

Arguments and listed why Zamira Khalimova should be member of Executive Committee of ENEA

The contribution of prof. Khalimova Z.Yu. in the development of neuroendocrinology in the Republic of Uzbekistan (Scientific Department of Neuroendocrinology with Pituitary Surgery)

Laboratory of Neuroendocrinology was organized in 1996 by Academician Y. Kh. Turakulov on the basis of the Department of hypothalamic-pituitary regulation.

The laboratory is developing the scientific foundations of the etiology, pathogenesis and treatment of diseases of the hypothalamus-pituitary-adrenal gland system. The modern direction of the laboratory was formed in the process of training qualified scientists and equipping the laboratory with modern technology: a 32-channel electroencephalograph with color brain mapping, spectral analysis and data archiving, a 2-channel electroneuromyograph (Italy), an apparatus for laser magnetic acupuncture, and a number of technical tools.

With the support of the Royal Society of Great Britain and the Academy of Sciences of the Republic of Uzbekistan, and Acad. E.Kh. Turakulov, two employees of the laboratory of neuroendocrinology - Khalimova Z.Yu. and Urmanova Yu.M. passed specialization in neuroendocrinology (1998) and immunocytochemistry (1999). At the Endocrinology Center of St. Bartholomew's Hospital (London), the head of the center is prof. Ashley Barry Grossman. Subsequently and to the present, scientific and practical ties are maintained, mutual cooperation and the exchange of experience with this clinic and its leading specialists are developing ..

The Laboratory of Neuroendocrinology and employees are engaged in the development and implementation of modern diagnostic methods, differential diagnosis and effective methods of treating patients with various pituitary tumors - Cushing's disease, acromegaly, prolactinoma; adrenal glands - Cushing's syndrome, aldosteromas, pheochromocytomas.

In different years, laboratory staff studied etiopathogenesis and treatment aspects of various pituitary adenomas, differential diagnosis of various forms of physical development retardation in children and adolescents, the state of the pituitary gonad and pituitary thyroid gland in men and women with hypo and hypercortisolism, and the state of the endocrine system in patients with obesity and the development of ways for their therapeutic correction, etc.

Laboratory staff developed criteria for the early diagnosis of various pituitary adenomas taking into account the pituitary gland and the duration of the process, evaluating the effectiveness of the treatment methods used, developed an algorithm for diagnosing and managing patients with pituitary adenomas, which allows you to fully examine patients and reliably evaluate the effectiveness of treatment (MD Khalimova Z.Yu., Head of the Department of Neuroendocrinology with Pituitary Surgery).

Thanks prof. Khalimova Z.Yu. for the period from 1995 to the present, a number of doctoral and candidate dissertations in the field of neuroendocrinology were defended for the first time in the Republic of Uzbekistan. An important area of scientific research in the laboratory is the prevention of growth and

developmental retardation, elucidation of the etiology, pathogenesis and development of effective treatment methods (MD Urmanova Yu.M.).

Among neuroendocrine disorders in the pathology of the hypothalamic-pituitary region in children and adolescents, growth and sexual development disorders are most often found. In addition, the laboratory is investigating reproductive dysfunctions in patients with hormonal insufficiency of the adrenal cortex (Ph.D. Aliyev D.A.) and obesity (G.D. Narimova, Ph.D. and doctoral thesis are defended).

A special group is occupied by STH-secreting pituitary adenomas, which are characterized by slow growth and are accompanied by various complications, with the goal of preventing which work is being done on the registry of patients with acromegaly (Kholikova A.O., PhD and doctoral dissertation defended). According to the data obtained, pituitary adenomas are highly prevalent and make up 5.7 per 100 thousand of the population in the Republic of Uzbekistan. The most common among them are functionally inactive pituitary tumors and prolactinomas. In general, pituitary adenomas affect the most able-bodied and youngest contingent of the population, which served as a reason for studying reproductive disorders (Nasyrova Kh.K., Ph.D.).

