

Proceedings of

10<sup>th</sup> Global Summit on  
**Neuroscience and Neuroimmunology**

&

Global Summit on  
**Advances in Pediatrics and Pediatric Neurology**

February 19-20, 2020 | Paris, France

**Collaborators**

**FENS** | Federation of  
European  
Neuroscience  
Societies



**Hosting Organization: Pulsus**

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# Scientific Program

Registrations

08:00- 08:30

# PULSUS

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## Opening Ceremony

08:30- 08:55

**Day 1 : February 19, 2020**

**Hall: Oxygene**

**08:55-09:00 Introduction**

**Keynote Forum**

**09:00-09:40**

**Title: Presentation of three scientific theories on the behavioral differentiations between the real and the virtual**

**Nadine Touzeau**, Net-profiler, France

**09:40-10:20**

**Title: Myasthenia gravis: Neurochemical and neuroimmunological bases of new therapeutic approach**

**Eduardo Jahn**, Universidad Central de Venezuela, Venezuela

**Group Photo**

Refreshments and Networking Break 10:20-10:40 @ Foyer

Neuroscience | Neurology | Neuroimmunology | Pediatric Neurology | Neurophysiology | Pediatric Healthcare | Neuroinfections and Neuroinflammation | Neuropharmacology | Pediatrics

Session Chair: Albert Mensah, Mensah Medical, USA

Session Co-Chair: Nadine Touzeau, Net-profiler, France

**10:40-11:10 Title: Influence of interferon beta-1a on neurons of central nervous system and immune organs after initiation of demyelination and remyelination**

**Nataliia O Melnyk**, National O.O.Bogomolets medical university, Ukraine

**11:10-11:40 Title: Muscle atrophy in women with chronic alcoholic myopathy**

**Olga E Zinovyeva**, Sechenov First State Medical University, Russian Federation

**Day 2 : February 20, 2020**

**Hall: Oxygene**

**Keynote Forum**

**09:00-09:40**

**Title: Approaches to immunomodulation in relapsing multiple sclerosis**

**Alexey Boyko**, Russian National Research Medical University, Russian Federation

**09:40-10:20**

**Title: Nutrient imbalances versus mental health - A New, all-Natural paradigm: Test - Treat - Improve**

**Albert Mensah**, Mensah Medical, USA

**Refreshments and Networking Break 10:20-10:40 @ Foyer**

**Neurosurgery | Neuroimmunology | Pediatric Diagnosis and Treatment | Neuropsychiatry and Behavioural Science | Neurogenetic and Neurometabolic Disorders | Brain and Neurological Disorders | Neurogenesis and Gliogenesis | Neurotherapeutics, Diagnostics and Case Studies**

**Session Chair: Michael R Yeaman**, David Geffen School of Medicine at UCLA, USA

**Session Co-Chair: Nadine Touzeau**, Net-profiler, France

**10:40-11:10 Title: The situation of patients and the medical health care in future**

**Elisabeth TM van der Gulik**, Radboud University, The Netherlands

**11:10-11:40 Title: Preventing ZIKV-induced microcephaly: The pros and cons of classic and newly developed drugs**

**Fabiola M Ribeiro**, Universidade Federal de Minas Gerais, Brazil

**11:40-12:10 Title: Co-occurrence of multiple sclerosis and myasthenia gravis: A case report and review of immunological theories**

**Sara Dehbashi**, Thomas Jefferson University, USA

**12:10-12:40 Title: Improvement of rehabilitation activities in treatment of post-injection mono-neuropathies in children**

**Zohidjon Nurmanovich Ismailov**, Republic Children's Rehabilitation Centre, Uzbekistan

**13:40-14:10 Title: The study of antinociceptive tolerance to cannabinoids microinjected into central nucleus of amygdala in rheumatoid arthritis model of rats**

**Nana Tsiklauri**, Beritashvili Center of Experimental Biomedicine, Georgia

**Lunch Break 13:10-14:10**

**14:10-14:40 Title: The phenomenal story of neuromyelitis optica spectrum disorder: Neurological autoimmune mystery to functional cure at the speed of life**

**Michael R Yeaman**, David Geffen School of Medicine at UCLA, USA

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**Improvement of rehabilitation activities in treatment of post-injection mono-neuropathies in children**

**Zohidjon Nurmanovich Ismailov**

Republic Children's Rehabilitation Centre, Uzbekistan

The aim of our research was to improve rehabilitation measures in children with a disease of the neuro-motor sphere. To conduct research, 100 children aged 3 to 18 years who were in stationary and outpatient areas in the Republican Children's Rehabilitation Center were examined. Tashkent. Rem-Ex created on the Android platform.

