# **CURRICULUM VITAE**

# Kostadin Rangelov Kostadinov, MD, MPH, MEcon

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# Personal data

Date of birth

- 1992-04-01
- Plovdiv, Bulgaria

# **Education**

10/2021-09/2022

• Master of Economics and Finance | Sofia University "Kliment Ohridski" | Faculty of Economics and Business Administration

10/2017-09/2019

• Master of Public Health and Health Management | Medical University Plovdiv | Faculty of Public Health

09/2012-12/2017

•	Master's degree in Medicine	Medical university - Plovdiv	Faculty of Medicine

# Work experience

# 09/2021-present

- · Medical university Plovdiv
  - Assistant professor in the Department of Social Medicine and Public Health
  - Teaching and practical classes in the disciplines of medical ethics; biostatistics; social medicine and public dental health.

# 12/2020-present

- Clinic "Medicus Alpha"
  - Healthcare | Physician
  - Diagnostic and therapeutic activities in the field of internal medicine and cardiology.

# 12/2017-03/2020.

- University Hospital "Plovdiv"
  - Healthcare | Resident doctor
  - Diagnostic and therapeutic activities in the field of internal medicine and cardiology.

# **NGO Memberships**

# 2021 - present

· Doctors Network "Air for Health"

# 2013 - present

• "European Network for Creativity and Innovation"

## 2011-2017

• Student Council President | President of the GA

### 2012-2017

• Association of Medical Students in Bulgaria | Chairman of the Control Council | Secretary

# Personal skills and competences

# **Teaching**

- Winter semester 2021/22: Biostatistics | Medical Ethics | Public Dental Health
- Summer semester 2021/22: Social Medicine and Public Health
- Winter semester 2022/23: Biostatistics | Medical Ethics | Public Dental Health
- Summer semester 2022/23: Social Medicine and Public Health
- Winter semester 2023/24: Biostatistics | Medical Ethics | Public Dental Health | Clinical Trial Design and Non-Interventional Studies
- Summer semester 2023/24: Social Medicine and Public Health
- Winter semester 2024/25: Biostatistics | Medical Ethics | Public Dental Health | Clinical Trial Design and Non-Interventional Studies

# Language

# Bulgarian

Native

# English

First Certificate in English (FCE) - Cambridge English Language Assessment | Reading C1
Writing B2 | Use of English C1 | Listening B2 | Speaking C1

## Social

Engaging in academic and instructional endeavors within a diverse setting encompassing students from medical, dental, pharmacy, and nursing disciplines. Contributing to postgraduate programs with attendees hailing from various continents. Actively involved in social and charitable initiatives of non-profit and non-governmental entities. Professional development in Ireland, Greece, Austria, and Finland.

# Computer skills

Programming languages and tools

- Data analysis R | Python | SPSS | SAS | STATA | Orange | Jamovi | JASP
- Other Linux; R studio; MySQL; Latex; VS code; html; CSS; Quarto; Pandoc; Microsoft 365; Google Workspace

## Other

Driving license

# Professional organization membership

# **National**

2016 Youth Scientific Society "Asclepius"

2017 Bulgarian Medical Association

2017 Society of Cardiologists in Bulgaria

2020 Bulgarian Scientific Society of Public Health

2020 Bulgarian Public Health Association

2016 Association of trainers and researchers in general medicine in Bulgaria

2020 Association for Social Research and Applied Research Practices

# **International**

2020 European Public Health Association2022 World Federation of Public Health Associations (WFPHA)

# **Publications**

- 1. Atanasov I, Dudulova V, Stoykova G, Lengerova G, Kostadinov K, Hristova E, et al. Quality of life in south central region of bulgaria preliminary results by employment status from an EQ-5D study. Varna medical forum, black sea symposium for young scientists in biomedicine. 2016.
- 2. Garnier N, Berghout J, Zygmunt A, Singh D, Huang KA, Kantz W, et al. Genetic newborn screening and digital technologies: A project protocol based on a dual approach to shorten the rare diseases diagnostic path in europe. PLOS ONE. 2023;18: e0293503. doi:10.1371/journal.pone.0293503
- 3. Guevara K, Kostadinov K. Neurological soft signs and social cognition in patients with schizophrenia: The missing link. Proceedings of the Bulgarian Academy of Sciences. 2023;76: 1440–1448. doi:10.7546/CRABS.2023.09.15

