CLAIMS

1. A system for obtaining data associated with an injury comprising:

an information system operable to store information relating to the injury;

at least one sensor operable to sense the injury; and

a device operable to control the sensor, obtain sensing data from the sensor, and display the data associated with the injury based on the sensing data, the data including at least one of an injury image, information such as size, colour, location and temperature, and clinical information associated with the injury;

wherein the information relating to the injury is used for controlling the sensor to obtain the sensing data of a characteristic of the injury; and

wherein the device is operable to generate interactive information of the injury using the information relating to the injury and the sensing data, and display the interactive information with the injury image, the interactive information comprising machine intelligence generated treatment suggestions.

2. The system according to claim 1, wherein the device is operable to set a sensing parameter using the information relating to the injury to operate the sensor.

3. The system according to claim 1, wherein the device is operable to receive a first input on the injury image or the interactive information from a first user, and modify or add the interactive information based on the first input.

4. The system according to claim 3 further comprising a remote device operable to receive the modified or added interactive information, receive a second input on the injury

image or the received interactive information from a second user, and modify or add the received interactive information based on the second input.

5. The system according to claim 4, wherein the modified or added interactive information based on the second input is stored on the information system for future use.

6. The system according to claim 5, wherein the first input and the second input comprises at least one of a touch input, key input, gesture input and voice input.

7. The system according to claim 1, wherein the device is operable to generate 3D reconstructed information using 3D information acquired by at least one 3D imaging sensor, and display the 3D reconstructed information with at least one of the injury image, an anatomy image and the interactive information.

8. The system according to claim 1, wherein the device is operable to toggle at least one of the interactive information and the injury image, based on the users' input.

9. The system according to claim 8, wherein the device is operable to display the interactive information overlaying on the injury image in a mixed reality format.

10. The system according to claim 8, wherein the device is operable to display the interactive information beside the injury image.

11. The system according to claim 8, wherein the device is operable to display a historical trend of the injury.

12. The system according to claim 11, wherein a previous injury image is overlapped with a current injury image.

13. The system according to claim 1, wherein the suggestions include description of the injury and information of medical supplies for the injury.

14. The system according to claim 1, wherein the information system comprises at least one of a local database and a remote database.

15. The system according to claim 1, wherein the information stored on the information system comprises at least one of the following information: injury information, patient information, environment information, medication product information and algorithms for machine intelligence.

16. The system according to claim 1, wherein the sensor is installed in the device.

17. The system according to claim 1, wherein the device comprises a first device and a second device,

the sensor is installed in the first device,

the first device is operable to control the sensor using the information relating to the injury, and

the second device is operable to obtain the sensing data from the first device, display the data associated with the injury based on the sensing data, generate the

interactive information of the injury using the information relating to the injury and the sensing data, and display the interactive information with the data associated with the injury.

18. A method for obtaining data associated with an injury comprising:

storing information relating to the injury in an information system;

sensing, by at least one sensor, the injury;

controlling, by a device, the sensor;

obtaining, at the device, sensing data from the sensor; and

displaying, on the device, the data associated with the injury based on the sensing data, the data including at least one of an injury image, information such as size, colour, location and temperature, and clinical information associated with the injury;

generating, by the device, interactive information of the injury using the information relating to the injury and the sensing data; and

displaying, on the device, the interactive information with the injury image;

wherein the interactive information comprises machine intelligence generated suggestions; and

wherein the information relating to the injury is used for controlling the sensor to obtain the sensing data of a characteristic of the injury.

19. The method according to claim 18 further comprises a step of:

setting, by the device, a sensing parameter using the information relating to the injury to operate the sensor.

20. The method according to claim 18 further comprises steps of:

receiving, by the device, a first input on the injury image or the interactive information from a first user; and

modifying or adding, by the device, the interactive information based on the first input.

21. The method according to claim 20 further comprises steps of:

receiving, by a remote device, the modified or added interactive information;

receiving, by the remote device, a second input on the injury image or the received interactive information from a second user; and

modifying or adding, by the remote device, the received interactive information based on the second input.

22. The method according to claim 21, wherein the modified or added interactive information based on the second input is stored on the information system for future use.

23. The method according to claim 21, wherein the first input and the second input comprises at least one of a touch input, key input, gesture input and voice input.

24. The method according to claim 18, wherein the device is operable to generate 3D reconstructed information using 3D information acquired by at least one 3D imaging sensor, and display the 3D reconstructed information with at least one of the injury image, an anatomy image and the interactive information.

25. The method according to claim 18, wherein the device is operable to toggle at least one of the interactive information and the injury image, based on the users' input.

26. The method according to claim 25, wherein the device is operable to display the interactive information overlaying on the injury image in a mixed reality format.

27. The method according to claim 25, wherein the device is operable to display the interactive information beside the injury image.

28. The method according to claim 25, wherein the device is operable to display a historical trend of the injury.

29. The method according to claim 28, wherein a previous injury image is overlapped with a current injury image.

30. The method according to claim 18, wherein the suggestions include description of the injury and information of medical supplies for the injury.

31. The method according to claim 18, wherein the information system comprises at least one of a local database and a remote database.

32. The method according to claim 18, wherein the information stored on the information system comprises at least one of the following information: injury information, patient information, environment information, medication product information and algorithms for machine intelligence.

33. The method according to claim 18, wherein the sensor is installed in the device.

34. The method according to claim 18, wherein the device comprises a first device and a second device,

the sensor is installed in the first device,

the first device is operable to control the sensor using the information relating to the injury, and

the second device is operable to obtain the sensing data from the first device, display the data associated with the injury based on the sensing data, generate the interactive information of the injury using the information relating to the injury and the sensing data, and display the interactive information with the data associated with the injury.