

Characteristics of the submitted research/ artistic/other output

Name and surname	prof. MUDr. Henrieta Hudečková, PhD., MPH
Document type:	Characteristics of the submitted research/ artistic/other output
The name of the university	Comenius University Bratislava
The seat of the university	Šafárikovo námestie 6, 818 06 Bratislava
OCA1. - Surname awarded to the assessed person	Hudečková
OCA2. - Name awarded to the assessed person	Henrieta
OCA3. - Degrees awarded to the assessed person	Prof. M.D., PhD., MPH
OCA4. - Hyperlink to the entry of the person in the Register of university staff	https://www.portalvs.sk/regzam/detail/3577
1st evaluated output	
OCA5.1 - Area of assessment	Public Health
OCA6.1 - Category of the research/ artistic/other output	scientific output
OCA7.1 - Year of publication of the research/artistic/other output	2010
OCA8.1 - ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID = 570604
OCA9.1 - Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioForm&sid=061CA4AE42C8A72A7E74EB6B6A
Title of the publication to which the hyperlink points	The role of family background on cigarette smoking among adolescent school children in Slovakia
RATP coefficient	A1
Justification of the RATP	2010, JIF Public, environmental & occupational health - Q1
OCA17.1 - List of maximum 5 most significant citations corresponding to the output	[o1] 2013 Reidpath, D. D. - Ling, M.-L. - Wellington, E. - Al-Sadat, N. - Yasin, S.: The relationship between age ... In: Nicotine and Tobacco Research, roč. 15, č. 3, 2013, s. 729-733 - SCI ; SCOPUS [o1] 2013 Mahfouz, M. S. - Alsanosy, R. M. - Gaffar, A. M.: The role of family background on adolescent ... In: Annals of General Psychiatry, roč. 12, č. 1, 2013, čl. č. 16 - SCI ; SCOPUS [o1] 2016 Ji, Y. - Liu, S. - Zhao, X. - Jiang, Y. - Zeng, Q. - Chang, C.: Nicotine and Tobacco Research, roč. 18, č. 8, 2016, s. 1719-1726 - SCI ; SCOPUS [o1] 2016 Lochbuehler, K. - Schuck, K. - Otten, R. - Ringlever, L. - Hiemstra, M.: European Addiction Research, roč. 22, č. 4, 2016, s. 215-232 - SCI ; SCOPUS [o1] 2018 Bengtsson, T. - Nilsson, A.: Economics and Human Biology, roč. 29, 2018, s. 31-41 - SCI ; SCOPUS
OCA18.1 - Characteristics of the output's impact on socio-economic practice	The work analyses factors of family background influencing initiation of tobacco use in adolescents. It indicates smoking status of parents as the most significant factor while socioeconomic status plays minor role. The findings, together with results of other works focused on the given issue, contribute to identifying key determinants of adolescents' behaviour as a significant tool to create preventive programs within health policies.
OCA19.1 - Characteristics of the output and related activities' impact on the educational process	The work presents a base to demonstrate a significance of analysis of epidemiological data from aspect of preventive medicine. It provides an example of evidence based shaping of public health intervention measures.

2nd evaluated output	
OCA5.2 - Area of assessment	Public Health
OCA6.2 - Category of the research/ artistic/other output	scientific output
OCA7.2 - Year of publication of the research/artistic/other output	2024
OCA8.2 - ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID = 1153188
OCA9.2 - Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioForm&sid=8C29D0037FD6DED9F18F53C227B
Title of the publication to which the hyperlink points	Probability of exposure to the wild measles virus in adult population - Estimation from seroepidemiology and historical data
RATP coefficient	A1
Justification of the RATP	2023, JIF Medicine, Research & Experimental (Q2) WoS IF 4.5 (2023)
OCA17.2 - List of maximum 5 most significant citations corresponding to the output	Due to the short time since the publication of the paper (end of 2024), no citations have yet been recorded.
OCA18.2 - Characteristics of the output's impact on socio-economic practice	The work provides results of analyses of representative, valid epidemiological data on the incidence of measles susceptibility, which are of key importance to identify the population at risk. They present a base for prevention strategies at the international level.
OCA19.2 - Characteristics of the output and related activities' impact on the educational process	The work presents a basis for teaching of vaccinology both in general medicine and public health. It demonstrates the use of epidemiological data in prevention.
3rd evaluated output	
OCA5.3 - Area of assessment	Public Health
OCA6.3 - Category of the research/ artistic/other output	scientific output
OCA7.3 - Year of publication of the research/artistic/other output	2002
RATP coefficient	A1
OCA10.3 - Hyperlink to the record in another publicly accessible register, catalogue of research/ artistic/other outputs	https://petra.uniba.sk/?fn=detailBiblioForm&sid=F53353AEE7A237BBD3F8DFD4F96
Title of the publication to which the hyperlink points	Immunogenicity and reactogenicity of a novel hexavalent DTPa-HBV-IPV/Hib vaccine compared to separate concomitant injections of DTPa-IPV/Hib and HBV vaccines, when administered according to a 3, 5 and 11 month vaccination schedule.
RATP coefficient	A1
Justification of the RATP	The work has been cited in international renowned scientific journals (44 in SCOPUS excluding autocitations)

