

# Master of Science in Global Urban Health



**UNI  
FREIBURG**

## **Module Handbook**

2017/2018

### **University of Freiburg**

Prof. Dr. Sabine Dabringhaus

Philosophical Faculty

Werthmannstr. 8 (Rückgebäude), 79085 Freiburg

In cooperation with

### **Centre for Medicine and Society (ZMG)**

Prof. Dr. Ursula Wittwer- Backofen

Medical Faculty

Hebelstr. 29, 79104 Freiburg

in collaboration with

**Other Faculties at the University of Freiburg and Partner Universities in Freiburg:**

**Freiburg Protestant University of Applied Sciences**

**Catholic University of Applied Sciences Freiburg**

**Freiburg University of Education**



## Master of Science in Global Urban Health

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# 1. Programme

## 1.1 Purpose and characteristics of the MSc Global Urban Health

The following module handbook holds for the postgraduate programme Master in Global Urban Health (MSc GUH) at the University of Freiburg, Germany. After successful completion of this Master's programme the academic degree Master of Science (abbreviated MSc) is awarded. The internationally oriented, English-language Master's programme offers students a broad interdisciplinary training in the field of urban health. It is designed as an intensive, full-time postgraduate programme and has a focus both on practical interventions and on operational/implementation research.

With the establishment of the MSc Global Urban Health the Philosophical Faculty at the University of Freiburg together with the University Centre For Medicine and Society: Global Health (ZMG) offers professionals from different backgrounds – medical, social sciences, municipal planning, anthropological, psychological and others – the opportunity of a high-quality practice-oriented postgraduate training, which opens career opportunities at national and international level. All major institutions working in development cooperation (such as GIZ, KfW, MsF, Red Cross) and international organizations (including WHO, Global Fund, World Bank, UNEP, UNICEF) require a postgraduate Master's Degree in Public Health, International Health, Global Health and related areas. Likewise academic institutions with emphasis on Public Health, International Health, Global Health, Environmental Sciences, Urban Planning, Health Economy, Health Policy and similar areas will select and maintain staff with a relevant Master's training. Ministries of Health, Social Security, Environment, Transport, Public Services and related areas in Low and Middle Income Countries (LMICs) prefer staff with post-graduate training for solving the enormous health problems in urban environments. In all professional areas mentioned above a certain amount of research skills is required – mainly in the field of Operational/Implementation Research and Intervention Research – in order to develop innovative evidence-based intervention strategies. Participants coming from research institutions will have the opportunity of strengthening their skills and competences in these areas while the others will learn the basics which enable them to conduct with the appropriate tools relevant studies in their professional area and/or to assess the relevance and quality of studies conducted by others (see below).

**The overall goal of the intensive MSc programme is to strengthen participants' competence in the following areas:**

- To develop analytical and management skills to meet the challenges of urban health
- To identify and quantify biological-psychological-social threats to health and risk factors in urban areas

- To develop knowledge and skills in the field of prevention, control, programme development, monitoring and evaluation for improving urban health
- To design and conduct research projects in the field of urban health
- To make proactive evidence-based decisions and to gain leadership qualities and effective working skills according to the professional background
- To enhance independent and reflective thinking and inspire an interest for lifelong learning.

**The expected learning outcomes are:**

**Knowledge**

After the successful completion of the programme, the participant will be able to:

- Understand the current issues and priorities in the field of urban health, social determinants and interconnectivity
- Use relevant research methods and understand how the methods can be applied to address particular research questions
- Apply epidemiological/statistical and social science research tools to design an operational research study and to analyse and interpret research questions
- Use appropriate skills related to the prevention, control and management of health problems and health services problems related to the challenges of urbanization

**Cognitive skills**

After the successful completion of the programme, the participant will be able to:

