

LOW HYDRAULIC RESISTANCE CHANNEL ALONG MERIDIANS

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ABSTRACT

The meridian, also known as “*jīngluò*” in mandarin, is a path through which the life-energy known as “qi” is believed to flow. It is believed that the human body has about 400 acupuncture points and approximately 20 meridians connecting these points.

In modern Chinese medicine study, these meridian points carry a low hydraulic resistance channel along our body. In other words, this means that the meridian lines have a lower skin resistance compared to other parts of the body. This project was designed specially to cater for this function. It is expected to measure the difference in skin resistance and plotting them into graphs for further studies.

The prototype constructed injects current in micro amperes to the body and then samples the voltage of a fixed resistor series with the body’s skin resistance. These readings are then converted into digital values and sent to the computer. After receiving the values, the computer will analyze the values and then plot them into graphs. The graphs are plot based on real-time so that user can see the change in skin resistance. This project can also record all the data to Microsoft Excel so that further studies can be carried out by TCM researches.

Lastly, the project was able to measure and record the changes in skin resistance but however it cannot prove that it is the meridian lines due to the lack of calibration tools in the university.

Keywords: meridian, skin resistance, graph, micro ampere, digital value and real-time.