CLAIMS

What is claimed is:

1. A computer-implemented method for facilitating delivery of patient-care, the method comprising:

monitoring, by a computing device, patient information indicative of a clinical condition, based on a clinical protocol specific to the clinical condition, the clinical protocol being associated with patient-care instructions specific to an individual patient that must be completed within a time period determined based on the clinical protocol;

providing, by the computing device, the patient-care instructions to a user based on a result of the monitoring;

determining, by the computing device, adherence to the clinical protocol based on a result of at least one of the providing patient care instructions and the patient information;

based on a result of the determining adherence to the clinical protocol, the computing device automatically determining a recommended action and performing the determined recommended action;

monitoring, by the computing device, additional patient information indicative of a clinical condition after the recommended action has been performed; and

determining, iteratively by the computing device, adherence to the clinical protocol based on the additional patient information monitored after the recommended action has been performed,

wherein the recommended action comprising:

for a determination that the clinical protocol has been adhered to, administering an existing medication to a patient at a first dosage level using an automated medication delivery device; and

for a determination that the clinical protocol has not been adhered to, administering the existing medication to the patient at a second dosage level, different from the first dosage level using the automated medication delivery device, the second dosage level being calibrated by the computing device to drive the patient care instructions into compliance with the clinical protocol.

2. The computer-implemented method of claim 1, wherein the monitoring patient information comprises specifying that at least one of the patient information be provided and the patient-care instructions be performed within the time period.

3. The computer-implemented method of claim 1, further comprising displaying to the user a count-down timer that is indicative of the time period.

4. The computer-implemented method of claim 1, wherein the providing patient-care instructions comprises at least one of:

taking one or more measurements of patient vital signs;

obtaining one or more patient specimens and performing one or more laboratory tests on the one or more patient specimens;

performing one or more radiological imaging tests on a patient or the one or more patient specimens;

performing one or more physical diagnostic tests on the patient; and

performing one or more medical procedures on the patient.

5. The computer-implemented method of claim 1, further comprising:

accessing, by the computing device, a hospital information system to retrieve additional patient information;

correlating, by the computing device, the retrieved additional patient information with the monitored patient information based on the clinical protocol; and

wherein the providing the patient-care instructions comprises displaying a combination of the retrieved additional patient information, the monitored patient information, and diagnostic information based on the clinical protocol.

6. The computer-implemented method of claim 1, further comprising receiving role information of the user;

wherein the monitoring patient information comprises requesting patient information based on the received role information of the user; and

wherein the patient-care instructions are provided based on the received role information of the user.

7. The computer implemented method of claim 1,

wherein the patient-care instructions are provided based on a determination of compliance with the standard of care protocol.

8. A non-transitory computer readable medium having stored therein computer executable instructions for causing a computing device to perform the method comprising:

monitoring, by a computing device, patient information indicative of a clinical condition, based on a clinical protocol specific to the clinical condition, the clinical protocol

being associated with patient-care instructions specific to an individual patient that must be completed within a time period determined based on the clinical protocol;

providing, by the computing device, the patient-care instructions to a user based on a result of the monitoring;

determining, by the computing device, adherence to the clinical protocol based on a result of at least one of the providing patient care instructions and the patient information; and

based on a result of the determining adherence to the clinical protocol, the computing device automatically determining a recommended action and performing the determined recommended action;

monitoring, by the computing device, additional patient information indicative of a clinical condition after the recommended action has been performed; and

determining, iteratively by the computing device, adherence to the clinical protocol based on the additional patient information monitored after the recommended action has been performed,

wherein the recommended action comprising:

for a determination that the clinical protocol has been adhered to, administering an existing medication to a patient at a first dosage level using an automated medication delivery device; and

for a determination that the clinical protocol has not been adhered to, administering the existing medication to the patient at a second dosage level, different from the first dosage level using the automated medication delivery device, the second dosage level being calibrated by the computing device to drive the patient care instructions into compliance with the clinical protocol.