Currently, the laboratory of neuroendocrinology is developing and implementing modern diagnostic methods, differential diagnostics and effective methods of treating patients with various pituitary and adrenal tumors, studying reproductive disorders in women with polycystic ovary syndrome, obesity, prolactinomas and chronic adrenal insufficiency, as well as creating a national registry patients with diabetes insipidus both in the regions of the Republic of Uzbekistan and in Tashkent.

Thanks prof. Khalimova Z.Yu. Over the period from 1996 to the present, the Center for Endocrinology established and fruitfully develops international cooperation with the great scientists of Great Britain, who have made an invaluable contribution to the development of neuroendocrinology and pituitary surgery in our country. Prior to this, patients had to travel abroad or to Russia, but most patients could not allow this and died from various complications of the pituitary adenoma.

Employees of the laboratory of neuroendocrinology support and develop international scientific and practical cooperation with various specialists. So, the first visit of prof. Ashley Barry Grossman, a leading neuroendocrinologist in the UK and Europe, currently heading the Endocrinology Center at one of Europe's famous and oldest research centers, which turned 800 years old, St. Bartholomew's Hospital in London. Subsequently, since 2005, prof. Ashley Barry Grossman came to the Acad. Endocrinology Research Center for Endocrinology. Y.H. Turakulova together with a leading neurosurgeon in the field of selective transnasal hypophysectomy - prof. Michael Peter Powell and other colleagues - prof. Katherine Gilkes, prof. Miles Levy, prof. Simon K.

Purpose of visits prof. A.B. Grossman and prof. M.P. Powell is the strengthening of cooperation between specialists of 2 countries, the effective training of neurosurgeons of the Republic of Uzbekistan to perform complex microsurgical operations on the pituitary gland - transfenoid hypophysectomy, the training of specialists in the field of neuroendocrinology and neurosurgery, in particular on transfenoid hypophysectomy, conferences held with listening to experts Of Europe. Thanks to his visits, the neurosurgeons of the Republic of Uzbekistan are effectively trained to perform complex microsurgical operations on the pituitary gland - a transsphenoid pituitary gland. So, the first and successful transnasal selective hypophysectomy operation in a patient with inactive pituitary macroadenoma was performed at the Department of Surgery, November 20, 2009, prof. Michael Powell. This is the result of great achievements in the field of international cooperation of several medical centers - Republican Specialized Scientific Practical Medical Center of Endocrinology named by akademik E. Kh. Turakulov of Public Health Ministry of the Republic of Uzbekistan (RSSPMCE), Center for Endocrinology Hospital St. Bartholomew and the Hospital of Neurology and Neurosurgery in the UK. In addition, thanks to them, an employee of RSSPMCE

Akbutaev A. underwent a 4-month training in transnasal hypophysectomy in the clinic of prof. M.P. Powell in London at the beginning of 2009. Also trained there in 2010, Ph.D. Babakhanov B.Kh. in the same clinic

Between 1995 and 2019 4 doctoral and 7 master's theses are defended in the laboratory, more than 400 scientific papers in the post-soviet countries and abroad, more than 20 methodological recommendations and manuals have been published. Currently, 4 doctoral dissertations are being prepared, as well as 8 candidate dissertations. in the framework of 1 fundamental, 6 applied grants, including:

Eight security certificates were received from the Intellectual Property Agency of the Republic of Uzbekistan.

For the coming period, fundamental, applied and innovative studies are planned that affect not only neuroendocrinology, but studies at the intersection of neuroendocrinology and other disciplines.

At the same time, additional measures are required to expand the scope of research, conduct inter-laboratory research, train highly specialized personnel in the field of neuroendocrinology and provide specialized institutions of the Republic, as well as retain the most advanced scientific personnel within the walls of the RSSPMCE in order to expand scientific research in this direction and present them results at international scientific forums, increasing the rating of the scientific community of both the RSSPMCE and its scientific departments fishing.