

What is claimed is:

1. An electronic patient monitoring system comprising:

a dock configured to monitor a patient-care device, the dock comprising a sandbox component configured to control access to at least one of a hardware resource and a software resource, wherein:

the dock is configured to identify the patient-care device and execute an application to monitor the patient-care device,

the dock executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component, and

the sandbox component is configured to prioritize access to the at least one of the hardware resource and the software resource,

a first module monitoring client configured to receive and store information pertaining to a patient, said information including data related to a first parameter of the patient measured by a device connected to the patient, and data related to a second parameter of the patient received from a first database containing information about the patient; and

a second module communications device configured to receive a treatment order from a user via a user interface associated with the second module communications device, said second module communications device being further configured to transmit said treatment order to the first module monitoring client, the second module communications device configured to receive the treatment order from the user via the user interface and to transmit the treatment order to the monitoring client, wherein the said monitoring client is further configured to:

obtain medication information about a medication associated with the treatment order or other drugs from a second database, the medication information including data providing limitations under which the medication is generally administered;

determine whether the first parameter of the patient is outside of a predetermined range;

when the first parameter is determined to be outside of the predetermined range, request the device to take an unscheduled reading to determine a third parameter of the patient, wherein the third parameter of the patient is measured by the device, wherein the request is performed if the first parameter is determined to be outside of the predetermined range;

verify an authenticity of the first parameter by using the third parameter when the first parameter is determined to be outside of the predetermined range;

determine whether the treatment order must be confirmed by the second module communications device based on the medication information, the value of the first parameter and the value of the second parameter; and

transmit a pre-established message from the first module monitoring client to the second module communications device for display on the user interface, said pre-established message confirming or warning about an acceptability of the treatment order,

wherein after confirmation by the second module communications device, the treatment order is communicated to the application to monitor the patient-care device and for initiation of treatment order by the patient-care device.

2. The electronic patient monitoring system of claim 1, wherein the medication information includes drug interactions information, drug allergies information, blood pressure effects information, heart rate effects information, heart rhythm effects information, or respiration effects information, and wherein the first parameter or the second parameter include data about the patient's currently administered drugs, known drug allergies, current blood pressure, current pulse rate, current heart rhythm, current respiratory rate or current ventilation.

3. The electronic patient monitoring system of claim 2, wherein the pre-established message includes a warning about a potential side-effect of the ordered medication, said warning including measured data about the first parameter, received data about the second parameter, or medication information obtained by the first module monitoring client.

4. The electronic patient monitoring system of claim 3, wherein the first module monitoring client is configured to generate a signal that the treatment order or a modified medication order is to be processed after the pre-established message has been transmitted and upon receipt of a confirmation signal from the second module communications device, the confirmation signal being triggered by an input signal from the user interface.

5. The electronic patient monitoring system of claim 3, wherein the first parameter is associated with a time stamp.

6. The electronic patient monitoring system of claim 3, wherein the third parameter is associated with a time stamp.
7. The electronic patient monitoring system of claim 3, wherein the monitoring client is further configured to record the first parameter within the first database and associate the first parameter with the patient.
8. The electronic patient monitoring system of claim 3, wherein the monitoring client is further configured to record the first parameter within the first database and associate the first parameter with the patient if the first parameter of the patient is outside of the predetermined range.
9. The electronic patient monitoring system of claim 3, wherein the monitoring client is further configured to interrupt an infusion pump based upon at least one of the first and third parameters.
10. The electronic patient monitoring system of claim 3, wherein the monitoring client is further configured to adjust an infusion pump based upon at least one of the first and third parameters.
11. The electronic patient monitoring system of claim 10, wherein the monitoring client is configured to adjust one of a flow rate of the infusion pump, an operating parameter of the infusion pump, and a treatment parameter of the infusion pump.
12. The electronic patient monitoring system of claim 3, wherein the monitoring client comprises a display, and the monitoring client is configured to display on an outer border of the display an indication of a status of the patient-care device.
13. The electronic patient monitoring system of claim 3, wherein the monitoring client comprises a display, and the monitoring client is configured to display on an outer border of the display an indication of progress of the patient-care device.
14. The electronic patient monitoring system of claim 13, wherein the indication of progress is displayed by a lighting a percentage of the outer border, wherein the percentage of the outer border corresponds to a percentage of progress of a patient care device.

15. A monitoring client comprising:
- a display;
 - a sandbox component configured to execute an application to monitor and control a patient care device; and
 - at least one processor coupled to the display, wherein the at least one processor is configured to:
 - receive and store information pertaining to a patient, said information including data related to a first parameter of the patient measured by a device connected to the patient, and data related to a second parameter of the patient received from a first database containing information about the patient;
 - receive a treatment order;
 - obtain medication information about a medication associated with the treatment order from a second database, the medication information including data providing limitations under which the medication is generally administered;
 - determine whether the first parameter of the patient is outside of a predetermined range;
- when the first parameter is determined to be outside of the predetermined range, request the device to take an unscheduled reading to determine a third parameter of the patient, wherein the third parameter of the patient is measured by the device, wherein the request is performed if the first parameter is determined to be outside of the predetermined range;
- verify an authenticity of the second parameter by using the third parameter when the first parameter is determined to be outside of the predetermined range;
 - determine whether the treatment order must be confirmed by a communications device; and
 - transmit a pre-established message from the monitoring client to the communications device for display on a user interface, said pre-established_message confirming or warning about an acceptability of said treatment order,
- wherein after confirmation by the communications device, the treatment order is initiated by the patient-care device while the application within the sandbox component monitors and controls the patient-care device.
16. The monitoring client according to claim 15, wherein the at least one processor is further configured to record the first parameter within the first database and associate the first parameter with the patient.

17. The monitoring client according to claim 15, wherein the at least one processor is further configured to record the first parameter within the first database and associate the first parameter with the patient if the first parameter of the patient is outside of the predetermined range.

18. The monitoring client according to claim 15, wherein the at least one processor is further configured to interrupt an infusion pump based upon at least one of the first and third parameters.

19. The monitoring client according to claim 15, wherein the at least one processor is further configured to adjust an infusion pump based upon at least one of the first and third parameters.

20. The monitoring client according to claim 15, wherein the at least one processor is further configured to display on an outer border of the display an indication of a status of the patient-care device.