

CURRICULUM VITAE

Name: Zsombor Zrubka MD, MBA, PhD

EDUCATION AND ACADEMIC DEGREES

2019 PhD, Corvinus University of Budapest, Doctoral School of Management, Health Economics Section

2006 MBA at Oxford Brookes University – Omegaglen

1997 Medical doctor at Semmelweis University, Budapest

PROFESSIONAL EXPERIENCE IN ACADEMIA

2020– Associate professor, head of HECON–Health Economics Research Center, Óbuda University

2020– Part-time research fellow, Corvinus Institute for Advanced Studies, Corvinus University of Budapest

2020–2020 Senior lecturer, Department of Health Economics, Corvinus University of Budapest

2019–2020 Assistant professor, Department of Health Economics, Corvinus University of Budapest

2019– Professional coordinator, research project lead at Corvinus University of Budapest, Thematic Excellence Program (NKFIH-869-4/201) National Research, Development and Innovation Office

2018–2020 Assistant research fellow, Corvinus University of Budapest

2015–2019 PhD candidate, Department of Health Economics, Corvinus University of Budapest

1999–2000 PhD candidate, Semmelweis University of Medicine

PROFESSIONAL EXPERIENCE IN THE PHARMACEUTICAL INDUSTRY

2015 – 2017 Head of Specialty Business Unit

Sandoz Hungary Plc.

2011 – 2015 International biotechnology and oncology marketing team leader, International Business Unit Manager Biotechnology and Oncology, International Business Unit Manager Biotechnology

Egis Pharmaceuticals Plc.

2010 – 2011 Business development manager

2010 Head of marketing Business Unit 1

Pfizer Hungary

2009-2010 Medical team leader psychiatry / Zeldox - Specialty Care Business Unit Europe /
Australia New Zealand

Employer: Pfizer Hungary, team location: Paris, France

2006-2009 European Brand manager, Senior European Brand Manager Zeldox European Brand
Team (EBT), Zeldox, Neuroscience European Brand Team; Pfizer UK, Pfizer Germany

2002-2006 Product manager

Pfizer Hungary

2000-2002 Sales representative

Janssen-Cilag, division of Johnson & Johnson Ltd.

PROFESSIONAL EXPERIENCE IN HEALTHCARE

1998–2000 Child psychiatrist
Vadaskert Clinic of Child and Adolescent Psychiatry

1997-1998 Resident in psychiatry
National Institute of Psychiatry and Neurology

OTHER FUNCTIONS IN HIGHER EDUCATION

2018–2020 Member, Scientific Council at Corvinus University of Budapest

EDUCATION EXPERIENCE IN HIGHER EDUCATION

2022 Contribution to the development of the Innovation Management PhD Program at Óbuda University, member of the founding board.

2022 Development and leading PhD course in English (Doctoral School of Applied Mathematics and Applied Informatics, Óbuda University): Quantitative synthesis of scientific evidence related to health, meta-analysis

2021 Project member – contribution to the development of the Business Informatics Masters Program and the Hospital Technology Masters Program at Óbuda University, development of courses

2020 BSc / MSc course development in English: Introduction to Health Economics, The Economics of Health Technology Innovation (Óbuda University)

2020 Project member - Data Science Programme Development, Corvinus University of Budapest

2018 Subject development in English language: Economics of Healthcare Innovation (MSc/BSc)

2015–2020 Education in Hungarian / English (BSc /MSc)

Quantitative data analysis; Health policy and financing, Health economics, Introduction to health economics. Transforming two courses to online form.

2011–2015 Guest lecturer at Corvinus University of Budapest, lectures in Hungarian and English language in Health Policy and Financing and Health Economics courses

2000 PhD candidate Semmelweis University of Medicine, Doctoral School Participation in clinical research and education projects.

TALENT MANAGEMENT EXPERIENCE IN HIGHER EDUCATION

2019– PhD supervision in Hungarian and English language: Kopcsónén Németh Irén Anna (part-time, year of graduation: 2021) Omar Rashdan (part-time, year of graduation: 2021), Hosein Motahari Nezhad, expected time of graduation: 2023, Meriem Fgaier, Hana Al-Abdulkarim, Barbara Tóth expected time of graduation 2025

2022 Member of PhD complex examination board: Nóra Radó (Semmelweis University)

- 2021 Member of PhD defence committee: Ágnes Györgyey (Semmelweis University)
- 2020 PhD opposer: dr. Márta Szegedi, Semmelweis University School of PhD studies.
- 2019– Scientific Study Circle supervision in Hungarian and English languages: Áron Pap, Dorottya Horváth, Barbara Tóth (2020. Health Economics Section 2nd place)
- 2019– Master’s thesis supervision in Hungarian and English languages 2019: Mmushi Matjila (excellent), Anna Arunashvili (excellent), 2020: Barbara Tóth (excellent), Gabriella Kiss (excellent), Francesca Lombardo (in progress)

AWARDS IN HIGHER EDUCATION

- 2021 European Doctoral Programmes Association of Business and Management - EDAMBA 2021 Thesis Competition 2nd prize
- 2019 Award of the Student Council of Corvinus University of Budapest, Best lecturer of 2nd semester 2019; 3rd place

EXPERIENCE IN RESEARCH AND RESEARCH MANAGEMENT

- 2022 Professional lead at University of Obuda and Work Package 7 (dissemination and communication): EcoAction – action to boost innovation ecosystem impact through cross-partner learning. An international consortium of higher education institutions and business support organisations from Finland, Austria, Germany, Portugal, Spain and Hungary
- 2022 Management Committee member of COST ACTIONCA21147 - European Network on Optimising Treatment with Therapeutic Antibodies in chronic inflammatory diseases (ENOTTA) 2022 Head of EcoAction at Óbuda University, an international consortium funded by the European Institute for Innovation and Technology
- 2021 Key contributor in the Thematic Excellence Program: Development and assessment of Innovative Digital Health Technologies (TKP2021-NKTA-36)
- 2021 Contribution to the Measuring university excellence in the V4 region; eliminating invisibility and getting recognition research project, supported by Visegrad Fund
- 2021-2022 Research project lead in the Tématerületi Kiválósági Program funding scheme at Corvinus University of Budapest, financed under TKP2020-NKA-02 of the National Research, Development and Innovation Fund of Hungary
- 2020-2021 Contributor to the European Research Council (ERC) Horizon 2020 research and innovation programme (grant agreement No 679681)
- 2020 ISPOR (International Society for Pharmacoeconomics and Outcomes Research) Digital Health Special Interest Group: participation in the Categorization and Definitions of Digital Health Interventions Scoping Review project
- 2020 Professional organizer of the Corvinus Health Policy and Health Economics Conference Series 2020/I. (Corvinus University of Budapest, 2020.02.25.) Title: The Value of Digital Health, Is Health Economics Ready for Digital Transformation? Invited speakers: dr. Katarzyna Kolasa (Kozminski University, Warsaw), István Csizmadia (ÁEEK), Gergő Merész (OGYÉI), Zsolt Szombathelyi (Richter Gedeon Plc.), Oscar Brito Fernandes (PhD candidate, Corvinus University of Budapest / University of Amsterdam), dr. Zsombor Zrubka (Corvinus University of Budapest), moderator: Prof Márta Péntek.
- 2019–2020 Professional coordinator: Thematic Excellence Program at Corvinus University of Budapest (NKFIH-869-4/201) funded by the National Research, Development and Innovation Office.

Leading two scientific projects: Economic and societal benefits of digitalization in healthcare and the health industry; The economic and societal benefits of biotechnology

2019 As consortium member, contribution to the preparation of H2020 grant proposal: CS1-BHC-25-2019 Demonstration pilots for implementation of personalised medicine in healthcare, proposal ID: 847953, STAR-PILOT (Large-scale pilots of the stochastic targeted protocol for personalised glycaemic control of critically ill patients)

2018–2020 Participation as researcher in the Higher Education Excellence Program at Corvinus University of (20764-3/2018/FEKUTSTRAT)

REPRESENTATION IN INDUSTRY ASSOCIATIONS, SCIENTIFIC ORGANISATIONS

2023– Founding Member, Hungarian Economic Association, Innovation Section

2020– Member, Hungarian Economic Association, Health and Health Care Economics Section

2019– Head of Scientific Key Project, ISPOR (International Society for Health Economics and Outcomes Research) Digital Health Special Interest Group

2014–2015 Representing Egis Pharmaceuticals Ltd. in the European Generic Association's Biosimilar Medicines Group's Market Access Committee

2015–2017 Representing Sandoz in the Hungarian Generic Associations' Biosimilar Working Group

SCIENTIFIC PUBLICATIONS (status as of May 2022)

