

Elective modules M24

Please indicate which elective module you would like to submit a proposal:

Module 24

Title	Charité Berlin and University of Nairobi: GLOBAL HEALTH ELECTIVE
Institution(s) involved	<p>Institute for General Medicine CCM Institute of Medical Sociology and Rehabilitation Science CCM Charité – Universitätsmedizin Berlin Charitéplatz 1, 10117 Berlin, Germany</p> <p>Department of Pathology Kenyatta National Hospital, University of Nairobi P. O. Box 19676-00202, Kenyatta National Hospital Nairobi, Kenya</p>
Contact person	<p>Coordination</p> <p>Dr. Angela Schuster, MD, MSc angela.schuster@charite.de</p> <p>Dr. Andrea Budnick andrea.budnick@charite.de</p> <p>Dr. Peter Maturi pmmwamba@yahoo.com dept-hpathology@uonbi.ac.ke</p> <p>Secretariats</p> <p>Institute of General Medicine: Mrs. Anke Krause, Mrs. Anja Paulsen-Stock, Mrs. Gisela Schneider Tel.: 0049 – 30 – 450 514 082, -114, -092</p> <p>Institute of Medical Sociology and Rehabilitation Science: Mrs. Christine Jobsky Tel.: 0049 – 30 – 450 529 172</p> <p>Department of Pathology Kenyatta National Hospital, University of Nairobi: Chairman's office Tel.: 00254 – 204915048</p>

	<p>Head of Departments</p> <p>Prof. Dr. Christoph Heintze M.A., MPH christoph.heintze@charite.de Institute for General Practice</p> <p>Prof. Dr. Adelheid Kuhlmeiy adelheid.kuhlmeiy@charite.de Institute of Medical Sociology and Rehabilitation Science</p> <p>Dr. Peter Maturi Mwamba, MBChB, Mmed pmmwamba@yahoo.com; dept-hpathology@uonbi.ac.ke Department of Pathology</p> <p>Associated Institutions</p> <p>Prof. Dr. med. Dr. phil. Andreas Heinz, patron of the Berlin – Nairobi Global HEART program</p> <p>Prof. Dr. Shuyan Liu, professorship in Global Mental Health (Charité – China Focus) Department of Psychiatry and Psychotherapy (CCM)</p> <p>Dr. med. Andreas Kopf, Senior Physician Department of Anesthesiology and Intensive Care Medicine (CBF), Co-Coordinator Berlin – Nairobi Global HEART program</p> <p>Prof. Joyce M. Olenya, Director School of Public Health, University of Nairobi</p> <p>Dr. Diana Marangu Department of Paediatrics and Child Health, University of Nairobi</p>
Lessons à 45 min (total)	M24 (60 TU)
Description of the module (incl. learning spiral and prerequisite knowledge)	<p>1. Aim and content of the elective module.</p> <p>The advancing climate change and the global responses to the COVID-19 pandemic clearly show that joint international efforts to tackle global crises are still insufficient. This module focuses on concepts, challenges and solution strategies for global health. Global health experts from Kenya and Germany share their knowledge with students.</p> <p>In this elective module, students will gain insights into the complexity and multidimensionality of global health issues. In addition, numerous methods (quantitative methods and qualitative methods of</p>

empirical social research) to research of relevant questions in global health will be taught and applied.

Next generation doctors are confronted with new global challenges: both disease causes and ethical issues require an increasingly international perspective. Innovative research approaches can provide a valuable contribution here and support the next generation doctors in their role as *changemakers* to enhance social transformation processes.

The joint conception and implementation of the elective with lecturers at Charité – Universitätsmedizin Berlin in Germany and at University of Nairobi, Medical School in Kenya enables an exchange on current global health issues as well as a critical reflection on colonial continuities and approaches to restructure resources and power relations.

The module aims to promote exchange between students from both faculties, to support individual career planning and to facilitate professional and personal contacts. Different teaching formats, such as seminars, case discussions, practical trainings, experience-based learning, and peer-teaching, are provided. To reflect the complexity and breadth of global health, exchange with global health experts in Kenya and Germany will be provided. Moreover, students with non-medical backgrounds (Berlin University Alliance students) will be invited to participate in the elective, share their experiences and join in the discussion.

2. Structure and content of the elective module

2.1 Thematic focus

In each week we will focus one main topic. In the first week, the basics of different health systems will be taught. With the example of German and Kenya, the Bismarck and Beveridge health system, will be compared. Primary health care approaches from both countries will be discussed. The concept of “Health in All Policies” will be explained with a problem based learning case taking India as an example.

