

SECTION GLOBAL HEALTH AND CHAIR FOR GLOBAL HEALTH -SOCIAL AND CULTURAL ASPECTS

Annual Report 2022





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Since the beginning of the Masters programme, our sponsor has been Dr. Hans Riegel-Stiftung. This foundation was founded by Dr. Hans Riegel. His primary focus was on the advancement of education, as well as the promotion and support of next generations - from primary school, to high school, and university. The Section Global Health and the MSc Global Health Risk Management & Hygiene Policies links to Dr. Riegel's concern for a future-oriented and forward-looking society, because both think of science as a highly interdisciplinary field with multiple accounts for practice. In the case of the MSc Global Health, this knowledge transfer from science to practice specifically is about policy making and health-related management at all levels.

This report could not have been compiled without the tremendous help of Anna Minarik.

PEOPLE



Head

Univ.-Prof. Dr. med. Walter Bruchhausen Dipl-Theol MPhil Health Care Ethics walter.bruchhausen@ukbonn.de



Study Program Coordinator

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Academic Staff



Dr. Esther Evang MSc Public Health esther.evang@ukbonn.de

- Global Health Academy Coordinator of the German Alliance for Global Health Research (GLOHRA)
- Senior Researcher

Dr. med. Oliver Henke

MSc International Health

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• Senior Researcher

Specialist

•

• Head of AG Global Oncology

Oncologist; Palliative Care

Haematologist, Medical



Dr. Timo Falkenberg

MSc Development Administration and Planning, BSc Public Health timo.falkenberg@ukbonn.de

- Senior Researcher
- Scientific Coordinator G-WAC
- Associate Researcher at the Centre for Development Research, University of Bonn

Dr. med. Andreas Schultz MSc International Health andreas.schultz@ukbonn.de

- Senior Researcher
- Head of AG Global Child Health
- Senior-Program Manager at the Gesellschaft für internationale Zusammenarbeit (GIZ)



Dr. med. Jan Wynands jan.wynands@ukbonn.de

- Senior Researcher
- Head of AG Global Surgery
- Reconstructive Surgeon with MSF and ICRC



Dr. Andrea Rechenburg

andrea.rechenburg@ukbonn.de

- Senior Researcher
- Head WHO Collaborating Centre at IHPH



Visiting Scholars



Dr. Sandbul Yasobant, PhD, MPH

<u>yasobant@uni-bonn.de</u>

- Postdoctoral Fellow
- Head of AG Global One Health
- Technical Research Officer at the Indian Institute of Public Health Gandhinagar

Student Assistants

Johanna Kröger



Anna Minarik



Simon Sterk



Katharina Gries











Team Day Photo

From left to right: Timo Falkenberg, Andreas Schultz, Esther Evang, Andrea Rechenburg, Walter Bruchhausen, Jan Wynands, Oliver Henke, and Eva Kuhn.



NEW WORKING GROUP

Global Epileptology

The Global Epileptology working group is located at the Department of Epileptology and the Section Global Health. It is led by Prof. Dr. med. Walter Bruchhausen and PD Dr. med. Theodor Rüber. The group focusses on designing and conducting ethnographic, epidemiological, and clinical research with the aim of further understanding how epilepsy can be prevented, diagnosed, and treated in low- and middle-income countries. In the future, the working group aims to investigate the use of mobile and digital health (including Artificial Intelligence tools) to reduce the burden of epilepsy particularly in underserved communities. The working group's current focus regions include Zambia and Chile.

Testimonial from Rahel Babić

As part of my research I got to spent two months of 2022 in Zambia, where I worked with the Mfuwe Epilepsy Project that focuses on the improvement of the diagnosis and treatment of





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epilepsy in the Eastern Province of Zambia. The team is lead by local nurses, and doctors and EEG technicians from Canada, Israel and Germany who are working to reduce the burden of epilepsy in this low resource setting. My research concerned the socio-cultural impact of epilepsy. I looked into the burdens patients and their caregivers faced, and explored possible solutions on how to better educate on the topic with local health workers and teachers. In my time in Zambia I got to talk to many different people and listen to their perspectives. While abroad I learned a lot as an individual, and especially gained great insight in how research and NGO-work can go hand in hand and aid each



The working groups on

- Global Child Health,
- Global History, Anthropology and Ethics of (Global) Health
- Global Oncology,
- Global Surgery, and
- One Health and Disease Prevention
- continue their work.



TEACHING & THESIS SUPERVISION

Teaching within Medical Education in Bonny

Wahlfach I Summer Term 2022

Besides extensive engagement in the MSc Global Health - Risk Management & Hygiene Policies, the Section Global Health offers elective modules (Wahlfach I and II) in Humanmedizin (first and second study sections of medicine). Wahlfach I **"Einführung in Global Health"** in summer semester 2022 covered the whole variety of Global Health:

Lecturer	Topic Covered						
Dr. med. Andreas Schultz	Medizinische Kurzaufenthalte im Rahmen der Entwicklungszusammenarbeit Kinderheilkunde unter einfachen Bedingungen						
Dr. oec. troph. Esther Evang	(Fehl-)Ernährung und Gesundheit						
Eva Kuhn	Global Health Ethik						
Dr. med. Jan Wynands	Kriegschirurgie – Chirurgie im Rahmen des Möglichen						
Dr. med. Oliver Henke	Krebserkrankungen in Afrika						
Dr. med. Peter Schmitz	Standards der Gesundheitsversorgung in der Humanitären Hilfe						
Dr. rer. nat. Timo Falkenberg	Gesundheit & Entwicklung						
Prof. Dr. med. Walter Bruchhausen	Was ist und will Global Health? Medical Anthropology und Traditionelle Medizin						
Dr. med. Winfried Zacher	Klimawandel und Gesundheit						

Eva Kuhn and Walter Bruchhausen both contributed to the Course **'Clinical Ethics'** (curricular component of the medical studies in the 5th clinical semester).