Combined impact factor IF: 127.5 (129 publications, out of which journal article: 47; international journal 37, national journal in English 3; national journal in Hungarian 7; D1:18 Q1:10, Q2:7, Q3:2, Q4:5, not indexed English journals: 5. MTMT (Hungarian Scientific Bibliography) total citations: 433, out of which independent citation: 322, Hirsch index: 9. (Google Scholar total citations: 569, Hirsch-index: 12)

MTMT

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10059860&view=simpleList>

Google Scholar

<https://scholar.google.com/citations?hl=en&user=Aos-sEIAAAAJ>

EDITOR IN SCIENTIFIC JOURNALS

Frontiers in Health Services – Cost and Resource Allocation: Review Editor

PLOS One – Academic Editor

REVIEWER IN SCIENTIFIC JOURNALS

Slovenian Journal of Public Health, Rheumatology International, European Journal of Health Economics, PLoS One, Expert Opinion On Biological Therapy, Risk Management and Healthcare Policy, Smart Homecare Technology and TeleHealth, The Journal of Medical Economics, Health and Quality of Life Outcomes, Journal of Medical Internet Research, Applied Network Science, Biologics: Targets and Therapy, Open Access Rheumatology: Research and Reviews; ClinicoEconomics and Outcomes Research, International Journal of General Medicine, Nature Scientific Reports, Adis BioDrugs, Journal of Advances in Medicine and Medical Research, Clinical Interventions in Aging, Frontiers Public Health, International Journal of General Medicine, Expert Review of Pharmacoeconomics and Outcomes Research, Therapeutics and Clinical Risk Management, Frontiers Pharmacology, Frontiers in Pharmacology, section Drugs Outcomes Research and Policies, Journal of Inflammation Research, Frontiers in Psychology, BMJ Open, JMIR Neurotechnology, JMIR Formative Research, JMIR Rehabilitation and Assistive Technologies, JMIR Public Health and Surveillance, JMIR Research Protocols, Interactive Journal of Medical Research, Heliyon, Nursing Open

List of publications

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1. Journal article

1.1. Abstract

-----2022-----

1.

Hölgyesi, Á ; Tóth, B ; Kozlovsky, M ; Kuti, J ; Weszl, M ; Balázs, G ; Baji, P ; Kovács, L ; Gulácsi, L ; Zrubka, Z et al.

LIVING WITH ORTHOPAEDIC IMPLANTS: RESULTS OF AN ONLINE CROSS-SECTIONAL STUDY IN HUNGARY

VALUE IN HEALTH 25 : 12 pp. S381-S382. (2022)

WoS

Abstract (Journal Article) | Scientific[33375265] [Approved]

2.

Hölgyesi, Á ; Tóth, B ; Kozlovsky, M ; Kuti, J ; Weszl, M ; Balázs, G ; Baji, P ; Kovács, L ; Gulácsi, L ; Zrubka, Z et al.

CITIZENS' PREFERENCES FOR ROBOT-ASSISTED HIP REPLACEMENT: RESULTS OF AN ONLINE CROSS-SECTIONAL STUDY IN HUNGARY

VALUE IN HEALTH 25 : 12 p. S440 , 1 p. (2022)

WoS

Abstract (Journal Article) | Scientific[33375086] [Approved]

3.

Zrubka, Z ; Champion, A ; Holtorf, AP ; Di Bidino, R ; Earla, JR ; Boltyenkov, A ; Tabata-Kelly, M ; Asche, C ; Burrell, A

QUALITATIVE CONTENT ANALYSIS OF SECONDARY DIGITAL HEALTH TERMS – ARE THEY SUFFICIENT FOR HEALTH OUTCOMES RESEARCH PURPOSES?

VALUE IN HEALTH 2022 : December p. S382 Paper: MT22 , 1 p. (2022)

WoS

Abstract (Journal Article) | Scientific[33374987] [Approved]

4.

Hölgyesi, Áron ; Zrubka, Zsombor ; Gulácsi, László ; Kovács, Levente ; Tóth, Barbara ; Weszl, Miklós ; Balázs, György ; Kozlovsky, Miklós ; Kuti, József ; Baji, Petra et al.

Robotsebészet alkalmazással kapcsolatos preferenciák csípőprotézis-beültetés esetén: keresztmetszeti kérdőíves felmérés a magyarországi lakosság körében

MAGYAR REUMATOLÓGIA 63 : 3 p. 168 , 1 p. (2022)

Abstract (Journal Article) | Scientific[33110818] [Admin approved]

5.

Hölgyesi, Áron ; Zrubka, Zsombor ; Gulácsi, László ; Kovács, Levente ; Tóth, Barbara ; Weszl, Miklós ; Balázs, György ; Kozlovsky, Miklós ; Kuti, József ; Baji, Petra et al.

Ortopediai és csonttörés miatti implantátumok epidemiológiája és a betegek tájékozottsága: magyarországi keresztmetszeti lakossági felmérés eredményei

MAGYAR REUMATOLÓGIA 63 : 3 p. 167 , 1 p. (2022)

Abstract (Journal Article) | Scientific[33110774] [Admin approved]

6.

Zah, V ; Burrell, A ; Zrubka, Z ; Asche, CV

Paying for Digital Health Interventions: A Rapid Review of Payers' Evidence Frameworks

VALUE IN HEALTH 25 : 7 p. S509 , 1 p. (2022)

DOI

Abstract (Journal Article) | Scientific[32909777] [Approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0
7.

Péntek, M ; Hölgyesi, Á ; Tóth, B ; Kozlovsky, M ; Kuti, J ; Weszl, M ; Czere, J ; Baji, P ; Kovács, L ; Gulácsi, L et al.
Citizens' Thoughts about Implantable Medical Devices: Results of a Cross-Sectional Survey Among the General Population in Hungary
VALUE IN HEALTH 25 : 7 p. S537 , 1 p. (2022)
[DOI WoS](#)
Abstract (Journal Article) | Scientific[32909770] [Admin approved]

8.

Hölgyesi, Á ; Tóth, B ; Kozlovsky, M ; Kuti, J ; Weszl, M ; Baji, P ; Kovács, L ; Gulácsi, L ; Zrubka, Z ; Péntek, M
Epidemiology and Patients' Knowledge of Implantable Medical Device Management and Safe Use: Results of a CROSS-Sectional Survey Among the General Population in Hungary
VALUE IN HEALTH 25 : 7 p. S538 (2022)
[DOI WoS](#)
Abstract (Journal Article) | Scientific[32909721] [Admin approved]

9.

Zrubka, Z ; Péntek, M ; Mhanna, L ; Fgaier, M ; Al-Abdulkarim, HA ; El-Dahiyat, F ; Drummond, M ; Gulácsi, L
Accuracy of Transferred Medical Costs: Evidence from the Middle East and North Africa Region
VALUE IN HEALTH 25 : 7 p. S433 (2022)
[DOI WoS](#)
Abstract (Journal Article) | Scientific[32909700] [Validated]

10.

Péntek, M ; Kozlovsky, M ; Weszl, M ; Kuti, J ; Hölgyesi, Á ; Tóth, B ; Czere, J ; Baji, P ; Kovács, L ; Gulácsi, L et al.
Patients' Experiences with Shared Decision Making about Implantable Medical Device Surgery: Results of a Cross-Sectional Survey in Hungary
VALUE IN HEALTH 25 : 7 p. S533 , 1 p. (2022)
[DOI WoS](#)
Abstract (Journal Article) | Scientific[32909689] [Admin approved]

11.

Motahari-Nezhad, H ; Fgaier, M ; Péntek, M ; Gulácsi, L ; Zrubka, Z
MT14 Populations, Interventions, and Outcomes in Digital Biomarker-Based Interventions' Systematic Reviews: A Scoping Review
VALUE IN HEALTH 25 : 7 pp. S534-S534. , 1 p. (2022)
[DOI WoS](#)
Abstract (Journal Article) | Scientific[32909674] [Admin approved]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0
12.

Burrell, A ; Champion, A ; Zah, V ; Vinuesa, L ; Holtorf, AP ; Di Bidino, R ; Earla, JR ; Entwistle, J ; Boltyenkov, A ; Braileanu, G et al.
Does Text Analysis of Umbrella Terms in Digital Health Provide Clarity?
VALUE IN HEALTH 25 : 7 p. S532 , 1 p. (2022)
[DOI](#)
Abstract (Journal Article) | Scientific[32909665] [Approved]

13.

Hölgyesi, Á ; Poór, G ; Gulácsi, L ; Zrubka, Z  ; Péntek, M
POSB204 The Burden of Informal Care in Patients with Musculoskeletal Health Problems: Results from a Cross-Sectional Population Survey
VALUE IN HEALTH 25 : 1 p. S134 (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32781859] [Validated]

14.

Hölgyesi, Á ; Poór, G ; Gulácsi, L ; Zrubka, Z [✉](#) ; Péntek, M

POSB203 Accessibility to Healthcare Services and Interventions Among Patients with Musculoskeletal Health Problems: Results from an Online Cross-Sectional Survey

VALUE IN HEALTH 25 : 1 p. S134 (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32781848] [Validated]

15.