9. The non-transitory computer readable medium of claim 8, wherein the monitoring patient information comprises specifying that at least one of the patient information be provided and the patient-care instructions be performed within the time period.

10. The non-transitory computer readable medium of claim 8, further comprising displaying to the user a count-down timer that is indicative of the time period.

11. The non-transitory computer readable medium of claim 8, wherein the providing patient-care instructions comprises at least one of:

taking one or more measurements of patient vital signs;

obtaining one or more patient specimens and performing one or more laboratory tests on the one or more patient specimens;

performing one or more radiological imaging tests on a patient or the one or more patient specimens;

performing one or more physical diagnostic tests on the patient; and

performing one or more medical procedures on the patient.

12. The non-transitory computer readable medium of claim 8, further comprising:

accessing, by the computing device, a hospital information system to retrieve additional patient information;

correlating, by the computing device, the retrieved additional patient information with the monitored patient information based on the clinical protocol; and

wherein the providing the patient-care instructions comprises displaying a combination of the retrieved additional patient information, the monitored patient information, and diagnostic information based on the clinical protocol.

13. The non-transitory computer readable medium of claim 8, further comprising receiving role information of the user;

wherein the monitoring patient information comprises requesting patient information based on the received role information of the user; and

wherein the patient-care instructions are provided based on the received role information of the user.

14. The non-transitory computer readable medium of claim 8, wherein the patient-care instructions are provided based on a determination of compliance with the standard of care protocol.

15. A system for facilitating delivery of patient-care, the system comprising:

a first computing device comprising a first storage and a first processor configured to perform:

monitoring patient information indicative of a clinical condition, based on a clinical protocol specific to the clinical condition, the clinical protocol being associated with first patient-care instructions and second patient-care instructions specific to an individual patient that each must be completed within a time period determined based on the clinical protocol;

providing the first patient-care instructions to a first user based on a result of the monitoring;

determining adherence to the clinical protocol based on a result of at least one of the providing the first patient care instructions and the patient information; and

based on a result of the determining adherence to the clinical protocol, the first computing device automatically determining a first recommended and performing the determined first recommended action;

monitoring, by the first computing device, additional patient information indicative of a clinical condition after the first recommended action has been performed; and

determining, iteratively by the first computing device, adherence to the clinical protocol based on the additional patient information monitored after the first recommended action has been performed; and

a second computing device comprising a second storage and a second processor configured to perform:

monitoring patient information indicative of the clinical condition, based on the clinical protocol specific to the clinical condition, the clinical protocol being associated with the first patient-care instructions and the second patient-care instructions specific to an individual patient that must be completed within the time period determined based on the clinical protocol;

providing the second patient-care instructions to a second user based on a result of the monitoring;

determining adherence to the clinical protocol based on a result of at least one of the providing the second patient care instructions and the patient information; and

based on a result of the determining adherence to the clinical protocol, the second computing device automatically determining a second recommended action and performing the determined second recommended action;

monitoring, by the second computing device, additional patient information indicative of a clinical condition after the second recommended action has been performed; and

determining, iteratively by the second computing device, adherence to the clinical protocol based on the additional patient information monitored after the second recommended action has been performed;

wherein the first computing device and the second computing device are each configured to provide an indication of adherence to the clinical protocol of the first user and the second user, respectively in a substantially common presentation format, and

wherein each of the first recommended action and the second recommended action comprising:

for a determination that the clinical protocol has been adhered to, administering an existing medication to a patient at a first dosage level using an automated medication delivery device; and

for a determination that the clinical protocol has not been adhered to, administering the existing medication to the patient at a second dosage level, different from the first dosage level using the automated medication delivery device, the second dosage level being calibrated by the computing device to drive the patient care instructions into compliance with the clinical protocol.

16. The computer-implemented method of claim 1, further comprising automatically generating a notification that the recommended action has been performed and transmitting the notification to one or more of:

a member of a patient care team, a health insurance provider, and a care provider system.

17. The computer implemented method of claim 1, wherein the recommended action further comprises transmitting an automated notification to a care provider in response to a determination that the clinical protocol has not been adhered.