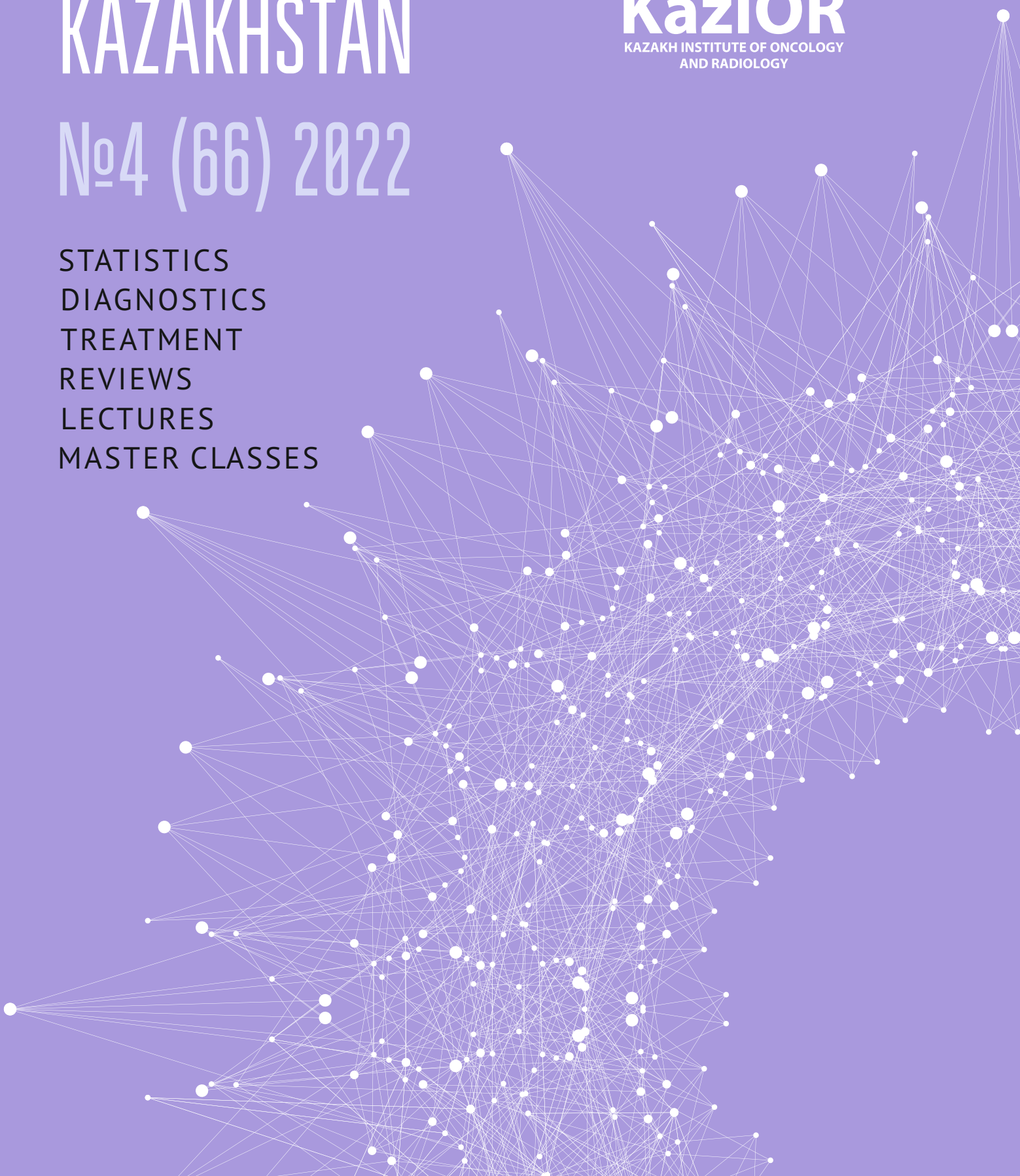


# ONCOLOGY and RADIOLOGY of KAZAKHSTAN

№4 (66) 2022

STATISTICS  
DIAGNOSTICS  
TREATMENT  
REVIEWS  
LECTURES  
MASTER CLASSES





Kazakhstan  
Cancer  
Society

*Are you a member?*  
*Ал сіз қауымдастыққа кіргіңіз бе?*



# ONCOLOGY AND RADIOLOGY OF KAZAKHSTAN №4 (66) 2022

DOI of the journal: 10.52532/2663-4864

DOI of the issue: 10.52532/2663-4864-2022-4-66-1-72

**Academic and Research Journal of «Kazakh Institute of Oncology and Radiology» JSC**

## **Editorial Council:**

- M. Dzhugashvili**, MD, Ph.D., Instituto Madrilenio de Oncologia (Grupo Ima), Madrid (Spain)  
**M. Gultekin**, MD, Instructor, Department of Radiation Oncology, Hacettepe University, Ankara (Turkey)  
**K. Narayan**, MBBS, MD, Ph.D., FRANZCR, Assoc. Prof., Peter MacCallum Cancer Center (Australia)  
**M. Silbermann**, MD, PhD, Prof., Executive Director of Middle East Cancer Consortium (Israel)  
**M.D. Aliev**, MD, Prof., Member of the Russian Academy of Sciences, FSBI NMRRC of the Ministry of Health of the Russian Federation (Russia)  
**L.B. Dzhanugurova**, Candidate of Medicine, Assoc. Prof., Institute of General Genetics and Cytology (Kazakhstan)  
**E.N. Imyaninov**, MD, Associate member of the Russian Academy of Sciences, N.N. Petrov National Medical Research Center for Oncology (Russia)  
**A.D. Kaprin**, MD, Prof., Member of the Russian Academy of Sciences, FSBI NMRRC of the Ministry of Health of the Russian Federation (Russia)  
**I. Kokhraidze**, MD, Prof., Oncology clinic «Kironi», Tbilisi State Medical University (Georgia)  
**S.A. Krasny**, MD, Prof., Associate member of Belarus National Academy of Sciences, N.N. Alexandrov Republican Scientific and Practical Center of Oncology and Medical Radiology (Belarus)  
**V.M. Moiseenko**, MD, Prof., St. Petersburg City Clinical Oncology Center (Russia)  
**I.M. Omarova**, MD, Prof., Karaganda Regional Cancer Dispensary (Kazakhstan)  
**T.Yu. Semiglazova**, MD, Prof., N.N. Petrov National Medical Research Center for Oncology (Russia)  
**I.S. Stilidi**, MD, Prof., Member of the Russian Academy of Sciences, N.N. Blokhin National Medical Research Center of Oncology (Russia)  
**E.A. Tilekov**, MD, Prof., National Center of Oncology (Kyrgyzstan)  
**M.N. Tilliashaykhov**, Republican Oncology Research Center of the Ministry of Health of the Republic of Uzbekistan (Uzbekistan)  
**Z.Kh. Huseinov**, MD, Republican Cancer Research Center of the Ministry of Health and Social Protection of the Population of the Republic of Tajikistan (Tajikistan)

## **Editorial Board:**

### **Chief Editor –**

**D.R. Kaidarova**, MD, Member of the Kazakhstan National Academy of Sciences, KazIOR, Almaty

### **Deputy Editor in Chief –**

**A.S. Shinbolatova**, MPH, KazIOR, Almaty

### **Administrative Editor –**

**V.B. Kim**, MD, KazIOR, Almaty

### **Proofreader – T.V. Vasilieva**, KazIOR, Almaty

### **Translation editors –**

**M.K. Sherimkulova** (Kazakh), KazIOR, Almaty

**T.V. Vasilieva** (English), KazIOR, Almaty

### **Printing layout –**

**A.A. Abdrashitov**, Candidate of Biology, KazIOR, Almaty

### **Executive Secretary –**

**L.A. Malysheva**, Candidate of Biology, KazIOR, Almaty

### **Editorial Board Members:**

**A.Zh. Abdrakhmanova**, MD, KazIOR, Almaty

**T.A. Adylkhanov**, MD, Prof., Semey State Medical University, Semey

**A.A. Baynazarova**, MD, Prof., Sunkar Medical Center, Almaty

**T.G. Goncharova**, Doctor of Biology, KazIOR, Almaty

**Zh.Zh. Zholdybay**, MD, Prof., Kazakh National Medical University, Almaty

**R.Z. Abdrakhmanov**, Candidate of Medicine, KazIOR, Almaty

**Z.D. Dushimova**, Candidate of Medicine, KazIOR, Almaty

**A.Zh. Zhylkaidarova**, Candidate of Medicine, KazIOR, Almaty

**E.I. Ishkinin**, PhD, Almaty Cancer Center, Almaty

**I.R. Khusainova**, Candidate of Psychology, KazIOR, Almaty

**O.V. Shatkovskaya**, MBA, KazIOR, Almaty

**The journal is in the List of official publications of the Committee for Quality Assurance in the Sphere of Education and Science MES RK recommended for the publication of the main results of scientific activity. The journal is cited in the RSCI database and has a non-zero impact factor. The journal has a non-zero impact factor in the Kazakhstani citation base of the National Center for Scientific and Technical Information.**

Abay Ave. 91, Office 905, Almaty 050022,  
the Republic of Kazakhstan,  
Kazakh Institute of Oncology and Radiology, JSC  
Tel. (727) 292 6961, email: [submit@oncojournal.kz](mailto:submit@oncojournal.kz)  
ISSN 1684-937X (Print)  
Registration Certificate No. 10248-Ж of 14.07.2009,  
No. 13574-Ж of 22.04.2013  
ISSN 2521-6414 (Online), registered at ISSN International Center  
on 24.07.2017  
URL: <http://oncojournal.kz/>

CSCSTI: 76.29.49  
ISSN: 2663-4864 (English version – Online),  
Linking ISSN (ISSN-L): 2663-4856.  
URL: [http://oncojournal.kz/english\\_version/](http://oncojournal.kz/english_version/)  
Dates of publication: 2017-9999.  
Registered at ISSN International Center on 26.02.2019  
Subscription index: 74684  
Publishing House: “Apple-print” Individual Entrepreneur  
Order No. 60. Circulation - 500 copies.  
The journal is published quarterly.

