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## Vladyslav Volodymyrovych Povoroziuk



On 12 June 2021, passed away Vladyslav Volodymyrovych Povoroziuk, the scientific director of the Department of Clinical Physiology and Abnormalities of the Musculoskeletal System of the State Institution «D. F. Chebotaryov Institute of Gerontology of the NAMS of Ukraine», the President of the Ukrainian Association of Osteoporosis and the Ukrainian Association of Menopause, Andropause and Musculoskeletal Diseases, President of the Ukrainian Division of EVIDAS, Member of the Board of the International Osteoporosis Association (IOF), Deputy Chairman of the Gerontologist of Ukraine, Vice President of the Ukrainian Association of Rheumatologists, Member of the Board of the Ukrainian Association of Orthopedic Traumatologists, Member of the Public Council of the Ukrainian Federation of Civil Society Health Organizations, Honorary Member of the Association of Implantologists of Ukraine, Member of the International Associations ACORT, ASF, ASBR EMAS, EULAR, ISCD, ISSAM, OARSI, SICOT, director of the Ukrainian Scientific and Medical Center for Osteoporosis. Editor-in-chief of well-known Ukrainian magazines «Pain. Joints. Spine», «Problems of Osteology», Deputy Editor-in-Chief of the information publication «Bulletin of the Scientific Medical Society of Gerontologists and Geriatricians of Ukraine», member

of the editorial boards of the journals «Problems of Aging and Longevity», «Gerontology», «Ukrainian Rheumatological Journal», «Orthopedics, Traumatology and Prosthetics», «Annals of Gerontology and Geriatric research», Honored Worker of Science and Technology of Ukraine, Doctor of Medical Sciences, Professor.

V. V. Povoroziuk was born on 22 October 1954 in the village of Sidory, Kyiv region. After successfully graduating from school, he entered the medical faculty of Kyiv Academician O. O. Bogomolets Medical Institute in 1971. During his studies, he combined theoretical knowledge of medicine with practical activities, working as a paramedic at the ambulance station in Kyiv.

In 1977 Vladyslav Volodymyrovych began his career as a doctor under the guidance of Professor E. P. Podrushnyak (1934–2008) in the Department of Clinical Physiology and Abnormalities of the Musculoskeletal System of the Institute of Gerontology of the USSR Academy of Medical Sciences, and in 1982 he entered graduate school majoring in Traumatology and Orthopedics.

From 1986 he worked as a junior researcher at the Department of Clinical Physiology and Abnormalities of the Musculoskeletal System, took an active part in organizing and holding conferences on gerontology. Since 1987 he was the chief physician of the clinic of the Institute of Gerontology of the USSR Academy of Medical Sciences. In 1988 he defended his dissertation «Degenerative-dystrophic changes of the cervical and thoracic spine and their visceral manifestations (vertebrogenic cardialgia) in people of all ages» in «Traumatology and Orthopedics». From January 1992 he worked as a leading researcher, and from March until today he was the head of the department of clinical physiology and abnormalities of the musculoskeletal system of the Institute of Gerontology.

In 1999 he defended his dissertation «Osteoporosis in the population of Ukraine: risk factors, clinic, diagnosis and treatment» for the degree of Doctor of Medical Sciences. In 2000 he received the title of professor, and in 2006 the honorary title of Honored Worker of Science and Technology of Ukraine.

Professor V. V. Povoroznyuk's research covers a wide range of theoretical and clinical medicine: studying the features of degenerative-dystrophic changes of the spine and joints in people of different ages, determining the main indicators of structural and functional condition of bone tissue and clinical manifestations of bone aging, neuromuscular system anterior chest wall, which are responsible for the development of vertebrogenic cardialgia syndrome in people of all ages. The professor proposed differential diagnostic criteria for the verification of vertebrogenic cardialgia and pain in the heart caused by coronary heart disease (CHD); the peculiarities of therapeutic measures in the conditions of vertebrogenic cardialgias and coronary heart disease in combination with dystrophic-destructive changes of the cervical-thoracic spine were determined; developed and proposed a therapeutic complex for the treatment of vertebrogenic cardialgia and vertebro-cardiac syndrome in people of different ages. For the first time in Ukraine, he used an automated system of quantitative analysis of the risk of major pathological syndromes to assess the health of industrial workers, which helped reduce spinal morbidity and prevent premature aging.

On his initiative, in 1996, the Ukrainian Osteoporosis Association was established, of which he became president, and the Ukrainian Research and Medical Center for Osteoporosis, which provides consulting and diagnostic assistance to patients from different regions of Ukraine. V. V. Povoroznyuk is a leading scientist on osteoporosis in Ukraine, recognized abroad. In 2002, at the initiative of the professor, the Ukrainian Association of Menopause, Andropause and Diseases of the Musculoskeletal System was established, which was then included in the European Menopause and Andropause Society (EMAS).

