

Project description

Funding programme: Programmes for Project-Related Personal Exchange (PPP) from 2023 with Brazil	
Programme objective/s (outcomes) of the funding programme¹: Outcomes are predefined and must not be changed	
Programme objective (outcome) 1:	Junior scientists have gained international research experience and undergone further training at an international level
Programme objective (outcome) 2:	Binational research cooperation has been promoted and can be used as a starting point for future co-operations
Results of the measures/activities (outputs) of the funding programme²: Outputs are predefined and must not be changed	
Result (Output) 1:	Joint research results have been gained
Result (Output) 2:	International joint publications have been created

General information			
Title of the research project	Strengthening Advanced Practice Nursing and Collaboration in Primary Health Care		
Applying institution	Bielefeld University		
Organisational unit	Department of Health Services Research and Nursing Science, School of Public Health		
Discipline	Medicine (Public Health and Nursing Science)		
Principal investigator (PI)	Prof. Dr. Kerstin Hämel		
Requested approval period	from: 01.01.2024 to: 31.12.2025	For follow-up application ³ : Previous approval period:	from: 01.01.2022 to: 31.12.2023
Cooperation partner/partner institution (within and outside Germany)	Western Paraná State University – UNIOESTE <i>in cooperation with:</i> National School of Public Health, Oswaldo Cruz Foundation (ENSP/FI-OCRUZ) <i>and</i> Universidade Franciscana (UFN)	Prof. Dr. Beatriz Toso (PI) Prof. Dr. Elyne Engstrom Prof. Dr. Dirce Stein Backes	Cascavel/PR, Brazil Rio de Janeiro, Brazil Santa Maria/ RS, Brazil

¹ The project does not necessarily need to aim at achieving all programme objectives (outcomes of the funding programme). 'Funding programme' and 'programme' are used synonymously.

² Only the results of the measures/activities (outputs of the funding programme) which are relevant for the selected programme objectives (outcomes of the funding programme) must be taken into account.

³ Follow-up application: Application for a project which immediately follows on from funding for the previous year in the same funding programme.

	Universidade Federal do Rio de Janeiro (UFRJ)	Prof. Dr. Cassiano Franco	Rio de Janeiro, Brazil
	Universidade Estadual do Rio de Janeiro (UERJ)	Prof. Dr. Deborah Chaves	Rio de Janeiro, Brazil
Parallel funding and/or parallel application in another DAAD programme?	yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>
If yes, please specify?	Please specify		
Is there already parallel funding and/or a parallel application to another funding body for the same project?	yes <input type="checkbox"/>		no <input checked="" type="checkbox"/>
If yes, please specify?	Please specify		

For follow-up applications: Progress from previous project

1. Please describe the previous project progress (implementation of measures/activities and achievement of objectives) (max. ½ DIN A4-page).

State of the cooperation and research visits:

- The PIs established a research group of 6 Professors (5 Bra, 1 Ger), 1 postdoc (Bra), 6 doctoral students (3 Bra, 3 Ger), 2 Master students (1Bra, 1 Ger). The group meets online once per month.
- Both PIs visited the partner universities in 2022; the second visits will be in 10/23 and 12/23. 2 doctoral students visited Brazil two times, 1 one time. At Bielefeld University, the German PI supervises 1 CAPES postdoc scholarship (07-12/23) and 1 CAPES doctoral scholarship (10 to 12/23).
- The School of Public Health and the Western Paraná State University signed a cooperation agreement (11/22). An agreement with ENSP/FIOCRUZ will be prolonged for 5 years (signature in process).

State of the PPP/PROBRAL research project:

- The research aims to comparatively analyse the development of Advanced Practice Nursing and new models of collaboration in primary health care in Brazil and Germany. Literature analysis was conducted, empirical data collected (Brazil: 4 focus groups (FG), Germany: 5 FG). Translation of transcripts into English, thematic coding of 8 of 9 FGs are completed. In-depth analysis started in July 23.
- The research is progressing with delays due to delayed project approval by CAPES; subsequently scholarships for Brazilian junior scientists could be not established before the second half of 2023.
- A project-related research seminar was conducted at Bielefeld University (M.Sc. Public Health) in 23/24; it will be offered again in 23/24 in cooperation with the PI and postdoc from Brazil.

