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Contribution of KazIOR Department of Oncology to the development of cancer service in Kazakhstan

From year to year, both morbidity and mortality from malignant neoplasms are growing both in our country and worldwide. Ways to reduce it include early detection of tumors and timely treatment of precancerous diseases to inhibit their malignization. The article describes the contribution of the Department of Oncology of the Kazakh National Medical University in training and improving the knowledge of future oncologists and general practitioners about malignant neoplasms. This serves to increase early detection and treatment efficacy, reduce treatment costs, improve patients' quality of life, and, most importantly, reduce mortality from malignant neoplasms.

Keywords: malignant tumors, prevention of malignant neoplasms, the contribution of the Department of Oncology of the Kazakh National Medical University.

Today, cancer is one of the most serious diseases of concern to the peoples of the world. It looks like cancer incidence and mortality are not going to diminish. Early detection is the main way to stop cancer by reducing its incidence and prolonging patients' life expectancy. 90-95% of cancers originate from various precancerous chronic diseases. Therefore, timely detection of cancer, its dispensary control under the IB group, regularly screening for a predisposition to cancer, and appropriately out-patient and in-patient treatment could drastically reduce the number of precancerous diseases leading to cancer and give a chance to detect cancerous diseases at stages I-II. Timely treatment of precancerous diseases would reduce cancer incidence and mortality. Today our country possesses all that is needed. New highly effective methods and techniques for the timely detection of cancer and oncological diseases, such as ultrasound, sonographic, endoscopic, immuno-histochemical, immunoassays for the detection of various biological markers of tumors, electron microscopy, computed tomography, magnetic resonance imaging and positron emission tomography, digital mammography and tomosynthesis, invasive endoscopic surgery and brachytherapy, high-power linear accelerator radiation therapy, conformal therapy, targeted therapy, etc., are being introduced into everyday medical practice. The full implementation of these measures will improve the qualification of future doctors studying in medical universities. General practitioners should be aware of cancer prevention, early detection, and effective treatment methods. To achieve this, future doctors shall be trained according

to modern requirements, constantly familiarize themselves with the advanced scientific and practical literature in global and domestic oncology, and study various treatment methods in practice. All of the above is the Oncology Department's main goal and focus in training future doctors.

In Kazakhstan, the first Oncology Department was established in June 1972, during the Soviet era, at the Kazakh State Medical Institute. In 1972-1980, the Department was headed by Saken Nugmanovich Nugmanov, Honored Doctor of the Kazakh SSR, Doctor of Medical Sciences, Professor, founder of cancer service in Kazakhstan. The first staff members included Associate Professor L.K. Barsova (was the Department head in 1980-1985) and Candidates of Medical Sciences M.K. Kulanbaev, M.T. Rakhmetov, and K.T. Isin in the positions of Department assistants. In 1974, the Department was replenished by Associate Professor A.E. Esenkulov, Candidates of Medical Sciences N.V. Maltseva, N.A. Nigay, and an experienced surgeon A.M. Khodzhaev.

In 1985-2001, the Oncology Department was headed by Doctor of Medicine, Professor Kh.A. Abisatov. Under his direction, the Oncology Department has achieved many successes, developed in all directions, and was one step ahead in education, science, and medical practice. Many young people became clinical residents of the Department and were later sent to work in all country regions. In 1992-1993, a group of doctors who graduated with honors from the Almaty State Medical Institute was adopted for clinical internship and post-graduate education. They were tasked with scientific work in various areas of

oncology and were instructed to conduct teaching. They defended candidate's and later doctoral theses: D.R. Kaidarova - in gynecological cancer, H.T. Baltabekov - in thoracic oncology, U.K. Zhumashev - in pediatric oncology, S.E. Yessenkulova - in mastology. In 1996-1997, they defended their candidate's theses: T.Zh. Sadykova - in gynecological oncology, A.K. Dzhakibaeva - in mastology. Today, they all continue their pedagogical and practical activities at the Institute of Oncology as key employees of the National University Oncology Department.

Several Doctors of Medical Sciences, Professors, known not only in Kazakhstan but also in near- and far abroad countries, have worked and continue to work at the Department and the Institute of Oncology in the areas of interest. These are Kh.A. Abisatov - Academician of the Academy of Preventive Medicine, author of more than 300 scientific papers, leading textbooks and training programs in general oncology in two languages, who have trained two Doctors and seven Candidates of Sciences; A.E. Yessenkulov - Honored Scientist of Kazakhstan, Academician of the International Academy of Informatization, author of more than 280 scientific papers, including "Radical mastectomy by Esenkulov method," textbooks and training programs in mastology and general oncology, who has trained five Doctors and seven Candidates of Sciences; S.I. Igissinov - Honored Doctor of Kyrgyzstan, Academician of the International Academy of Informatization, the author of more than 300 scientific papers, textbooks, and training programs in general oncology and cancer epidemiology, creator of the first electronic cancer register in the country, who has trained five Doctors and nine Candidates of Sciences; B.V. Monakhov - author of more than 230 scientific papers, textbooks, and training programs in oncology and chemotherapy, inventor of the Monakhov's elastic tube diagnostic device (method of exfoliative biopsy in esophageal cancer), who has trained three Doctors and three Candidates of Sciences; B.K. Kaidarov - a talented cancer surgeon, author of more than 250 scientific papers, textbooks, and training programs in general oncology, cancer rehabilitation, who has trained three Doctors and three Candidates of Sciences; D.Kh. Savkhatov - author of more than 200 scientific papers, training programs in general oncology, including cancer of the neck, who has prepared one Doctor and two Candidates of Sciences; D.R. Kaidarova - Academician of Kazakhstan National Academy of Sciences, Chairman of the Board of the Kazakh Institute of Oncology and Radiology, Chief Oncologist of Kazakhstan, Head of the Kazakh National Medical University Oncology Department, one of the organizers of the best cancer service in