- 4. Hristova E, Atanasov I, Dudulova V, Lengerova G, Kostadinov K, Iskrov G, et al. Quality of life in the southwest region preliminary results by gender and age from a representative EQ-5D study (in bulgarian). Science and youth (наука и младост). 2016. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/Sbornik-nauka-i-mladost-2016.pdf
- 5. Hubenova M, Kostadinov K. Change in eating habits during the COVID-19 confinement. General Medicine. 2022;24: 23–29. Available: https://www.scopus.com/inward/record.uri?eid = 2-s2.0-85131335656&partnerID = 40&md5 = 960321f2fcf677479ecd9d43d8f6d6d0
- 6. Ignatova V, Kostadinov K, Vassileva E, Muradyan N, Stefanov G, Iskrov G, et al. Socio-economic burden of myasthenia gravis: A cost-of-illness study in bulgaria. Front Public Health. 2022;10. doi:10.3389/fpubh.2022.822909
- 7. Iskrov G, Raycheva R, Kostadinov K, Gillner S, Blankart CR, Gross ES, et al. Are the european reference networks for rare diseases ready to embrace machine learning? A mixed-methods study. Orphanet Journal of Rare Diseases. 2024;19: 25. doi:10.1186/s13023-024-03047-7
- 8. Kelly P, Saab MM, Hurley EJ, Heffernan S, Goodwin J, Mulud ZA, et al. Trauma informed interventions to reduce seclusion, restraint and restrictive practices amongst staff caring for children and adolescents with challenging behaviours: A systematic review. Journal of Child and Adolescent Trauma. 2023. doi:10.1007/s40653-023-00524-2
- 9. Kevorkyan A, Kostadinov K, Rangelova V, Raycheva R. COVID-19 in bulgaria: Epidemiological analysis (in bulgarian). Paisii Hilendarski University Press; 2023.
- 10. Kiani F, Kostadinov K, Stefanov R, Mandova V. Dentophobia-latent component factor analysis of dental concerns assessment scale. Open Access Maced J Med Sci. 2023;11: 53–58. doi:10.3889/oamjms.2023.9749
- 11. Kostadinov K, Stefanova M, Delcheva G, Maneva A. Molecular mechanisms of endoplasmic stress (in bulgarian). Science and youth (наука и младост). 2013. pp. 327–340. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/mnd\_2013.pdf
- 12. Kostadinov K, Tsvetkov E, Gurddev N. Therapeutic strategies for the treatment of type II diabetes (in bulgarian). Science and youth (наука и младост). 2014. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/sbornik-2014.pdf
- 13. Kostadinov K, Tsvetkov E, Yankov I. Liver disease associated with cystic fibrosis (in bulgarian). Rare Diseases and Orphan Drugs (Редки болести и лекарства сираци). 2019;9. doi:10.36865/2018.v9i2.93

- 14. Kostadinov K, Kehayov D, Tsvetkov E, Kondareva R, Khavalova A, Hristova E. Wegener's granulomatosis clinical aspects, diagnosis, and pathomorphology (in bulgarian). Rare Diseases and Orphan Drugs (Pegku δολες u λεκαρς α cupaцu). 2019;6. doi:10.36865/2015.v6i1.92
- 15. Kostadinov K, Kehayov D, Tsvetkov E, Kondareva R, Khavalova A, Hristova E. Extrapulmonary sarcoidosis a clinical case of a 13-year-old boy (in bulgarian). Rare Diseases and Orphan Drugs (Pegku δολες u λεκαρς αυραμμ). 2019;6. doi:10.36865/2015.v6i1.92
- 16. Kostadinov K, Stefanov G, Iskrov G, Stefanov R. Epidemiology of acquired thrombotic thrombocytopenic purpura. Rare Diseases and Orphan Drugs. 2020;11: 36–44. doi:10.36865/2020.v11i3.122
- 17. Kostadinov K, Musurlieva N. Historical overview of the definition of rare tumors in the context of health policies. Rare Diseases and Orphan Drugs Journal. 2023;14: 6–12. doi:10.36865/2023.v14i2.182
- 18. Kostadinov K, Musurlieva N. Rare tumors in the context of assisted reproduction (in bulgarian). Journal "Medical Law and Healthcare" (Cnucanue "Meguquncko npaβo u 3gpaβeonaββane"). 2023;4: 6–12.
- 19. Kostadinov K, Marinova Y, Dimitrov K, Hristova-Atanasova E, Iskrov G, Stefanov R. Navigating gene therapy access: The case of bulgaria in the context of the EU regulatory landscape. Healthcare. 2024;12: 458. doi:10.3390/healthcare12040458
- 20. Raycheva R, Kostadinov K, Mitova E, Bogoeva N, Iskrov G, Stefanov G, et al. Challenges in mapping european rare disease databases, relevant for ML-based screening technologies in terms of organizational, FAIR and legal principles: Scoping review. Frontiers in Public Health. 2023;11. doi:10.3389/fpubh.2023.1214766
- 21. Raycheva R, Kostadinov K, Mitova E, Iskrov G, Stefanov G, Vakevainen M, et al. Landscape analysis of available european data sources amenable for machine learning and recommendations on usability for rare diseases screening. Orphanet Journal of Rare Diseases. 2024;19: 147. doi:10.1186/s13023-024-03162-5
- 22. Raycheva R, Kostadinov K. HTA69 delay of innovative oncology treatments case from bulgaria. Value in Health. 2022;25: S309–S310. doi:10.1016/j.jval.2022.09.1529
- 23. Raycheva R, Kostadinov K. HTA7 the price of innovation oncology treatments expenditures: Case from bulgaria. Value in Health. 2023;26: S260. doi:10.1016/j.jval.2023.03.1436