Publications/visibility of the cooperation and research project:

- 1 workshop & 1 poster were presented at the World Congress of Public Health; 1 workshop at European forum for primary care, 1 presentation at German health services research congress are accepted.
- 1 editorial is published, 1 open access (OA) report is drafted and will be published at the end of 2023, 1 article presenting findings from the focus group analysis will be drafted and submitted until 12/23.
- Despite delays, project participants started binational publication projects drawing on data from previous projects that relate to the project research questions: 1 article submitted 09/22; 1 article submitted 03/23; 1 article to be submitted 08/23.

Project objectives, detailed project description and reference to results logic

1. Please state your project objectives (outcomes), which must be consistent with the programme objectives (outcomes) mentioned above and describe the specialised content of the project. Explanation

should refer to the results logic: which specific project results (outputs or results of the measures/activities) contribute to achieve these project objectives (outcomes)⁴.

2. Touch upon the relevance of your project and ensure that you address all selection criteria in the programme description, which are listed here again:
 - (1) Relationship of the project to the programme objectives (as per the impact analysis structure) and results-oriented planning by using indicators that meet the SMART criteria.⁵
 - (2) Please explain why and how long the planned stay abroad is necessary (respective details to be explained under "Measures/Activity planning")
 - (3) The quality of the project (clarity of project objectives and methods) and scientific relevance of the project (topical nature of the subject matter and the project's degree of innovativeness).
 - (4) Appropriate involvement of junior scientists
 - (5) Transfer of knowledge between the groups of researchers, added scientific value (subject-specific, institutional, interdisciplinary) created through the cooperation for both groups of researchers, scientific and, if applicable, industrial usability of the project results
 - (6) Feasibility of the research project (in particular: financial backing, preliminary work and further plans, adequate travel planning abroad - also with regard to the duration of the stay), project-relevant competence of both research groups, complementarity of the research groups in the joint project (methodologically, content-related, facilities, etc.)
3. Please describe potential risks in relation to the success of the project and explain how you plan to face them.

Please note:

The project objectives (outcomes) and intended results of the project's measures/activities (outputs) must be in line with the results-oriented project planning depicted in the project planning summary.

1. Project objectives, content, and results

The aim of the follow-up application of the joint PPP/PROBRAL project is to bring the qualitative research project (focus group study) to a successful conclusion under the strong involvement of junior scientists. In addition, during the period of 2024-25 we will expand the well-established binational cooperation between the School of Public Health at Bielefeld University, UNIOESTE and ENSP/FIOCRUZ by associating new cooperation partners to the network (Universidade Franciscana, Universidade Federal do Rio de Janeiro, Universidade Estadual do Rio de Janeiro).

The specific project objectives are:

- Junior scientists at postdoctoral, doctoral and master's level have gained competencies in analyzing, discussing and publishing qualitative research in binational research teams. (OC 1)
- The established research group has gained visibility in the participating institutions and the (inter-) national research communities. It expands to a binational hub for exchange in research and teaching in Public Health, Primary Health Care, and Nursing. (OC 2)

The joint research project *"Strengthening Advanced Practice Nursing and Collaboration in Primary Health Care"* focuses on a research topic with high innovation potential for improving public health, health services and nursing. In 2022-23 we conducted a focus group study that aims to compare approaches, possibilities and obstacles of new roles development for the nursing profession and interprofessional collaboration in primary health care. This approach considered the perspective of practicing nurses and general practitioners as well as stakeholders from regulatory bodies and professionals' associations in Brazil and Germany. In order to adequately address the interdisciplinary subject from multiple perspectives, an international team of senior and junior scientists from Public Health, Health Systems and Services Research, Social Sciences, Medicine, and Nursing Science has been established (see: CVs of project participants).

