

P-1127 - MINIMAL INVASIVE PSYCHOSURGERY TECHNIQUE FOR AUTISM PATIENTS

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Introduction: Investigations of cerebral blood flow (CBF) using SPECT for decades revealed hypoperfusion/ischemia in different part of the Brain in many psychiatric patients, including Autists. Studies were of purely academic interest of the scientists without exit into practice.

Objectives: We study and underwent neurosurgery 4 patients with autism diagnosis, which earlier has been confirmed by psychiatrists. All patients male, age 3,4- 6 years old. Relatives of patients signed agreements with Clinic and gave free-will informed consent to the offered cure.

Aims: Create minimal invasive psychoneurosurgery method for treatment Autism.

Methods: Patients (except those with hyperactivity) examined by Transcranial Doppler Ultrasound (TCD) of middle cerebral arteries (MCA) on both sides. In pre-surgery period TCD showed ischemical disturbances of blood flow velocity and Gosling Pulse Index. We create and patented "Method For Treating Brain Ischemia" (patent RF 2312618; patent US11/955,087). Method need not in trepanation and absence any manipulation on brain tissue. Treatment consists in intensification of arterial blood flow due to single-stage sequential ligation of all branches of external carotid artery for redirection blood flow in internal carotid artery system.

Results: In post surgery period we seen restoration of TCD values on MCA in both sides with initials dopplerographics signs of postischemic hyperperfusion. During 3-8 month and more, till 3-6 years, we seen good positive psychoneurological dynamics. Not observed any seriously complications and lethal cases. Catamnesis was followed up 1,5 to 6 years.

Conclusions: We support ischemia signs of CBF in Autists is closely related to pathophysiology, course and outcome of disease. Revascularisation of the Brain by our method showed significant improvement of clinical status and regress TCD values till normal.