- Analyse, synthesize and evaluate information from a variety of sources in a critical manner
- Apply knowledge in a variety of contexts to analyse and reach evidence-based conclusions on complex situations, health problems and opportunities in the field of urban health
- Put into practice the principles and values of ethical practice with regard to the design and implementation of operational research studies, consent and confidentiality in the collection, analysis, presentation, publication and dissemination of data
- Demonstrate creativity, innovation, inspiration and originality in the application of knowledge

**Practical skills**

After the successful completion of the programme, the participant will be able to:

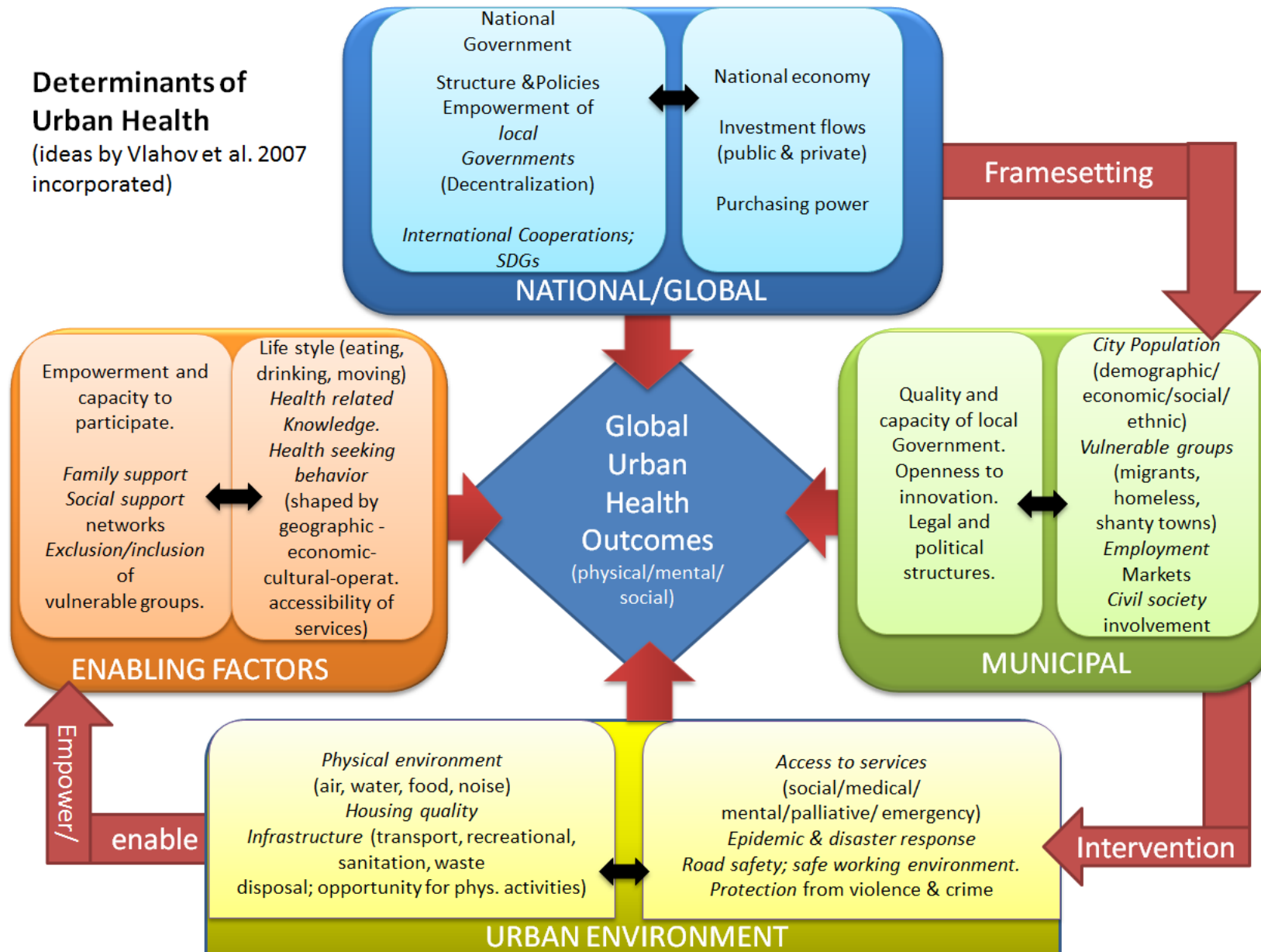
- Formulate research questions, develop an appropriate research strategy and implement a systematic approach to urban health planning and quality management