To unfold the impact of the research project to its fullest possible extent, interdisciplinary in-depth focus group data analyses and the presentation of findings at conferences and in articles is necessary.

The two-year prolongation of the PPP/PROBRAL-project would enable the research group to repeatedly offer and further develop its joint teaching activities around the PPP/PROBRAL research project.

⁴ For the definitions of 'Outcomes' and 'Outputs', please refer to the 'Guide to Results-oriented Monitoring'.

⁵ See 'Guide to Results-oriented Project Planning and Monitoring', Chapter 2.

Opening up to new but closely related topics marks the transition of the research group into a hub for research and teaching in the areas of public health, primary health care, and nursing that attracts individual scholarships and new project funding.

With this architecture of the PPP project we will achieve the following *project results*:

- (1) Joint presentation of research findings at scientific conferences have been conducted (OP 1):
 - The binational research group produces research results in a complementary way. Findings are presented and discussed at least at 3 international and 3 national conferences.
- (2) Joint publications for international scientific journals have been created (OP 2):
 - 7 joint research articles are at least submitted to international open access scientific journals with peer review (Details see 2., below)
- (3) Two PPP/PROBRAL research project-related seminars for the Master of Public Health students in the 3rd semester at Bielefeld University have been conducted (OP 3):
 - Master students from Bielefeld University develop own research results related to the topic of the PPP/PROBRAL research project by conducting comparative analyses of the concepts, nursing roles and interprofessional collaboration in primary health care in Brazil and Germany, and by interpreting focus group data from the research project.
- (4) A joint strategic and operational plan for further cooperation in research and teaching is established (OP 4):
 - The research group develops a vision for its activities that goes beyond 2024. Funding opportunities for joint research and teaching are explored and presented to participating institutions and other interested researchers.

2. Relevance of the research project

2.1 Background and objectives of the PPP/PROBRAL research project

Population aging and the rising prevalence of chronic diseases and multimorbidity present challenges to health systems and primary health care provision all around the world (OECD, 2020). In many countries, expanding the roles of the nursing profession and promoting interprofessional collaboration has been acknowledged as a strategy to strengthen primary health care (Kendall, 2008). Advanced Practice Nurse (APN) roles in primary care are implemented for a long time in Anglo-Saxon countries; other countries followed this development in the last decade (Toso et al., 2016; Hämel et al., 2020). In recent years, tasks and responsibilities of primary health care nurses have been also expanded in Brazil. In Germany there are – to a less extent - efforts to develop and expand the contribution of nurses in primary health care (Hämel et al., 2022; Zimansky et al., 2023); in both countries, APN development is increasingly discussed in health policies but still in its infancies in practice (Bula et al., 2023).

In our research project we comparatively analyze possibilities and obstacles to expanding nurses' tasks and responsibilities, APN implementation, and strengthening interprofessional collaboration in primary health care Brazil and Germany. The following study objectives are addressed:

1. To identify strengths, possibilities, and obstacles of nursing roles expansion, APN implementation, and as a consequence, new models of interprofessional collaboration in primary health care in Brazil and Germany.
2. To compare the cases of Brazil and Germany considering health systems contexts and primary health care models.
3. To inform and make recommendations for future research, policies and practices on the implementation of APN as well as models of collaboration in primary health care.

At the end of the first project phase (2022-23) the aspired outcomes and outputs of our PPP/PROBRAL project will be achieved to most of the proposed extent. However, we faced a delayed start of the Brazilian project funding and in focus group data processing. We produced rich qualitative data and analyzed this data according to the thematic coding approach of Flick (2018). First in-depth analysis started in July

2023. Comprehensive results of our study can be and still have to be elaborated and presented to the scientific community in 2024 and 2025.