- 24. Selimov P, Karalilova R, Yakov I, Geneva M, Batalov A, Popova V, et al. Tophi in the hands and feet in chronic gout a complication that worsens the quality of life of affected patients (in bulgarian). Science and youth (Hayka u MAAGOCM). 2014. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/sbornik-2014.pdf
- 25. Tsvetkov E, Kostadinov K. Survey of sexual culture and education among high school students (in bulgarian). Science and youth (Hayka u MAAGOCM). 2013. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/mnd\_2013.pdf
- 26. Tsvetkov E, Kostadinov K, Gurdev D. Side effects of rheumatoid arthritis treatment with cortisone medications (in bulgarian). Science and youth (Hayka u MAgocm). 2014. Available: https://asclepius.bg/cnm/wp-content/uploads/2022/05/sbornik-2014.pdf
- 27. Bechev K, Yotova NI, Kostadinov K, Ilyov I, Markov D. Anatomical features and morphometric characteristics of the sphenoidal sinus in MRI studies. Cureus. 2024. doi:10.7759/cureus.66764

# **Project activity**

# **University projects**

# 09/2021

• "Rapid microbiological diagnosis of genital infections in women and men - comparative analysis" № NO-03/2020 (NO-P-8445). Research project funded under the Regulation of the Ministry of Education and Science of 01.01.2017 on the conditions and procedure for planning, allocation and spending of funds earmarked from the state budget for the scientific or artistic-creative activities inherent to higher education institutions.

#### 09/2022

 "Antimicrobial activity of canal filling agents for the treatment of endodontic infection of temporary teeth" | PhD and postdoctoral projects | 04/01.09.2021

## 09/2023

 "Study of the relationship between unculturable and difficult-to-cultivate microorganisms with fertile function in men with symptomatic and asymptomatic lower genitourinary tract infections" | Intramural project No: NO-17/2023

## 10/2023

• "Comparative study on modern microbiological methods for rapid etiological diagnosis of urinary tract infections" | PhD and postdoctoral projects | 10/2023

# **National projects**

## 04/2021

• National scientific program "Young scientists and postdoctoral fellows" | P-322/08.03.2021

# **International projects**

#### 3-17/11/2013

 Nuclear Pharmacy Integrated Course for Students in Pharmacy, Medicine, Medical Physics and Nuclear Chemistry (NuPhICos) | Erasmus Intensive Program Project | 2013-1-BG-ERA10-00320

# 06-08/09/2014

• European Medical Students Congress | "Rare diseases and orphan Drugs" | Plovdiv

#### 02/2020

 Promoters of advanced oncogenetics open online training and multimedia raise awareness on multidisciplinary assessment of patients and their families at risk of hereditary or familial cancer | HOPE How Oncogenetics Predicts & Educates | Erasmus+ program | 2018-1-RO01-KA202-049189

#### 03/2020-05/2020

• "Interdisciplinarity, multiculturalism and patient handling in non-standard situation in the context of didactic activities in the field of medical sciences and health sciences in Simulation Medical Centres" | project No. 2019-1-PL01-KA203-065205 under the Erasmus Programme | Key Action 2: Cooperation for innovation and the exchange of good practices | KA 203: Strategic partnerships for higher education

### 09/021

 Screen4Care - Shortening the path to rare disease diagnosis by using newborn genetic screening and digital technologies | the Innovative Medicines Initiative | Joint Undertaking (JU) under grant agreement No 101034427