Teaching MSc Global Health - Risk Management and Hygiene Policies

First Year	Module M01 6 LP Basics of Public Health and Hygiene • Global Health Needs • Global Health Players • Global Health Ethics • Risk Regulation • Control of Com municable Diseases • Vertical and Horizontal Approaches		Module M02 6 LP Global Health beyond Infection Clobal Oncology Global Child Health Clobal Surgery Global Maternal Health Palliative Care Internal Medicine		Module M03 6 LP Prevention and Control of Infectious Diseases • Microbiology • Bacteriology • Virology • Parasitology • Hygiene		Module M04 6 LP Presentation and Writing Skills in Research • Target-Group Oriented Communication • Good Academic Practice • Scientific Writing • Visualization • Multi-/ Inter-/ Transdisciplinary Research • Basics in Epidemiology		Module M05 6 LP Health Systems and Health Management Structures 4. Health Information 4. Health Information 5. Technology 6. Health Services Delivery 9. Health Services 1. Governance 6. Governance	
	Livestock & Food Safety through One Health Concept • Livestock Production • Biosecurity • Social and Animal Welfare • Early Detection & Prevention of Common Animal Diseases • Agri-Food Chains • Packaging Solutions • Hydienic Management		Module M07 6 LP Spatial Health Risk Assessment & Capacity Building in Public Health Action • Geographies of Health • Water-Related Risk Assessment • Water-Related Risk Assessment • Water-Related Risk Assessment • Water-Related Risk Assessment • Water-Related Risk Assessment • Water-Related Risk Assessment • United Risk Perception • Capacity Building & Vulnerability Analysis • Urban Health		Module M08 6 LP Dimensions of yulnerability and Risk Management • Understanding Risk • Cosystem-Based Disaster Risk Reduction • Geospatial Technologies • Human Health & Climate Change • Climate Policy Frameworks		Module M09 6LP SDGs as Guiding Principles and Global Consent • MDGs to SDGs • SDG targets: Health Indicators and Measurement • Financing the SDGs • Sustainability Governance • SDG Monitoring • SDGs 1 & 6		Module M10 6 LP Preparation for Research Projects and Leadership Development • Data Management • Basics in Descriptive Statistics • Research Ethics • Cultural Sensitivity • Interpersonal Skills • Journal Club	

Prof. Dr. Walter Bruchhausen

- Module 5: Introduction: WHO Concept of a Health SystemNational; Systems Theory Reforming National Health Systems: Country Case Studies — Governance: Defining National Health Systems — Governing National Health Systems: types of health systems, their strengths and weaknesses — Service Delivery: Classical Approaches - Access - Quality -Utilization — Governance at District Level
- Module 1: Basics of Global Health (Q & A Sessions, Exams)
- Module 2: Global Clinical Care (Q & A Sessions)

Dr. Esther Evang

- Module 5: Key Functions of Health Information Systems
- Module 6: Governing Crisis: Famine A Simulation Game
- Module 10: Epidemiology

Dr. Timo Falkenberg

 Module 9 (module coordination): MDGs, SDGs and Development — Health Interactions of SDG1 — From MDG to SDG: Global Health Targets - Progress and Development — Overview of SDG Targets: Health Indicators and Measurement

Dr. Oliver Henke

- Module 5: Service Delivery for NCD Access to Oncological Treatment
- Module 2: NCDs (Q&A Sessions)



Eva Kuhn

- Module 4 (modul coordination): Academic and Research Skills
- Module 10 (module coordination): Thesis Preparation

Dr. Andrea Rechenburg

- Module 3: Hygiene
- Module 7 (module coordination): Water-related Diseases

Dr. Andreas Schultz

- Module 5: Health System Strengthening/ Human Resources
- Module 6: Nutrition and Malnutrition Overview
- Module 2: Child Health (Q & A Sessions)

Dr. Jan Wynands

- Module 5: Delivery of Surgical Services Equipment: Health Technology
- Module 2: Essential Surgery (Q & A Sessions)

Due to the reform process of the MSc and the preparation of the re-accreditation teaching was reduced in the academic year 2022/2023.

Completed and Ongoing Thesis Supervision

Prof. Dr. Walter Bruchhausen

Completed Doctoral Supervision

• Léonie Karduck, "Global Health Research and Education at Medical Faculties in Germany" (Dr. med.; RWTH Aachen)

Completed Supervision Master Thesis

• Ayşegül Sayin, "Addressing the Governance Issues of Health as a Global Public Good Under New Challenges"

Ongoing Supervision of PhD Students

Abraham Kidane | · Joannishka Dsani | · Gordon Dakuu | · Anne Pili

Dr. Timo Falkenberg

Completed Supervision Master Thesis

 Daniel Tarekegn Worede, "Clinical Outcomes and Laboratory Profiles among COVID-19 Confirmed Patients in Debre Markos Treatment Center, Ethiopia"

Academic Tutor of Doctoral Students

Abraham Kidane | · Joannishka Dsani | · Jaqueline Hildebrand



Dr. Oliver Henke

Completed Supervision Master Thesis

• Dr. Sabine Tschirner, "A Needs Assessment & Gap Analysis of Radiotherapy Services among Breast and Prostate Cancer Patients in Tanzania, Africa"

Eva Kuhn

Completed Supervision Master Theses

- Bassima Abdullah Ahmed Abdo Alodini, "Impact of Khat on Pregnancy: A Scoping Review"
- Liya Kahsay Abraha, "Findings Following the Implementation of Validated APCA POS on Palliative Care Patients and Their Caregivers in Different African Countries: A Scoping Review"

Dr. Andrea Rechenburg

Completed Supervision Master Thesis

• Stella Uchechi Popoola, "How Hygiene Interventions can Influence the Control of Lassa Fever in Nigeria: A Systematic Review"

Dr. Andreas Schultz

Completed Supervision Master Theses

- Netsanet Kassaw Agazie, "Prevalence and Associated Factors of Neonatal Hypothermia in Low-Resource Settings"
- Solen Abera Nefa, "Assessment of Levels and Determinants of Under-Five Mortality and Caretakers' Satisfaction on Child Health Care Services Delivered in Assosa Zone, Benishangul Gumuz Region, North West Ethiopia"