2.2 Subprojects for in depth data analysis and article drafting

We have defined four themes to proceed with our analyses; for each theme, we defined main responsibilities to undertake in-depth data analysis and draft publications collaboratively in binational sub-teams. Each sub-team is composed of senior and junior researchers. Some of the publications will be part of individual dissertations of project team members. Research visits in Brazil and Germany are necessary to have phases of intensive collaboration in data interpretation and article drafting.

Theme 1: Health systems perspectives on nursing in Brazil and Germany: Building up on the results of the comparative literature and document analysis conducted in 2022-23, an article comparing the framework for nursing in the health systems and primary health care models of Brazil and Germany will be submitted in 2024. The Brazilian PI (BT) will primarily write the article together with 1 German PhD-student (DB) who will integrate this article into her dissertation. They will closely coordinate with other co-authors of the group (EE, DL, LG, MH, MR, RR, KH). The article will provide a clear analytical understanding of commonalities and differences on the subject between Brazil and Germany and therefore be an important reference point for the subsequent analyses of recent developments as seen in the focus group data. Additionally, the article will inform a new doctoral project on nurse migration (see 2.3).

Theme 2: Interprofessional collaboration: This theme will focus on the comparison of the meaning of interprofessional collaboration in primary health care in both countries and will deepen our understanding of changing collaboration patterns in face of the expansion of tasks of nurses/APN development. Focus group data analysis already concentrated on this theme in 2023. One article that comparatively analyzes perspectives on current and future collaboration between nurses and physicians in Brazil and Germany will be submitted by the end of the year. One Brazilian postdoc (CF) is mainly responsible for writing this article. He prepares the manuscript during his stay in Germany in 2023 in close coordination with the supervising German PI (KH), his Brazilian supervisor (LG), one German PhD student (DB, as part of her dissertation) and one Brazilian doctoral student (AP). This article will undergo peer review in 2024.

Theme 3: APN implementation: This theme will focus on conditions and perspectives for and practical areas of APN implementation in primary health care in Brazil and Germany. These aspects are central in the focus groups that were conducted in 2022 and 2023. The binational research group already concentrated on this theme during the data analysis in 2023. Three articles are planned: The *first* article will deepen the understanding of perspectives for APN implementation in Brazil. It will therefore concentrate on an in-depth analysis of the Brazilian focus group data. The article will be based on a Master thesis, that will be further developed by the master student (VC), the supervising Brazilian PI (BT) and her colleagues (MR, RR, EE, LG, DC), and the German PI (KH). It will be submitted in first half of 2024. The *second* article will present the results of a comparative analysis of the focus group data investigating facilitating and hindering conditions for APN implementation in primary health care in Brazil and Germany as perceived by the focus group participants. It will be primarily written by 1 German doctoral student (DB, as part of her dissertation) supervised by the German PI (KH) and in collaboration with the Brazilian postdoc (CF) and his supervisor (LG). Submission is planned for the end of 2024. The *third* article will focus on comparing (potential) tasks and responsibilities for APNs in Brazil and Germany in primary care as part of the dissertation of 1 Brazilian doctoral student (JC) who has been selected by the group to apply for a doctoral scholarship in the PROBRAL project. JC will present her article concept during the research visit of the German PI (KH) in Brazil in 2024. She will analyze focus group data and write the article (as part of her dissertation) during her intended 4 month stay at Bielefeld University in 2025 supervised by the German PI (KH) and in cooperation with her Brazilian supervisor (LG) and her colleagues (BT, EE, DC).

Theme 4: Methodological challenges and solutions in international comparative qualitative research: By addressing the application of research methods in international comparative studies and resulting methodological challenges, this theme will add a methodological perspective to the project. The research group will make their experiences with international comparative studies available for other researchers by writing a methodological article. This will reflect methodological challenges of the influences of bilingual research and different conceptual understandings and will show possible solutions for arising problems. The

article will be developed primarily by two postdocs from Bielefeld University, a (then) former doctoral student of the PPP Project (MH) and a new project participant who is postdoc and lecturer on research methods in public health at School of Public Health Bielefeld (AN). The German and Brazilian PI (KH, BT) and 1 German doctoral student (DL) will join this team. The article will be submitted in 2025.

