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Results of the I International Russian–Belarusian Scientific and Practical Conference “Modern Gnathology”

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ABSTRACT

On May 18–19, 2024, the I International Russian–Belarusian scientific and practical conference “modern gnathology” took place in St. Petersburg. The conference was organized by the North-Western State Medical University named after I.I. Mechnikov. Scientists from Russia and Belarus presented on the interdisciplinary interaction of doctors of various fields in the rehabilitation of dental patients. New methods for diagnosing and treating diseases of the temporomandibular joint and masticatory muscles have been proposed.

Keywords: modern gnathology; dentistry; conference.

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Итоги I Международной российско-белорусской научно-практической конференции «Современная гнатология»

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АННОТАЦИЯ

18–19 мая 2024 года в Санкт-Петербурге состоялась I Международная российско-белорусская научно-практическая конференция «Современная гнатология». Конференция организована Северо-Западным государственным медицинским университетом имени И.И. Мечникова и Научным медицинским обществом стоматологов Санкт-Петербурга и Ленинградской области. Прозвучали доклады ученых из России и Беларуси, посвященные междисциплинарному взаимодействию врачей различного профиля на этапах реабилитации стоматологических пациентов. Предложены новые методы диагностики и лечения заболеваний височно-нижнечелюстного сустава и жевательных мышц.

Ключевые слова: современная гнатология; стоматология; конференция.

Как цитировать

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On May 18–19, 2024, the I International Russian-Belarusian Scientific and Practical Conference, entitled “Modern Gnathology,” was held at the Park Inn by Radisson Pribaltyskaya Hotel and Congress Center in St. Petersburg.

The primary objective of the conference was to enhance comprehension of the trajectory of gnathology development in Russia and Belarus and encourage collaboration among medical professionals from diverse specialties during the rehabilitation of patients with dental problems and temporomandibular joint (TMJ) and masticatory muscle disorders.

The conference was organized by the I.I. Mechnikov North-Western State Medical University of the Ministry of Health of the Russian Federation and the Scientific Medical Society of Stomatologists of St. Petersburg and the Leningrad Region. The event was co-founded by the Dental Association of Russia (StAR) and the Belarusian State Medical University.

The conference, entitled “Modern Gnathology,” was conducted face-to-face and online. The event was attended by >250 medical practitioners from St. Petersburg and other cities in Russia and neighboring countries. The conference was accredited in the system of continuing medical education in the following specialties: general dentistry, orthodontics, therapeutic dentistry, pediatric dentistry, surgical dentistry, maxillofacial surgery, and osteopathy. During the meetings, an exhibition of dental materials and equipment was held in the foyer of the hotel.

The conference program was comprehensive and rigorous. The event featured 20 reports prepared by leading specialists in gnathology, orthodontics, maxillofacial surgery, osteopathy, and radiation diagnostics from Russia and Belarus.

A.S. Grishchenkov, Cand. Sci. (Med.), associate professor and head of the Department of Orthodontics and Pediatric Dentistry at the Belarusian State Medical University,

presented two reports. The initial report was dedicated to contemporary algorithms for the diagnosis and treatment of patients with TMJ disorders, delineation of nosological forms, and evolution of methodologies within the context of the revised International Classification of Diseases. The second report introduced a new Belarusian intraoral device for the treatment of patients with snoring and obstructive sleep apnea syndrome.

Issues in the diagnosis and treatment of odontogenic pain syndrome were considered in the “Differential Diagnosis and Treatment of Facial Pain. Odontogenic Pain Syndrome. Stomalgia,” report by N.M. Chechik, Cand. Sci. (Med.), associate professor and head of the Educational Simulation Center of the Republican Clinical Medical Center of the Presidential Administration of the Republic of Belarus.

The report on the “Conceptual Trends of Perio-Orthodontic Treatment” was presented by Y.L. Denisova, Dr. Sci. (Med.), professor of the Periodontology Department of the Belarusian State Medical University.

A.V. Silin, Dr. Sci. (Med.), professor and head of the Department of General Practice Dentistry of the I.I. Mechnikov North-Western State Medical University, reported the “Risk Factors, Diagnosis and Assessment of TMJ Disease Progression.” It was devoted to the risk of development and prognosis of TMJ diseases.

The report on the “Possibilities of Modern Radial Diagnostics and Artificial Intelligence Computer Programs in Detecting Functional TMJ Disorders” was presented by M.A. Chibisova, Dr. Sci. (Med.), professor of the Department of Clinical Dentistry, Y.A. Fedorov Department of Pediatric and Therapeutic Dentistry of the I.I. Mechnikov North-Western State Medical University, Department of Therapeutic Dentistry of the St. Petersburg State University, and Department of Clinical Medicine of the REAVIZ University.



A.N. Ryakhovsky, Dr. Sci. (Med.), professor and consultant of the Orthopedic Dentistry Department of the Central Research Institute of Dentistry and Maxillofacial Surgery, spoke about new approaches to planning reconstructive orthognathic surgeries using digital technologies.

Y.I. Perfiliev, Dr. Sci. (Med.), professor and scientific consultant of CJSC OKB "RITM" reported the "Prevention of Postoperative Complications in Dental Practice with the help of SCENAR device."