External Teaching

Prof. Dr. Walter Bruchhausen

- Der lange Weg zu einer globalen Gesundheitsversorgung; Akteure im globalen Gesundheitssystem; Kulturelle Einflüsse auf Gesundheit [The Long Way to a Global Health Provision; Actors in Global Health; Cultural Influences on Health] *Master Public Health, University of Düsseldorf, 9.-11.5.2022*
- Medizin und Religion; Einführung in die Medical Anthropology; Ärztliche Arbeit in ressourcenarmen Settings; Global Denken – Widersprüche Aushalten [Medicine and Religion; Introduction to Medical Anthropology; Medical Work in low-resource settings; Think Global -Endure Contradictions] — Second Track Intermed, University Hospital Hamburg-Eppendorf, 17.-18.5.2022
- Ärzt:innen in Gesundheitsprojekten; "Vertikale" Krankheitsbekämpfungsprogramme; Global Health Governance; Humanitäre Hilfe oder EZ? [Physicians in Health Projects; "Vertical" Disease Control; Global Health Governance; Humanitarian Aid or Development Cooperation?]
 — Second Track Intermed, University Hospital Hamburg-Eppendorf, 13.-14.12.2022
- Local Concepts of Health and Medicine ZEF Interdisciplinary Course, BIGS-DR (Bonn International Graduate School for Development Research), 24.10.2022



Dr. Oliver Henke

- Modul Global Oncology MSc International Health, Charité Berlin
- DTM&H, Cancer Care und Palliativmedizin in Sub-Sahara Afrika *Bernhardt-Nocht-Institute, Hamburg*
- Non-communicable diseases Master Public Health, University of Düsseldorf

Dr. Andreas Schultz

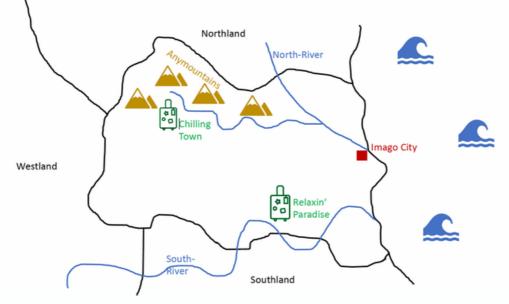
- Arbeitskräfte im globalen Gesundheitswesen [Global Health Workforce and Deployment] *Master Public Health, University of Düsseldorf, 11.5.2022*
- Medizin und Praxis, Einführung in die praktische Entwicklungszusammenarbeit [Medicine and Practice; Introduction to practical Development Cooperation] *Second Track Intermed, University Hospital Hamburg-Eppendorf, 14.12.2022*

Dr. Timo Falkenberg

- Introduction to Public Health Study Designs and Methods ZEF Disciplinary Course, 8.3.2022
- Introduction to One Health ZEF Interdisciplinary Course, 21.10.2022

Development of Teaching Materials

Dr. Esther Evang and Eva Kuhn developed the **simulation game**, Imaginaria, to shed light on the interplay of social, technical, medical, psychological, economic, and political factors in the fight against food insecurity. The game aims to achieve a holistic understanding of multi-disciplinary approaches to address short-term and long-term interventions in an emergency situation for a sustainable future. Each actor has their own expertise and agenda, and together different actors must develop a short-term and long-term joint strategy. A negation phase and plenary session are the stage for various committees to present their proposals. A context-adapted strategy and cooperation among diverse stakeholders must be created to succeed in this game. Players will develop an understanding of the wide-reaching effects of food insecurity and the interconnected provide the solutions to the problems caused by food insecurity.





PROJECTS

Centre for Reconstructive & Global Surgery (LAMU Hospital) Jinja,Uganda

On March 1st, Dr. Jan Wynands who leads the Global Surgery working group, opened the "LAMU- Hospital – Centre for Reconstructive Surgery and Global Surgery" in Jinja, Uganda in partnership with <u>ANDO modular aid</u> and the Ugandan Bulamu Bukondhe Foundation (please click <u>here</u> to view the Launch Film of LAMU hospital). The aim of the clinic is to provide long-term, high-quality surgical care for people from all over Eastern Africa. The hospital runs a dual approach. It provides continuous general service for maternal health and child health as well as services through the lab for other health facilities. Furthermore, the modern infrastructure of the hospital allows specialized reconstructive surgical procedures.

Surgical training camps in cooperation with international non-governmental organizations such as INTERPLAST Germany underline the educational core idea of the hospital. In 2022, three surgical camps predominantly focusing on lower limb reconstruction as well as on patients suffering from burns and acid attacks could improve the lives of 130 patients.

The first scholarship in reconstructive facial surgery was awarded to Dr. Obadey Kambale Vitswamba from Goma (DRC), who joined the first Surgical Camp provided by INTERPLAST Germany in July 2022.

LAMU-hospital also hosted a first medical internship with Miriam Obst, a medical student from Bonn University, who completed a 6-week internship at LAMU Hospital.



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Together with the working group on extended reality of the Department of Surgery at the University Hospital Bonn (Prof. Kalff) 3D-Technology will be implemented at LAMU-hospital, becoming the first hospital in Eastern Africa to use extended reality and 3D-Technology to train medical staff, analyse and discuss specific diseases and plan surgical interventions in order to improve patient safety and surgical outcome. Further, surgical training camps together with INTERPLAST Germany as well as the strengthening of LAMU's internship- and scholarship-programme for international medical students and medical professionals will contribute to the hospital's educational agenda.



Testimonial from María Camila Montúfar Pantoja MD

L I traveled to Switzerland in December 2022 for one week to attend the International Committee of the Red Cross (ICRC) surgical seminar with the support of the Global Health Section. It was a fullweek seminar with international speakers and various topics on managing patients with war wounds, international humanitarian law, first aid, fracture fixation, ethics, and orthoplastics. It was a fantastic experience to get to know ICRC closer and to learn, exchange ideas, and meet fascinating people from all over the world with an incredible humanitarian capacity. It was terrific to attend because of my interest in reconstructive surgery in the war context and all the ideas that came to my mind to give people the opportunity and chance to access surgical services. We also went to a ballistic center where the experts showed us the bullet mechanisms and injuries. It was an interactive and straightforward way to demonstrate the enormous impact of wounds. All the assistants and speakers were friendly, kind, and well-prepared. I had the opportunity to learn from different experiences, viewpoints, and knowledge. These workshops reaffirm my motivation in these topics and encourage me to continue learning.