2.3 Extension of the cooperation: Integrating new topics that relate to the main project

Additionally, we would like to integrate new topics through the inclusion of the two following doctoral projects which broaden the scope of the main research project. At the same time the two doctoral students will draw on the findings of the main project and will profit of the expertise of the research groups:

Interprofessional collaboration in primary mental health care: The relevance of mental health in Brazil and Germany is growing because the amount of mental health problems is rising in both countries. Chronic mental health conditions increasingly need to be addressed close to peoples' homes in primary care settings. To enable this, interprofessional collaboration is a highly promising approach (Kafczyk/Hämel, 2021). A new doctoral project has been proposed to the group to investigate perspectives for and conditions of interprofessional primary mental health teams in Brazil and Germany. The doctoral student (EG) who is supervised by one Brazilian professor (MR) in cooperation with the Brazilian PI (BT) has been selected by the group. He will apply for a 4 months scholarship for a research stay in Germany supervised by the German PI (KH). The article will be submitted by 2024 as part of the dissertation of EG and developed in co-authorship with MR, EE, and the PIs KH and BT.

Nurse migration from Brazil to Germany: The focus group data as well as other research indicates that a shortage of nurses is a major hindering factor for the implementation of new, expanded professional roles for nurses in Germany. Recently, nurse migration from Brazil to Germany has been facilitated through an agreement between both countries. Nevertheless, nursing tasks and roles are quite different in both countries. A new doctoral project has been proposed to the group to address the topic of nurse migration from Brazil to Germany. The doctoral student (MZ) who already worked as a student assistant for the PPP/PROBRAL research project in 2022 will start her doctoral project at the School of Public Health in 2023. The dissertation will be supervised by the German PI (KH) and supported by the Brazilian professors (BT, MR, LG, EE, DSB) during the students two research visits in Brazil (2024: data collection; 2025: discussion of results). The first article will be submitted as part of the dissertation of MZ in 2025.

Transfer of knowledge

Main areas of knowledge transfer are a) conceptual understanding and meaning of APN, Nursing, and Primary Health Care models, b) qualitative data analysis, and c) international comparative research. Through the interdisciplinary collaboration as well as the mix of nationalities and junior and senior researchers in each subproject, and clear definition of tasks and responsibilities we will permanently exchange and improve our knowledge and competencies. The interdisciplinary discussions will be deepened in a project-related research seminar with master students at the School of Public Health, Bielefeld. In addition to the joint stays of the research teams in Brazil and Germany, regular project and subproject discussions are held via Zoom meetings to ensure the transfer of knowledge between all project participants. To support collaboration, cloud-based service is used that enable joint literature and empirical data (MAXQDA) management in compliance with data protection regulations. In order to provide impulses for the further development of the nursing profession and of APN and interprofessional collaboration in primary health care in Brazil and Germany, the results will be discussed at (inter)national congresses and accessible to the general public by means of several publications in open access scientific journals with peer review.

Feasibility of the project

The binational research group has already proven its competencies in designing and conducting a comparative qualitative study in the first two years (2022-23). This builds a solid basis to prepare in the proposed PPP/PROBRAL project articles for international scientific journals with greater academic impact. For the successful implementation of the proposed project(s) in 2024-25 mutual research visits are planned so that in-depth data analysis and interpretation can be carried out. The Department of Health Services Research and Nursing Sciences (Prof. Hämel, Bielefeld University) will provide resources to support the two doctoral students from Brazil during their intended four-month stay in Germany within the frame of the

PROBRAL Scholarships). This includes shared access to office space, local telephone service, internet access, postal services, library, photocopy machine, equipment and supplies. Further financial expenditure to present research findings (e.g. to cover travel costs to conferences, proof reading of articles) will be provided by budgetary funds/own contributions, too. The long-term goal is to transform the existing research cooperation into a binational research hub that enables strategic future cooperation for binational research and teaching. This will be consolidated by the cooperative agreements between the School of Public Health, UNIOESTE, and ENSP/FIOCRUZ and by the association of three more universities (Universidade Franciscana, Universidade Federal do Rio de Janeiro, Universidade Estadual do Rio de Janeiro) that expand cooperation opportunities.

