health care staff and administrators to automatically monitor performance and compliance. Further, it can be beneficial to have a hand hygiene compliance solution that permits administrators to capture and use knowledge in real-time to implement more efficient hand hygiene protocols, and alert health care workers of their hand washing activities. Still further, it can be a benefit to have a hand hygiene compliance solution based on improvement methodology, such as lean and six sigma process improvement methods, to continually decreases incidences of HAIs.

SUMMARY OF INVENTION

[0024] In aspects of the present invention, there are provided systems and methods for controlling hand hygiene compliance in health care environments. In an aspect, hand hygiene compliance event data is received from one or more sensors associated with hand hygiene instruments communicating with identification tags. The rate of hand hygiene compliance is determined by comparing the hand hygiene compliance event data to target compliance rates and then determining one or more root causes associated with the rates of hand hygiene compliance that fall below the target compliance rates. Following root cause(s) determination, one or more hand hygiene solutions are identified as associated with the identified root cause(s), and provides these solution(s) to relevant health care worker(s).

[0024A] In one aspect there is provided a system for controlling hand hygiene compliance in a health care environment, comprising:

at least one computer; and

a non-transitory computer-readable medium coupled to the at least one computers having instructions stored thereron which, when executed by the at least one computer, cause the at least one computer to perform operations comprising:

receiving hand hygiene compliance event data from at least one sensor associated with hand hygiene instruments in communication with an identification tag;

determining a rate of hand hygiene compliance by assessing the hand hygiene compliance event data against a target compliance rate;

determining at least one root cause associated with any rate of hand hygiene compliance determined as less than the target compliance rate;

determining at least one hand hygiene solution associated with each of the at least one root cause; and

providing the at least one hand hygiene solution to a health care worker associated with the health care environment.

[0024B] In another aspect there is provided a computer implemented method for controlling hand hygiene compliance in a health care environment, comprising the steps of:

receiving hand hygiene compliance event data from at least one sensor associated with hand hygiene instruments in communication with an identification tag;

determining a rate of hand hygiene compliance by assessing the hand hygiene compliance event data against a target compliance rate;

determining at least one root cause associated with any rate of hand hygiene compliance determined as less than the target compliance rate;

determining at least one hand hygiene solution associated with each of the at least one root cause; and

providing the at least one hand hygiene solution to a health care worker associated with the health care environment.

[0025] The determining of hand hygiene compliance rates may be based on particular locations identified as being contaminated. The provision of solution(s) to relevant health care workers may be by alerts such as audiovisual warnings or messages to communication terminals of health care worker when