**Relevance:** Among the diseases of the peripheral nervous system in children accompanied by pain syndromes, post injection mononeuropathies of the lower extremities are most prevalent, with trauma of the peripheral nerves in children in second place. The prevalence of diseases of the peripheral nervous system (PNS) in children and adolescents under the age of 14 in Uzbekistan is 140 cases per 100,000 population, the primary incidence is 64 per 100 thousand population

Therefore, the question of modern principles of rehabilitation of children with diseases of the neuromotor sphere is acute, since step-by-step rehabilitation methods have not been developed and this issue is still relevant today.

**Objective:** The aim of our study was to improve rehabilitation measures in children with diseases of the neuromotor system.

**Materials and methods:** For the study, we examined 100 children aged 3 to 18 years who were inpatient and outpatient treatment at the Republican Children's Rehabilitation Center for Diseases of the Musculoskeletal System of Tashkent. Of the 100 children examined, 80 practically healthy children with various types of neuropathy from the use of NSAIDs (injections), 10 children with neuropathies as a result of prolonged use of orthoses, 10-monoparesis of the lower extremities of various etiologies.

Depending on the treatment methods used, all patients were divided into groups (table 1).

Table 1. The division into groups depending on the methods of treatment used (n = 100).

Groups	Quantity and age	Rehabilitation Methods
Basic	36 (36%) children 10,05±0,27	Traditional treatments
Comparison group	64 (64%) children, 9,8±0,25	Developed rehabilitation methods

The comparison group used the mobile application (Rem-Ex) developed by us.

**Results:** The developed software (Rem-Ex) was created on the platform and includes visualization, assessment and step-by-step comprehensive rehabilitation depending on the age of the child and individual gender differences. According to a neurological examination, statistically significant results were obtained: in 57.3 ± 4.0% of children, tremor of the lower extremities was stopped (p≤0.05); the number of children with no restrictions on manual functions in the main group was 61.6 ± 5.8% compared with the control group (21.8 ± 3.4%, p≤0.05). The severity of muscle hypotrophy (feet, legs) decreased in 68.5 ± 7.2% in the main group, compared with the control (24.3 ± 3.8%, p≤0.05). The function of movement

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without assistive devices improved in  $73.2 \pm 8.6\%$  in the main group versus  $42.3 \pm 4.4\%$  ( $p \leq 0.05$ ) in the control group. The frequency of gross movement disorders decreased from  $67.3 \pm 4.5\%$  to  $13.8 \pm 2.4\%$  ( $p \leq 0.05$ ) in the main group versus  $44.6 \pm 3.7\%$  in the control group ( $p \leq 0.05$ ). The ability to stand (walk) on toes was normalized in  $65.7 \pm 7.6\%$  of children ( $p \leq 0.05$ ) compared with the control group ( $34.4 \pm 4.7\%$ ,  $p \leq 0.05$ ). The ability to walk on the heels improved in  $55.2 \pm 6.4\%$  in the main group versus  $29.6 \pm 4.7\%$ ,  $p \leq 0.05$  in the control group. The severity of steppage decreased from  $45.8 \pm 4.9\%$  to  $10.3 \pm 2.4\%$  in the main group versus  $21.6 \pm 4.3\%$  in the control group ( $p \leq 0.05$ ).

**Biography**

Zohidjon Nurmanovich Ismailov is working as pediatric neurologist and chairman of the commission for information communication technology at republic children's rehabilitation center with diseases of bearing –movable system and pediatric neurologist in the international trade and production CITY MED clinic.

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