OCA17.3 - List of maximum 5 most significant citations corresponding to the output	[o1] 2006 Deen, J. L. - Clemens, J. D.: Issues in the design ... In: Nature Reviews Drug Discovery, roč. 5, č. 11, 2006, s. 932-940 - SCI ; SCOPUS. [o1] 2007 Brown, N. J. - Berkovic, S. F. - Scheffer, I. E.: Current Opinion in Neurology, roč. 20, č. 2, 2007, s. 181-187 - SCI ; SCOPUS [o1] 2014 Esposito, S. - Tagliabue, C. - Bosis, S. - Ierardi, V. - Gambino, M. - Principi, N.: Clinical Microbiology and Infection, roč. 20, č. S5, 2014, s. 76-85 - SCI ; SCOPUS [o1] 2016 Scheifele, D. W. - Ferguson, M. - Predy, G. - Dawar, M. - Assudani, D. - Kuriyakose, S. - Van Der Meeren, O. - Han, H. H.: Vaccine, roč. 33, č. 16, 2015, s. 1897-1900 - SCI ; SCOPUS [o1] 2018 Monge, S. - Hahne, S. J. M. - de Melker, H. E. - Sanders, E. A. M. - van der Ende, A. - Knol, M. J.: Lancet Infectious Diseases, roč. 18, č. 7, 2018, s. 749-757 - SCI ; SCOPUS.
OCA18.3 - Characteristics of the output's impact on socio-economic practice	This research article compares the immunogenicity and reactivity of the new DTaP-HBV-IPV/Hib hexavalent vaccine with separately administered DTaP-IPV/Hib and HBV vaccines using a 3-dose vaccination schedule. New vaccine was administered at 3, 5 and 11 months of age. Its safety and efficacy were comparable with separately administered vaccines. Reactiveness was similar between the two study groups and no vaccine-related serious adverse events occurred. The hexavalent vaccine provided an effective and more comfortable option for vaccination of infants.
OCA19.3 - Characteristics of the output and related activities' impact on the educational process	The results of the work indicate that the immune response after administration of the hexavalent vaccine does not differ from the immune response after administration of individual monovalent vaccines. There were no differences in reactivity, infant trauma decreased, and parents' compliance to vaccination improved, as well. In this way it is possible to significantly strengthen preventive vaccination of infants within the framework of the National Immunization Programme of the Slovak Republic. Findings of the work present a base for education of vaccinology within Public Health study both on undergraduate and postgraduate level.
4th evaluated output	
OCA5.4 - Area of assessment	Public Health
OCA6.4 - Category of the research/ artistic/other output	scientific output
OCA7.4 - Year of publication of the research/artistic/other output	2021
OCA8.4 - ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID = 436938
OCA9.4 - Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioForm&sid=A1A8EB404CE9E8974991B2A156
Title of the publication to which the hyperlink points	Acceptance of COVID-19 Vaccination among Healthcare and Non-Healthcare Workers of Hospitals and Outpatient Clinics in the Northern Region of Slovakia
RATP coefficient	A1
Justification of the RATP	2021, JIF Environmental sciences - Q2, Public, environmental & occupational health - Q1