After an introduction to the concept and scope of non-communicable diseases, the course during the second week will be focused on the health impact of demographic change as well as on mental health challenges, global oncology, and on the interactions between infectious and non-transmittable diseases. The third week concludes with the topic of planetary health with a focus on the health effects of climate change its effects on clinical practice and scope of action in the current climate crisis.

The module thus ties in with courses from the German curriculum for medical students including modules 6, 7, 23 as well as “Communication, Interaction, Teamwork”, “Problem-based Learning”, and “Fundamentals of Medical Thoughts and Action” and

deepens the contents of the lecture "Charité goes Global". Research methods and approaches as well as ethical challenges in global health are discussed across topics.

Cooperation partner at UoN: please complete regarding the curriculum for medical students in Nairobi.

TU = teaching unit

Thematic foci (24 TU)

Health Systems (8 TU)

- Interactive learning: Typologies of health systems - Explain "your" health system (Angela Schuster) - 2 TU
- Interactive learning: Problem Based Learning: Case Health in all policies (Angela Schuster) Session 1 and 2 - 4 TU
- Primary Health Care: new perspectives and ideas (N.N.) - 2 TU

Demographic change and non-communicable diseases (10 TU)

- NCDs: what we should know about them! (N.N.) - 2 TU
- Global demographic change: forecasts, trends, challenges (Andrea Budnick) - 2 TU
- Global Oncology (Peter Maturi) - 2 TU
- Global Mental Health (Shuyan Liu & Prof. Mathai) - 2 TU
- Convergence of communicable and non-communicable disease: examples from respiratory medicine in Kenya (Diana Marangu, University of Nairobi) – 2 TU

Planetary Health (6 TU)

- Climate crisis, anthropogenic environments and planetary boundaries - 2 TU (possible speakers - Sabine Gabrisch or Prof. Nzioka Muthama; Dr. Bethwel Kipkoech)
- Clinical planetary health – Second-hand smoke in Africa: Health risks and early life exposure. - 2 TU (Prof Aneesa Vanker, University of Cape Town, contact via Diana)
- Interactive learning: Report form NGO in Kenya: Planetary Health Case studies (possible Speakers via Planetary Health Hub East Africa Melvine Otineno- University of Eldoret) - 2 TU

Cross-sectional foci: (24 TU)

Global Health Research Methods (8 TU)

- Introduction to Health impact assessment (Daniel Opoku, TU Berlin & Dr. Anne Njoroge, University of Nairobi) - 2 TU
- Qualitative Research and Community action research (Luis Aue, WZB & Prof. Pamela Godia (?) or Dr. Oliwa - 2 TU
- Introduction into Problem-Tree-Analysis (N.N.) - 2 TU
- Inter- and transdisciplinary research: from evidence to policy (Prof. Ruth Nduati - Binom Charité) - 2 TU

Ethics in Global Health (10 TU)

- Pandemic preparedness and vaccine equity (Eunice Kamaara and Andreas Kopf(?)) - 2 TU
- Workforce challenges and migration: different perspectives on the same issue? (Remco van de Pas, or Julia Black, IOM or Sylvia Agbih, Uni Bielefeld Kenyan Binom oder Ayra Neil?) - 2 TU
- Racism, Colonial continuities and power dynamics in Global Health (Pascal Grosse - Binom Kenyan Partner) - 2 TU
- Interactive learning: Transcultural training (Grimm, Schuster and Prof. Pamela Godia or Diana) - (4 TU)

Peer learning formats (6 TU)

- World café with student projects and experiences in Global Health - 2 TU
- Interactive learning: Digital meeting with WHO experts (N. N. perhaps National program leader in both countries) - 2 TU
- Career pathways with young experts in Global Health (N. N. considering Dr. Walong – Human Pathologist with Global Health experience) - 2 TU or Dean in Dental and Maxillofacial Surgery?

2.1 Weekly structure - and contents

The following weekly structure is intended for the thematic foci, whereby the topics Global Health Research Methods and Ethics in Global Health are taught across the course and peer learning formats are continuously thought. In the first week we will introduce to the health systems of the countries involved in the module, Kenya and Germany, in an interactive teaching format. In addition to imparting the basics of Bismarck and Beveridge systems, students from both countries have the opportunity to explain their health systems, name special features, discuss advantages and disadvantages and exchange experiences from their perspective. In addition, in the first week the students get to know the concept of “Health in all policies”, to better understand the effects of political decisions on health and health systems, to avoid negative effects and to improve health equality. In particular, primary health care (PHC) is discussed and the importance of public health as well. In the second week, the students form international working groups, i.e. each group consists of 4-6 students from Kenya and Germany who work on a global health topic together. In addition, the students receive further wide-ranging input on (non-)communicable diseases, demographic change, oncology, and mental health. In the third week, the topics of planetary health and career paths in global health will be addressed and the project work will be finalized and presented together with handouts.