- Undertake research studies in an ethical and responsible manner and accurately record the data collected
- Efficiently and effectively collect, analyse, manage and disseminate data collected in the field
- Inform policy-makers about short-, medium- and long-term policy options for urban health systems design and preparedness in an increasingly interconnected urban health context in a global environment.

## 1.2. Conceptual framework of the MSc Global Urban Health

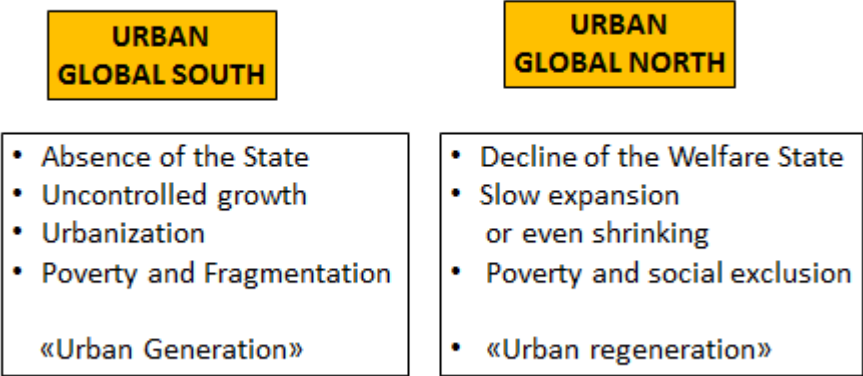
### Determinants of Urban Health

(ideas by Vlahov et al. 2007 incorporated)



