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The effect of electroacupuncture preconditioning on regional cerebral oxygen saturation levels in elderly patients with diabetes**Lingling Ding***Department of Anesthesiology, China*

Elderly with diabetes have a greater risk of dementia than the general population. One of the important pathophysiological basis is cerebral microangiopathy, in which hypoxic ischemic injury occurs due to decreased cerebral blood flow or hypoperfusion. Regional cerebral oxygen saturation (rSO₂) monitoring is a new non-invasive method to monitor cerebral oxygen supply and perfusion. By detecting the intensity of incident and transmitted light, the concentration of cerebral oxygenated hemoglobin and deoxygenated hemoglobin can be calculated. According to the change of oxygen saturation, oxygenated hemoglobin and deoxygenated hemoglobin, the cerebral blood flow and volume can be calculated, which can reflect the cerebral perfusion and cerebral oxygen supply and demand situation immediately, continuously and accurately. Our previous study found that the baseline values of rSO₂ in diabetic patients were lower, suggesting that the brain tissue of diabetic patients was in a hypoxic state. Acupuncture and moxibustion has unique advantages in the treatment of cognitive dysfunction. DU20 (Baihui), DU24 (Shenting), and EX-HN1 (Sishencong) are essential acupoints for the treatment of mental diseases, which have the functions of Tongdu regulating the spirit, awakening the brain, and play a role in strengthening the brain blood metabolism and circulation, and improving the brain dysfunction. Whether acupuncture can affect cerebral oxygen saturation and improve cognitive function in elderly diabetic patients remains to be studied. In this study, DU20, DU24, and EX-HN1 were selected to perform acupuncture intervention on elderly diabetic patients undergoing surgery, and it was found that acupuncture can improve rSO₂ in elderly diabetic patients. (Up to 250 words)

Biography

Ding Lingling is committed to the use of needle and drug balance anesthesia for perioperative cerebral protection, and focuses on the research of brain function protection in elderly patients, diabetic patients and patients who need more attention in preoperative debilitation or pre-debilitation, forming a clinical diagnosis and treatment plan with outstanding advantages and accurate efficacy, and improving the quality of life after surgery of patients. She has published more than 20 papers in reputed journals and has been serving as an editorial board member of repute.