Global One Health

The One Health and Disease Prevention, Control working group is located at the Global Health Institute, led by Dr. Sandul Yasobant. The group researches and implements One Health strategies primarily in India & Ghana. One among other projects currently implemented in India is, One Health System Strengthening in India (OHSSIN), funded by GiZ & GLOHRA. The main aim of this project is to investigate the strengthening of the local One Health systems for preventing and controlling emerging threats and risks in three western Indian states, i.e., Gujarat, Maharashtra and Rajasthan. The first specific objective is to investigate, document and prioritise the emerging threats and risks at the human-animal interface. The second is to research possibilities for strengthening the capacity of the existing clinical and community health workforce for early detection of emerging threats and risks.







Different state-level one-day participatory workshops were organised to prioritise emerging and epidemic-prone diseases and risks in each state. The stakeholders from the various departments like health, animal husbandry, forest and environment were present and actively participated in the workshop. At the end of this workshop, each state's top ten risks and diseases were prioritised using a One Health Risk and Disease (OHRAD) prioritisation tool developed as part of this project.

In the project's second phase, capacity building of the existing One Health workforce is planned based on the state-specific prioritised risks and diseases. The training is ongoing in a phased manner for clinical and community workers in each state. The topics like the Basics of One Health, Risks for Emerging and Epidemic-Prone Diseases, Emerging and Epidemic-Prone Diseases from One Health Perspective and One Health competencies were discussed. The project intends to have an impact on the larger health system by developing the capacity of health workers to detect the risks at the interface of humans, animals, and their shared environment.

For more information about the working group, please visit the Website.

Testimonial from Dr. Sonal Mehta

Interning abroad was a great blessing; Section Global Health and ZEF have been one of the most rewarding experiences of my life both personally and professionally. Thinking back, I could not be more proud and surprised at what I have been able to accomplish in just 8 weeks. I did not have practical experience before. Therefore, this internship allowed me to get to know the work environment and work process. Intercultural communication is a vitally important part of the modern professional world which I have learnt there. This valuable and overwhelming learning has really pushed me from my comfort zone in the best possible way. And if you are thinking about interning here, do it! Just try! It has been one of the best decisions I have ever made!





Cancer STaging and early Referral for Treatment (Can-START) A Hospital Partnership between Marangu and Bonn

In 2022, the GIZ-funded Hospital Partnership between Marangu Lutheran Hospital and University Hospital Bonn commenced. It developed from the previous work of Dr. Oliver Henke in the Kilimanjaro Region of Tanzania.

The primary aim is to diagnose cancer in patients earlier and improve the overall basic staging at the district level hospital. Implemented comprehensively and conducted over a more extended time, the project will contribute to a decrease of late-stage presentations of cancer patients. Additionally, as more data is collected, it is hoped that the quality of the population-based regional cancer registry will be improved.

The project's kick-off was in March. It included a one-week basic training in oncology for medical and clinical officers and nurses. In November, further training occurred with a focus on ultrasound. The EFSUMB-certified course targeted clinical officers from Marangu Lutheran Hospital and Kilimanjaro Christian Medical Center, the tertiary hospital to which cancer patients would be referred. A virtual tumor board was founded to consolidate the training that has already occurred and to further "learn by doing". The Tanzanian partners present patient cases every two weeks, including ultrasound video loops. The (suspected) diagnosis and possible treatment options are discussed together with Dr. Oliver Henke, Dr. Michael Ludwig (Bundeswehrkrankenhaus Berlin), and Dr. Johannes Weimer (SonoForKlinik).





German-West African Centre for Global Health and Pandemic Prevention (G-WAC)





© DAAD/Stefan Zeitz From left to right: Daniel Opoku, Grietje Zimmermann, Patricia Korir, Wilm Quentin, Timo Falkenberg, Walter Bruchhausen, Eva Kuhn, Verena Struckmann, John Amuasi, Philip El-Duah

Global Centres Deutscher Akademischer Austauschdienst German Academic Exchange Service

In summer 2022, members of the G-WAC teams in Kumasi, Berlin and Bonn attended the conference of all DAAD Centers in Berlin. In her opening speech Federal Foreign Minister Annalena Baerbock stressed the importance of empowering people and transcending traditional diplomacy. G-WAC contributed by participating in a panel on One Health and chairing the panel "From Knowledge to Practice: Translating research

into policy and practice" including representatives of science, politics and diplomacy.

In autumn, a member institution of G-WAC, the Kumasi Center for Collaborative Research (KCCR) co-founded by the Bernhard Nocht Institute for Tropical Medicine (BNITM) in Hamburg, celebrated its 25th anniversary. The impressive celebrations in the Great Hall of the University, honoured by the solemn participation of the Ashante King with his court, Ghana president's advisor on health and the German Ambassador, fell into the days of the annual visit. Apart from the talks with the G-WAC partners and attending the G-WAC public lecture by Christian Drosten, the stay of Walter Bruchhausen also served the participation in the G-WAC Policy Dialogue. This event in Accra was jointly organized with the new WHO Hub on Epidemic and Pandemic Intelligence in Berlin. It gathered representatives from ministries of health and universities in West Africa and discussed, mostly with regard to the experiences from the COVID-19 pandemic, the topics related to the Hub's slogan "Better data, better analysis, better decisions". In addition, the opportunity was used for supervising the three Bonn PhD students currently doing their research in Ghana, Joannishka Dsani, Abraham Kidane and Gordon Dakuu.

In November 2022, the first Digital Symposium on Global Health was held across all DAAD Global Health Centres. It allowed postgraduate students and young researchers to present ongoing or planned research to a broader audience working on similar topics in different contexts, countries and continents. The overall symposium's keynote lecture was given by Prof. Dr. Walter Bruchhausen.



The academic year was concluded with a project retreat in Berlin. The G-WAC staff discussed leasens learned and ways forward for ongoing and future activities, spent an evening together on the Christmas market and deepend inter-institutional and interpersonal bonds.

