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## **Heat transfer behavior for lower back of human body using Bian stone therapy**

**Cai Wu**

University of Notre Dame, USA

Guangzhou University of Chinese Medicine, China

**B**ian stone is the earliest known therapeutic instrument in Traditional Chinese Medicine. The Bian stone therapy is used as stone-based equipment to perform massage, heating, and other operations of health care. Bian stone has been applied for treatment of soft tissue injuries, cervical spondylosis, lower back pain, etc. The Bian stone has good thermal conductivity, heat-storing and radiation capability, and high infrared emission rate, which used as acupressure and acupuncture tools to stimulate the circulation of the blood in vessels and to relax muscles and joints of human body. The performance of the heat transfer in the body from the stone has been recognized the important performance efficacy in physiotherapy. Little previous work has been reported on the heat transfer in the body from the stone. In this research, the studies about Bian stone are review, the heat transfer behavior in the human body for lower back using Bian stone therapy is numerically simulated, and the temperature distribution is analyzed. This work lays a solid foundation for the optimisation of the Bian stone therapy.

### **Biography**

Cai Wu is a PhD student at Guangzhou University and a visiting scholar at University of Notre Dame during 2015. Her major is acupuncture in Traditional Chinese Medicine. She has published more than 5 papers in journals and conference papers. She has been serving as an Editorial Board Member of more than 3 books of Chinese Medicine.

[cwu9@nd.edu](mailto:cwu9@nd.edu)

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