Burrell, A. ; Zrubka, Z. ; Redekop, K. ; Kolasa, K. ; Vinuesa, L. ; Zah, V. ; Asche, CV. ; Earla, JR.

POSC287 Improving Outcomes Research in Digital Health - Results of a Systematic Scoping Literature Review

VALUE IN HEALTH 25 : Supplement 1 pp. S195-S196. (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32677951] []

16.

Abu-Zahra, T. ; Gulacsi, L. ; Pentek, M. ; Zrubka, Z.

Methodological Quality and Transferability of Cancer Costs Within the Mena Region: A Systematic Review and Secondary Analysis of Published Data

VALUE IN HEALTH 25 : Supplement 1 pp. S190-S190. (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32677911] [Approved]

17.

Abid, Mahdi M. ; Motahari-Nezhad, H. ; Gulacsi, L. ; Pentek, M. ; Zrubka, Z.

Implantable Cardiac Defibrillators in Heart Failure Patients: An Overview of Reviews and Meta-Analysis

VALUE IN HEALTH 25 : Supplement 1 pp. S39-S39. (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32677909] [Admin approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0

18.

Fgaier, M. ; Gulacsi, L. ; Pentek, M. ; Zrubka, Z.

POSB286 Assessing the Methodology and Transferability of Cardiovascular Hospitalisation Costs within the Middle East & North Africa Region

VALUE IN HEALTH 25 : Supplement 1 pp. S182-S182. (2022)

[WoS](#)

Abstract (Journal Article) | Scientific[32677907] [Approved]

19.

Mhanna, L. ; Gulacsi, L. ; Pentek, M. ; Zrubka, Z.

Transferability of Disease-Related Costs of Chronic Immune-Mediated Diseases Within Countries of the Middle East North Africa Region: the Case of Multiple Sclerosis

VALUE IN HEALTH 25 : Supplement 1 pp. S176-S176. (2022)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[32677850] [Admin approved]

-----2021-----

20.

Zrubka, Zsombor ; Burrell, Anita ; Sharkawy, Menna N ; Pfeiffer, Colin M ; Janodia, Manthan D ; Saylan, Mete ; van Steen, Cecile ; Motahari-Nezhad, Hossein ; Redekop, Ken
PP424 Piloting A Comprehensive Search For eHealth Definitions In The Grey Literature: Preliminary Results From A Systematic Scoping Review
INTERNATIONAL JOURNAL OF TECHNOLOGY ASSESSMENT IN HEALTH CARE 37 : S1 pp. 36-36. , 1 p. (2021)

[DOI](#)

Abstract (Journal Article) | Scientific[32522330] [Admin approved]

21.

Hölgyesi, Áron ; Poór, Gyula ; Gulácsi, László ; Zrubka, Zsombor ; Péntek, Márta
Informális gondozás és mozgásszervi egészség: keresztmetszeti kérdőíves lakossági felmérés
MAGYAR REUMATOLÓGIA 62 : 3 pp. 172-173. , 2 p. (2021)

Abstract (Journal Article) | Scientific[32466754] [Admin approved]

22.

Hölgyesi, Áron ; Poór, Gyula ; Gulácsi, László ; Zrubka, Zsombor ; Péntek, Márta
Egészségügyi szolgáltatásokhoz történő hozzáférés vizsgálata mozgásszervi betegséggel rendelkező betegek körében

MAGYAR REUMATOLÓGIA 62 : 3 pp. 147-147. , 1 p. (2021)

Abstract (Journal Article) | Scientific[32466748] [Approved]

-----2020-----

23.

Rashdan, O. ; Zrubka, Z. ; Gulácsi, L.
PMU10 A SCOPING REVIEW OF HEALTH ECONOMIC EVALUATIONS FROM THE MIDDLE EAST AND NORTH AFRICA REGION

VALUE IN HEALTH 23 pp. S234-S235. (2020)

[DOI Egyéb URL](#)

Abstract (Journal Article) | Scientific[32070526] [Approved]

24.

Zrubka, Z. ; Vékás, P. ; Németh, P. ; Dobos, Á. ; Hajdu, O. ; Kovács, L. ; Péntek, M. ; Gulácsi, L.
PNS251 Psychometric Properties of the Hungarian Language Version of the 13-ITEM Patient Activation Measure (PAM-13) in an Online Sample of the Adult General Population

VALUE IN HEALTH 23 p. S683 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778212] [Admin approved]

25.

Zrubka, Z. ; Mhanna, L. ; Bassem Chmaissani, M. ; Péntek, M. ; Gulácsi, L.
Towards a Healthcare Cost Catalogue for Middle EAST and North Africa: A Systematic Review of Costs Reported in Health Economic Publications from Egypt 1995-2019

VALUE IN HEALTH 23 pp. S647-S647. Paper: PNS20 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778210] [Validated]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0

26.

Zrubka, Z. ; Fgaier, M. ; Atitallah, A. ; Mahdi Abid, M. ; Péntek, M. ; Gulácsi, L.
Towards a Healthcare Cost Catalogue for Middle EAST and North Africa: A Systematic Review of Costs Reported in Health Economic Publications from Algeria, Libya, Morocco and Tunisia 1995-2019

VALUE IN HEALTH 23 pp. S647-S647. Paper: PNS19 , 1 p. (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778207] [Validated]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0
27.

Zrubka, Z. ; Burrell, A. ; Asche, C.V. ; Vinuesa, L. ; Zah, V. ; Kolasa, K. ; Redekop, K.
PNS195 Piloting a Comprehensive Search for Definitions of Digital Health in the Grey Literature: Preliminary Results from a Systematic Scoping Review
VALUE IN HEALTH 23 pp. S673-S674. (2020)

[DOI](#)

Abstract (Journal Article) | Scientific[31778206] [Approved]

28.

Zrubka, Z. ; Alabdulkarim, H.A.A. ; Péntek, M. ; Gulácsi, L.
PNS34 Towards a Healthcare Cost Catalogue for Middle EAST and North Africa: A Systematic Review of Costs Reported in Health Economic Publications from the GULF Region 1995-2019
VALUE IN HEALTH 23 p. S649 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778203] [Approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0
29.

Zrubka, Z. ; Abu-Zahra, T. ; Almaaytah, A. ; Péntek, M. ; Gulácsi, L.
PNS38 Towards a Healthcare Cost Catalogue for Middle EAST and North Africa: A Systematic Review of Costs Reported in Health Economic Publications from Jordan, Lebanon Palestine and Syria 1995-2019
VALUE IN HEALTH 23 p. S650 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778202] [Approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0
30.

Rashdan, O. ; Brodzsky, V. ; Péntek, M. ; Gulácsi, L. ; Zrubka, Z.
PNS32 Towards a Healthcare Cost Catalogue for Middle EAST and North Africa: A Systematic Review of Productivity Loss Costs Reported in Health Economic Publications between 1989-2019
VALUE IN HEALTH 23 p. S649 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778200] [Approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0
31.

Péntek, M. ; Poór, G. ; Dobos, Á. ; Brodzsky, V. ; Zrubka, Z. ; Gulácsi, L. ; Farkas, M. ; Baji, P.
Validation of the Musculoskeletal Health Questionnaire (MSK-HQ) for Hungary: Results of an Online CROSS-Sectional Survey Among the General Population
VALUE IN HEALTH 23 : Supplement 2 pp. S593-S593. Paper: PMS6 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778196] []

32.

Péntek, M. ; Poór, G. ; Brodzsky, V. ; Zrubka, Z. ; Gulácsi, L. ; Dobos, Á. ; Farkas, M. ; Baji, P.
Population Normative DATA for the Health Assessment Questionnaire Disability INDEX in Hungary
VALUE IN HEALTH 23 : Supplement 2 pp. S652-S652. Paper: PNS53 (2020)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31778194] []

33.

Burrell, A. ; Zrubka, Z. ; Redekop, K. ; Kolasa, K. ; Vinuesa, L. ; Zah, V. ; Asche, C.V.
PNS192 Defining the New Age of Digital Health? Results of a Systematic Scoping Literature Review
VALUE IN HEALTH 23 p. S673 (2020)

[DOI](#)

Abstract (Journal Article) | Scientific[31778191] [Approved]

34.

Péntek, Márta ; Poór, Gyula ; Dobos, Ágota ; Brodszky, Valentin ; Zrubka, Zsombor ; Baji, Petra ; Gulácsi, László

A Musculoskeletal Health Questionnaire (MSK-HQ) mérce magyar verziójának validálása lakossági felmérés keretében

MAGYAR REUMATOLÓGIA 61 : 3 pp. 168-168. , 1 p. (2020)

Abstract (Journal Article) | Scientific[31599470] [Admin approved]

35.

