

CLAIMS

The invention is claimed as follows:

1. A system comprising:
 - a memory;
 - one or more processors, in communication with the memory;
 - a plurality of medical therapy devices;
 - a plurality of patient monitoring devices; and
 - a protocol execution module, configured to execute on the one or more processors, to:
 - display a plurality of protocols;
 - receive, from a user, a selected protocol, the selected protocol associated with an individual medical therapy device, being one of the plurality of medical therapy devices, and associated with an individual patient monitoring device, being one of the plurality of patient monitoring devices;
 - wherein the individual medical therapy device receives, from the user, a first confirmation of the selected protocol,
 - wherein the protocol execution module receives, from the user, a second confirmation of the selected protocol,
 - such that the protocol execution module executes the selected protocol with the individual medical therapy device.
2. The system of claim 1, wherein the plurality of medical therapy devices includes at least one of an infusion pump, a dialysis or renal failure therapy machine, a respirator, and a defibrillator.
3. The system of claim 1, wherein the plurality of patient monitoring devices includes at least one of a heart rate sensor, a temperature sensor, a pulse oximetry sensor, a patient weight sensor, a glucose sensor, a respiratory sensor, a blood pressure sensor, a pressure sensor, and a volume-index sensor.
4. The system of claim 1, wherein the protocol execution module receives the plurality of protocols from an external server.

5. The system of claim 1, wherein executing the selected protocol with the individual medical therapy device includes:
 - identifying a patient parameter with the individual patient monitoring device; and
 - determining that the patient parameter violates a threshold, wherein the threshold is dictated by the selected protocol.
6. The system of claim 5, wherein executing the selected protocol with the individual medical therapy device further includes, responsive to determining that the patient parameter violates the threshold, triggering an alarm.
7. The system of claim 6, further comprising, responsive to triggering the alarm, displaying, at the protocol execution module, an action dictated by the selected protocol.
8. The system of claim 7, further comprising starting a countdown timer.
9. The system of claim 8, wherein the countdown timer expires, such that the protocol execution module instructs the individual medical therapy device to take the action, and wherein the individual medical therapy device takes the action.
10. The system of claim 9, wherein the individual medical therapy device is an infusion pump, and wherein the action is one of increasing infusion rate of the infusion pump, decreasing infusion rate of the infusion pump, and ceasing infusion.
11. The system of claim 8, wherein, prior to the countdown timer expiring, the user instructs the protocol execution module to take the action, and the protocol execution module instructs the individual medical therapy device to take the action, such that the individual medical therapy device takes the action.
12. The system of claim 8, wherein, prior to the countdown timer expiring, the user instructs the protocol execution module to take cancel the action, such that the protocol execution module

pauses the countdown timer and removes the action from the individual patient monitoring devices such that the first confirmation no longer exists.

13. The system of claim 8, further comprising, prior to the countdown timer expiring:
 - identifying an updated patient parameter with the individual patient monitoring device;
 - determining that the updated patient parameter no longer violates the threshold; and
 - removing the action from the selected protocol, such that the action is no longer displayed at the protocol execution module.
14. A protocol execution module comprising:
 - a memory;
 - one or more processors, in communication with the memory;
 - wherein the protocol execution module is configured to:
 - display a plurality of protocols;
 - receive, from a user, a selected protocol, the selected protocol associated with an individual medical therapy device, being one of a plurality of medical therapy devices, and associated with an individual patient monitoring device, being one of a plurality of patient monitoring devices;
 - identify a patient parameter with the individual patient monitoring device; and
 - determine that the patient parameter violates a threshold, wherein the threshold is dictated by the selected protocol, and
 - wherein the individual medical therapy device takes an action, dictated by the selected protocol.
15. The protocol execution module of claim 14, wherein the individual medical therapy device is an infusion pump.
16. The protocol execution module of claim 15, wherein the action is one of increasing infusion rate of the infusion pump, decreasing infusion rate of the infusion pump, and ceasing infusion.

17. The protocol execution module of claim 14, wherein, responsive to taking the action, the protocol execution module removes the selected protocol such that the selected protocol is no longer associated with the individual medical therapy device and the individual patient monitoring device.

18. A method comprising:
displaying a plurality of protocols;
receiving a selected protocol, the selected protocol associated with an individual medical therapy device, being one of a plurality of medical therapy devices, and associated with an individual patient monitoring device, being one of a plurality of patient monitoring devices;
wherein the individual medical therapy device receives, from the user, a first confirmation of the selected protocol, and
wherein the protocol execution module receives, from the user, a second confirmation of the selected protocol,
such that the protocol execution module executes the selected protocol with the individual medical therapy device.

19. The method of claim 18, wherein the plurality of medical therapy devices includes at least one of an infusion pump, a dialysis or renal failure therapy machine, a respirator, and a defibrillators.

20. The method of claim 18, wherein the plurality of patient monitoring devices includes at least one of a heart rate sensor, a temperature sensor, a pulse oximetry sensor, a patient weight sensor, a glucose sensor, a respiratory sensor, a blood pressure sensor, a pressure sensor, and a volume-index sensor.