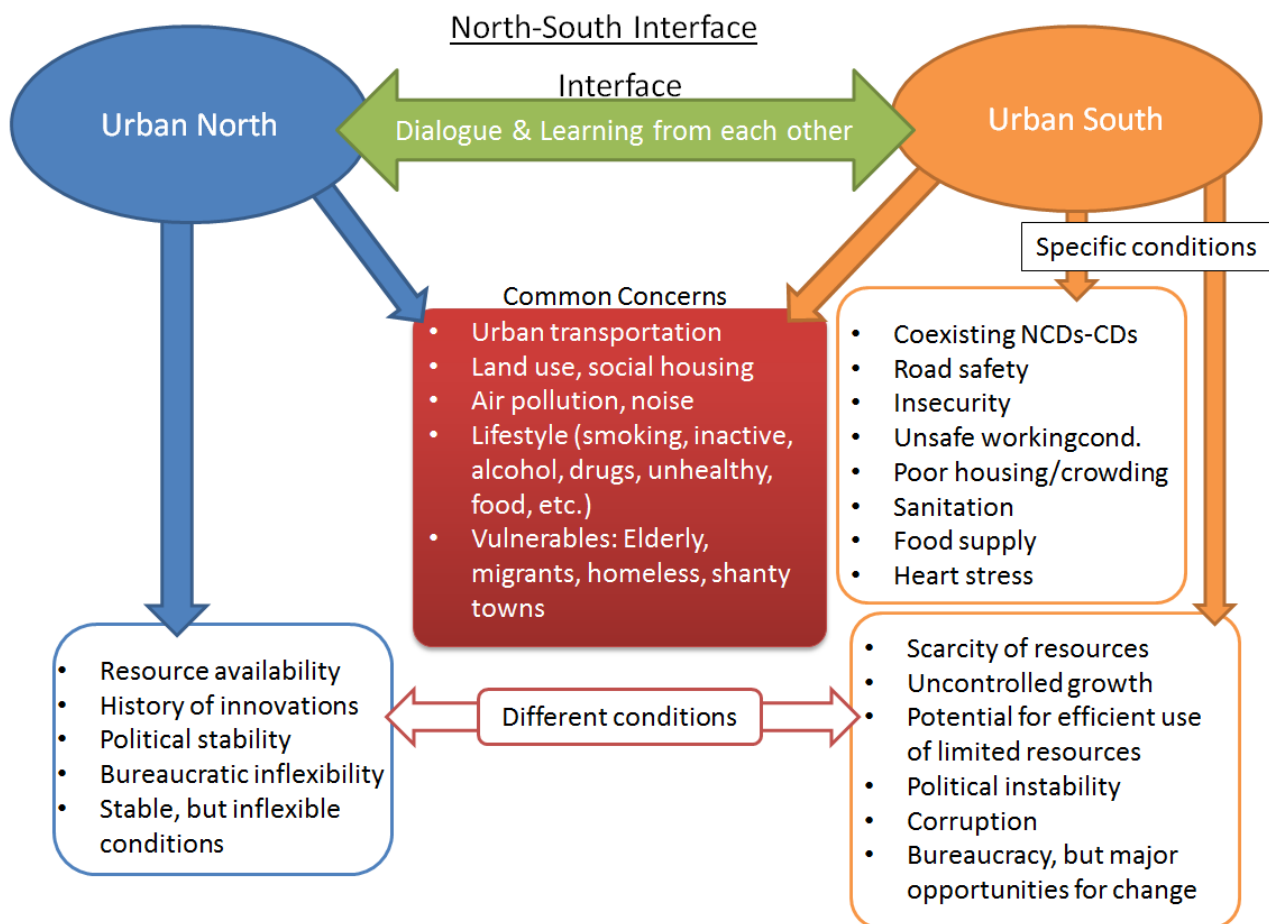
The “urban setting” is shaped by an infinite number of conditioning factors or determinants. Many of them have a direct or indirect health impact. In the diagram these have been ordered into different layers, which belong to the global and national level (shaping legislation and depending on macro-economic variables), to the municipal level (where many interventions are being initiated), as well as to the urban environment including individual living conditions and work. Enabling and limiting “intermediary” factors that rest in the community and/or the individual are also mentioned. The social and political conditions in the “Urban Global South” and the “Urban Global North” are not stable but in a continuous transformation, a process that appears to be faster in the South compared to the North. These features (see diagram below) will be analysed in the MSc GUH.

**Urban South& Urban North: Social and political characteristics**



Source: Eberhard Rothfuss

The Master’s programme will facilitate the dialogue and interface between the urban South and the urban North. There are numerous common concerns in urban environments of the South and the North, which have been addressed in different ways due to contrasting economic, political, social and environmental conditions:



Learning from each other does not mean that the same solution can be adopted in every setting, but the wealth of approaches both in poverty-driven, intermediate and better-off settings will stimulate new ideas about what can be done and where more evidence has to be collected. This environment of dialogue, exchange of experiences and networking between South and North will be provided by the MSc GUH:

## 2. Structure and Organization

### 2.1 Interdisciplinarity and collaborating institutions

The Master's programme is a truly interdisciplinary undertaking at Freiburg University; it is cross-cutting disciplines and faculties. The programme is under the responsibility of the Philosophical Faculty (Humanities, see below) but organized by the Centre for Medicine and Society (ZMG, see below): Global Health. The University of Freiburg has along ZMG fifteen such interdisciplinary academic centres one of them being the Centre for Transcultural Asian Studies (CETRAS). It is dedicated to interdisciplinary research on Asia bringing together five different faculties. One of its three research foci, „metropolitan growth, health and environment“, is closely related to the contents of the GUH master



programme. Most of the CETRAS research staff is teaching at the MSc GUH. Thus, teaching and research are closely interlinked.