Péntek, Márta ; Poór, Gyula ; Zrubka, Zsombor ; Gulácsi, László ; Dobos, Ágota ; Farkas, Miklós ; Baji, Petra

Lakossági normaértékek a Health Assessment Questionnaire Disability Index (HAQ-DI) mércével Magyarországon

MAGYAR REUMATOLÓGIA 61 : 3 pp. 196-197. , 2 p. (2020)

Abstract (Journal Article) | Scientific[31599460] [Admin approved]

36.

Péntek, M. ; Farkas, M. ; Gulácsi, L. ; Zrubka, Z. ; Rencz, F. ; Brodszky, V. ; Baji, P.

ICECAP-A AND ICECAP-O CAPABILITY OF WELL-BEING MEASURES: WHICH ONE TO USE IN AGE-GROUP 50-70?

VALUE IN HEALTH 23 : Supplement 1 p. S321 (2020)

DOI WoS

Abstract (Journal Article) | Scientific[31323553] [Validated]

37.

Zrubka, Z. ; Rencz, F. ; Gulácsi, L. ; Péntek, M. ; Brodszky, V.

COST PER ACCEPTABLE LIFE-YEARS AND COST PER QALY GAINS IN NON-ACCEPTABLE HEALTH STATE FOR BIOLOGICAL TREATMENT IN CROHN'S DISEASE, A NOVEL APPROACH IN HEALTH ECONOMIC MODELLING

VALUE IN HEALTH 23 p. S146 (2020)

DOI WoS

Abstract (Journal Article) | Scientific[31323552] [Validated]

38.

Péntek, M. ; Gulácsi, L. ; Farkas, M. ; Zrubka, Z. ; Brodszky, V. ; Rencz, F. ; Baji, P.

MUSCULOSKELETAL HEALTH AND CAPABILITY OF WELL-BEING MEASURED BY THE ICECAP-A AND -ICECAP-O INSTRUMENTS

VALUE IN HEALTH 23 : Supplement 1 p. S214 (2020)

DOI WoS

Abstract (Journal Article) | Scientific[31323551] [Validated]

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39.

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Development of Population Tariffs for the Carer-Qol-7d Instrument for Hungary, Poland and Slovenia: a Discrete Choice Experiment Study to Measure the Burden of Informal Caregiving

VALUE IN HEALTH 22 : Supplement 3 p. S833 (2019)

DOI WoS

Abstract (Journal Article) | Scientific[31038838] [Validated]

40.

Golicki, D. ; [Baji, P.](#) ; Prevolnik, Rupel V. ; Brouwer, W.B.F. ; van, Exel J. ; [Zrubka, Z.](#) ; [Gulácsi, L.](#) ; [Péntek, M.](#)

Validity of the Polish Version of the Carerqol-7d Questionnaire Among Informal Caregivers in the Polish General Population

VALUE IN HEALTH 22 : Supplement 3 p. S731 (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038837] [Validated]

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Lucevic, A. ; [Péntek, M.](#) ; Kringos, D. ; Klazinga, N. ; [Gulácsi, L.](#) ; [Zrubka, Z.](#) ; Brito, Fernandes Ó. ; [Baji, P.](#)

Waiting Times for Health Care Services in Hungary - Results of a Representative Population Survey

VALUE IN HEALTH 22 : Supplement 3 p. S794 (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038836] [Validated]

All citations+mentions: 2, External citations: 0, Self citations: 2, Unhandled citations: 0

42.

Prevolnik, Rupel V. ; [Zrubka, Z.](#) ; Ogorevc, M. ; [Gulácsi, L.](#) ; [Baji, P.](#) ; Golicki, D. ; Brouwer, W. ; van, Exel N.J.A. ; [Péntek, M.](#)

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VALUE IN HEALTH 22 : Supplement 3 pp. S733-S733. (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038835] [Approved]

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[Zrubka, Z.](#) ; [Hermann, Z.](#) ; [Brodszky, V.](#) ; [Gulácsi, L.](#) ; [Péntek, M.](#)

QUANTIFYING THE ACCEPTABILITY OF HEALTH PROBLEMS IN DIFFERENT AGES USING THE EQ-5D-3L INSTRUMENT

VALUE IN HEALTH 22 : Suppl. 3 pp. S820-S820. (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038834] [Admin approved]

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[Péntek, M.](#) ; [Farkas, M.](#) ; [Zrubka, Z.](#) ; [Dobos, Á.](#) ; [Gulácsi, L.](#) ; [Brodszky, V.](#) ; [Rencz, F.](#) ; [Poór, A.K.](#) ; [Baji, P.](#)

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VALUE IN HEALTH 22 : Supplement 3 pp. S831-S832. (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038833] [Validated]

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VALUE IN HEALTH 22 : Suppl. 3 pp. S832-S832. (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038832] [Approved]

All citations+mentions: 2, External citations: 0, Self citations: 2, Unhandled citations: 0

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[Péntek, M.](#) ; Prevolnik, Rupel V. ; Golicki, D. ; [Zrubka, Z.](#) ; [Gulácsi, L.](#) ; [Brodszky, V.](#) ; [Baji, P.](#)

Suffering Alone: Unmet Needs for Informal Care in Hungary, Poland and Slovenia

VALUE IN HEALTH 22 : Supplement 3 pp. S829-S829. (2019)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038831] [Approved]

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Baji, P. ; Golicki, D. ; Prevolnik, Rupel V. ; Brouwer, W. ; van, Exel N.J.A. ; Zrubka, Z. ; Gulácsi, L. ; Brodsky, V. ; Péntek, M.

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[31038829] [Validated]

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Zrubka, Z. ; Rencz, F. ; Baji, P. ; Hajdu, O. ; Tamási, B. ; Brodsky, V. ; Gulácsi, L. ; Péntek, M.

The Association Between Ehealth-Literacy, Shared Decision-Making and Health Risk Behaviours in an Online Sample of the Hungarian General Population

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Abstract (Journal Article) | Scientific[31038828] [Validated]

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Abstract (Journal Article) | Scientific[30819098] [Admin approved]

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VALUE IN HEALTH 21 : Suppl. 3 pp. S288-S288. (2018)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[30399591] [Admin approved]

All citations+mentions: 2, External citations: 0, Self citations: 2, Unhandled citations: 0

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[30399581] [Validated]

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[30399533] [Validated]

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PMU124 - DOES THE CHOICE OF EQ-5D-3L TARIFF MATTER FOR THE EVALUATION OF CHRONIC DISEASES? COMPARATIVE ANALYSIS OF THE POLISH, UK, SLOVENIAN AND EUROPEAN SCORES

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[30399521] [Validated]

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PMU126 - SUBJECTIVE EXPECTATIONS REGARDING FUTURE HEALTH, WELL-BEING AND HEALTHCARE COSTS IN HUNGARY

VALUE IN HEALTH 21 : Suppl. 3 pp. S328-S328. (2018)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[30399390] [Validated]

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Zrubka, Z ; Hermann, Z ; Gulácsi, L ; Brodsky, V ; Rencz, F ; Péntek, M
PRM171 - DETERMINANTS OF THE ACCEPTABILITY OF HEALTH PROBLEMS IN DIFFERENT AGES: EXPLORING A NEW APPLICATION OF THE EQ VAS

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[30381856] [Validated]

All citations+mentions: 3, External citations: 3, Self citations: 0, Unhandled citations: 0

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Péntek, M ; Brodsky, V ; Rencz, F ; Baji, P ; Zrubka, Z ; Gulácsi, L
Applicability Of The EQ-5D-3L Descriptive System To Explore Subjective Future Health Expectations (PHP221)

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[3289643] [Validated]

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VALUE IN HEALTH 19 : 7 pp. A542-A542. (2016)

[DOI WoS](#)

Abstract (Journal Article) | Scientific[3134110] [Validated]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0

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Prevolnik, Rupel V ; Turk, E ; Péntek, M ; Rencz, F ; Golicki, D ; Simon, J ; Brodsky, V ; Baji, P ; Zrubka, Z ; Závada, J et al.

PHP182 - Eq-5d Studies In Nervous System Diseases In Eight Central And Eastern European Countries

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[3134109] [Validated]

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Golicki, D ; Péntek, M ; Gulácsi, L ; Prevolnik, Rupel V ; Simon, J ; Brodszky, V ; Baji, P ; Zrubka, Z ; Závada, J ; Petrova, G et al.

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[DOI WoS](#)

Abstract (Journal Article) | Scientific[3133532] [Validated]

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Péntek, Márta ; Rencz, Fanni ; Brodszky, Valentin ; Baji, Petra ; Zrubka, Zsombor ; Gulácsi, László
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[DOI WoS](#)

Abstract (Journal Article) | Scientific[3310296] [Admin approved]

All citations+mentions: 2, External citations: 2, Self citations: 0, Unhandled citations: 0

1.2. Study group

62.