2.2 Lesson format structure - and content

Teaching in larger groups (e.g. seminars, panel discussion, digital meetups, Presentation of group work results) - 40 TU

- Primary health care: New perspectives and ideas - 2 TU
- NCDs: what we should know about them! - 2 TU
- Global demographic change: Forecasts, trends, challenges - 2 TU
- Global oncology - 2 TU
- Global mental health - 2 TU
- Convergence of communicable and non-communicable disease: examples from respiratory medicine in Kenya - 2 TU
- Climate crisis, anthropogenic environments and planetary boundaries - 2 TU
- Clinical planetary health - human made climate crisis and health - 2 TU
- Report from NGO in Kenya: Planetary health case studies - 2 TU
- Introduction to health impact assessment (Daniel Opoku, TU Berlin) 2 TU
- Introduction into Problem-Tree-Analysis (N.N.) - 2 TU
- Qualitative research and community action research (Luis Aue, WZB) 2 TU
- Inter- and transdisciplinary research: From evidence to policy (N.N.) 2 TU
- Pandemic preparedness and vaccine equity - 2 TU
- Workforce challenges and migration: different perspectives on the same issue? - 2 TU
- Racism, colonial continuities and power dynamics in global health - 2 TU
- Interactive learning: Digital meeting with WHO experts (2 TU)
- Peer learning: Career pathways with young experts in global health (2 TU)
- Peer learning: Final presentation of the topic of choice (4 TU)

Classes in small groups or independent learning (4-6 students per group) – 20 TU

- Interactive learning: Typologies of health systems - Explain "your" health system (Angela Schuster, Andrea Budnick) - 2 TU
- Interactive Learning: Problem Based Learning: Case Health in all policies Session 1 and 2 with movie (Angela Schuster) - 4 TU
- Interview with stakeholders (real live experts) in Berlin and Nairobi to deepen the practical relevance of the project work based on a systematic observation protocol. - 4 TU

- Deepening of a relevant topic in the field of Global Health of one's own choice including analysis with problem-tree method, preparation of final presentation - 4 TU
- Peer learning - world café with student projects and experiences in Global Health - 2 TU
- Interactive learning: Transcultural training - 4 TU

Learning spiral

M6 - Man and Society and events from it:

(LE) Structures of the German Health Care System

(LE) Social security system with special consideration of health insurance

(SE) Structural characteristics and financing of the health system

(LE) Medicine and Responsibility: Climate Change

(SE) Prevent or fight. Dealing with cholera in the 19th century

(LE) Care for migrants

(LE) Harmful influences in child development

(LE) Basics of the development and care of obesity

(LE) Childhood obesity

(SE) Demographic change and its consequences

(SE) Medical action in a social context: the doctor-patient relationship

(LE) Stress theory with special consideration of norms, sexuality and the development of stress-associated diseases

GÄDH - Fundamentals of Medical Thinking and Action

Module-supporting lectures "Charité Goes Global"

Module 7 - Scientific Work I

Module 23 - Scientific work II: Preparation of a term paper
(selected students of the Charité Berlin prepare the term paper in an online exchange with students from the University of Nairobi,)

KIT Communication Interaction Teamwork (e.g. Intercultural Aspects in Doctor-Patient Communication)