3. Potential risks

As the proposed project is based primarily on research data that is already available risks for the subprojects are already minimized. For the 2 new doctoral projects which will develop own data basis there are more risks for project obstacles and delays. However, doctoral students will benefit from existing experience and solutions of the network in joint field work. Some of the articles planned are part of (post)doctoral research. Individual work progress of these projects cannot be mandated by the PIs the same way as it would be in third party funded research. Through clear definition of tasks and responsibilities, regular team meetings in the whole group and subgroups as well as a culture of open communication we try to early detect problems and find solutions in the team(s). Each junior scientists will develop the analysis under supervision of a professor of the project team. All supervisors are dedicated and obliged to regular counselling and to practical and intellectual support to the projects. We emphasize that all project participants are already known to each other, have worked together, and that the junior scientists were selected by consensus of the participating professors of the team based on their past performance.

References

- Bula, D., Heumann, M., Hämel, K., Toso, B. R. G. de O., Rodrigues, R. M., & Rizzotto, M. L. F. (2022). Advanced practice nursing: Cooperation between Brazil and Germany for exchange and research development. *Varia Scientia - Ciências da Saúde*, 8(1), 10-12. <https://doi.org/10.48075/vscs.v8i1.29594>
- Hämel, K., Röhsch, G., Heumann, M., Backes, D. S., Toso, B. R. G. de O., & Giovanella, L. (2022). How do nurses support chronically ill clients' participation and self-management in primary care? A cross-country qualitative study. *BMC Primary Care*, 23, 85. <https://doi.org/10.1186/s12875-022-01687-x>
- Hämel, K., Toso, B. R. G. O., Casanova, A., & Giovanella, L. (2020). Advanced Practice Nursing in Primary Health Care in the Spanish National Health System. *Ciência & Saúde Coletiva*, 25(1), 303-314. doi:10.1590/1413-81232020251.28332019
- Kafczyk, T. M., & Hämel, K. (2021). The Architecture of the Primary Mental Healthcare System for Older People in India – What Public Policies Tell Us. *International journal of mental health systems*, 15(1), 72. <https://doi.org/10.1186/s13033-021-00494-8>
- Kendall, S. (2008). Nursing perspectives and contribution to primary health care. Geneva: International Council of Nurses.
- OECD (2020), *Realising the Potential of Primary Health Care*, OECD Health Policy Studies, OECD Publishing, Paris, <https://doi.org/10.1787/a92adee4-en>
- Toso, B. R., Filippin, J., & Giovanella, L. (2016). Nurses' performance on primary care in the National Health Service in England. *Revista brasileira de enfermagem*, 69(1), 169–177. <https://doi.org/10.1590/0034-7167.2016690124i>
- Zimansky, M., Hazim, B., Klukas, E., Hamacher, M., van de Sand, H., Gustaevel, M., Wiegmann, S., & Hämel, K. (2023). Interprofessionelle Zusammenarbeit von Hausärzt_innen und Pflegefachpersonen in der Primärversorgung. Eine qualitative Studie. *Pflege*, 1-8. <https://doi.org/10.1024/1012-5302/a000942>

Measures/activities planning

Description of the measures/activities

Please describe the planned measures/activities (also see the category 'Measures/activities eligible for funding' in the call for proposals).

If necessary, insert new rows in the table for further planned measures/activities.