Burrell, Anita ; Zrubka, Zsombor ; Champion, Annette ; Zah, Vladimir ; Vinuesa, Laura ; Holtorf, Anke-Peggy ; Di Bidino, Rosella ; Earla, Jagadeswara Rao ; Entwistle, Joanna ; Boltyenkov, Artem Tarasovic et al.

How Useful Are Digital Health Terms for Outcomes Research? An ISPOR Special Interest Group Report

VALUE IN HEALTH 25 : 9 pp. 1469-1479. , 10 p. (2022)

[DOI WoS](#) [Scopus](#) [Egyéb URL](#)

Study Group (Journal Article) | Scientific[33070230] [Approved]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0

1.3. Survey paper

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Zrubka, Zsombor ✉ ; Péntek, Márta ; Mhanna, Lea ; Abu-Zahra, Teebah ; Mahdi-Abid, Mohamed ; Fgaier, Meriem ; El-Dahiyat, Faris ; Al-Abdulkarim, Hana ; Drummond, Michael ; Gulácsi, László

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PHARMACOECONOMICS 40 : 6 pp. 587-599. , 13 p. (2022)

[DOI WoS](#) [Scopus](#) [PubMed](#)

Survey paper (Journal Article) | Scientific[32826896] [Validated]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0

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Motahari-Nezhad, Hossein ; Fgaier, Meriem ; Mahdi Abid, Mohamed ; Péntek, Márta ; Gulácsi, László ; Zrubka, Zsombor

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[DOI Scopus](#)

Survey paper (Journal Article) | Scientific[33115912] [Validated]

All citations+mentions: 3, External citations: 2, Self citations: 1, Unhandled citations: 0

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Kolasa, Katarzyna ✉ ; Mazzi, Francesca ; Leszczuk-Czubkowska, Ewa ; Zrubka, Zsombor ; Péntek, Márta

State of the Art in Adoption of Contact Tracing Apps and Recommendations Regarding Privacy Protection and Public Health: Systematic Review

JMIR MHEALTH AND UHEALTH 9 : 6 Paper: e23250 (2021)

[DOI WoS Scopus PubMed](#) [Egyéb URL](#)

Survey paper (Journal Article) | Scientific[32069787] [Validated]

All citations+mentions: 29, External citations: 29, Self citations: 0, Unhandled citations: 0

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Péntek, M ; Zrubka, Z ; Gulácsi, L

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CURRENT PHARMACEUTICAL DESIGN 23 : 44 pp. 6770-6778. , 9 p. (2017)

[DOI WoS Scopus PubMed](#)

Survey paper (Journal Article) | Scientific[3298171] [Validated]

All citations+mentions: 16, External citations: 13, Self citations: 3, Unhandled citations: 0

1.4. Article

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Motahari-Nezhad, Hossein ✉ ; Al-Abdulkarim, Hana ; Fgaier, Meriem ; Abid, Mohamed Mahdi ; Péntek, Márta ; Gulácsi, László ; Zrubka, Zsombor

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JOURNAL OF MEDICAL INTERNET RESEARCH 24 : 12 Paper: e41042 , 15 p. (2022)

[DOI Scopus](#)

Article (Journal Article) | Scientific[33538044] [Validated]

All citations+mentions: 3, External citations: 3, Self citations: 0, Unhandled citations: 0

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Vladimir, Zah ; Anita, Burrell ; Carl, Asche ; Zsombor, Zrubka

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[DOI Scopus](#) [Teljes dokumentum](#)

Article (Journal Article) | Scientific[33151458] [Approved]

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Hölgyesi, Áron ; Poór, Gyula ; Baji, Petra ; Zrubka, Zsombor ; Farkas, Miklós ; Dobos,

Ágota ; Gulácsi, László ; Kovács, Levente ; Péntek, Márta ✉

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[DOI WoS Scopus PubMed](#)

Article (Journal Article) | Scientific[33050377] [Validated]

70.

Zrubka, Zsombor ✉ ; Csabai, István ; Hermann, Zoltán ; Golicki, Dominik ; Prevolnik-Rupel, Valentina ; Ogorevc, Marko ; Gulácsi, László ; Péntek, Márta

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VALUE IN HEALTH 25 : 9 pp. 1590-1601. , 12 p. (2022)

[DOI REAL WoS Scopus PubMed](#)

Article (Journal Article) | Scientific[32742839] [Validated]

All citations+mentions: 2, External citations: 2, Self citations: 0, Unhandled citations: 0

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Zrubka, Zsombor ✉ ; Kincses, Áron ; Ferenci, Tamás ; Kovács, Levente ; Gulácsi, László ; Péntek, Márta

Comparing actuarial and subjective healthy life expectancy estimates: A cross-sectional survey among the general population in Hungary

PLOS ONE 17 : 3 p. e0264708 (2022)

[DOI WoS Scopus PubMed](#)

Article (Journal Article) | Scientific[32742472] [Validated]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0

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Zrubka, Zsombor ✉ ; Vékás, Péter ; Németh, Péter ; Dobos, Ágota ; Hajdu, Ottó ; Kovács, Levente ; Gulácsi, László ; Hibbard, Judith ; Péntek, Márta

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[DOI WoS Scopus](#)

Article (Journal Article) | Scientific[32637282] [Admin approved]

All citations+mentions: 4, External citations: 3, Self citations: 1, Unhandled citations: 0

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Hermann, Z ; Péntek, M ✉ ; Gulácsi, L ; Kopcsóné Németh, I A ; Zrubka, Zs

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[DOI REAL WoS CorvinusKutatasok Scopus PubMed](#)

Article (Journal Article) | Scientific[32579898] [Validated]

All citations+mentions: 2, External citations: 0, Self citations: 2, Unhandled citations: 0

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IMMUNOLÓGIAI SZEMLE 13 : 3 pp. 75-82. , 8 p. (2021)

Article (Journal Article) | Scientific[32499959] [Admin approved]

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Jósa, Valéria ; Féderer, Krisztina ; Zrubka, Zsombor ; Reiniger, Lilla ; Baranyai, Zsolt ✉

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ORVOSI HETILAP 162 : 37 pp. 1502-1507. , 6 p. (2021)

[DOI WoS REAL Scopus PubMed Matarka](#)

Article (Journal Article) | Scientific[32304658] [Validated]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0
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Kopcsóné Németh, Irén ; Péntek, Márta ; Zrubka, Zsombor
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[DOI](#) [REAL](#) [Teljes dokumentum](#)

Article (Journal Article) | Scientific[32238200] [Validated]

All citations+mentions: 2, External citations: 0, Self citations: 2, Unhandled citations: 0
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Farkas, Miklós ; Huynh, Elisabeth ; Gulácsi, László ; Zrubka, Zsombor ; Dobos, Ágota ; Kovács, Levente ; Baji, Petra ✉ ; Péntek, Márta

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[DOI](#) [CorvinusKutatasok](#) [WoS](#) [Scopus](#)

Article (Journal Article) | Scientific[32156857] [Validated]

All citations+mentions: 3, External citations: 2, Self citations: 1, Unhandled citations: 0
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Péntek, Márta ✉ ; Poór, Gyula ; Gulácsi, László ; Zrubka, Zsombor ; Brodszky, Valentin ; Rencz, Fanni ; Dobos, Ágota ; Farkas, Miklós ; Kovács, Levente ; Baji, Petra

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[DOI](#) [WoS](#) [Scopus](#)

Article (Journal Article) | Scientific[32092171] [Validated]

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Zsombor, Zrubka ; Áron, Kincses ; László, Gulácsi ; Levente, Kovács ; Márta, Péntek
Az élettartással és az időskori betegségekkel kapcsolatos szubjektív várakozások = Subjective expectations concerning life expectancy and age-related health burden

ORVOSI HETILAP 162 : 23 pp. 911-923. , 13 p. (2021)

[DOI](#) [WoS](#) [REAL](#) [Scopus](#) [PubMed](#) [Matarka](#)

Article (Journal Article) | Scientific[32073609] [Validated]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0
80.

Zrubka, Zsombor ; Kincses, Áron ; Gilyán, Csaba ; Huber, Anikó ; Horváth, Zsófia ; Huszák, Loretta ; Tóth, Barbara ; Pogány, Petra ; Gulácsi, László

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Article (Journal Article) | Scientific[32073584] [Validated]

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Baji, Petra ; Farkas, Miklós ; Dobos, Ágota ; Zrubka, Zsombor ; Kovács, Levente ; Gulácsi, László ; Péntek, Márta

Comparing the measurement properties of the ICECAP-A and ICECAP-O instruments in ages 50–70: a cross-sectional study on a representative sample of the Hungarian general population

EUROPEAN JOURNAL OF HEALTH ECONOMICS 22 : 9 pp. 1453-1466. , 14 p. (2021)

[DOI](#) [WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[32060562] [Validated]

All citations+mentions: 2, External citations: 1, Self citations: 1, Unhandled citations: 0
82.

