



**M.A. Mambetov,
O.A. Bolbachan, D.D. Ibraimova**

MEDICAL STATISTICS

STATE EDUCATIONAL INSTITUTION
OF HIGHER PROFESSIONAL EDUCATION
KYRGYZ-RUSSIAN SLAVIC UNIVERSITY
named after the first President
of the Russian Federation B.N. Yeltsin

FACULTY OF MEDICINE
Department of public health and health care

**M.A. Mambetov,
O.A. Bolbachan, D.D. Ibraimova**

MEDICAL STATISTICS

**Educational and methodological recommendations
for foreign students**

*Посвящается 30-летию
Кыргызско-Российского Славянского
университета имени Б.Н. Ельцина*



Bishkek 2023

UDC 614.2
M 42

Reviewers:

Z.A. Aidarov, doctor of med. sciences, Associate Professor,
I.K. Akhunbaev Kyrgyz State Medical Academy,
A.T. Sharaeva, candidate of med. sciences, Associate Professor,
B.N. Yeltsin Kyrgyz-Russian Slavic University

Recommended for publication by the Academic Council of State
educational institution of higher vocational education
B.N. Yeltsin Kyrgyz-Russian Slavic University

Mambetov M.A. et al.

M 42 MEDICAL STATISTICS: educational and methodological
recommendations for foreign students / M.A. Mambetov,
O.A. Bolbachan, D.D. Ibraimova. – Bishkek: KRSU Publishing
House, 2023. –56 p.

The educational and methodological recommendation presents
tasks, control questions, tests on each topic and methods for calculating
the main statistical values.

Intended for foreign medical students.

CONTENTS

Topic 1. Subject and content of medical statistics. Statistical research organization.....	4
Topic 2. Relative values.....	6
Topic 3. Variation series and average values.....	9
Topic 4. Selective method and assessment of the reliability of research results.....	15
Topic 5. Dynamic series.....	17
Topic 6. Correlation.....	19
Topic 7. Regression.....	22
Topic 8. Types of graphic presentation.....	24
Topic 9. General medical and demographic indicators.....	26
Topic 10. General medical and demographic indicators.....	28
Topic 11. Incidence rate.....	30
Topic 12. Disability indicators.....	
Methodology for calculating statistical indicators required for solving problems.....	32 52
Applications.....	54
References.....	

REFERENCES

1. *Abdullin K.D., Bolbachan O.A.* Medical statistics. Bishkek: KRSU Publishing House, 2006. – 128 p.
2. *Bowers David.* Medical statistics from scratch: an introduction for health professionals / David Bowers. 2nd ed.– 2008. – 302 p.
3. Medical statistics (methodological manual). Compiled by: Doctor of Medical Sciences, Professor N.E. Chernova et al. / Edited by Associate Professor K.D. Abdullin. – Bishkek, 1999.
4. *Merkov A.M., Polyakov L.E.* Sanitary statistics. – Leningrad: Medicine, 1974. – 184 p.
5. Public health and activities of health care institutions KR in 2020 / MH KR Republic medical information center. – Bishkek, 2021. – URL: http://www.cez_med_kg
6. *Petri, A.* Visual medical statistics: textbook / A. Petri, K. Sabin; per. with English ed. V.P. Leonova. 3rd ed. – M.: GEOTAR-Media, 2015. – 216 p.

*M.A. Mambetov,
O.A. Bolbachan, D.D. Ibraimova*

MEDICAL STATISTICS

Educational and methodological recommendations
for foreign students

Computer layout *A. Zaplatina*

Signed to print 02.11.2023.

Format 60×84 ¹/₁₆. Offset printing.
Volume 3,5 printed sheet. Circulation 100 copies. Order 29.

KRSU Publishing House,
44 Kievskaya street, Bishkek, 720000