# Contents

## ORGANIZATION OF HEALTHCARE

**S.S. Dyakov, Zh.B. Telmanova, Z.A. Bilyalova, Zh.R. Azhetova, G.S. Igissinova, S.T. Orozbaev, I.O. Kudaibergenova, N.S. Igissinov.**  
 Evaluation of trends in oncological care for kidney cancer in Kazakhstan ..... 4

## EPIDEMIOLOGIE

**S.K. Menbaev.** COVID-19 prevalence among cancer patients in Kazakhstan..... 10

**K.T. Umurzakov, D.R. Kaidarova, G.M. Shalgumbayeva, D.O. Nikoleshvili, A.B. Khaitmat, S.O. Sagidullin, A.E. Ibraev.**  
 Prostate cancer epidemiology in the East Kazakhstan region, 2010-2019 ..... 18

## DIAGNOSTICS

**A.S. Kultaev, I.A. Zakiryarov.** S-Detect function as the latest method of ultrasound examination of mammary gland formations: Comparative characteristics ..... 24

**K.S. Pavlyuk, M.G. Leonov, A.V. Akobyan, T.V. Sinitskaya, O.V. Gospirovich, E.A. Artemova, Zh.B. Yeleubayeva.** Stages of cytological examination (using immunocytochemical examination) of effusion fluids ..... 33

## TREATMENT

**N.R. Abdukhalilov, A.A. Arynov, D.A. Bidaulet, A.A. Nurmanova, E.A. Seidalieva, V.V. Chursin.** Endotracheal tube cuff pressure control during anesthesia in cancer patients ..... 38

**K. Batyrbekov, A. Galiakbarova.** Endoscopic treatment of Barrett's esophagus in Kazakhstan ..... 42

## CLINICAL CASES

**M.E. Kaibarov, N.V. Sloneva, D.N. Akhmetov.** Reconstructive plastic surgery involving the pectoralis major muscle for basal cell carcinoma of the facial skin: A clinical case ..... 46

**D.R. Kaidarova, A.Zh. Abdrakhmanova, M.S. Dmitrenko, A.B. Baizhigitov, N.A. Chichua, K.K. Smagulova, R.Z. Abdrakhmanov, S.N. Kaldarbekov.**  
 Male breast cancer treatment: A clinical case..... 53

## LITERATURE REVIEWS

**A.T. Aubakirova, G.B. Abdilova, A.N. Nurgalyeva, G.K. Abdigakyeva, Ye. Serikuly, A.D. Baichalova.** The role of PIVKA-II tumor marker in hepatocellular carcinoma: A literature review ..... 59

**M.S. Dmitrenko, K.K. Smagulova, R.Z. Abdrahmanov, R.K. Raskaliev, I.T. Turkpenova, E.P. Medetbekova, S.N. Kaldarbekov, A.O. Kuanysh, Zh.S. Kenzhebayeva, D.U. Shayakhmetova, A.Zh. Zhiyenbayeva, A.K. Dzhakipbaeva.**  
 The use of immune checkpoint inhibitors in treating locally advanced and metastatic gastric cancer: A literature review ..... 64



### Dear readers!

Welcome to the pre-new year 4th issue of the "Oncology and Radiology of Kazakhstan" journal!

Another year is coming to its end. We are reflecting on our professional activities, sharing scientific progress, and planning new projects and research. We will be glad to continue publishing the results and experiences of our colleagues in our journal.

We recommend to carefully read the manual for authors on our website before submitting a manuscript.

In this issue, we present research results of domestic and foreign oncologists and specialists in related spheres, for example, the articles on the role of PIVKAlI tumor marker in hepatocellular carcinoma, a description of the stages of cytological examination using an immunocytochemical examination of effusion fluids, and information on the prevalence of COVID-19 among cancer patients in Kazakhstan.

The authors share the results of clinical cases of male breast cancer treatment, reconstructive plastic surgery involving the pectoralis major muscle for basal cell carcinoma of the facial skin, and the analysis of endotracheal tube cuff pressure control during anesthesia in cancer patients.

We also offer literature reviews on prostate cancer epidemiology in the East Kazakhstan region and the use of checkpoint inhibitors in treating locally advanced and metastatic gastric cancer.

Traditionally, the issue contains an article in English, "Endoscopic treatment of Barrett's esophagus in Kazakhstan."

Dear readers, we are looking forward to your new manuscripts and exciting results. Happy New Year! We wish you health, creative ideas and high achievements!

*Respectfully Yours,*  
**Dilyara Kaidarova,**  
*Editor-in-Chief of the "Oncology and Radiology of Kazakhstan" journal*