

Report on International Scientific Conference “Filatov Memorial Lecture-2016” dedicated to 140th Birth Anniversary of Academician V.P. Filatov

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International Scientific Conference “Filatov Memorial Lecture-2016” dedicated to 140th Birth Anniversary of Academician V.P. Filatov was held in Odessa on the 21st -22nd of May 2015.

The conference joined together scientists, leading specialists from the regions of Ukraine, ophthalmologists and ophthalmology-related specialists including neonatologists, radiologists, chemotherapists, biologists and etc. 824 delegates participated in the conference of which 808 were from the regions of Ukraine as follows: Odessa - 161; Vinnytsya 37, Volyn- 16, Dnipropetrovsk - 59, Donetsk - 10, Zhytomyr - 15, Zakarpattia - 10, Zaporizhzhya - 35, Ivano-Frankovsk - 33, Kyiv and Kyiv region - 172, Kirovograd - 8, Luhansk - 7, Lviv - 45, Mykolayiv - 22, Poltava - 11, Rivne - 14, Sumy - 16, Ternopil - 13, Kharkiv - 54, Kherson - 18, Khmelnytsk - 18, Cherkasy - 10, Chernigiv - 13, Chernivtsi - 11. Also there were participants from Belarus, Moldova, Georgia, Azerbaijan, Poland, Slovakia, Austria, Peru and the USA.

227 scientific papers by ophthalmologists and related specialists including 92 papers by the Filatov Institute coworkers were published in the Proceedings of the Conference.

Director of Filatov Eye Disease and Tissue Therapy Institute Nataliya Pasychnikova greeted the participants and opened the jubilee conference with a lecture “Keratoplasty: past and future”.

The conference included 7 plenary and 2 section sessions, a poster presentation session, 3 satellite symposia and a round table where the current issues on etiology, pathogenesis, diagnosis, treatment and prophylaxis of eye diseases were discussed. Reports made by prominent and young scientists were dedicated to the most important problems of ophthalmology as follows: corneal pathology, keratoplasty; trauma and burns in the eye; cataract surgery; glaucoma treatment;

eye tumors; organ-preserving treatment; diabetic lesions of the eye and their treatment; vitreoretinal and laser microsurgery for anterior eye segment pathology; pathology of the retina, choroid and optic nerve; pediatric pathology; refraction abnormalities; tissue therapy.

Corneal pathology, keratoplasty and keratoprosthesis were the topic of the first plenary session where Professor Drozhzhina G.I. reported on curative keratoplasty in the rehabilitation of patients with severe inflammatory corneal pathology. Professor Yakimenko S.A. displayed the first results of bioengineered cornea application in “high risk keratoplasty” patients. There were presentations on pterygium treatment improvement and photodynamic therapy for fungal infections of the eye. There was demonstrated a clinical case of corneal erosions and central toxic keratopathy after Lasic. Presentation “Diagnosis and treatment of acanthamoeba keratitis” by Professor Lincoln Lavado Landeo (Lima, Peru) was recognized as the session’s best presentation.

The second plenary session was dedicated to ophthalmooncology including reports on organ-preserving treatment for uveal melanoma patients, radiocryosurgery treatment for recurrent eyelid skin epithelial malignant tumors and epithelial lacrimal gland tumor treatment. The results of radiotherapy in combination with adjuvant selective intra-arterial chemotherapy in the treatment of malignant tumors of the orbit were demonstrated by Professor Maletskii A.P. Professor Bobrova N.F. presented the remote results of retinoblastoma primary combined (local and systemic) polychemotherapy in children.

At the third plenary session there were discussed problems of improving eye care delivery in traumas and burns of the eye. The session’s presentations demonstrated the surgical treatment for patients with big intraocular foreign bodies, primary vitrectomy and perfluoropropane tamponade in postcontusional retinal detachment. Professor Yakimenko S.A. reported on application of keratoxenograft for medical-tectonic

keratoplasty with post-burn corneal ulcers to save the eye and recover the vision by keratoprosthesis.