the country, author of more than 250 scientific papers, teaching programs, leading books in gynecological oncology, general oncology, and cancer rehabilitation, who has trained five PhDs and continues teaching; N.T. Baltabekov - Chief Doctor of the Kazakh Institute of Oncology and Radiology, one of the organizers of the best cancer service in the country, author of more than 200 scientific papers on the methods of treatment of lung and skin cancer and cancer immunology, teaching programs and lectures on cancer prevention at PHC level, who has trained one Doctor and three Candidates of Sciences; A.A. Khodzhaev - author of more than 100 scientific papers, including teaching programs for residency in general oncology; S.E. Yessenkulova - author of more than 150 scientific papers, textbooks, and teaching programs for undergraduate studies in mastology and general oncology.

In 1993, **Pediatric Oncology** was for the first time included in the register of medical specialties of Kazakhstan and taught to 5th-year' students of the Pediatric Faculty of the Kazakh National Medical University. Today, pediatric oncology is taught to 6-7th-years' intern students along with general oncology. Doctor of Medical Sciences, Professor U.K. Zhumashev is the author of all teaching programs in this discipline in two languages, the author of the first textbook in Pediatric Oncology and more than 200 scientific papers.

In 2001-2003, the Department was headed by the Academician of the Russian Academy of Medical Sciences, Doctor of Medical Sciences, Professor Zh.A. Arzykulov, in 2003-2013 - the Doctor of Medical Sciences, Professor B.K. Kaidarov, in 2013-2016 - the Doctor of Medical Sciences, Professor K.Sh. Nurgazyev, since 2016 - the Academician of the National Academy of Sciences of the RK, Doctor of Medical Sciences, Professor D.R. Kaidarova. The Department staff members also include the Doctor of Medical Sciences, Professor K.T. Toleutaiuly, the Candidates of Medical Sciences, Associate Professors S.S. Sadykov, S.D. Tazhibaeva, S.R. Nurmanov, G.S. Igissinova, M.L. Aitakhunov, K.O. Sabirov, the assistants N.A. Amanbekov and G.K. Afonin (except for those on vacations) who continue their work with honor nowadays.

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ТҰЖЫРЫМ

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Қазақ ұлттық медицина университеті онкология кафедрасының еліміздегі онкология қызметінің дамуына қосқан үлесі

Біздің елімізде де, дүние жүзі бойынша да қатерлі ісіктермен сырқаттанушылықтан болатын өлім - жітім көрсеткіші жылдан жылға өсуде. Оны азайтудың негізгі жолы, ісікті алғашқы сатыларында анықтау және ісікалды ауруларын дер кезінде емдеп, олардың қатерлі түрге ауысуына жол бермеу. Мақалада Қазақ ұлттық медициналық университетінің онкология кафедрасының болашақ онколог-дәрігерлер мен жалпы емдеу желісі дәрігерлерінің қатерлі ісіктер туралы білім деңгейін дайындауға және арттыруға қосқан үлесі сипатталған. Бұл ерте диагностика деңгейін арттыруға, емдеу тиімділігін жоғарылатуға, емдеу шығындарын азайтуға, науқастардың өмір сүру сапасын арттыруға және ең бастысы, қатерлі ісіктерден болатын өлім-жітімді азайтуға мүмкіндік береді.

Түйінді сөздер: қатерлі ісіктер, қатерлі ісіктердің алдын алу, ҚазҰМУ онкология кафедрасының үлесі.

АННОТАЦИЯ

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Вклад кафедры онкологии в развитии онкологической службы в Республики Казахстан

Из года в год как заболеваемость, так и смертность от злокачественных новообразований растут как в нашей стране, так и во всем мире. Одним из основных способов их снижения являются выявление опухоли на ранних стадиях, а также своевременное лечение предраковых заболеваний с целью торможения их перехода в злокачественную форму. В статье описан вклад кафедры онкологии Казахского Национального медицинского университета в подготовку и повышение уровня знаний будущих врачей-онкологов и врачей общей лечебной сети о злокачественных новообразованиях. Это позволяет повысить уровень ранней диагностики, увеличить эффективность лечения, снизить затраты на лечение, повысить качество жизни больных и, самое главное, снизить смертность от злокачественных новообразований.

Ключевые слова: злокачественные опухоли, профилактика злокачественных новообразований, вклад кафедры онкологии КазНМУ.