<p><u>Note:</u> Measures/activities must be in line with the results-oriented project planning depicted in the project planning summary.</p> <p>When describing the measures, you should also indicate, which research group will perform which work items and where this will take place. Please indicate which methods will be used.</p>	
Title of measure/activity 1:	Research visits of German project participants – APN implementation and methodological reflections:
Description:	<u>German PI, 1 postdoc & 1 doctoral student together with Brazilian team</u> Presentation of and counselling for all subprojects; methodological reflections; joint in-depth analysis and article drafting - theme APN implementation.
Place and time frame	Rio de Janeiro, Paraná / 02-03/2024
Title of measure/activity 2:	Brazilian doctoral fellowship on primary mental health care, cooperation talks
Description:	<u>1 Brazilian Professor & 1 doctoral student together with German team</u> Implementation of CAPES doctoral fellowship - theme interprofessional primary mental health care (PMHC); visits of primary care and mental health care facilities; article drafting on interprofessional PMHC; cooperation talks between ENSP/FIOCRUZ and Bielefeld University.
Place and time frame	Bielefeld, 04-08/2024
Title of measure/activity 3:	Project related master seminars, cooperation talks, reflection of the project
Description:	<u>Brazilian and German PI together with German project participants</u> Training of master students in international health systems comparison and analysis of focus group data from Brazil and Germany; presentation and discussion of the German (post)doctoral projects; drafting of strategic and operational plan for future collaboration; reflection of overall project progress.
Place and time frame	Bielefeld & Online, 10/2024 – 02/2025 & 10/2025 – 12/2025
Title of measure/activity 4:	German doctoral fellowship on nurse migration
Description:	1 doctoral student, data collection, in depth analysis and article drafting on nurse migration
Place and time frame	Rio Grande do Sul, Rio de Janeiro 02-03/2024, 02-03/2025
Title of measure/activity 5:	Research visits of German project participants: Integration of project findings and strategic and operational planning
Description:	<u>German PI, 1 postdoc, 1 doctoral student together with Brazilian team</u> Presentation of and counselling for all subprojects; finalizing methodological article; presentation, discussion and further development of the strategic and operational plan for further collaboration.
Place and time frame	Rio de Janeiro, Cascavel, Santa Maria 02-03/2025
Title of measure/activity 6:	Brazilian doctoral fellowship on Advanced Practice Nursing (APN)
Description:	<u>1 Brazilian doctoral student together with German PI and Brazilian supervisor</u> Implementation of CAPES doctoral fellowship on APN; in-depth analysis and article drafting; visits of primary and long-term care facilities in Germany;
Place and time frame	Bielefeld, 04-08/2025

Sustainable impact and perspectives

Please explain how sustainable impact beyond the planned funding period may be achieved as well as potential perspectives for the project. Risk factors, responsibilities, and possible strategies to address these, should be outlined, too. (max. ¼ DIN A4-Page)

A key objective of this project is to establish a binational hub for exchange in research and teaching in public health, primary health care and nursing that is able to attract further funding: a) The research topic of nursing and interprofessional collaboration builds the basis of a strong joint track record of publications and project fundings. At the same time, we carefully expanded our collaboration to further emerging, affiliated public health and nursing topics (nurse migration, mental health) to be able to respond to funding opportunities more flexible and thus mitigate risks of incompatible opportunities. b) With the association of new postdoc researchers and 1 full professor we also opened up the network into three new universities. This will enable us to attract junior scientists in the future. C) Moreover, a strategic and operational plan based on the exploration of appropriate funding opportunities will be established in the next two years and will guide our future activities. It will be presented and discussed in our institutions to develop supportive environments for the binational network and it will attract new researchers to join. Both PIs are the persons responsible for this development who work in close partnership with the other professors.

Planned international mobility of the research groups

Please enter the planned stays of the researchers at the respective partner institution abroad during the funding period in the table below chronologically.