Motahari-Nezhad, Hossein ; Péntek, Márta ; Gulácsi, László ; Zrubka, Zsombor ✉
Outcomes of digital biomarker-based interventions: protocol for a systematic review of systematic reviews

JMIR RESEARCH PROTOCOLS 10 : 11 Paper: e28204 , 12 p. (2021)

[DOI WoS Scopus PubMed](#)

Article (Journal Article) | Scientific[32003596] [Validated]

All citations+mentions: 8, External citations: 2, Self citations: 6, Unhandled citations: 0

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Szilasi, Z. ✉ ; Jósá, V. ; Zrubka, Z. ; Mezei, Tünde ; Merkel, K. ; Helfferich, Frigyes ; Baranyai, Z.
A magasabb vérlemezkeszám mint a fej-nyak tumoros betegek túléléssel kapcsolatos esetleges prognosztikai faktora

ORVOSI HETILAP 162 : 17 pp. 676-682. , 7 p. (2021)

[DOI WoS REAL Scopus PubMed Matarka MOB](#)

Article (Journal Article) | Scientific[31988758] [Validated]

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Brito Fernandes, Óscar Brito ; Lucevic, Armin ; Péntek, Márta ; Kringos, Dionne ; Klazinga, Niek ; Gulácsi, László ; Zrubka, Zsombor ; Baji, Petra ✉
Self-Reported Waiting Times for Outpatient Health Care Services in Hungary: Results of a Cross-Sectional Survey on a National Representative Sample

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HEALTH 18 : 5 Paper: 2213 , 15 p. (2021)

[DOI WoS Scopus PubMed Egyéb URL](#)

Article (Journal Article) | Scientific[31893763] [Validated]

All citations+mentions: 1, External citations: 0, Self citations: 1, Unhandled citations: 0

85.

Horváth, Tamás ✉ ; Horváth, Barnabás ; Liktör, Bálint ; Zrubka, Zsombor ; Liktör, Bálint
Risk stratification in endoscopic type I. tympanoplasty

EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY 278 : 12 pp. 4757-4766. , 10 p. (2021)

[DOI WoS Scopus PubMed Egyéb URL](#)

Article (Journal Article) | Scientific[31839475] [Validated]

All citations+mentions: 2, External citations: 2, Self citations: 0, Unhandled citations: 0

86.

Baji, Petra ; Brouwer, Werner B. F. ; van Exel, Job ; Golicki, Dominik ; Prevolnik Rupel, Valentina ; Zrubka, Zsombor ; Gulácsi, László ; Brodszky, Valentin ; Rencz, Fanni ; Péntek, Márta
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[DOI WoS CorvinusKutatasok Scopus Egyéb URL PubMed](#)

Article (Journal Article) | Scientific[31624901] [Admin approved]

All citations+mentions: 4, External citations: 2, Self citations: 2, Unhandled citations: 0

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Péntek, Márta ; van Exel, Job ✉ ; Gulácsi, László ; Brodszky, Valentin ; Zrubka, Zsombor ; Baji, Petra ; Rencz, Fanni ; Brouwer, Werner B. F.

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[DOI WoS Scopus PubMed](#)

Article (Journal Article) | Scientific[31638138] [Approved]

All citations+mentions: 4, External citations: 0, Self citations: 4, Unhandled citations: 0

88.

Péntek, Márta ✉ ; Beretzky, Zsuzsanna ; Brodszky, Valentin ; Szabó, J Attila ; Kovács, Levente ; Kincses, Áron ; Baji, Petra ; Zrubka, Zsombor ; Rencz, Fanni ; Gulácsi, László
A magyarországi lakosság egészséggel összefüggő munkaképessége. Keresztmetszeti reprezentatív felmérés [Health-related productivity of the Hungarian population. A cross-sectional survey]
 ORVOSI HETILAP 161 : 36 pp. 1522-1533. , 12 p. (2020)
[DOI](#) [SE Repozitórium](#) [WoS](#) [REAL](#) [Scopus](#) [PubMed](#) [MOB](#)
 Article (Journal Article) | Scientific[31591399] [Admin approved]
 All citations+mentions: 4, External citations: 0, Self citations: 4, Unhandled citations: 0
 89.

Josa, Valeria ✉ ; Ferenczi, Szilamer* ; Szalai, Rita ; Fuder, Eniko ; Kuti, Daniel ; Horvath, Krisztina ; Hegedus, Nikolett ; Kovacs, Tibor ; Bagamery, Gergo ; Juhasz, Balazs et al.
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 INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 21 : 17 Paper: 6218 , 15 p. (2020)
[DOI](#) [WoS](#) [REAL](#) [Scopus](#) [PubMed](#)
 Article (Journal Article) | Scientific[31521872] [Validated]
 All citations+mentions: 7, External citations: 7, Self citations: 0, Unhandled citations: 0
 90.

Zrubka, Zsombor ✉ ; Brito Fernandes, Óscar ; Baji, Petra ; Hajdu, Ottó ; Kovács, Levente ; Kringos, Dionne ; Klazinga, Niek ; Gulácsi, László ; Brodszky, Valentin ; Rencz, Fanni et al.
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 JOURNAL OF MEDICAL INTERNET RESEARCH 22 : 8 p. e19013 , 25 p. (2020)
[DOI](#) [WoS](#) [Scopus](#) [PubMed](#)
 Article (Journal Article) | Scientific[31381273] [Admin approved]
 All citations+mentions: 9, External citations: 7, Self citations: 2, Unhandled citations: 0
 91.

Szilasi, Zsuzsanna ✉ ; Jósa, Valéria ; Zrubka, Zsombor ; Mezei, Tünde ; Vass, Tamás ; Merkel, Keresztély ; Helfferich, Frigyes ; Baranyai, Zsolt
Neutrophil-To-Lymphocyte and Platelet-To-Lymphocyte Ratios as Prognostic Markers of Survival in Patients with Head and Neck Tumours-Results of a Retrospective Multicentric Study
 INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 17 : 5 Paper: 1742 , 12 p. (2020)
[DOI](#) [WoS](#) [Scopus](#) [PubMed](#)
 Article (Journal Article) | Scientific[31356693] [Validated]
 All citations+mentions: 14, External citations: 14, Self citations: 0, Unhandled citations: 0
 92.

Zrubka, Zsombor ; Omar, Rashdan** ; Gulácsi, László
Health Economic Publications From the Middle East and North Africa Region: A Scoping Review of the Volume and Methods of Research
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[DOI](#) [Kiadónál](#)
 Article (Journal Article) | Scientific[31355599] [Validated]
 All citations+mentions: 6, External citations: 4, Self citations: 2, Unhandled citations: 0
 93.

Baji, Petra ; Farkas, Miklós ; Dobos, Ágota ; Zrubka, Zsombor ; Gulácsi, László ; Brodszky, Valentin ; Rencz, Fanni ; Péntek, Márta
Capability of well-being: validation of the Hungarian version of the ICECAP-A and ICECAP-O questionnaires and population normative data
 QUALITY OF LIFE RESEARCH 29 : 10 pp. 2863-2874. , 12 p. (2020)
[DOI](#) [WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)
 Article (Journal Article) | Scientific[31331855] [Validated]
 All citations+mentions: 13, External citations: 6, Self citations: 7, Unhandled citations: 0

94.

Baji, P. ✉ ; Farkas, M. ; Golicki, D. ; Prevolnik, Rupel V. ; Hoefman, R. ; Brouwer, W.B.F. ; van, Exel J. ; Zrubka, Z. ; Gulácsi, L. ; Péntek, M.
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PHARMACOECONOMICS 38 : 6 pp. 633-643. , 11 p. (2020)
[DOI WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)
Article (Journal Article) | Scientific[31309976] [Validated]
All citations+mentions: 10, External citations: 3, Self citations: 7, Unhandled citations: 0

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95.

Zrubka, Zsombor ; Gulácsi, László* ✉ ; Brodszky, Valentin ; Rencz, Fanni ; Alten, Rieke ; Szekanecz, Zoltán ; Péntek, Márta
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EXPERT REVIEW OF PHARMACOECONOMICS AND OUTCOMES RESEARCH 19 : 5 pp. 537-549. , 13 p. (2019)
[DOI WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#) [Egyéb URL](#)
Article (Journal Article) | Scientific[30760913] [Validated]
All citations+mentions: 17, External citations: 14, Self citations: 3, Unhandled citations: 0

96.

Jósa, Valéria ; Brodszky, Valentin ; Zrubka, Zsombor ; Zaránd, Attila ; Mezei, Tünde ; Szilasi, Zsuzsanna ; Fehér, Adrienne ; Igaz, Iván ; Merkel, Keresztély ; Baranyai, Zsolt ✉
The Relationship between IL-6 and Nutritional Status in Patients with Gastrointestinal Tumors
JOURNAL OF ONCOLOGY RESEARCH AND TREATMENTS 4 : 1 Paper: 138 , 4 p. (2019)
[Teljes dokumentum](#)
Article (Journal Article) | Scientific[30693671] [Admin approved]

97.

