

2nd International Conference on

Brain Disorders and Therapeutics

Chicago, USA October 26-28, 2016

SEEG in preoperative assessment and treatment of patients with refractory epilepsy - Croatian experience

Silvio Basic

University Hospital Dubrava, Croatia

University of J J Strossmayer School of Medicine, Croatia

Stereoencephalography (SEEG) is methodology in preoperative invasive monitoring of drug-resistant epilepsy patients with almost 60 years of clinical use. It is an established technique in Europe, especially in France in Italy, and it has been rapidly accepted as favourable preoperative method in huge number of epilepsy centres around the world, including USA and Canada. It enables tailored individualized surgical excision based on precise localization of the epileptogenic zones, especially those localized in deep cortical structures. Its main advantage is precise epileptogenic zone detection with minimally invasive approach, especially in cases when bilateral explorations are needed. Additional advantage of this technique is a possibility of intervention by using temporarily implanted depth electrodes. SEEG guided radiofrequency thermocoagulation is a treatment option for patients with drug-resistant focal epilepsy. By using implanted depth electrodes for invasive monitoring and epileptogenic zone detection, it is, at the same time, possible to perform thermolesions of the epileptic foci avoiding craniotomy and standard neurosurgical procedures. Croatian experience with SEEG in preoperative assessment and as a treatment option in patients with drug-resistant epilepsy will be presented.

Biography

Silvio Basic earned his medical degree at the Zagreb University Medical School in 1995 and obtained PhD degree in 2006. He works at the University hospital Dubrava in Zagreb as the Deputy Director, Head of the Department of Neurology and as the Head of the Referral Centre of Croatian Ministry of Health for Preoperative Assessment of Patients with Pharmacoresistant Epilepsy. His primary field of interest is epilepsy management, especially management of patients with drug-resistant epilepsy using minimally invasive diagnostic and surgical procedures. He is the author of many scientific papers and articles with more than 150 citations.

sbasic@kbd.hr

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