Professor V. V. Povoroznyuk is the author and co-author of more than 800 scientific papers, 20 monographies, more than 50 copyright certificates, patents and methodological recommendations. Since 2007, under the editorship of V. V. Povoroznyuk, 6 volumes of works «Diseases of the musculoskeletal system in people of different ages» were published. He was also a co-author of the development of biologically active substances used for the prevention and treatment of osteoporosis and its complications (Kosmol, Biokosmovit, Ostein, etc.), automated workplace Osteologist.

Under the guidance of V.V. Povoroznyuk, 29 candidates (one outside Ukraine) and 13 doctoral dissertations were defended.

In 2007, at the initiative of V. V. Povoroznyuk, the Ukrainian-Lithuanian-Belarusian project «Study

of the structural and functional state of bone tissue in children and adolescents living in environmentally unfavorable regions» was implemented by friendly associations.

Thanks to the creative and scientific efforts of the professor in 2010, the results of numerous epidemiological studies on the prevalence of osteoporosis and its complications (osteoporotic fractures), the level of calcium intake in the diet, the frequency of vitamin D deficiency and deficiency in Ukraine were published in the Audit Center of Eastern Europe under the auspices of the International Osteoporosis Association.

V. V. Povoroznyuk is the organizer of the annual International Symposium «Diseases of the musculoskeletal system and age». This event is the result of a partnership between the Ukrainian Osteoporosis Association, the Austrian Society for Bone and Mineral Research, and the Slovak Society for Osteoporosis and Metabolic Bone Diseases. The fruitful cooperation between the Ukrainian and Portuguese osteoporosis associations has been going on since 2016.

Vladyslav Volodymyrovych had an active position in life, an unshakable authority among scientists and practitioners not only in Ukraine but also in the post-Soviet space. He constantly participated in the WCO-IOF-ESCEO congresses.

V. V. Povoroznyuk was awarded the badge «For Achievements» of the Ministry of Education and Science (1993); diplomas of the Lithuanian Osteoporosis Foundation (2001), the Presidium of the National Academy of Medical Sciences of Ukraine for significant personal contribution to the development of medical science and training of highly qualified scientific and medical personnel (2002), thanks of the Kyiv Mayor for significant personal contribution to health care, achievements in professional activity (2002), S. E. Duvan award (2003), the Presidium of the National Academy of Medical Sciences of Ukraine for significant contribution to the development of problems of diagnosis and treatment of diseases of the musculoskeletal system (2004), Kyiv City Council of Trade Unions for many years of conscientious work, high professionalism, active life position, cooperation with the trade union (2004); medal of Academician M. D. Strazhesko National Academy of Medical Sciences for merits in health care (2009); Ukrainian Association for the Study of Pain in Support of Educational Initiatives (2013). He was an honorary professor at the Research Institute of Traumatology and Orthopedics of Donetsk M. Gorky National Medical University (2008) and Grodno

State Medical University (2018), honorary member of the Association of Internal Medicine of the Republic of Moldova (2011), V. Ya. Danilevsky award (2014).

The achievements and fruitful work of Professor V. V. Povoroznyuk were marked by international organizations and communities: the medal of the Committee of National Societies (CNS) of the International Osteoporosis Association for active participation in the activities of the committee and dissemination of the IOF mission (2014); the award of the Scientific Society of the European Vitamin D Association (EVIDAS) for significant contribution to the development of medical science, training of medical staff, dissemination of knowledge and research on vitamin D (2014); the award of the Slovak Society of Osteoporosis and Metabolic Diseases of the Bones for outstanding achievements in the study of bone metabo-

lism (2016); the International Association of Clinical Densitometry (ISCD) Award for Leadership and Outstanding Achievement in Clinical Densitometry (2016); the Abu Dhabi Organizing Committee Award of the Annual International Conference on Vitamin D Deficiency and Human Health (2017); diploma and medal of Grodno State Medical University for services to the university (2018). In 2019, the President of the National Academy of Medical Sciences of Ukraine, Academician V. I. Tsybalyuk presented a medal and a badge of honor with the image of Agapit Pechersky

The entire large community of the Ukrainian Association of Orthopedic Traumatologists and the Ukrainian Osteoporosis Association mourns this heavy loss and expresses its condolences to Vladyslav Volodymyrovych's family and friends. The bright memory of him will forever remain in our hearts.

*The staff of the Institute of Gerontology, DF Chebotaryov National Academy of Medical Sciences of Ukraine  
Ukrainian Osteoporosis Association  
NGO «Ukrainian Association of Orthopedists-Traumatologists»  
Editorial Board of the journal «Orthopedics, Traumatology and Prosthetics»*