Baji, Petra ; Golicki, Dominik ; Prevolnik-Rupel, Valentina ; Brouwer, Werner B. F. ; Zrubka, Zsombor ; Gulácsi, László ; Péntek, Márta
The burden of informal caregiving in Hungary, Poland and Slovenia: results from national representative surveys
EUROPEAN JOURNAL OF HEALTH ECONOMICS 2019 : (Suppl 1) pp. 5-16. , 12 p. (2019)
[DOI WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#) [Egyéb URL](#)
Article (Journal Article) | Scientific[30692629] [Validated]
All citations+mentions: 22, External citations: 14, Self citations: 8, Unhandled citations: 0

98.

Prevolnik Rupel, Valentina ; Divjak, Marko ; Zrubka, Zsombor ; Rencz, Fanni ; Gulácsi, László ; Golicki, Dominik ; Mirowska-Guzel, Dagmara ; Simon, Judit ; Brodszky, Valentin ; Baji, Petra et al.
EQ-5D studies in nervous system diseases in eight Central and East European countries: a systematic literature review
EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 109-117. , 9 p. (2019)
[DOI WoS](#) [Scopus](#) [PubMed](#)
Article (Journal Article) | Scientific[30692628] [Validated]
All citations+mentions: 5, External citations: 4, Self citations: 1, Unhandled citations: 0

99.

Zrubka, Zsombor ; Golicki, Dominik ; Prevolnik-Rupel, Valentina ; Baji, Petra ; Rencz, Fanni ; Brodszky, Valentin ; Gulácsi, László ; Péntek, Márta
Towards a Central-Eastern European EQ-5D-3L population norm: comparing data from Hungarian, Polish and Slovenian population studies

EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 141-154. , 14 p. (2019)

[DOI WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[30692581] [Validated]

All citations+mentions: 10, External citations: 4, Self citations: 6, Unhandled citations: 0

100.

Zrubka, Zsombor ; Beretzky, Zsuzsanna* ; Hermann, Zoltán ; Brodszky, Valentin ; Gulácsi, László ; Rencz, Fanni ; Baji, Petra ; Golicki, Dominik ; Prevolnik-Rupel, Valentina ; Péntek, Márta
A comparison of European, Polish, Slovenian and British EQ-5D-3L value sets using a Hungarian sample of 18 chronic diseases

EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 119-132. , 20 p. (2019)

[DOI REAL WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[30692467] [Validated]

All citations+mentions: 19, External citations: 12, Self citations: 7, Unhandled citations: 0

101.

Zrubka, Zsombor ; Hermann, Zoltán ; Gulácsi, László ; Brodszky, Valentin ; Rencz, Fanni ; Péntek, Márta
Determinants of the acceptability of health problems in different ages: exploring a new application of the EQ VAS

EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 31-41. , 11 p. (2019)

[DOI REAL WoS](#) [CorvinusKutatasok](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[30692309] [Validated]

All citations+mentions: 7, External citations: 3, Self citations: 4, Unhandled citations: 0

102.

Péntek, Márta ; Hajdu, Ottó ; Rencz, Fanni ; Beretzky, Zsuzsanna ; Brodszky, Valentin ; Baji, Petra ; Zrubka, Zsombor ; Major, Klára ; Gulácsi, László
Subjective expectations regarding ageing: a cross-sectional online population survey in Hungary

EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 17-30. , 14 p. (2019)

[DOI WoS](#) [CorvinusKutatasok](#) [EDIT Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[30682397] [Validated]

All citations+mentions: 10, External citations: 4, Self citations: 6, Unhandled citations: 0

103.

Zrubka, Zsombor ; Hajdu, Ottó ; Rencz, Fanni ; Baji, Petra ; Gulácsi, László ; Péntek, Márta
Psychometric properties of the Hungarian version of the eHealth Literacy Scale

EUROPEAN JOURNAL OF HEALTH ECONOMICS 20 : Suppl. 1 pp. 57-69. , 13 p. (2019)

[DOI WoS](#) [CorvinusKutatasok](#) [EDIT Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[30679848] [Validated]

All citations+mentions: 35, External citations: 30, Self citations: 5, Unhandled citations: 0

104.

Gulácsi, László ✉ ; Zrubka, Zsombor* ; Brodszky, Valentin ; Rencz, Fanni ; Alten, Rieke ; Szekanecz, Zoltán ; Péntek, Márta

Long-Term Efficacy of Tumor Necrosis Factor Inhibitors for the Treatment of Methotrexate-Naïve Rheumatoid Arthritis: Systematic Literature Review and Meta-Analysis

ADVANCES IN THERAPY 36 : 3 pp. 721-745. , 25 p. (2019)

[DOI WoS](#) [DEA](#) [Scopus](#) [PubMed](#) [Egyéb URL](#)

Article (Journal Article) | Scientific[30399264] [Validated]

All citations+mentions: 5, External citations: 3, Self citations: 2, Unhandled citations: 0

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105.

Zrubka, Zsombor

Economic aspects of biosimilar competition in Hungary — The treatment of rheumatic disorders

SOCIETY AND ECONOMY 39 : 2 pp. 271-290. , 20 p. (2017)

[DOI](#) [Scopus](#) [Egyéb URL](#)

Article (Journal Article) | Scientific[3309772] [Approved]

All citations+mentions: 6, External citations: 4, Self citations: 2, Unhandled citations: 0

106.

Zrubka, Z

Az informális ellátás mérése és egészség-gazdaságtani értékelése

ORVOSI HETILAP 158 : 35 pp. 1363-1372. , 10 p. (2017)

[DOI](#) [WoS](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[3309770] [Validated]

All citations+mentions: 12, External citations: 10, Self citations: 2, Unhandled citations: 0

107.

Zrubka, Z ; Rencz, F ; Zavada, J ; Golicki, D ; Rupel, VP ; Simon, J ; Brodszky, V ; Baji, P ; Petrova, G ; Rotar, A et al.

EQ-5D studies in musculoskeletal and connective tissue diseases in eight Central and Eastern

European countries: a systematic literature review and meta-analysis

RHEUMATOLOGY INTERNATIONAL 37 : 12 pp. 1957-1977. , 21 p. (2017)

[DOI](#) [WoS](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[3260594] [Approved]

All citations+mentions: 8, External citations: 5, Self citations: 3, Unhandled citations: 0

108.

Vezer, B ; Buzas, Z ; Sebeszta, M ; Zrubka, Z

Authorized manufacturing changes for therapeutic monoclonal antibodies (mAbs) in European Public Assessment Report (EPAR) documents.

CURRENT MEDICAL RESEARCH AND OPINION 32 : 5 pp. 829-834. , 6 p. (2016)

[DOI](#) [WoS](#) [Scopus](#) [PubMed](#)

Article (Journal Article) | Scientific[3220865] [Validated]

All citations+mentions: 111, External citations: 110, Self citations: 1, Unhandled citations: 0

2. Chapter in book

2.1. Abstract

-----2022-----

109.

Barbara, Tóth ; Dóra, Szerencsés ; Márta, Péntek ; László, Gulácsi ; Zsombor, Zrubka

Examining factors influencing students' participation in research and development projects during obtaining their first degree

In: Agnes, Csiszarik-Kocsir; Anett, Popovics; Pal, Feher-Polgar (eds.) XVII. FIKUSZ 2022

International Conference : Abstract Book

Bp, Hungary : Obuda University (2022) 71 p. pp. 43-43. , 1 p.

[Teljes dokumentum](#)

Abstract (Chapter in Book) | Scientific[33285759] [Admin approved]

110.

Hossein, Motahari-Nezhad ; Zsombor, Zrubka

Quality of evidence assessment of direct and indirect digital biomarkers

In: Agnes, Csiszarik-Kocsir; Anett, Popovics; Pal, Feher-Polgar (eds.) XVII. FIKUSZ 2022

International Conference : Abstract Book

Bp, Hungary : Obuda University (2022) 71 p. pp. 42-42. , 1 p.

[Teljes dokumentum](#)

Abstract (Chapter in Book) | Scientific[33285730] [Admin approved]
111.

[Meriem, Fgaier ; Zrubka, Zsombor](#)

Cost-effectiveness analysis and sustainable innovation in healthcare: A review of cost transferability from the MENA region

In: Agnes, Csiszarik-Kocsir; Anett, Popovics; Pal, Feher-Polgar (eds.) [XVII. FIKUSZ 2022 International Conference : Abstract Book](#)

Bp, Hungary : Obuda University (2022) 71 p. pp. 41-41. , 1 p.

[Teljes dokumentum](#)

Abstract (Chapter in Book) | Scientific[33285724] [Admin approved]

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112.