As most G-WAC scholarship holders were in Germany around that time, the retreat was combined with a G-WAC internal colloquium. The Master and PhD students pitched first research results and jointly next steps were discussed.

Testimonial from Mark Asamani

I was fully funded by G-WAC for a short research stay at the Institute of Hygiene and Public Health at the University Hospital of Bonn (UKB). I arrived in Bonn on October 13th, 2022 and welcomed at the airport by Bryce Nembot, who was a fellow student and also my roommate for the first two weeks of my stay in Hennef, Germany. In early November, I later relocated to Bonn so it was easier to commute to UKB. From October 16th-17th, I attended the World Health Summit in Berlin. It was an enlightening event as we were exposed to a number of topical issues. We also had the opportunity to do a lot of networking and establish new contacts. On October 24th, my official work at the department started.



My supervisor, Prof. Walter Bruchhausen, reviewed my study proposal and then Eva Kuhn oversaw my research activities. Eva was very helpful in reviewing my research proposal, questionnaire, and chapters one and three. I was able to learn how to properly write a thesis because of this. During my stay, I also had an opportunity to obtain a certificate in Social Innovation that was funded by DAAD through G-WAC. Before the end of the research stay, I had an exit meeting with my supervisors during which I made known the challenges encountered during the period. On the whole, the Short Research Stay was very educative and exciting. I left for Ghana on the 30th December 2022. My gratitude goes to G-WAC and my supervisors at UKB, Prof. Walter Bruchhausen and Eva Kuhn for their professionalism.



International Paediatric Ultrasound Network

The International Paediatric Ultrasound Network (IPUN) sets out to train paediatric medical staff in the technical details of ultrasound techniques to support non-invasive diagnosis in paediatric patients.

The aims of the project include:

- Creating and delivering ultrasound courses at the partner sites. Our current partner sites include: Dhulikhel (Nepal), Zomba & Blantyre (Malawi), and Dodoma & Muhimbili (Tanzania)
- Securing equipment at each site for the purpose of training and subsequent routine diagnostic use at the institution.
- Performing research activities to establish documented reports to indicate the need for diagnostic techniques and success and caveats of methods to deliver such training modules.



In April, we had a hybrid kick-off meeting in Hamburg which marked the official start of the project. In May, the first of the courses were delivered at our partner sites in Malawi. Our annual hybrid meeting of the new Network took place in Dar es Salaam, Tanzania in October. Throughout the year, parallel to the training activities, research development and curriculum development are ongoing in response to the courses in an online format. Soon we will be able to deploy a first Master's student from UKB to perform part of the research activities.





EVENTS

Science Night

The 13th Bonn Science Night took place in May 2022, where Bonn city centre was converted into a "learning hub". It was organized by the City of Bonn in cooperation with the administrative districts Rhein-Sieg and Ahrweiler, as well as the University of Bonn. The Section Global Health contributed to the overall motto "nach(haltig)geforscht" (a mixture between 'sustainably researched' and 'investigated') with research-based input and hands-on exercises regarding practical and sustainable technologies in Global Health. Visitors had the chance to test eye examination technologies used in Global Child Health, become familiar with the Baobab fruit, and learn about its nutrients that make it an important fruit to improve nutrition in Kenya and beyond. Guests could also see how drinking water can be purified with simple techniques. Moreover, a video clip introduced them to 'nanopore sequencing' that is used in East Africa to diagnose lymphoma in children and teenagers.





50 Years Jubilee of AKME (Working Group Medical Development Cooperation)

Since two section members, Andreas Schultz and Walter Bruchhausen, have functioned as secretaries of AKME, and Bonn is the seat of several member institutions, the Section Global Health, with financial support from the German Agency for International Cooperation (GIZ), hosted the meeting to celebrate the 50th anniversary in Bonn.



AKME is the acronym for *Arbeitskreis Medizinische Entwicklungszusammenarbeit.* In 1972, this informal network was founded for half-yearly meetings between experts from governmental, non-governmental and academic organizations working in health-related development cooperation. For a more representative venue and atmosphere, the hall of the Collegium Albertinum Bonn on the banks of the river Rhine was chosen for the usual meeting with exchange on activities during the day and the official celebration in the evening.

At the beginning of the meeting, the representatives of more than a dozen organisations and several individual participants from all over Germany informed about the recent developments in their work and their individual careers. In short presentations, several GIZ staff gave insights into their current programmes, i.e., the hospital partnerships, Pandemic Prevention/One Health and Global Health, and induced many questions and debates. At an even more lively panel, members of three generations in international health work discussed the deep changes and current requirements of partnerships with the so-called Global South. A final round on the future of AKME confirmed the necessity of such exchange, but by opening it up to international partners with events in English and allowing for hybrid formats.

Embedded in live music by the Jazz Duo Pinn in the evening, Prof. Dr. Nico Mutters, Director of the Institute of Hygiene and Public Health and representing the University Hospital Bonn, emphasised the importance of cooperation between sectors and world regions for improving health. Dr. Christoph Benn, Director for Global Health Diplomacy at the Joep Lange Institute Lausanne, for NGOs, Dr. Ruth Schumacher, Director of the Global Programme on Pandemic Preparedness and One Health of GIZ, for governmental cooperation, and Prof. Dr. Walter Bruchhausen for the academic sector shared their experiences with and visions for AKME. Due to train delays from Berlin, the final contribution was made by Dirk Meyer, Director for Global Health, Economy, Trade and Rural Development in the German Ministry for Economic Development and Cooperation (BMZ). He explained the new Global Health policies of the federal government. He also stressed the importance of 'grassroot initiatives' such as AKME for inner-German discourses regarding the involvement of the Federal Republic in International and Global Health.





World Health Summit

Several associates and students from our section attended the World Health Summit that took place in Berlin over the course of three days from October 16th-18th. Over 100 nations were represented, with over 300 speakers, and 4,000 attendees on site. We got to hear from Tedros Adhanom Ghebreyesus (Director General of the WHO), Olaf Scholz (German Federal Chancellor), Karl Lauterbach (German Federal Minister of Health), and Ilona Kickbusch (Founding Director of the Global Health Center), amongst many other incredible and inspiring speakers. The conference covered many important topics, ranging from accelerating progress towards Universal Health Coverage (UHC), sustainable health for people and the planet, ending the COVID-19 pandemic through equitable access to tests, treatments and vaccines, as well as harnessing the power of digital technologies for Global Health.



