

a graphical user interface presenting a time schedule display graphically representing a plurality of patient treatments over time including at least one infusion delivery profile graphic associated with an ordered infusion; and

a rescheduling assistance engine, including:

a user interface display providing a plurality of selectable schedule updates each comprising a set of recommended changes to the patient treatments in compliance with rules governing the patient treatments.

2. The infusion planning system of claim 1, wherein the rescheduling assistance engine provides a selectable graphical visual preview of each of the selectable schedule updates.

3. The infusion planning system of claim 2, wherein the selectable graphical visual preview is shown on the time schedule display.

4. The infusion planning system of claim 2, wherein the selectable graphical visual preview is shown on within the user interface display.

5. The infusion planning system of claim 1, wherein the rescheduling assistance engine requires user authentication to implement one of the plurality of the selectable schedule updates.

6. The infusion planning system of claim 1, wherein one of the plurality of the selectable schedule updates from the rescheduling assistance engine can be implemented in the graphical user interface via a drag and drop tool.

7. The infusion planning system of claim 1, wherein the user interface display of the rescheduling assistance engine prompts a user when system feedback indicating deviations from the plurality of treatments in the time schedule display are recognized.

8. The infusion planning system of claim 1 wherein the user interface display of the rescheduling assistance engine is manually made accessible by a user request.

9. The infusion planning system of claim 1, wherein the rescheduling assistance engine identifies one of the selectable schedule updates as the set of recommended changes that is most preferred.

10. An infusion planning system that provides adaptive clinical decision support for dynamic patient treatment scheduling, comprising:

a computing platform interfaced with a computer network, the computing platform including computing hardware having a processor, data storage, and input/output facilities, and an operating system implemented on the computing hardware; and

instructions that, when executed on the computing platform, cause the computing platform to implement:

a graphical user interface presenting a time schedule display graphically representing a plurality of patient treatments over time;

a rescheduling assistance engine that identifies and graphically presents recommended options for scheduling adjustments on the time schedule display of the graphical user interface that include at least one alternate sequence of revised patient treatments.

11. An infusion planning system that provides adaptive clinical decision support for dynamic patient treatment scheduling, comprising:

a graphical user interface for scheduling a plurality of patient treatments including scheduling a plurality of infusions delivered by at least one infusion pump, the graphical user interface comprising:

a time schedule display comprising a plurality of columns representing time intervals during at least one particular date;

a plurality of infusion bars each representing an ordered infusion for administration;

one or more infusion delivery profile graphics associated with each ordered infusion that depicts both an amount of medication to be delivered to a patient and a length of time period needed for delivery;

wherein the infusion delivery profile graphics are configured for movement within the infusion bar associated with the corresponding ordered infusion, such that the infusion delivery profile graphics are aligned with the columns representing the time intervals over which the ordered infusion is scheduled for delivery.

a rescheduling assistance engine providing a plurality of selectable schedule updates each comprising a set of recommended changes to the plurality of patient treatments in accordance with assigned rules governing each of the plurality of patient treatments;

wherein the graphical user interface provides visual previews of the selectable schedule updates.

12. The infusion planning system of claim 11, wherein the graphical user interface includes a display having historical and real-time parameter feedback of a patient indicative of responses to one or more clinical changes.

13. A rescheduling assistance engine for use within a graphical user interface of a medical scheduling system, including:

a user interface display providing a plurality of selectable schedule updates each comprising a set of recommended changes to one or more patient treatments in compliance with rules governing the one or more patient treatments;

wherein selectable graphical visual previews of each of the plurality of selectable schedule updates are provided;

wherein at least one of the one or more patient treatments is an infusion.

14. A method of updating a treatment schedule for a patient in an infusion planning system, comprising:

constructing a visual schedule of anticipated patient medical treatments including one or more infusions in a graphical user interface of an infusion planning system;

receiving feedback data related to actual patient medical treatments performed on the patient;

detecting deviations from the anticipated patient medical treatments based on the feedback data received;

enabling a rescheduling assistance engine when deviations are identified;

providing a plurality of options to modify the anticipated patient medical treatments using the rescheduling assistance engine;

rescheduling the anticipated patient medical treatments based on a selection of one of the plurality of options to modify the anticipated patient medical treatments provided by the rescheduling assistance engine.

15. The method of claim 14, wherein receiving feedback data related to actual patient medical treatments performed on the patient includes receiving responsive monitored patient parameter data, wherein detecting deviations from the anticipated patient medical treatments includes detecting variations from anticipated monitored patient parameter data.

16. An infusion planning system for scheduling medical events including medical infusions, comprising:

a graphical user interface including:

a timeline-based graphical schedule of future patient treatments on a first portion of a displayed timeline; and

a timeline-based graphical schedule of past patient treatments on a second portion of the displayed timeline, configured to display verified past patient treatments and unverified past patient treatments, based on feedback received regarding a set of actual patient treatments administered.

17. The infusion planning system of claim 16, wherein unverified past patient treatments reflect a first appearance distinguishable from the appearance of the verified past patient treatments.

18. The infusion planning system of claim 16, wherein the unverified past patient treatments are shown in grayscale.

19. The infusion planning system of claim 16, wherein an authorized medical clinician is permitted to select and convert unverified past medical events to verified past patient treatments.

20. The infusion planning system of claim 19, wherein the authorized medical clinician is prompted to review unverified past medical treatments at system selected times.

21. The infusion planning system of claim 16, wherein the patient treatments displayed on the graphical user interface contain a user selectable icon which provides a list of settings criteria associated with that particular patient treatment.

22. The infusion planning system of claim 16, wherein the graphical user interface includes a real-time display of patient parameter feedback indicative of the current and past diagnostic states of a patient.