[Zrubka, Zsombor ; Péntek, Márta](#)

Using Digital Technologies in the Measurement of Health Outcomes

In: Szakál, Anikó (eds.) [2021 IEEE 19th World Symposium on Applied Machine Intelligence and Informatics \(SAMI\)](#)

Bp, Hungary : IEEE Hungary Section (2021) 507 p. pp. 13-13. , 1 p.

[DOI WoS](#)

Abstract (Chapter in Book) | Scientific[32477300] [Approved]

All citations+mentions: 1, External citations: 1, Self citations: 0, Unhandled citations: 0

2.2. Conference paper

-----2022-----

113.

[Hossein, Motahari-Nezhad ; Zsombor, Zrubka](#)

Quality of evidence assessment of direct and indirect digital biomarkers

In: Ágnes, Csiszárík-Kocsir; Anett, Popovics; Pál, Fehér-Polgár (eds.) [XVII. FIKUSZ 2022 International Conference : Proceedings](#)

Bp, Hungary : Óbuda University, Keleti Károly Faculty (2022) 670 p. pp. 663-670. , 8 p.

[Teljes dokumentum](#)

Conference paper (Chapter in Book) | Scientific[33620038] [Admin approved]

114.

[Barbara, Tóth ; Dóra, Szerencsés ; Márta, Péntek ; László, Gulácsi ; Zsombor, Zrubka](#)

Examining factors influencing students' participation in research and development projects during obtaining their first university degree

In: Ágnes, Csiszárík-Kocsir; Anett, Popovics; Pál, Fehér-Polgár (eds.) [XVII. FIKUSZ 2022 International Conference : Proceedings](#)

Bp, Hungary : Óbuda University, Keleti Károly Faculty (2022) 670 p. pp. 323-331. , 9 p.

[Teljes dokumentum](#)

Conference paper (Chapter in Book) | Scientific[33378029] [Admin approved]

115.

[Meriem, Fgaier ; Zsombor, Zrubka](#)

Cost-effectiveness analysis and sustainable innovation in healthcare: A review of cost transferability from the MENA region

In: Ágnes, Csiszárík-Kocsir; Anett, Popovics; Pál, Fehér-Polgár (eds.) [XVII. FIKUSZ 2022 International Conference : Proceedings](#)

Bp, Hungary : Óbuda University, Keleti Károly Faculty (2022) 670 p. pp. 309-322. , 14 p.
[Teljes dokumentum](#)

Conference paper (Chapter in Book) | Scientific[33367268] [Admin approved]
116.

Fgaier, Meriem ; Zrubka, Zsombor

Cost-effectiveness of using chatbots in healthcare: a systematic review

In: Anikó, Szakál (eds.) IEEE Joint 22nd International Symposium on COMPUTATIONAL INTELLIGENCE and INFORMATICS and 8th International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics (CINTI-MACRo 2022) : Proceedings

Bp, Hungary : IEEE Hungary Section (2022) 418 p. pp. 305-310. , 6 p.

Conference paper (Chapter in Book) | Scientific[33261671] [Admin approved]
117.

Zsombor, Zrubka ; László, Gulácsi ; Márta, Péntek

Time to start using checklists for reporting artificial intelligence in health care and biomedical research: a rapid review of available tools

In: Szakál, Anikó (eds.) 2022 IEEE 26th International Conference on Intelligent Engineering Systems (INES 2022)

Bp, Hungary : IEEE Hungary Section (2022) 273 p. pp. 15-20. , 6 p.

[DOI Scopus](#)

Conference paper (Chapter in Book) | Scientific[33051159] [Admin approved]
118.

János, Tibor Czere ; László, Gulácsi ; Zsombor, Zrubka ; Márta, Péntek

Quality assessment of clinical trials with artificial intelligence based chatbots in healthcare: points to consider in the protocol development for a systematic literature review

In: Szakál, Anikó (eds.) IEEE 16th International Symposium on Applied Computational Intelligence and Informatics SACI 2022

Timișoara, Romania : IEEE (2022) pp. 335-340. , 6 p.

[DOI Scopus](#)

Conference paper (Chapter in Book) | Scientific[32876079] [Validated]

2.3. Chapter

119.

Zrubka, Zsombor ; Hana, Al-Abdulkarim

Guidelines for Pharmacoeconomic Evaluations

In: Abdul, Rahman Jazieh; Francisco, Nuno Rocha Goncalves; Laszlo, Gulacsi; Nada, Abu-Shraie; Omar, Da'ar (eds.) *Pharmacoeconomics Principles and Best Practices: A Practical Guide*

Cincinnati (OH), United States of America : Innovative Healthcare Institute (2020) 276 p. pp. 83-101. , 19 p.

Chapter (Chapter in Book) | Scientific[31778257] [Validated]

3. Thesis

3.1. PhD

120.

Zrubka, Zsombor János

Az elfogadható egészségi állapotok mérésének új módszere [A new method for the measurement of acceptable health states]

Péntek Márta Dissertation submission year: 2019, Accepted: 2019 Published/defended: 2019

[DOI Corvinus PhD ODT védés Egyéb URL](#)

PhD (Thesis) | Scientific[30996429] [Approved]

4. Miscellaneous

4.1. Not classified

121.

Zsombor, Zrubka

Do definitions of digital health interventions reflect their value?: Digital Health Special Interest Group (2021)

Do ICERs Support the Digital Revolution? Forum Discussion - ISPOR Digital Health Special Interest Group,

Not classified (Miscellaneous) | Scientific[32524858] [Admin approved]

122.

Zrubka, Zsombor ; Gulácsi, László ; Motahari, Nezhad Hossein

Health Outcomes Measurement in Economic Evaluation (2020)

Country: Saudi Arabia,

Not classified (Miscellaneous) | Scientific[31839543] [Approved]

123.

Zrubka, Zsombor

Az "eHealth Literacy" Skála magyar verziójának pszichometriai tulajdonságai (2019)

Az MTA IX. Osztály Statisztikai és Jövőkutatói Tudományos Bizottságának a Magyar Tudomány Ünnepe rendezett tudományos ülése, 2019.11.21, Budapest,

Not classified (Miscellaneous) | Scientific[31039734] [Approved]

124.

Zrubka, Zsombor ; Hajdu, Ottó ; Rencz, Fanni ; Baji, Petra ; Gulácsi, László ; Péntek, Márta

Az „eHealth Literacy” skála magyar változatának pszichometriai tulajdonságai (2019)

Gazdaságmodellezési Társaság Éves Közgyűlése - Szakmai Műhelyvita, 2019. április 25.,

[Egyéb URL](#)

Not classified (Miscellaneous) | Scientific[30692661] [Admin approved]

125.

Zrubka, Z

Implications of digital health literacy on health equity (2018)

Konferencia előadás, Corvinus Health Policy and Health Economics Conference Series 2018/6, 24th April, 2018, Department of Health Economics, Corvinus University of Budapest in cooperation with Health and Health Care Economics Section of the Hungarian Economic Association and Health Economics Study Circle, Corvinus University of Budapest, Country: Hungary,

Not classified (Miscellaneous) | Scientific[3389487] [Approved]

126.

Zrubka, Z

Population Health in Poland and Hungary: implications for health economic analyses (2018)

Konferencia előadás, Corvinus Health Policy and Health Economics Conference Series 2018/3, 5th March 2018, Budapest, Department of Health Economics, Corvinus University of Budapest in cooperation with Health and Health Care Economics Section of the Hungarian Economic Association and Health Economics Study Circle, Corvinus University of Budapest, Country: Hungary,

Not classified (Miscellaneous) | Scientific[3389479] [Approved]

4.2. Radio, TV program, video

127.

Zrubka, Zsombor ; Péntek, Márta ; Gulácsi, László ; Jani, Kinga

Mit tudnak a gépek az egészségünkről? (2022)

Online médiamegjelenés, Egészségkalauz 2022. 05. 03., Medicalonline 2022. 05. 04., WebORVOS online egészségügyi magazin 2022. 05. 04., Okosipar.hu 2022. 05. 04., bdpst24.hu,

[Teljes dokumentum](#)

Radio, TV program, video (Miscellaneous) | Popular science[32813200] [Admin approved]

128.

Zrubka, Zsombor ; Lantos, Zoltán ; Kertész, Éva

Beszéljünk az egészségről! Műveltség és kockázatok (2020)

[Egyéb URL](#)

Radio, TV program, video (Miscellaneous) | Popular science[31839523] [Admin approved]

4.3. Technical report (published)

129.

[Zs., Zrubka ; P., Vékás ; P., Németh ; Á., Dobos ; O., Hajdu ; L., Kovács ; L., Gulácsi ; H., Judith ; M., Péntek ; Vékás, Péter et al.](#)

[Validation of the PAM-13 instrument in Hungary](#) , 17 p. (2021)

Working paper, Corvinus University of Budapest,

[CorvinusKutatasok](#)

Technical report (published) (Miscellaneous) | Scientific[32481131] [Validated]