During the fourth plenary session the problems discussed were related to cataract and glaucoma treatment and included femtosecond laser phacoemulsification in patients with subluxation of the lens; criteria for assessing intraocular toric lens implantation efficacy in patients treated for cataract combined with corneal astigmatism; comparative analysis of the combined surgery for primary open-angle glaucoma and cataract; the experience of EX-PRESS implantation and "ab interno" trabeculectomy by "Trabectome" in glaucoma and cataract patients; results of complicated uveal cataract surgery with simultaneous long-acting corticosteroid subtenon injection in children; and MicroPulse laser trabeculoplasty in the treatment of pseudoexfoliative glaucoma patients.

Innovation technologies in ophthalmology were the topic of the fifth plenary session and concerned the results of using a new thermoelectric device for intraocular temperature measurements and using biological tissue high-frequency electric welding for eyeball evacuation in uveal melanoma. Korol A.R., MD, reported on anti-VEGF in the treatment of wet age-related macular degeneration and intravitreal aflibercept for the treatment of choroidal neovascularization associated with pathologic myopia. A case report of successful retinal artery macroaneurysm combined treatment was demonstrated. Emil Chynn, MD, (New-York, the USA) shared his experience of laser correction ASA (LASEK, epi-LASEK) in treatment for extreme myopia, hyperopia and/or astigmatism.

During the sixth plenary session there were presentations on diagnosis, treatment and prophylaxis of choroid, retina and optic nerve pathology as follows: topical treatment of anterior viral uveitis with nepafenak; using Adalimumab in the treatment of uveitis; prolonged pharmacoinfusion in the treatment of acute vascular pathology of visual analyzer. The session's best presentation was recognized that by Medjidova S.R. (Baku, Azerbaijan) and was related to clinical and immunological monitoring of Behcet's disease patients.

At the seventh plenary session which was related to diabetic eye diseases and vitreoretinal surgery there were presented the results of surgical treatment for macular pseudoholes and for embolism of the central retinal artery branches as well as the experience in the use of steroidal anti-inflammatory drugs in the treatment of diabetic macular edema. The influence of intravitreal ranizumab injection on eye pulse blood filling in patients with diabetic cystoids macular edema was reported. Professor Putienko A.A. shared his experience in assessing the visual analyzer according to some electrophysiological parameters in patients with proliferated diabetic retinopathy after intravitreal interventions. There also were discussed such issues as the activity of intracellular enzymes and total protein content in the vitreal fluid of patients rhegmatogenous retinal detachment after vitrectomy; and the role of proper retinal neovascularization in retinal neuroprotection in the presence of diabetic retinopathy.

The first sectional session dedicated to Tissue Therapy and prospects of natural biologically active substances in modern ophthalmology was opened by Professor Sotnikova E.P. with a presentation on the relevance of Filatov's Tissue Therapy nowadays. The complex eye ointment on the base of Marepolymyel in the treatment of corneal dystrophy, chorioretinites, post-traumatic dystrophy and corneal edema was discussed as well as using of tissue therapy in the treatment of eye burns. Mikheitseva I.M., MD, reported on new data on the effect of long-term administration of melatonin on metabolic dysfunction in chronic experimental glaucomatous process.

The second sectional session was dedicated to current issues of diagnoses and treatment for anomalies of refraction and oculomotor apparatus including amblyopic eye treatment depending on the type of amblyopia and efficacy of the local using of adrenergic agonists in treatment of computer vision syndrome. Professor Serdyuchenko V.I. reported on clinical features of A-V-X complicated oculomotor disorders and on operations on the oblique eye muscles with independent regulation of their function. There was demonstrated the analysis of the demographic situation on the prevalence of retinopathy of prematurity in the South of Ukraine.

Within the conference there was held a round table on the problems of neoplasms and abnormalities of the vascular system in children. Professor Vit V.V. demonstrated the character of pathological anatomy of neoplasms in circulatory system of the eye, eyelid and orbit in children. The other issues discussed were epidemiology of angiomatous formations of the eye in children in the first years of life, conservative and surgical treatment of capillary hemangiomas in children's orbit and periorbital region.

Poster presentation section comprised of 30 papers with lively discussion of results. The session's best presentation was recognized "Fellowship of academicians Vladimir Petrovich Filatov and Mikhail Aleksandrovich Yasinovskii" by group of authors Yakimenko E.A., Tyagay O.Ya., Myronyuk E.M., Vyazovskii Yu.I., Chernyshova K.S., Izbash A.O.

Within the conference there were three satellite symposia prepared by general sponsors VALEANT, ALCON, NOVARTIS PHARMA.