POL Problem-based learning

	<p>4. Prerequisite knowledge and skills</p> <ul style="list-style-type: none"> • Basic interest in topics of global health and health systems, as well as interest in ethical issues • Communication and teamwork skills • Interest in intercultural and interdisciplinary exchange, as well as in networking • English min. B1 or equivalent • Tolerance and understanding towards marginalized population groups • Fundamentals of scientific thinking and acting <p>5. Teaching on/with patients</p> <p>Patient contact: no</p>
Timetable	<ul style="list-style-type: none"> • See appendix
Overarching learning objective / Overarching learning objectives	<p>To prepare students for challenges in the field of global health that may influence their future medical practice and their work in a globalized world.</p>
<p>Fine learning goals</p> <p>(fine learning objectives can be added, but this is not obligatory)</p>	<p>Students should...</p> <ul style="list-style-type: none"> • Be able to name and explain basic concepts of global health and primary health care • Be able to critically question challenges in Global Health and make references to their own everyday life. • Be able to name and discuss the opportunities and challenges of NTDs globally and locally. • Develop exemplary approaches to solving global problems in the local and global context within the framework of a project work. • Understand the principles of Global Health research methods
Exam format	<p>Presentation and hand-out in small groups of up to 4-6 students (2-3 students from Berlin, 2-3 from Nairobi) - 12 TU</p> <p>Experience-based learning based on an in-depth topic of own choice.</p> <ul style="list-style-type: none"> • Desktop analysis and interview with stakeholders (real life experts) from Kenya and Germany to deepen the practical relevance of the project work based on a systematic observation protocol - 4 TU • Problem-tree-analysis and preparation of presentation and hand-out - 4 TU • Peer learning: Final presentation of the topic of choice - 4 TU
Other	<p>The elective course takes place in cooperation between the Charité – Universitätsmedizin Berlin, Germany and the University of Nairobi - School of Medicine, Kenya. It is jointly developed between researchers and teaching personnel of all faculties involved in the Global Heart – program (sponsored by DAAD). The elective will be anchored in the curriculum at the Charité and at the UoN. It will also be open to all other students. Each year three students from each university have the opportunity to carry out a scientific work at the partner university.</p>

Week 1 (Semester week 13)	Monday	Tuesday	Wednesday	Thursday	Friday
Room (online)					
	Mon 11.07.	Tue 12.07.	Wed 13.07.	Thur 14.07.	Fri 15.07.
13:00-14:30	Getting to know each other and Interactive learning: Typologies of health systems - Explain "your" health system <i>Angela Schuster & Andrea Budnick</i>	Global demographic change: forecasts, trends, challenges <i>Andrea Budnick</i>	Pandemic preparedness and vaccine equity <i>(N.N.)</i>	Workforce challenges and migration: different perspectives on the same issue? <i>(N.N.)</i>	Deepening of a relevant topic in the field of Global Health of one's own choice. (Connection to analysis with the problem-tree method, preparation of final presentation) <i>(N.N.)</i>
Break					
15:00-16:30	Interactive learning Problem Based Learning Part 1 <i>Angela Schuster</i>	Qualitative research and Community action research <i>(N.N.)</i>	Introduction to health impact assessment <i>(N.N.)</i>	Introduction into Problem-Tree-Analysis <i>(N.N.)</i>	
Lunch break					
17:00-18:30	<i>Preparation Time PBL case (N.N.)</i>	<i>Preparation Time PBL case</i>	<i>Preparation Time PBL case</i>		<i>Preparation time for group projects</i>
Week 2 (Semester week 14)	Mon 18.07.	Tue 19.07.	Wed 20.07.	Thur 21.07.	Fri 22.07.
Room (online)					
13:00-14:30	Interactive learning Problem Based Learning Part 2 <i>Angela Schuster</i>	Primary Health Care: new perspectives and ideas <i>(N.N.)</i>	Global Oncology <i>Dr. Peter Maturi Mwamba Angela Schuster</i>	Racism, Colonial continuities and power dynamics in Global Health <i>(N.N.)</i>	Interview with stakeholders (real live experts) in Berlin and Nairobi to deepen the practical relevance of the project work (based on a systematic observation protocol) <i>(N.N.)</i>
Break					
15:00-16:30	NCDs: what we should know about them! <i>(N.N.)</i>	Global Mental Health (Prof. Shuyan Lui & Prof Mathai)	Convergence of communicable and non-communicable disease: examples from respiratory medicine in Kenya <i>(N.N.)</i>	Transcultural training (optional) <i>Franziska Grimm (ChIC) & Angela Schuster</i>	
Lunch break					
17:00-18:30	World café with student projects and experiences in Global Health <i>(N.N.)</i>		Digital meeting with WHO experts <i>(N.N.)</i>		<i>Preparation time for group projects</i>
Week 3 (Semester week 15)	Mon 25.07.	Tue 26.07.	Wed 27.07.	Thur 28.07.	Fri 29.07.
Room (online)					
13:00-14:30	Climate crisis, anthropogenic environments and planetary boundaries <i>(N.N.)</i>	Clinical planetary health – Second-hand smoke in Africa: Health risks and early life exposure <i>(N.N.)</i>	<i>Preparation time for group projects</i>	Interactive learning: Presentation of projects	free
Break					
15:00-16:30	Interactive learning: Report form NGO in Kenya: Planetary Health Case studies <i>(N.N.)</i>	Inter- and transdisciplinary research: from evidence to policy <i>(N.N.)</i>			
Lunch break					
17:00-18:30	Interactive learning Career pathways in global health <i>(N.N.)</i>	<i>Preparation time for group projects</i>		Evaluation and get together	