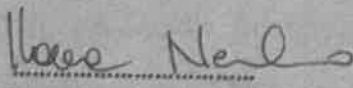


Annex No. 1 to the Rules for Submitting Research Topics for the Admission to the Interdisciplinary Education Programme in the Doctoral School of Medical and Health Sciences for the academic year 2025/2026

Research Topic Submission Form for the Interdisciplinary Education Programme	
Discipline <i>Please indicate</i>	<input type="checkbox"/> medical sciences <input type="checkbox"/> pharmacology and pharmacy <input checked="" type="checkbox"/> health sciences
Submitter - a person willing to act as a supervisor	
Title/degree Full Name	dr hab. Ilona Nenko, prof. UJ
Category <i>please select the relevant category according to the DSMHS Regulations</i> <i>Please indicate</i>	<input checked="" type="checkbox"/> A person employed at the Jagiellonian University Medical College (JU MC), holding a post-doctoral habilitation degree or professor's degree, who has submitted a declaration of at least 75% affiliation with the discipline in which the research topic is being proposed <input type="checkbox"/> pharmacology and pharmacy <input type="checkbox"/> health sciences <input type="checkbox"/> A person employed in Poland at a university or another entity listed in Article 7(1) of the Act – Law on Higher Education and Science, who holds the title of professor or a post-doctoral habilitation degree, has submitted a declaration of at least 25% affiliation with the discipline in which the research topic is being proposed, and has presented the written consent of a person meeting the conditions specified in item 1 to assume the role of supervisor, following a positive opinion of the School Board <input type="checkbox"/> A person employed at a foreign university or academic institution, provided that the relevant research discipline board recognises that the person has a significant record of achievement in the academic field to which the research topic pertains
Date of obtaining a) doctoral degree	21.01.2010 r.
b) post-doctoral habilitation degree	30.03.2022 r.
c) professor's degree	
Place of employment	Department of Environmental Health, Faculty of Health Sciences, Jagiellonian University Medical College
E-mail address	Ilona.nenko@uj.edu.pl
Contact phone	698 326 062
Academic achievements: List of max 5 publications from the last three calendar years	<p>Marcinkowska UM, Kasperek KK, Zabdyr-Jamróz M, Kozłowska M, Nenko I. 2025. Decrease in reproductive desires among non-parent heterosexual women during the COVID-19 pandemic in Poland: the role of epidemiological stress, socioeconomic status, and reproductive rights. <i>Frontiers in Public Health</i> 13: 1462215.</p> <p>Nenko I, Baranowska B, Szlendak B, Sahraoui N, Węgrzynowska M. 2024. "We were left to our own devices": midwives' experiences of providing</p>

	<p>maternity care to Ukrainian women in Poland after the outbreak of the full-scale war in Ukraine. <i>Women and Birth</i>, 37: 101629</p> <p>Nenko I, Kopeć-Godlewska K, Towner MC, Klein LD, Micek A. 2023. Emotional factors, medical interventions and mode of birth among low-risk primiparous women in Poland. <i>Evolution, Medicine, and Public Health</i>, 11: 139-148</p> <p>Golovina K, Nenko I, Marcinkowska UM. 2023. Childcare burden and changes in fertility desires of mothers during the COVID-19 pandemic. <i>Frontiers in Psychology</i>, 14: 1243907</p> <p>Wegrzynowska M, Nenko I, Raczkiewicz D, Baranowska B. Investment in the peace of mind? How private services change the landscape of maternity care in Poland. 2023. <i>Social Science & Medicine</i>, 337: 116283</p> <p>Klimek M, Entringer S, Matras A, Blukacz M, Nenko I, Galbarczyk A, Jasienska G. 2023. Early-life adversities and later-life reproductive patterns in women with fully traced reproductive history. <i>Scientific Reports</i>, 13: 9328, doi: 10.1038/s41598-023-36226-w</p>
Impact Factor summary	121.529
Web of Science Core Collection index	591
Hirsch index	13
Number of promoted doctoral degree holders	1 (as co-supervisor)
Number of promoted MA degree holders	11
Current number of PhD students in the Doctoral School of Medical and Health Sciences	2
Proposed research topic	Lifetime reproductive costs and risk of certain non-communicable diseases
Reasons for the compatibility of the proposed research topic with the selected discipline (maximum 100 words)	Non-communicable diseases (NCDs) kill 41 million people each year, equivalent to 71% of all deaths globally. It has been suggested that about 50 different NCDs may have arisen from a mismatch between biologically evolved traits and our modern environments. Extending evolutionary medicine research into a broader and longer-term historical context leveraging unique multidisciplinary and multigenerational datasets is needed. Finland provides a unique opportunity to investigate this topic with continuous data for the whole population since the 1700s, not available from any other country in the world.
Brief description of research methods (max. 250 words)	The theory posits that reproduction infers costs that can decrease old age survival through increasing the risk of certain diseases. The overall aim of this study is to quantitatively assess the relationship between lifetime reproductive costs and risk of certain non-communicable diseases (NCDs) such as cancers, cardiovascular diseases, neurodegenerative disorders among others in contemporary society and the risk of other prevalent diseases in historical society. This will help to understand how reproduction related costs have changed between historical and modern

