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# NEUROPHARMACOLOGY

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## Tanakan (EGb 761®): New therapeutic possibilities in neurorehabilitation

Saule T Turuspekova  
KazNMU, Kazakhstan

**Background:** There is an opinion that an insufficient level of external magnetic effect in terms of the degree of harm to the body can fully compete with a deficiency of minerals and vitamins, a prolonged stay in a weakened magnetic field of the earth has a depressing effect on the central nervous system. Recently, more and more attention of researchers has been attracted to the neurostimulating effect of pulsed magnetic fields, in particular transcranial magnetic stimulation.

**Objective:** To evaluate effectiveness of ion-reflex induction magnetophonophoresis session using extract of ginkgo biloba (Tanakan (EGb 761®)) in rehabilitation of patients with ischemic stroke in the early recovery period.

**Materials & Methods:** 72 patients were supervised with ischemic stroke. The bioelectric activity of the cerebral cortex (EEG) was studied. There were mini mental state examination (MMSE), the montreal cognitive assessment scale (MoCA), and Barthel ADL index. Quality of life was assessed by questionnaire rivermead. Under observation were 3 groups: 1st- 49 patients who received an extra ion-reflex induction magnetophonophoresis sessions using extract of ginkgo biloba (Tanakan (EGb 761®)) by applying head's fronto occipital longitudinal galvanization techniques were conducted. 2<sup>nd</sup>- 23 patients treated with protocol formed without sessions, 3<sup>rd</sup>-25 healthy volunteers aged 21 to 70 years.

**Results:** Sessions of ion-reflex induction magnetophonophoresis using extract of ginkgo biloba (Tanakan (EGb 761®)) longitudinal methods fronto-occipital head galvanizing can achieve more significant results. There was a significant positive dynamics of cognitive functions according to the MoCA test in the intervention group (from 20.0±2.3 to 26.8±2.3 points) compared with controls (20.2±2.1-23.2±2.1). The MMSE was not informative. Barthel index rose by 10 points, rivermead-15, respectively, in the 2<sup>nd</sup> - without dynamic. The EEG noted a decrease in inter hemispheric asymmetry of the  $\alpha$ -rhythm in amplitude by 30-55% in 95% of patients, reducing the severity of slow-wave shifts by 30-40%. Expression and modulation of  $\alpha$ -rhythm improved in 90% of cases. In dynamics, the slow wave activity decreased in 85% of patients.

**Conclusions:** The research's indicators' dynamics shows positive impact of ion-reflex induction magnetophonophoresis sessions using extract of ginkgo biloba (Tanakan (EGb 761®)) by applying head's frontooccipital longitudinal galvanization techniques in rehabilitation of patients with ischemic stroke in the early recovery period.

### Biography

Saule T Turuspekova is a PhD Neurologist of highest category, Professor of the Department of Neurology and Neurosurgery of KazNMU. She has over 130 scientific papers which were presented at international conferences in many countries. She has received state scholarship for talented young scientists of the Ministry of Science of the Republic of Kazakhstan. She is the Coordinator of the Russian Youth Academy of Sciences (Samara) 2015. She is the Personal Physician of the Kazakhstan astronaut Aydin Aimbetov.

doctorsaule@mail.ru

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