OCA17.4 - List of maximum 5 most significant citations corresponding to the output	Lassanova M., Lassan S., Liskova S., Tesar T., Cicova M. Analysis of spontaneous reports of suspected adverse reactions after vaccination against COVID-19 in Slovakia (2023) <i>Frontiers in Pharmacology</i>, 14, art. no. 1097890, DOI: 10.3389/fphar.2023.1097890 Ghare F., Meckawy R., Moore M., Lomazzi M. Determinants of Acceptance of COVID-19 Vaccination in Healthcare and Public Health Professionals: A Review (2023) <i>Vaccines</i>, 11 (2), art. no. 311. DOI: 10.3390/vaccines11020311 Ulaszewska K., Jodczyk A.M., Długolecki P., Emerla S., Stańska W., Kasiak P.S., Gąsior J.S., Parol D., Mamcarz A., Śliż D. Factors Associated with Willingness to Receive a COVID-19 Vaccine in Adult Polish Population—A Cross-Sectional Survey (2022) <i>Vaccines</i>, 10 (10), art. no. 1715, DOI: 10.3390/vaccines10101715 Politis M., Sotiriou S., Doxani C., Stefanidis I., Zintzaras E., Rachiotis G. Healthcare Workers' Attitudes towards Mandatory COVID-19 Vaccination: A Systematic Review and Meta-Analysis (2023) <i>Vaccines</i>, 11 (4), art. no. 880, DOI: 10.3390/vaccines11040880 Metin S., Eraybar S., Aygun H., Ekinci F. Vaccine hesitancy among healthcare professionals and the general population: Second important step in the fight against COVID-19 (2023) <i>Journal of Infection in Developing Countries</i>, 17 (2), pp. 157 - 165, DOI: 10.3855/JIDC.17618
OCA18.4 - Characteristics of the output's impact on socio-economic practice	The work provides significant data are important for improving population compliance with vaccination on international level. It is a starting point for further research, as well as the making of meta-analyses.
OCA19.4 - Characteristics of the output and related activities' impact on the educational process	The work demonstrates an importance of epidemiological data for the development of strategies to improve vaccination coverage. It is a basis for teaching on vaccinology and infectious disease prevention.
5th evaluated output	
OCA5.5 - Area of assessment	Public Health
OCA6.5 - Category of the research/ artistic/other output	scientific output
OCA7.5 - Year of publication of the research/artistic/other output	2017
OCA8.5 - ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA)	ID = 678205
OCA9.5 - Hyperlink to the record in CRPA or CRAA	https://app.crepc.sk/?fn=detailBiblioForm&sid=EDBA8FF5E1979B1E5AE99FB271
Title of the publication to which the hyperlink points	Estimation of the Population Susceptibility Against Measles in Slovakia
RATP coefficient	A1
Justification of the RATP	The work presents a starting point for research focusing on mathematic modelling of measles spread in a population (6 citations in SCOPUS excluding autocitations)

OCA17.5 - List of maximum 5 most significant citations corresponding to the output	[o1] 2019 Lengyel, G. - Anosi, N. - Marossy, A. - Matyus, M. - Bosnyakovits, T. - Orosz, L.: Orvosi Hetilap, roč. 160, č. 20, 2019, s. 767-773 - SCI ; SCOPUS [o1] 2019 Ristic, M. - Milošević, V. - Medic, S. - Malbaša, J. D. - Rajčević, S. - Boban, J. - Petrovic, V.: Sero-epidemiological study in prediction of the risk groups for measles outbreaks in Vojvodina, Serbia. In: PLoS ONE, roč. 14, č. 5, 2019, čl. č. e0216219 - SCI ; SCOPUS [o1] 2019 Ehrhardt, M. - Gašper, J. - Kilianová, S.: SIR-based mathematical modeling of infectious diseases with vaccination and waning immunity. In: Journal of Computational Science, roč. 37, 2019, čl. č. 101027 - SCI ; SCOPUS [o1] 2020 Štěpánek, L. - Nakládalová, M. - Boriková, A. - Horáková, D. - Štěpánek, L.: Measles immunity in a Czech tertiary care hospital. In: Vaccine, roč. 38, č. 14, 2020, s. 2889-2892 - SCI ; SCOPUS [o1] 2019 Lengyel, G. - Marossy, A. - Anosi, N. - Farkas, S. L. - Kele, B. - Nemes-Nikodem, E. - Szentgyorgyi, V. - Kopcsó, I. - Matyus, M.: Screening of more than 2000 Hungarian healthcare workers' anti-measles antibody level: Results and possible population-level consequences. In: Epidemiology and Infection, roč. 147, 2019, čl. č. e7 - SCI ; SCOPUS
OCA18.5 - Characteristics of the output's impact on socio-economic practice	The aim of the study was to create a mathematical model of measles estimating the proportion of individuals susceptible to measles in the Slovak population. We assume that immunity decreases over time, which can substantially affect the susceptibility of the population. This work introduces a model that estimates a proportion of individuals susceptible to measles in the Slovak population in 2015. Application of the model to the current situation shows that people aged 30-45 years and unvaccinated infants represent the most susceptible population groups. Findings of the work significantly contribute to understanding of epidemiology and prevention of measles and present an important base for proposing of vaccination programs strategies.
OCA19.5 - Characteristics of the output and related activities' impact on the educational process	The work is the basis for teaching on vaccinology within the framework of the Public Health study. It was developed as one of the published outputs of the grant project provided by the Slovak Research and Development Agency (principal investigator Prof. Hudečková) focused on modelling of infectious diseases (measles). The first author of the article is PhD student of Prof. Hudečková. Practical output had a social and public health impact on the population in Slovakia. The conclusions were provided to the Public Health Authority of the Slovak Republic and became a basis for changes in the intervention strategy in the field of vaccination of children and adolescents against measles in Slovakia
Date of last update	19.03.2025