CLAIMS

1. A method to manage flushing of a catheter assembly, the method comprising:

providing a clamp for a fluid tube, wherein the fluid tube is configured to couple to a catheter assembly, wherein the clamp comprises a sensor configured to detect the clamp is closed;

in response to the sensor detecting the clamp is closed, starting a timer; 11,

in response to the timer reaching a predetermined duration of time, providing an alert; and

in response to the timer reaching another predetermined duration of time, providing another alert, wherein the other predetermined duration of time is greater than the predetermined duration of time and corresponds to a time to flush the catheter assembly.

2. The method of claim 1, wherein providing the alert comprises transmitting an alert signal over a network to a monitoring device, wherein the alert signal indicates to the monitoring device to provide the alert.

3. The method of claim 1, wherein the alert comprises a sound, a tactile vibration, or a visual cue.

4. The method of claim 1, further comprising providing an indication in an electronic health record of a patient in response to the sensor detecting the clamp is closed.

5. The method of claim 1, wherein the sensor is further configured to detect the clamp is open, further comprising in response to the sensor detecting the clamp is open for another predetermined duration of time, stopping or resetting the timer.

6. The method of claim 5, further comprising in response to the sensor detecting the clamp is open for the other predetermined duration of time, transmitting another alert signal over a network to ~~the~~a monitoring device, wherein the other alert signal indicates to the monitoring device to stop the alert or provide another alert.

7. The method of claim 6, further comprising providing an indication in an electronic health record of a patient in response to the sensor detecting the clamp is open for the other predetermined duration of time.

8. The method of claim 1, further comprising providing an indication in an electronic health record of a patient in response to the timer reaching the predetermined duration of time.

9. The method of claim 1, wherein the alert comprises a sound emanating from the clamp or a change in status of a light coupled to the clamp.

~~10. The method of claim 1, further comprising in response to the timer reaching another predetermined duration of time, providing another alert.~~

~~11.~~10. The method of claim ~~10~~1, wherein the other predetermined duration of time is ~~greater than the predetermined duration of time and corresponds to a time to flush the catheter assembly, wherein the other predetermined duration of time is~~ between ~~about~~ six hours and ~~about~~ eight hours.

~~12. A method to manage flushing of a catheter assembly, the method comprising:~~

~~closing a clamp disposed on a fluid tube, wherein the clamp comprises a sensor configured to detect the clamp is closed, wherein a timer starts in response to the sensor detecting the clamp is closed; and~~

~~in response to an alert, opening the clamp and flushing a catheter assembly through the fluid tube, wherein the alert is provided in response to the timer reaching a predetermined duration of time.~~

~~13. The method of claim 12, wherein the alert comprises a sound, tactile vibration, or a visual cue.~~

~~14. The method of claim 12, wherein the alert comprises a sound emanating from the clamp or a change in status of a light coupled to the clamp.~~

~~15. The method of claim 12, wherein the alert is provided in response to transmission of an alert signal over a network to a monitoring device.~~

~~16.~~11. A method to manage flushing of a catheter assembly, the method comprising:

providing a clamp for a fluid tube, wherein the fluid tube is configured to couple to a catheter assembly, wherein the clamp comprises a first sensor configured to detect the clamp is open or the clamp is closed;

providing a second sensor configured to detect fluid flowing through the fluid tube;

in response to the first sensor detecting the clamp is open and the second sensor detecting fluid flowing through the fluid tube, stopping or resetting a timer, wherein the clamp is configured to provide an alert in response to the timer reaching a predetermined duration of time.

~~17.~~12. The method of claim ~~16~~11, wherein the second sensor comprises a flow sensor.

~~18.~~13. The method of claim ~~16~~11, further comprising in response to the first sensor detecting the clamp is closed, starting the timer.

~~19.~~14. The method of claim ~~16~~11, wherein the alert comprises a sound, tactile vibration, or a visual cue.

~~20.~~15. The method of claim ~~16~~11, further comprising providing an indication in an electronic health record of a patient in response to the first sensor detecting the clamp is open and the second sensor detecting fluid flowing through the fluid tube.