

# CURRICULUM VITAE

Kostadin Rangelov Kostadinov, MD, MPH, MEcon

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## Personal data

Date of birth

- 1992-04-01
  - Plovdiv, Bulgaria
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## Education

10/2021-09/2022

- Master of Economics and Finance; Sofia University “Kliment Ohridski”; Faculty of Economics

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
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## Work experience

09/2021-present

- Medical university - Plovdiv
  - Assistant professor in the Department of Social Medicine and Public Dental 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 activity in the field of internal medicine and cardiology.

12/2017-03/2020.

- University Hospital “Plovdiv”
  - Healthcare.
  - Resident doctor
  - Diagnostic and therapeutic activity 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
- *Data mining* **Orange**; SPSS Modeler
- *Data presentation* **R**; Tableau; RAW; PowerBI
- *Other* Linux; R studio; MySQL; Latex; VS code; Quarto; Pandoc; Microsoft 365; Google Workspace; Git; GitHub; Markdown; HTML; CSS.

## 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 Association

2022 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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 (Университетско издателство „Паисий Хилендарски“); 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](https://doi.org/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](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](https://doi.org/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 (Редки болести и лекарства сираци). 2019;6. doi:[10.36865/2015.v6i1.92](https://doi.org/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 (Редки болести и лекарства сираци). 2019;6. doi:[10.36865/2015.v6i1.92](https://doi.org/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](https://doi.org/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](https://doi.org/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" (Списание "Медицинско право и здравеопазване"). 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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 (наука и младост). 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 (наука и младост). 2013. Available: [https://asclepius.bg/cnm/wp-content/uploads/2022/05/mnd\\_2013.pdf](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 (наука и младост). 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](https://doi.org/10.7759/cureus.66764)
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## 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 DPDP 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 DPDP 10/2023

## **National projects**

31/10/2013

- Project BG05PO001-3.3.07-0002 “Student Practices”

09/2015

- K-Trio/ contract 633175 “Night of the Scientists” 2015.

04/2021

- National scientific program “Young scientists and postdoctoral fellows” P-322/08.03.2021

## **International projects**

3-15/09/2012

- Nuclear Pharmacy Integrated Course for Students in Pharmacy, Medicine, Medical Physics and Nuclear Chemistry (NuPhICos).Logistics assistant Erasmus Intensive Program Project 2012-1-BG-ERA10-07058

28/09/2012

- IN CLOSE- INNOVATIONS “New Composers and Opportunities for Sustainable Development” FP7-CSA-2012-316611, FP7-PEOPLE-2012-RESEARCHERS’ NIGHT

1-9/09/2013

- ITC “ACCESS-INCLUSION-GROUGHT” Youth in Action, EU, Greece

3-17/11/2013

- Nuclear Pharmacy Integrated Course for Students in Pharmacy, Medicine, Medical Physics and Nuclear Chemistry (NuPhICos).Active participant. 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 cancerHOPE How Oncogenetics Predicts & Educates Erasmus+ program.2018-1-RO01-KA202-049189

06-08/09/2014

- European Medical Students Congress “Rare diseases and orphan Drugs”, Plovdiv

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 2 Joint Undertaking (JU) under grant agreement No 101034427.

02/2022

- Caring violent child safely in child psychiatric and residential units under the 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 well-being 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” **K.Kostadinov**

28/11/2020

- Virtual Congress Center “Rare Diseases and Orphan Drugs” ***“Acquired Thrombotic Thrombocytopenic Purpura on the Path of Challenges”*** K.Kostadinov

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. (lecture)
- 2. ***“Change in physical activity in the context of anti-epidemic measures”*** Oral presentation **Kostadinov K.** Khubenova M. Mandova V. (lecture)
- 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”
- 1. ***“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-paper). Annual Scientific Conference on Immunology, Bulgarian Association of Clinical Immunology.

## International

20-23/10/2022

- Joint Forum: 12th South-East European Conference and 32nd Annual Assembly of IMAB. ***“Antimicrobial activity of root canal filling materials for endodontic 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; Value in Health, Volume 25, Issue 12S (December 2022)

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.
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## Training; Education; Certification

### National trainings

24-25/09/2011

- Medical University Plovdiv “Emergency Care in Medicine” NO-17/2011 gr. Plovdiv 22-23. november. 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” gr. 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) for the needs of the PFGF” gr. Plovdiv

24-28/04/2017

- National Institute of Radiobiology and Radiation Protection “Medical support in radiation, nuclear accidents and terrorism emergency preparedness” gr. Sofia

15-17/07/2018

- Scientific Symposium “Acute Coronary Syndrome” gr. Plovdiv

7-9/11/2019

- Scientific Symposium “Tachyarrhythmias and Syncope” 22-23 November 2019. 3rd School of Echocardiography. “New echographic methods in cardiology”.

1-2/12/2022.

- Final conference of the National Program “Electronic Healthcare in Bulgaria”

## International congresses and postgraduate courses

1-2/12/2017

- Critical appraisal course, Sofia CPD

27/03/2021

- 8th annual symposium “HTA assessment – strategies for accelerated access” Institute for Rare Diseases

10-15/10/2022

- Open Medical Institute (OMI) Seminar “Economic Evaluation in Healthcare”; Maastricht University program; Salzburg, Austria

5/04/2024

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

03-09/12/2023

- Open Medical Institute (OMI) Seminar “Public Health Strategy - I”; Maastricht University program; Salzburg, Austria, Certificate of excellent presentation

6-8/02/2024

- 4th Fair Pricing Forum; World Health Organisation

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

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” Contract KP - 06-DK1/6 of 29.03.2021 “COVID-19 HUB - Information, innovation and implementation of integrative scientific developments”, funded under a competition related to the pandemic of COVID-19, at the Fund “Scientific Research”

09/2021

- “Machine Learning” Postgraduate course; SoftUni