#### 02/2022

• Caring violent child safely in child psychiatric and residential units | Erasmus+ Programme | Key Action 2 | Agreement number: 2021-1-FI01-KA220-HED-000032106

#### 04/2023

 Developing multi-professional Higher Education for promoting mental health and wellbeing at schools | Project Reference: 2020-1-FI01-KA203-066521

## Clinical trials

#### 2018-2019

- ApoA-I Event reducinG in Ischemic Syndromes II (AEGIS II) | Study Coordinator
- Atrial fibrillation integrated approach in frail, multimorbid, and polymedicated older people (AFFIRMO) | monitor

# **Congresses**

## **National**

#### 27-29/09/2019

• 11th scientific meeting-training of SOIBOM" | *The way of the patient with cardiovascular diseases* " Oral presentation "Clinical case of valvular atrial fibrillation\*"

#### 28/11/2020

• Virtual Congress Center "Rare Diseases and Orphan Drugs" | "Acquired Thrombotic Thrombocytopenic Purpura on the Path of Challenges"

#### 09-11/03/2021

- Science and Youth 2021 Conference
- 1. "Changing dietary habits and behaviour during the anti-epidemic measures imposed on the occasion of COVID 19". | Oral presentation. | M. Kostadinov K. Mandova V.
- 2. "Change in physical activity in the context of anti-epidemic measures" | Oral presentation | Kostadinov K. Hubenova M. Mandova V.
- 3. "Oral health self-assessment among haemophilia families" | Victoria Mandova, Kostadin Kostadinov, Rumen Stefanov

#### 13-14/05/2021

- XIVth National Scientific and Technical Conference with foreign participation "Ecology and Health"
- "Contemporary microbiological and molecular biological screening of genital infections in symptomatic non-pregnant women" | Eli Hristozova, Zoya Rachkovska, Tihomir Dermendzhiev, Mariana Murdjeva, Vida Georgieva, Ekaterina Uchikova, Kostadin Kostadinov | MU Plovdiv"

#### 14-16/09/2021

• XVIII National Congress on Clinical Microbiology and Infections of the Bulgarian Association of Microbiologists | "Rapid molecular biological screening for vaginal candidiasis in symptomatic women" | Hristozova E., Rachkovska, Georgieva V., Dermendzhiev T., Kostadinov K., Vlahova M., Uchikova E., Murdjeva M. (poster)

#### 15-16/09/2022

- XX Jubilee National Congress on Clinical Microbiology and Infections of the Bulgarian Association of Microbiologists
- 1. "Investigation of the urethral microbiome with androflor screen in men with nonspecific genital symptoms in a covid-19 pandemic setting" | E. Hristozova, T. Dermendzhiev, Z. Raczkowska, V. Georgieva, K. Kostadinov, Ts. Pavlov, M. Murdjeva | incl. in the Proceedings
- 2. "Omicron reassurance or challenge?" | M. Atanasova, N. Korsun, R. Komitova, K. Kostadinov, I. Alexiev, R. Raicheva, I. Ivanov, L. Petkova, L. Joglova | incl. in Proceedings

#### 30/09/2022-01/10/2022

• Fourth National Conference on Epidemiology | "Infectious Diseases in Bulgaria- Problems and Perspectives" | "COVID-19 in Bulgaria and the impact of vaccines on hospitalization, mortality and lethality" | A. Kevorkian, **K. Kostadinov**, V. K. A. Kunchev, A. Serbezova

#### 16/12/2022

• Effects of DCEA as a streoid precursor on immunological reactivity in different occupational groups in distress. | Maria Ivanovska, Petya Angelova Gardzheva, Dora Dimitrova Terzieva, Nonka Georgieva Mateva, **Kostadin Rangelov Kostadinov**, Teodora Mitkova Kalfova, Mariana Atanasova Murdzheva | Poster | Annual Scientific Conference on Immunology | Bulgarian Association of Clinical Immunology.

