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## To assess the effectiveness of acupuncture in acute ischemic stroke patients using three neurologic function test and heart rate variability: A pilot cohort study

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Stroke cause impairment, and also cause care burden and social cost. Patient seeking other therapy for regain their limbs weakness or spasticity, like acupuncture. Although acupuncture in post-stroke patient can relieve some function, but there is still controversial in conclusion. In acupuncture group, patients received three times a week, 2 weeks with total 6 times body acupuncture (7 sets acupoints) treatment. Data was collected by evaluation 3 neurologic deficit score or activity functional score (NIHSS, BI, mRS) before and 4, 8, 12 weeks after the intervention. HRV data were collected before and after each acupuncture interventions in acupuncture group. We enrolled 56 subjects. The results (1) In the measurement of 3 neurologic score (NIHSS, BI, mRS), there were no significant in NIHSS score in baseline, and has significant improvement in NIHSS score in control group since the 2<sup>nd</sup> day, and keep significant in the 3<sup>rd</sup> day, 7<sup>th</sup> day, 14<sup>th</sup> day and the 21<sup>th</sup> day, than back to no significant improvement in NIHSS score comparing acupuncture and control groups in the 28<sup>th</sup> day, the 56<sup>th</sup> day and the 84<sup>th</sup> day. There were no significant improvements in BI and mRS scores comparing acupuncture and control group in all comparing days. We noted the worsening of NIHSS score within 3 days in acupuncture group, and returned to no difference with control group in 4 weeks later, it is a indirect evidence that a trend of improving neurologic deficit (NIHSS score) after acupuncture treatment compare to control group.

### Biography

Chaonan Yang has completed his Master's degree from Graduate Institute of Integrated Medicine, China Medical University, Taiwan, ROC. He is currently the attending physician of neurology, in China medical University Hospital, Taipei branch.

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