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Contribution of nitric oxide in initiation of cortical spreading depression in ischemic strokeMilad Ahmadi¹, Sepideh Amiri² and Ali Karimi Godarzi¹¹Islamic Azad University, Karaj Branch, Iran²Institute for Cognitive Sciences Studies, Iran

Nitric oxide (NO), the most convincing gaseous signalling molecule in vertebrates, was increasingly recognized as one of the most versatile and unique molecules mediating such diverse physiological functions as the maintenance of vascular tone, thrombotic-thrombolytic homeostasis, cell growth, and inflammation. The aim of the current study is to indicate the role of NO in propagation of cortical spreading depression (CSD) ischemic model. In ECoG analysis after administration of L-NAME (NO antagonist, doses 50, 100 µg/kg) and L-arginine (NO agonist 50/100 µg/kg) initiation and propagation of CSD-like wave was investigated. CSD-like wave in ischemic Wistar rat's cortical brains was presented after injection of KCl (15 µg/kg). Based on this result, NO agonistics may initiate the propagation and initiation of CSD waves in stroke.

Biography

Milad Ahmadi has his expertise in the area of Spreading Depression and Social Isolation in basic and clinical research. He has 4 years of experience in research, evaluation, teaching and administration both in hospital and education institutions. He is reviewer of *Medical Hypothesis* Journal and is a member of Basic and Clinical Neuroscience society in Iran. He is elected as Best Researcher in Islamic Azad University. He won grant to carry out research as Young Investigator from International Headache Society thrice. He also won grant from 2nd Taiwan International Congress of Parkinson's Disease and Movement Disorders.

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