German project participant to perform stay abroad	Academic status	Research task to be performed	Duration in days	Planned date of stay (MM/YYYY)
Kerstin Hämel	Professor	Research coordination, data analysis, doctoral students counselling, preparation of publication	18	02-03/2024
Marcus Heumann	Postdoc	Methodological reflection, preparation of publication, doctoral students counselling	18	02-03/2024
Daria Bula	Doctoral student	Data analysis, preparation of publication	28	02-03/2024
Maike Zwergel	Doctoral student	Presentation of doctoral project, data collection	28	02-03/2024
Kerstin Hämel	Professor	Research coordination, doctoral students counselling, preparation of publication, strategic plan of future cooperation	18	03/2025
Anna Nowak	Postdoc	Methodological reflection, preparation of publication, doctoral students counselling	18	02-03/2025
Maike Zwergel	Doctoral student	Data analysis, preparation of publication	28	02-03/2025
Daniela Luisi	Doctoral student	Methodological reflection, preparation of publication	28	02-03/2025

Project participant of the partner to perform stay in Germany	Academic status	Research task to be performed	Duration in days	Planned date of stay (MM/YYYY)

Elyne Engstrom	Professor	Preparation of publication, doctoral students counselling, strategic plan of future cooperation	10	05/2024
Eduardo Giacomini	Doctoral student	Presentation of doctoral project, data analysis, preparation of publication.	122	04-08/2024
Beatriz Toso	Professor	Research coordination; Doctoral students counselling; guest lecture research seminar; Preparation of publication	10	10/2024
Jaqueline Carvalho	Doctoral student	Presentation of doctoral project, data analysis, preparation of publication	122	04-08/2025
Beatriz Toso	Professor	Research coordination; Doctoral students counselling; guest lecture research seminar; strategic plan of future cooperation	10	11/2025

Further programme specific information

Structure of the research group

Briefly describe the structure of your research group and the criteria for selecting the project participants.

The research group is composed by full professors (BT, KH, EE, RR, DSB), senior professors (MR, LG), and junior scientists (Brazilians: EG, AP, JC, CF, DC, VC; Germany: MH, DB, DL, MZ, AN). Through continuation of established projects of master (VC) and doctoral students (DB, DL, AP) as well as by the inclusion of new doctoral students (EG, MZ, JC) and subprojects of early career postdoctoral researchers (AN, MH, CF, DC) the PIs (BT, KH) will together with supervising professors (EE, LG, MR, RR; new: DSB) coordinate an excellent team in 2024-25. Criteria for selection of project participants were: a) Expertise in the project topic, b) development of a subproject within the main project (using project data) or on a subject that closely relates to the main project, b) excellent CVs giving evidence on expertise in the study field c) proven expertise in qualitative data analysis.

Roles in the project

Please explain what each project participant – inside and outside Germany – is responsible for within the project as a whole.

Germany: **Kerstin Hämel (KH):** Project coordination; coordination of the German team; data analysis and article drafting; supervision/counselling of German and Brazilian doctoral and postdoc projects; further development of the binational cooperation. **Marcus Heumann (MH), Anna Nowak (AN):** Methodological reflection, article drafting, co-counselling of doctoral projects. **Daria Bula (DB), Daniela Luisi (DL), Maike Zwergel (MZ):** Development of the own dissertation project, data analysis, article drafting.

Brazil: **Beatriz Toso (BT):** Project coordination; coordination of the Brazilian team; data analysis; article drafting; supervision/counselling of doctoral and postdoctoral projects, further development of the binational cooperation. **Maria Rizzoto (MR), Rosa Rodrigues (RR), Ligia Giovanella (LG), Elyne Enstrom (EE):** data analysis, article drafting, supervision and counselling the doctoral students, participation in the development of the binational cooperation. **Dirce Stein Backes (DSB), Débora Chaves (DC), Cassiano Franco (CF):** article drafting, co-counselling of doctoral projects, participation in the development of the binational cooperation. **Eduardo Giacomini (EG), Jacqueline Carvalho (JC), Aline Pereira (AP), Vanessa Capelesso (VC):** Development of the own dissertation project, data analysis, article drafting.