summary is not intended to identify key features of the claimed subject matter, nor is it intended to be used as an aid in determining the scope of the claimed subject matter.

[0005] In various aspects of the present disclosure, multiparameter lead sets including a plurality of monitoring devices (also interchangeably referred to herein as "patient connectors") that may be attached to a patient and electronically communicate with a patient monitor via a cable system are described, in addition to methods of use thereof. The lead sets may include a variety of sensors and/or other devices that are attachable or otherwise connectable to patient to provide health indicators, such as one or more temperature sensors, a plurality of electrodes or electrode connectors configured to selectively mount to electrodes for monitoring the electrical activity of the heart, and/or an SpO_2 or other sensor for monitoring patient blood oxygen saturation levels. The multiparameter lead set may have a single or multiple lead connectors configured be connectable to a single or multiple monitoring stations. The single or multiple connectors may consolidate the connection of multiple monitoring devices and/or leads for use with the single or multiple monitoring stations.

[0005a] In an aspect, the present disclosure refers to a multiparameter leadset with a single patient plug having a plurality of monitoring contacts and configured to interface with a monitoring device for monitoring a plurality of health indicators of a patient, the multiparameter leadset comprising:

a first patient lead for electrocardiogram (ECG) monitoring, the first patient lead extending between a first lead distal end and a first lead proximal end, wherein the first lead distal end comprises a plurality of ECG leads that are configured to be attached to the patient, and the first lead proximal end includes at least a first monitoring contact;

a second patient lead for monitoring a second health indicator of a patient with a second monitoring contact at the second lead proximal end and a second health indicator connector that is configured to be connected to a second health indicator monitoring sensor; and

a third patient lead for monitoring a third health indicator of a patient with a third monitoring contact at the third lead proximal end and a third health indictor connector that is configured to be connected to third health indicator monitoring sensor, wherein the second health indicator connector and the third health indicator connector are configured to be removably connected to one another via an interconnection feature and wherein the single patient plug comprises at least one of a flat style connector or printed circuit board (PCB) (card edge) or a flat style connector or PCB receiving input device interface with the plurality of monitoring contacts, and wherein the single patient plug is configured to interface with a monitoring device through the single monitor plug which connects to the monitoring device through a multiparameter input device.

[0006] In one example of the present disclosure, a multiparameter lead set is disclosed. The multiparameter lead set may include a first patient lead for monitoring a first health indicator of a patient, the first patient lead extending between a first lead distal end and a first lead proximal end. The first patient lead may further include a first patient connector at the first lead distal end that is configured to be attached to a patient for monitoring the first health indicator of the patient and a first lead connector at the first lead proximal end. The first patient lead may further include a first lead interconnection feature. The multiparameter lead set may further include a second patient lead for monitoring a second health indicator of the patient, the second patient lead extending between a second lead distal end and a second lead proximal end. The second patient connector at the second lead distal end may be configured to be attached to the patient for monitoring the second health indicator of the patient; and may be connected to a second lead connector at the second lead proximal end. The second patient lead may further include a second lead interconnection feature, wherein the first lead interconnection feature and the second lead interconnection feature are interconnectable to removably connect a first portion of the first patient lead to a second portion of the second patient lead. For example, the first patent lead may have a series of 3, 5, 6, 10, or 14 ECG patient connectors at a distal end, a first

lead connector at a proximal end; and a first wire or series of wires connecting the ECG patient connectors and the first lead connector. The second patient lead may have a temperature sensor at a distal end, a second lead connector at a proximal end, and a second wire or series of wires connecting the temperature sensor and the second patient connector. In the aforementioned example, at least a section of the first wire and second wire and/or first lead connector and second lead connector include interconnection features allowing for the first patient lead and second patient lead to be connectable/disconnectable from one another.

[0007] In one example of the present disclosure, a method of monitoring at least two health indicators of a patient is disclosed. The method includes connecting a first patient connector of a first patient lead to the patient, wherein the first patient lead is for monitoring a first one of the at least two health indicators of the patient and includes a first lead interconnection feature that is configured to be connectable to and disconnectable from a second patient lead via a first interconnection feature of the first patient lead and a second lead interconnection feature of the second patient lead. The method further includes a step of connecting a second patient connector of the second patient lead to the patient, wherein the second patient lead is for monitoring a second one of the at least two health indicators of the patient. The method further comprises connecting the first lead interconnection feature to the second lead interconnection feature or partially disconnecting the first interconnection feature from the second interconnection feature, and connecting a first lead connector of the first lead and a second lead connector of the second lead to at least one monitoring device.

[0008] In one example of the present disclosure, a method of assembling or reconstructing a multiparameter lead set is disclosed. The lead set comprises a first type of patient lead for monitoring a first health indicator of a patient and a second type of patient lead for monitoring a second health indicator of a patient that is connectable to and disconnectable from the first type of patient lead. The first type of patient lead comprises a first patient connector and a first lead connector and the second type of patient lead comprises a second patient connector and a second lead connector. The method of assembling or reconstructing comprises the steps of: selecting a plurality of leads for the lead set for assembling or reconstructing, wherein the plurality of leads comprises one of the first type of patient lead and one of the second type of patient lead; disconnecting the one of the first type of patient lead and the one of the second