Media sponsors of the conference were journals "Journal of Ophthalmology (Ukraine)", "Oftalmologiya. Vostochnaia Evropa" (Ophthalmology. Eastern Europe), "Novosti Meditsiny i farmatsii" (News of Medicine and Pharmacy) and a medical newspaper "Zdorovya Ukrainy" (Health of Ukraine).

The day before the conference on the 20th of May 2015 a meeting of regional ophthalmologists dedicated to specialized ophthalmic care delivery was held.

During the conference there were reviewed such important problems as improvement of ophthalmic care, increase of the level of scientific research, educational and methodological work in the field of ophthalmology. As a result of discussion and shared experiences the resolution has been accepted:

1. To Ministry of Health of Ukraine:

1.1. Taking into account a great need in keratoplasty co-work with pathological and anatomical bureau must be activated to provide donor material for keratoplasty by Filatov's method of conservation in the aqueous chamber.

1.2. Since herpetic keratitis is the most often indication for medical keratoplasty the release of anti-herpetic vaccine for anti-relapsing treatment of recurrent herpetic keratitis must be set in Ukraine.

2. To Ophthalmology Departments at higher and post-graduate educational institutions, SI "The Filatov Institute of Eye Diseases and Tissue Therapy of NAMS of Ukraine" and ophthalmologists in the regions of Ukraine:

2.2. Annual study must be provided for ophthalmologists, especially for physicians in the first medical aid centers, by seminars, post-graduate courses with participation of leading specialists from Ophthalmology Post-Graduate Departments, medical universities and SI "The Filatov Institute of Eye Diseases and Tissue Therapy of NAMS of Ukraine".

3. To chief ophthalmologists in Ukraine's regions:

3.1. Patients with severe eye burns (3-4 degrees) must be directed timely (within 1-2 days) to the Eye Burn Center at the Filatov Institute according to the order of Ministry of Health of Ukraine №47 from 15.03.2007.

3.2. To avoid complications in trauma the patients with intraocular foreign bodies must be directed for surgical treatments to properly equipped centers. It is important to adhere to differentiated treatment for patients with penetrating injuries and intraocular foreign bodies.

3.3. Since the eyelid tumor takes the first place in ophthalmooncology it is recommended to perform cytohistological or histomorphologic study and dynamic observation of such patients to provide early diagnostics and to decrease oncology disease rate.

3.4. Brand new methods of diagnosis, prophylaxis and surgery for glaucoma treatment must be implemented. The attention must be paid to organizing and performing clinical observation of glaucoma patients.

4. To SI "The Filatov Institute of Eye Diseases and Tissue Therapy of NAMS of Ukraine":

4.1. Clinical trials of cryopreserved amniotic membrane for the treatment of inflammatory and degenerative pathologies of the cornea produced by Institute of Cellular Therapy (Kyiv) must be conducted.

4.2. Two week advanced training courses on anomalies of refraction and oculomotor apparatus should be run twice a year.

4.3. Training courses for nurses-orthoptyst on pleoptic, orthoptic and diploptic treatment of children with amblyopia and binocular vision disorders" should be run once a year.

4.4. A protocol of treatment for hemangioma in early childhood must be sent to SI "State Expert Center of Ministry of Health of Ukraine" to be discussed and approved.

4.5. Scientific and practical conference Filatov Memorial Lectures – 2016 will be held in Odessa on 19-20 May 2016 that facilitates the introducing new technologies in ophthalmology, sharing the experience, involving clinical ophthalmologists in scientific work and improving their skills.



Images: **1.** Director of the Filatov Institute Nataliia Pasyechnikova, MD, Prof., Corresponding member of NAMS of Ukraine greets the participants at the opening ceremony; **2.** Volodymyr Naumenko, MD, Prof. **3.** Speakers Emil Chynn, MD (New-York, the USA), Dovzhuk T.N. (Ukraine);



Images: 4. At the scientific session "Corneal pathology. Keratoplasty. Keratoprosthesis"; 5. Prof. Lincoln Lavado Landeo (Lima, Peru) 6. A. Zborovska, MD with a delegate from Azerbaijan S. Medjidova 7. Chairs of the session "Pathology of choroid, retina and optic nerve": Prof. Venger L.V., Prof. Panchenko N.V., Savko V.V., MD, Zborovska A.V., MD.