R.A. Fadeev, Dr. Sci. (Med.), professor and head of the Department of Orthopedic Dentistry, Orthodontics and Gnathology of the I.I. Mechnikov North-Western State Medical University, head of the Department of Orthodontics of St. Petersburg Institute of Postgraduate Dental Education, professor of the Department of Dentistry of Yaroslav the Wise Novgorod State University, and chief specialist of Romanovsky Medical Center, presented various rehabilitation schemes for patients with TMJ diseases and masticatory muscle parafunctions, including diagnosis, gnathological preparation, orthodontic treatment, and prosthetics in the report titled "Algorithms for Rehabilitation of Patients with TMJ Disorders and Parafunctions of Masticatory Muscles."

D.S. Bulycheva, Cand. Sci. (Med.), orthodontist of the Beauty Institute "Galaxy" reported the complex rehabilitation of patients with dentomandibular anomalies and deformities.

The first day of the conference concluded with a discussion and a question-and-answer session.

A.I. Yaremenko, Dr. Sci. (Med.), professor and president of the Stomatological Association of Russia, and head of the Department of Surgical Dentistry and Maxillofacial Surgery of I.P. Pavlov First St. Petersburg State Medical University opened the second session on May 19, 2024. A.I. Yaremenko

reported the "Characteristics of Diagnosis of Odontalgia and Atypical Facial Pain in Patients with TMJ Pathology" and presented algorithms of diagnosis and differential diagnosis of facial pain in patients with dental problems.

D.E. Mokhov, Dr. Sci. (Med.), professor and chief supernumerary specialist in osteopathy of the Ministry of Health of Russia, head of the Department of Osteopathy of I.I. Mechnikov North-Western State Medical University, director of the Institute of Osteopathy of St. Petersburg State University, and president of the Russian Osteopathic Association, reported the "Violations of Physiological Reflexes, their Correction in Rehabilitation of Dental Patients." The report revealed the importance of research and correction of functional disorders of the tongue, oculomotor, cervical, and vestibulocervical reflexes in the orthodontic and orthopedic rehabilitation of patients.

S.A. Popov, Dr. Sci. (Med.), professor and orthodontist of Dental Polyclinic No. 9 reported the "Uniqueness of Orthodontic Rehabilitation of Patients with TMJ Dysfunction," which devoted to digital planning and application of a progressive approach in the treatment of TMJ dysfunction in patients with orthodontic problems.

T.V. Klimova, D.Sc. (Med.), associate professor of the Department of Orthodontics of the A.I. Evdokimov Moscow State Medical and Dental University, reported the "Normalization of chewing movements in the treatment of patients with muscle-joint dysfunction."

The study "Physiotherapy in Complex Treatment of Diseases of the Maxillofacial Region" was presented by V.V. Kiryanova, Dr. Sci. (Med.), professor of the Department of Physiotherapy, Acad. I.P. Pavlov State Pediatric Medical University.

The professor and head of the Therapeutic Dentistry Department of the Samara State Medical University, M.A. Postnikov, Dr. Sci. (Med.), reported the "Features of Diagnosis and Prosthetics in Children with the Use of Digital Technologies." This report delved into the features of examination and prosthetics of children with adentia and parafunction of masticatory muscles using digital technologies.

In the study titled "Stages of Orthodontic Treatment of Patients with Musculoarticular Dysfunction. The role of Splint Therapy," A.I. Fazliev presented various approaches to the diagnosis and optimization of the treatment of musculoarticular dysfunction.

M.M. Soloviev, Cand. Sci. (Med.), associate professor of the Department of Pediatric Dentistry and Orthodontics of the I.P. Pavlov First St. Petersburg State Medical University, reported the "Evaluation of Diagnostic Significance of CT and Scintigraphy in Unilateral Hyperplasia of the Mandibular Condyle."

A.R. Andreischev, Dr. Sci. (Med.), associate professor of the Department of Surgical Dentistry and Maxillofacial Surgery of the I.P. Pavlov First St. Petersburg State Medical University, reported the "Manipulations with Occlusal Plane. How Does It Work?" This report focused on the possibilities



of correction of the occlusal plane inclination in the sagittal and transversal directions and emphasized changing the level of its vertical position.

In the study, entitled "Prospects and Justification of Measuring Deep and Skin Temperature by Microwave Radio-thermometry for Pathology of Cranial Organs and Tissues," A.V. Tarakanov, Dr. Sci. (Med.), professor and head of the Department of Emergency Medical Care with a Course of Military and Extreme Medicine at Rostov State Medical University, introduced a novel direction in medical technology based on the measurement of the intrinsic electromagnetic radiation of human tissues in the microwave range.

The second day of the conference concluded with a spirited exchange of ideas and three master classes: (1) digital

positioning of the mandible to facilitate optimal occlusion and articulation (A.N. Ryakhovsky), (2) osteopathic techniques in dentistry (D.E. Mokhov and A.D. Chechin), and (3) use of the SCENAR device to alleviate pain symptoms (B.P. Kulizhsky).

According to the participants, the conference "Modern Gnathology" allowed learning about the advanced achievements of science in Russia and Belarus, exchanging opinions, and gaining new knowledge about interdisciplinary approaches to the diagnosis and treatment of TMJ and masticatory muscle diseases.

The conference organizing committee expresses its confidence that such events are an important step toward further development and strengthening of international co-operation.



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