From left to right: Gmanyami Jonathan Mawutor, Gyesi Razak Issahaku, Nembot Fogang Brice Armel, Aku Fortress Yayra, Dr. John Amuasi, Agyei George, Tannor Koranteng Elliot

GLOHRA

As Prof. Dr. Walter Bruchhausen is assigned special responsibility for the <u>GLOHRA Academy</u>, the Academy Coordinator of GLOHRA (the German Alliance for Global Health Research) is also located at the Section Global Health. In this role, Dr. Esther Evang organized eight online-lectures in 2022, the so called Academy Series. Topics ranged from climate neutrality to mosquito mobilities, from antimicrobial resistance to health workforce research. Around 300 early career researchers attended the series in 2022.

Together with 18 early career researchers from universities all over Germany, the two responsibles for the Academy saw health-related institutions and experts, ranging from WHO to university institutes, on the <u>GLOHRA Academy Field Trip</u> to Geneva in September 2022.





WORKSHOPS & CONFERENCES

Prof. Dr. Walter Bruchhausen

- German-West African Centre for Global Health and Pandemic Prevention (G-WAC) *Presentation to the Round Table Africa, Bonn University, 13.1.2022*
- Menschen, Viren, Fledermäuse One Health in Westafrika [Humans, Viruses, Bats One Health in West Africa] *Scientific Colloquium, Institute for the History, Theory and Ethics of Medicin, RWTH Aachen University Hospital, 18.1.2022 (online)*
- Frauengesundheit, Kultur und Ethik Anthropologische, ethnomedizinische und sozialethische Aspekte in Global Health [Women's Health, Culture, and Ethics -Anthropological, ethno-medial and socio-etehical Aspects in Global Health] — Workshop "Frauengesundheit in Afrika", Bruchsal, 4.2.2022
- Soziale Dimensionen einer gesundheitlichen Krise [Social Dimensions of a Health Crisis] *Keynote Lecture der Abschlusstagung sozialwissenschaftlicher Forschungsprojekte zu Covid-19, Dr. Hans Riegel Stiftung und Kaiserschild Stiftung, Bonn, 22.1.2022 (online)*
- Pandemieprävention in Ghana [Pandemic Prevention in Ghana] 24. Symposium Reisemedizin, Impfschutz, International Health, Global Health, Bonn, 19.2.2022 (online)
- Gemeinwohl und Gerechtigkeit: Zur praktischen Relevanz normativer Grundlagenbegriffe in Global Health [Common good and justice: On the practical relevance of normative principles in Global Health], Conference "Global Health Ethics: Neue Herausforderungen in einer vernetzten Welt. Ein Problemaufriss am Beispiel der internationalen Arzneimittelversorgung", Zentrum für Gesundheitsethik (ZfG) in Kooperation mit dem Deutschen Netzwerk Wirtschaftsethik (DNWE), 23.02.2022 (online)
- German Engagement for Global Health in the Context of Global Cooperation, *The Mission of the Church in the Era of Global Public Health Institut für Kirche und Weltmission, Frankfurt Sankt Georgen, 31.3.2022 (online)*
- Auswirkungen der Corona-Pandemie auf Global Health und Gesundheitssysteme [Effects of the Corona-pandemic on Global Health and Health Systems] *Seminar "Die Welt zwei Jahre nach Ausbruch der weltweiten Pandemie Kommt es zu einer Veränderung der Weltordnung?"*, *Friedrich Ebert-Stiftung, Bonn, 28.4.2022*
- Global Health zwischen Interessenspolitik und humanitärem Engagement [Global Health between interest-driven politics and humanitarian commitment] *Initiativseminar "Global Health Wie kann Entwicklungspolitik nachhaltig gestaltet werden?", Konrad-Adenauer-Stiftung, Bonn, 7.5.2022*
- Surgical Care Inequity *Global Surgery Day 2022 "Global Surgery Ethics", DTC, 25.5.2022 (online)*
- Colonialism, Development and Global Health Young GTP Workshop Postcolonial 'Development' Policies, German Society of Tropical Paediatrics and International Child Health (GTP), Basel, 27.5.2022
- Discussant Panel "Gesundheit als ein Menschenrecht. Welche Lehren für die globale Gesundheitspolitik müssen wir aus der Pandemie ziehen?" [Health as a Human Right. What lessons for global health politics do we have to learn from the pandemic?] — 102. Deutscher Katholikentag, Stuttgart, 28.5.2022
- Aktuelle Herausforderungen der Medizin: Neue Infektionen und Antibiotika-Resistenzen [Current Challenges in Medicine: New Infections and Antibiotic Resistances] *Stipendiat*innen-Treffen der Dr. Hans Riegel-Stiftung, Witten, 17.6.2022 (noon)*



