CLAIMS

1. A system for detecting a stroke event in a person, the system comprising:

a first device configured to monitor a first skin surface of a person, said first device configured to track a left side of the person, said first device comprising:

a first thermal stimulus source in thermal communication with the first skin surface, wherein the first thermal stimulus source comprises a first surface area extending on a first body surface of the first device, and wherein the first body surface is configured to contact the first skin surface, and

a first skin temperature sensor configured to measure a first temperature of the first skin surface, wherein the first skin temperature sensor is positioned in a first opening enclosed by the first surface area; and

a second device configured to monitor a second skin surface of the person, said second device configured to track a right side of the person, said second device comprising:

a second thermal stimulus source in thermal communication with the second skin surface, wherein the second thermal stimulus source comprises a second surface area extending on a second body surface of the second device, and wherein the second body surface is configured to contact the second skin surface, and

a second skin temperature sensor configured to measure a second temperature of the second skin surface, wherein the second skin temperature sensor is positioned in a second opening enclosed by the second surface area.

2. The system of Claim 1, further comprising one or more hardware processors communicatively coupled to the first and second devices configured to detect a stroke event based on a temperature asymmetry determination responsive to measurements from the first skin temperature sensor and the second skin temperature sensor.

3. The system of Claim 1, wherein the first device and the second device comprise imagers or cameras for assessing a facial region of the person.

4. The system of Claim 1, wherein the first thermal source is positioned concentrically about one or both of the first blood volume sensor and the first skin temperature sensor.

5. The system of Claim 1, wherein the first device further comprise an optical sensor configured to monitor the blood flow.

6. The system of Claim 1, wherein the first device further comprises an array of indicators configured to measure a bodily fluid of the person.

7. The system of Claim 1, wherein the first thermal stimulus source and the second thermal stimulus source cycle between the target temperature and a deactivated or off state to maintain a target temperature.

8. The system of Claim 1, wherein the first device and the second device further comprise a port.

9. The system of Claim 8, wherein the port electrically couples the first device and second device to a power source.

10. The system of Claim 8, wherein the port electrically couples the first device and second device to an external or remote computing device.

11. The system of Claim 1, wherein the first device and the second device further comprise a feedback mechanism for alerting the person after the detection of tremors or asymmetrical motion.

12. The system of Claim 1, wherein the first thermal stimulus comprises a printed layer of resistive ink on polyimide file.

13. The system of Claim 1, wherein a support structure exerts pressure on the first thermal stimulus source and the second thermal stimulus source to increase contact or coupling between the first and second thermal stimulus source and the first and second skin surface.

14. A device configured to detect a stroke event in a person, the device comprising:

a thermal stimulus source in thermal communication with a skin surface, wherein the thermal stimulus source comprises a surface area extending on a body surface of the device, and wherein the body surface is configured to contact the skin surface, and

a skin temperature sensor configured to measure a temperature of the skin surface, wherein the skin temperature sensor is positioned in an opening enclosed by the surface area.

15. The device of Claim 14, further comprising a remote computer device communicatively coupled to the device, the device transmitting data to the remote computer device.

16. The device of Claim 14, wherein the remote computing device comprises one of: a laptop, cellular device, a workstation, a server, a desktop computer, a personal digital assistant, a second system or device, or a netbook.

17. The device of Claim 14, further comprising one or more hardware processors communicatively coupled to the device configured to detect a stroke event based on a temperature asymmetry determination responsive to measurements from the skin temperature sensor and a second skin temperature sensor.

18. The device of Claim 14, wherein the device further comprise an optical sensor configured to monitor the blood flow.

19. The device of Claim 14, wherein the device further comprises an array of indicators configured to measure a bodily fluid of the person.

20. The device of Claim 14, wherein the thermal stimulus comprises a printed layer of resistive ink on polyimide file.