## **International**

### 27/03/2021

• 8th annual symposium "HTA assessment – strategies for accelerated access" | Institute for Rare Diseases

#### 20-23/10/2022

• Joint Forum: 12th South-East European Conference and 32nd Annual Assembly of IMAB | "Antimicrobical activity of root canal filling materials for endodonic treatment in primary dentition" | Maria Shindova, Eli Hristozova, Plamen Katsarov, Michael Onov, Kostadin Kostadinov, Vasko Toplev, Ani Belcheva

#### 6-9/11/2022

• *Delay of Innovative Oncology Treatments* - *Case From Bulgaria* | Poster session, Raycheva R, **Kostadinov K**; | 2022-11 | ISPOR Europe 2022 | Vienna, Austria

#### 15-8/04/2023

• 33-rd European Congress of Clinical Microbiology and Infectious Diseases | "Impact of COVID-19 vaccines -data from Bulgaria" | Ani Kevorkyan, Kostadin Kostadinov, Vania Rangelova, Ralitsa Raycheva, Angel Kunchev

## 4-11/03/2023

• 41th European Winter Conference on brain research (EWCBR) | *Immunological reactivity under acute and chronic stress. Where are we? Experience in Bulgaria.* | M. Ivanovska, T. Kalfova, P. Gardjeva, K. Kostadinov, M. Murdjeva

#### 14/09/2023

• Webinar: EU Health Technology Assessment Regulation | The role and involvement of Cancer Patients | Landscape of Bulgarian HTA regulations. | Kostadinov K | Belgium

#### 5/04/2024

• 10th International Symposium - Health Technology Assessment and Neonatal Screening | Sofia, Bulgaria

#### 6-8/02/2024

• 4th Fair Pricing Forum | World Health Organisation

# **Training; Education; Certification**

# **Trainings**

#### 24-25/09/2011

• Medical University Plovdiv | "Emergency Care in Medicine" | Plovdiv

#### 22-23/11/2012

 National Program for Prevention and Control of HIV and Sexually Transmitted Infections in the Republic of Bulgaria 2008-2015 | "Treatment and Care for People Living with HIV/AIDS and Reducing Stigma and Discrimination" | Plovdiv

## 16/12/2012

Tokuda Hospital Sofia | "Basic surgical skills"

# 20-21/10/2014

• Programme funded by the Global Fund to Fight AIDS, Tuberculosis and Malaria | "Diagnosis, care and treatment of people living with HIV/AIDS (PLWHA) | Plovdiv

## 24-28/04/2017

• National Institute of Radiobiology and Radiation Protection | "Medical support in radiation, nuclear accidents and terrorism emergency preparedness" | Sofia

#### 15-17/07/2018

• Scientific Symposium | "Acute Coronary Syndrome" | Plovdiv

## 7-9/11/2019

• Scientific Symposium | "Tachyarrhythmias and Syncope"

# International postgraduate courses

#### 1-2/12/2017

Critical appraisal course | Sofia CPD

# 10-15/10/2022

• Open Medical Institute (OMI) Seminar | "Economic Evaluation in Healthcare" | Maastricht University program | Salzburg, Austria

## 03-09/12/2023

• Open Medical Institute (OMI) Seminar | "Public Health Strategy - I" | Maastricht University program | Salzburg, Austria | Certificate of excellent presentation

#### 04/2024 - 09/2024

• OpenAQ Community Ambassador Program. | The OpenAQ program includes a comprehensive curriculum on ambient air pollution, air quality monitoring, data transparency, data access, data analysis, participatory research and community engagement.

## 26/05/2024 - 01/06/2024

• Open Medical Institute (OMI) Seminar | "Public Health Strategy - II" | Maastricht University program; Salzburg, Austria, Certificate of excellent presentation

# National postgraduate courses

# 10/11/2017

• National Heart Hospital | "Echocardiographic Assessment of Cardiac Function"

#### 19-20/10/2018

• First School of Echocardiography | Sofia | "Introduction to echocardiographic diagnostics"

#### 22-23/02/2019

 Second school of echocardiography | Sofia | "Echocardiographic evaluation of congenital and acquired cardiovascular diseases"

#### 24-25/10/2019

• Third School of Echocardiography | Sofia | "New Ultrasound Methods in Cardiology"

## 22-26/03/2021

• Course "Biostatistics with IBM SPSS Statistics for Windows, Version 22.0"

#### 03/2020

- English for academic purposes | Irina Mittercheva, PhD | Department of Language Education (DESO) | MU-Plovdiv
- Linguistic Issues of Scientific and Medical Text | Department of Language Education (DESO) | MU-Plovdiv, Assoc. Prof. Milieva, PhD

## 06/2021

• Intensive specialized course | "Academic writing, development of Cochrane systematic reviews" | MU-Plovdiv | "COVID-19 HUB - Information, innovation and implementation of integrative scientific developments"

## 09/2021

• "Machine Learning" Postgraduate course | SoftUni