- Health and Religion. Questioning common views Keynote at the International Meeting on Comparative Theology "Religion and Health", Universität Paderborn, 17.6.2022 (evening)
- Unequal Standards in Surgical Care An Ethical Challenge Conference on Tropical Medicine and Global Health, DTG, Rostock, 24.6.2022
- Medizin in der deutschen Kolonialgeschichte [Medicine in the German Colonial History] *Auffrischkurs Aktuelle Tropenmedizin, Bernhard-Nocht-Institut für Tropenmedizin, Hamburg,* 3.7.2022 (online)
- Entwicklung und Global Health [Development and Global Health] Ferienakademie "Das Ende der Armut? Eine globale Perspektive" des Cusanuswerks, Franz-Hitze-Haus Münster, 1.8.2022
- Wer bekommt wieviel und wieso? Die Ethik der globalen Vakzinallokation [Who does get how much and why? Ethics of Global Vaccine Allocation] *How to vaccinate the world? Globaler Zugang zu Medikamenten, Friedrich Naumann-Stiftung, Gummersbach, 19.9.2022*
- Seuchen zwischen Wissenschafts- und Gesundheitsgeschichte: Von Hoffnungen und Schwierigkeiten biosozial integrativer Perspektiven [Plagues between Science and Health History: about hopes and difficulties of bio-social integrative perspectives] — *Herbsttagung des Leopoldina-Zentrums für Wissenschaftsforschung "Global, vernetzt und integrativ? Perspektiven für die Seuchengeschichte", Halle, 30.9.2022*
- Chair "Community partnerships in global health research" *GLOHRA Day, Kosmos Berlin,* 15.10.2021
- Religious communities as stakeholders in health care and infrastructure challenges *Side Event "Lessons from the Pandemic. The Perspective of Religious Communities as Stakeholders in Global Health", World Health Summit, Berlin, 17.10.2022*
- Krankheit, Armut und Hunger in globaler Perspektive [Disease, Poverty and Hunger in a Global Perspective] Panel "Corona, Kriege, Klimakrise. Folgen für die weltweite Hunger- und Armutsbekämpfung", Evangelische Akademie Frankfurt, 18.10.2022
- Global Health at Bonn University *Georgia Days of Bonn University, Museum König, Bonn,* 28.10.2022
- Ambiguitätsreduktion in Global Health: Konzepte von Gesundheit und dem Recht darauf [Reduction of Ambiguity in Global Health: Concepts of Health and the Right to Health] *Colloquium Ambiguität, Schlegel Chair in Systematic Theology, Bonn University, 10.11.2022*
- One Health as Research Priority: Revisiting Common Perceptions, One Health Research Symposium One Health Day, Center for Development Research, Bonn, 3.11.2022 (online)

Eva Kuhn

- Ethics in Global Surgery Conference on Tropical Medicine and Global Health (CTM), Rostock, 23.-25.6.2022
- Silent Triage in Low-Resource Settings An Ethically Informed Guidance for Health Policy Measures Oxford Global Health & Bioethics International Conference, Oxford, 27.-28.6. 2022
- Corporate Social Responsibility (CSR) und Betriebliches Gesundheitsmanagement (BGM). Synergien erkennen und nutzen [Corporate Social Responsibility and Occupational Health Management. Identify and Use Synergies] — *iga.Expertendialog 2022, Berlin, 24.-25.8.2022*
- Ethik in der digitalen Medizin [Ethics in Digital Medicine] *Symposium "Digitale Medizin" am Universitätsklinikum Bonn, 25.10.2022*
- Digital Mental Health: A real opportunity for healthcare or technology-driven solutionism? Online-Workshop, 14.-16.11.2022 (main workshop organiser)
- Global Digital Mental Health ethische Implikationen [Global Digital Mental Health ethical implications] *DGPPN Kongress 2022, Berlin, 23.-26.11.2022*



- Moralischer Stress als unterschätzter Belastungsfaktor im Medizinstudium zur Notwendigkeit adaptierter Interventionen [Moral Stress as Undererstimated Stress Factor in Medical Studies - About the Necessity of Adapted Interventions] — DGPPN Kongress 2022, Berlin, 23.-26.11.2022
- Klima und Gesundheit große Worte, hoher Aufwand? [Climate and Health Big Words, High Effort?] *Netzwerktreffen der Betriebskrankenkassen, online, 29.11.2022*

Dr. Oliver Henke

- Ambulante Palliativversorgung in Afrika [Outpatient Palliative Care in Africa] *Plenarrede 35. Deutscher Krebskongress, Berlin*
- Workshop "Cancer Care in LMIC" 1st International Hospital Partnership Conference, GIZ, Berlin
- Chronic Myeloid Leukemia in Africa do we need an African prognosis score? *African Cancer Registry Network Meeting, Moshi, Tansania*

Dr. Andreas Schultz

- Diskussionsrunde Charité GIZ Kooperationsauftaktveranstaltung, 20.01.2022
- Ultraschallkartierung des Gehirns bei Neugeborenen [Ultrasound Mapping of the Newborn's Brain] *IPUN Malawi, 6.-8.6.2022*
- Neugeborenen-Echokardiographie [Newborn Echocardiography] *IPUN Malawi*, 5.-10.6.2022
- Zu viele Kinder, zu viele Todesfälle der falsche Fokus? [Too many children, too many deaths the wrong focus?] *Update Symposium, foring Forum für internationale Gesundheit*
- Was braucht es, damit One Health ein Motor für nachhaltige Entwicklung wird? [What does it need for One Health to become a Motor of Sustainable Development?] *GIZ Zukunftsforum 2022, 08.09.2022*

Dr. Timo Falkenberg

- Role of Digitalization and AI in supporting health related SDGs *Digitainable Spring School,* 8.3.2022
- One Health, Global Health, Planetary Health disentangling terminologies and pinpointing the role of Medical Geography *International Medical Geography Symposium*, 21.6.2022
- Panelist: Collaborations under the One Health approach for guiding urban health resilience — International Society for Urban Health Conference, 26.10.2022
- Planetary Health Sustainability of the Health Sector *Advanced Training, Eye Clinic UKB,* 22.11.2022



PUBLICATIONS

Bruchhausen W. (2022). Gesundheit und Heilung in Afrika. *afrika süd-dossier: Glaube und Religion, 5,* 38-40.

Bruchhausen W. (2022). Schmerz und Leid in kultureller Differenz. Eine anthropologische Perspektive, In Erzbistum Paderborn (ed.), Ärztetag 2021. *Vom Einfluss der Kulturen und Religionen auf den Umgang mit Schmerz und Leid* (pp. 17-23). https://www.erzbistum-paderborn.de/wp-content/uploads/sites/6/2022/07/Dokumentation-Aerztetag-2021.pdf

Bruchhausen, W., & Kuhn, E. (2022). Das Menschenrecht auf Gesundheit, seine inhaltliche Einbettung und institutionelle Absicherung. *Zeitschrift für medizinische Ethik, 68*(3), 279–290. https://doi.org/10.14623/zfme.2022.3.279-290

Brückner, A., **Falkenberg, T.**, Heinzel, C., & Kistemann, T. (2022). The regeneration of urban blue spaces: A public health intervention? Reviewing the evidence. *Frontiers in Public Health, 9,* 782101. https://doi.org/10.3389/fpubh.2021.782101

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Falkenberg, T., Paris, J. M. G., Patel, K., Arredondo, A. M. P., Schmiege, D., & Yasobant, S. (2022). Operationalizing the One Health approach in a context of urban transformations. In F. W. Gatzweiler (ed.), *Urban health and wellbeing programme* (pp. 95-102). Springer Nature.

