

Journal of Neurology and Neuroscience

Vol.0 No.0

Interaction between brain and heart in cardiac surgery patients

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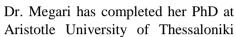
Abstract

 $\mathbf{P}_{\text{ostoperative cognitive dysfunction (POCD) refers to}$ impairment in one or more cognitive functions including memory, and learning, attention, orientation, decision making that affect every day functioning and quality of life, following surgery. It is more evident after cardiac rather than non-cardiac surgery and the use of extracorporeal circulation (ECC) in heart surgery enhances this phenomenon. We examined 60 patients with coronary artery disease, (Group A- patients) who underwent coronary artery bypass grafting and compared them with 60 healthy adults (Group B- healthy) with a series of neuropsychological tests before surgery, prior to discharge and at 3-month follow-up. The assessment included measures of attention and concentration, verbal working memory, executive functioning, learning, short-term and long-term memory, and visuospatial perception, speed of information processing, anxiety, depression and quality of life. Despite the similar preoperative performance of both groups, Group B outperformed those on Group A on most of the neuropsychological domains at immediate followverbal working memory(p=0.001), short-term (p=0.008) and long-term memory (p=0.000), executive (p=0.04),attention and concentration functioning (p=0.000), and visuospatial perception (p=0.03). In contrast, Group A showed similar performance on most of the neuropsychological domains, 3 months after surgery. Who have impaired cognitive functions immediately after surgery compared to healthy? This may be of particular importance for the patients who undergo cardiac surgery.



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Biography:





and she is postdoctoral researcher at the School of Psychology. She is an experienced psychologist working in the hospital & health care industry. Skilled in Clinical Neuropsychology, Clinical Research and Learning Disabilities. She attended further education from University of Macedonia, in people with special needs and disabilities. She holds undergraduate degrees in Nursing and Psychology, as well as a Masters in Neuropsychology from Aristotle University of Thessaloniki. She has many years of experience working with chronic disease patients as well with people with disabilities. She is postdoctoral researcher and has published more than 10 research articles in journals.

26th World Congress on Neurology and Neurodisorders, 2020 August 26-27, 2020

Abstract Citation:

Kalliopi Megari, Interaction between brain and heart in cardiac surgery patients; Neurodisorders Congress 2020, 26th World congress on Neurology and Neurodisorders; August 26-27, 2020