	<p>environments and how they are associated with past and current disease risks.</p> <p>Lifetime reproductive costs will be estimated based on, among other things, the number of pregnancies including miscarriages, age at menarche, age at menopause. In addition, available information that is important to consider in the models due to confounding effects on the studied outcomes will be included (e.g. age, mother's and father's age at birth, gender). Also, close kin are likely to have similar health and fertility patterns due to inheritance or similar lifestyle and therefore the collected data will allow control for these effects (e.g., number of siblings). Further, the collected data will allow to account for intergenerational effects, socio-economic status during the lifetime (e.g. education level, occupation), and life-style factors (e.g. contraceptive use).</p> <p>The project will be based on data collected for the Finnish population and will be conducted in close collaboration with a Finnish research group.</p>	
Expected location of project implementation:	Department of Environmental Health, Faculty of Health Sciences, Jagiellonian University Medical College	
Description of tasks for the PhD student	<ul style="list-style-type: none"> • Implementation of research tasks included in the project schedule • Development of research results (i.e. statistical analysis, interpretation of obtained results) • Preparation of scientific articles for journals with Impact Factor • Promotion of research results at scientific conferences, seminars, workshops • Promotion of research results in a popular science form • Participation in scientific meetings/gatherings held periodically at the Department 	
Expectations towards the PhD student: specific skills and experience (the description of expectations cannot indicate a specific candidate)	<ul style="list-style-type: none"> • Graduation in a field such as biology, public health or related • Very good knowledge of English (in speaking and writing) • Critical and analytical thinking skills • Ability to use literature databases • Knowledge of the basics of statistics and willingness to develop statistical data analysis skills 	
Temporary availability of the PhD student (number of hours per week) required for the implementation of the project	<p><i>If the project requires working non-standard hours (e.g. late afternoons, Saturdays) - please describe here</i></p> <p>20-30 hours per week</p>	
Does the research project require PhD student's independent performance of medical procedures? <i>Underline the applicable</i>	<u>NO</u>	<p>YES</p> <p><i>Please specify the required professional licence and provide a brief justification</i></p>
Date 30/04/2025	 Submitter's signature	

* If the research topic requires the PhD student to independently perform medical procedures, then in accordance with the admission procedures (Annexes 1 and 2 to Resolution No. 14/II/2024 of the Jagiellonian University Senate, dated 28 February 2024), the candidate must hold the appropriate professional licence. The type of licence (e.g. licence to practise as a doctor, nurse, physiotherapist,

Declaration of the Person Submitting the Research Topic

I confirm that I am familiar with the rules for admission to the Doctoral School of Medical and Health Sciences at the Jagiellonian University for the academic year 2025/2026 as set out in Resolution No. 15/II/2025 of the Senate of the Jagiellonian University, dated 26 February 2025.

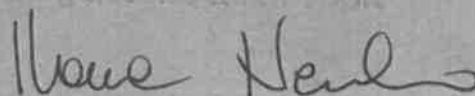
Declaration of the Person Submitting the Research Topic

In particular, I acknowledge that:

I confirm that I am familiar with the rules for admission to the Doctoral School of Medical and Health Sciences at the Jagiellonian University for the academic year 2025/2026 as set out in Resolution No. 15/II/2025 of the Senate of the Jagiellonian University, dated 26 February 2025. If two or more candidates indicate the same research topic in the admission procedure, the research topic will be awarded to the candidate with the highest score. Other candidates will be offered a selection of the remaining research topics not assigned to admitted candidates.

30/04/2025

/date/



/signature of the person submitting the research topic/

Declaration of the Person Submitting the Research Topic

I declare that the research topic entitled **Lifetime reproductive costs and risk of certain non-communicable diseases**

conducted by the PhD student

of the Doctoral School of Medical and Health Sciences

Declaration of the Person Submitting the Research Topic

~~relates to/does not relate to~~* the protected activity, as defined in Article 21 of the Act of 15 May 2016 on Counteracting the Risk of Sexual Offences and the Protection of Minors (Journal of Laws of 2023, item 1304, as amended), involving the upbringing, education, recreation, treatment, provision of psychological counselling, spiritual development, sports, the pursuit of other interests by minors, or their care.

*Delete as appropriate

Ilona Németh

/Signature of the person submitting the research topic/