Foellmer, J., Liboiron, M., **Rechenburg, A.**, & Kistemann, T. (2022). *How do the cultural contexts of waste practices affect health and well-being?* World Health Organization Regional Office for Europe. https://apps.who.int/iris/handle/10665/354695.

Henke, O. (2022). Globale Onkologie. *Forum, 37*(5), 391–396. https://doi.org/10.1007/s12312-022-01104-5

Henke, O., Bruchhausen, W., & Massawe, A. (2022). Use of herbal medicine is associated with late-stage presentation in Tanzanian patients with cancer: A survey to assess the utilization of and reasons for the use of herbal medicine. *JCO Global Oncology, 8,* e2200069. https://doi.org/10.1200/GO.22.00069

Kaiser, M., **Kuhn, E.**, Poppe, C., & Voß, H. (2022). Blurring boundaries at the end of life in home care: A look at Germany, Switzerland and the United Kingdom in the light of care ethics. In A. H. Seidlein & S. Salloch (eds.), *Ethical challenges for healthcare practices at the end of life: Interdisciplinary perspectives* (pp. 137–161). Springer International Publishing. https://doi.org/10.1007/978-3-030-83186-8_9

Krisam, M., & **Kuhn, E.** (2022). Das AEIOU-Modell: Gesundheitsverhalten mit Erkenntnissen der Verhaltenswissenschaften effektiv in der Praxis steuern. *Das Gesundheitswesen, 84*(6), 547–553. https://doi.org/10.1055/a-1630-6676



Kuhn, E. (2022). Why me? – The concept of physicians' spiritual self-care: A contribution to professional and organisational ethics. In A.H. Seidlein & S. Salloch (eds.), *Ethical challenges for healthcare practices at the end of life: Interdisciplinary perspectives* (pp. 55–72). Springer International Publishing. https://doi.org/10.1007/978-3-030-83186-8_4

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Kuhn, E., & Seidlein, A. H. (2022). Ethical harms for migrant 24h caregivers in home care arrangements. *Nursing Ethics*. https://doi.org/10.1177/09697330221122903

Letah Nzouebet, W. A., Soh Kengne, E., **Rechenburg, A.**, Nana Ndangang, J. J., & Kengne Noumsi, I. M. (2022). Fecal sludge treatment in a pilot-scale vertical-flow constructed wetland for the removal of helminth eggs. *Journal of Water, Sanitation and Hygiene for Development, 12*(9), 634–646. https://doi.org/10.2166/washdev.2022.090

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Nana, A. S., **Falkenberg, T., Rechenburg, A.**, Adong, A., Ayo, A., Nbendah, P., & Borgemeister, C. (2022). Farming practices and disease prevalence among urban lowland farmers in Cameroon, Central Africa". *Agriculture, 12*(2), Article 2. https://doi.org/10.3390/agriculture12020230

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Paris, J. M. G., **Falkenberg, T.**, Nöthlings, U., Heinzel, C., Borgemeister, C., & Escobar, N. (2022). Changing dietary patterns is necessary to improve the sustainability of Western diets from a One Health perspective. *Science of The Total Environment, 811,* 151437. https://doi.org/10.1016/j.scitotenv.2021.151437

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Schmiege, D., **Falkenberg, T.**, Moebus, S., Kistemann, T., & Evers, M. (2022). Associations between socio-spatially different urban areas and knowledge, attitudes, practices and antibiotic use: A cross-sectional study in the Ruhr Metropolis, Germany. *PLoS ONE, 17*(3), e0265204. https://doi.org/10.1371/journal.pone.0265204



EXPERT & REVIEW ACTIVITIES

Prof. Dr. med. Walter Bruchhausen

- Institutional Review Board [Ethikkommission] of the Medical Faculty, University of Bonn
- Clinical Ethical Committee of Bonn University Hospital (Vice-Chair)
- Steering Committee and Co-Speaker of the German Alliance for Global Health Research (GLOHRA)
- Steering Committee and Director for the Bonn site of G-WAC/German-West African Center for Global Health and Pandemic Preparedness
- AKME/Working Group Medical Development Cooperation (Secretary)
- Jury for the One Health Award, German-French University, awarded in Lyon, 13.10.2022
- Advisory Board Medical History
- Advisory Board Bonn University Press (BUP)
- Nutrition and Health, Transdisciplinary Research Area 6 "Sustainable Futures" of Bonn University (Theme Coordinator)

Eva Kuhn

- Institutional Review Board [Ethikkommission] of the Medical Faculty, University of Bonn
- Steering Committee Member of the German Alliance for Global Health Research (GLOHRA)
- Member of the Jury for the "Wittener Preis für Gesundheitsvisionäre 2022" [Witten Award for Health Visionaries 2022]

Dr. Andreas Schultz

- Senior Advisor Deutsche Gesellschaft für internationale Zusammenarbeit
- Advisor Global Health foring Forum für internationale Gesundheit

Dr. Timo Falkenberg

- Bonn Allianz Focal Point
- Community Leader Global Urban Health (Global Health Hub Germany)
- Spokesperson of the Working Group on Medical Geography and Geographical Health Research



AWARDS

Eva Kuhn was awarded the Nachwuchspreis Ethik in der Medizin [Young Investigator Award for Ethics in Medicine] by the Akademie für Ethik in der Medizin (AEM) together with her co-authors Mirjam Faissner, Regina Müller, and Sebastian Laacke. The award-winning scientific contribution is entitled "Detecting your depression with your smartphone? Considerations of epistemic injustice". The award is endowed with 2.500€.



From left to right: Mirjam Faissner, Regina Müller, Eva Kuhn & Sebastian Laacke



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