### **Faculty of Humanities (Philosophical Faculty)**

The Faculty includes a number of disciplines such as Archaeology, Ethnology, European Ethnology, History Sciences, Oriental Studies, Sociology and others. They are all contributing to the teaching of the MSc GUH using the “city” as a cross cutting topic. Examples are: Urban development in the Islamic world; urbanization in a historical perspective; the devastating effect of urban epidemics in the past; displaced families, migrants and refugees in the urban context; urban geography; sustainable development in Iran. External lecturers will broaden the analysis of “urbanity”. Examples are: Health in Megacities; City and global South; Health governance in cities; urban malaria.

### **Centre for Medicine and Society (ZMG)**

The Centre was founded in 2014 as a central unit of the University of Freiburg. It is committed to research and training in the field of Global Health with a special focus on urban settings. The Centre is hosted by the Department of Anthropology (Prof. Ursula Wittwer-Backofen) and is responsible for the organization of the MSc GUH on behalf of the Philosophical Faculty.

### **Freiburg Academy of Continuing Education**

The Freiburg Academy of Continuing Education (FRAUW) coordinates continuing education programmes for those already working in a full-time job. These programmes include certificate courses designed to provide further theoretical grounding for practical work experience and a selection of master’s programmes, which can also be taken as distance learning programmes.

## **2.2 Responsible Persons**

### **Dean of Studies**

Prof. Dr. Sabine Dabringhaus  
Department of History, University of Freiburg  
Rempartstr. 15-KG-IV  
D-79085 Freiburg

### **Director of Studies**

Prof. Dr. Ursula Wittwer Backofen  
Centre for Medicine and Society (ZMG)  
Hebelstr. 29  
D-79104 Freiburg

### **Scientific Advisor**

Prof. Dr. Axel Kroeger  
Liverpool School of Tropical Medicine (UK)  
Part time at: Centre for Medicine and Society (ZMG)  
Hebelstr. 29  
D-79104 Freiburg

**Teaching Coordination**

Dr. Sonia Diaz-Monsalve  
Centre for Medicine and Society (ZMG)  
Hebelstr. 29  
D-79104 Freiburg

**Administrative Coordination**

Simone Ortolf  
Centre for Medicine and Society (ZMG)  
Hebelstr. 29  
D-79104 Freiburg

**Teaching staff**

The teaching staff includes professors and lecturers of the University of Freiburg from a variety of faculties, external lecturers from partner universities and institutions as well as external experts with long-term practical experiences (see list of lecturers in the Annex).

**2.3 Prerequisites and selection criteria of the MSc GUH**

The Master course is open to professionals in health, social sciences including economics, urban planning and others, holding a higher academic degree with a minimum 4 years of academic full time training (240 ECTS; see below). Candidates are expected to have at least 1 year of working experience in a relevant field.

The medium of instruction is English. Proficiency in reading and speaking English is required (TOEFL (550 paper / 213 computer / 72 - 94 online), IELTS (5+), DAAD (a, b or c in all categories), GER-Level B2 or more).

20 participants will be accepted each year, drawn from a wide range of countries. We aim to achieve a balance in gender, discipline and between participants from industrialized and LMICs (Low and Middle Income Countries).

**2.4 European Credit Transfer System (ECTS)**

ECTS is a learner-centred system for credit accumulation and transfer, based on the principle of transparency of the learning, teaching and assessment processes. Its objective is to facilitate the planning, delivery and evaluation of study programmes and student mobility by recognizing learning achievements and qualifications, and periods of learning.  
[http://ec.europa.eu/education/library/publications/2015/ects-users-guide\\_en.pdf](http://ec.europa.eu/education/library/publications/2015/ects-users-guide_en.pdf)

According to the European Credit Transfer and Accumulation System (ECTS), one Credit Point corresponds to an average workload of 25-30 hours.

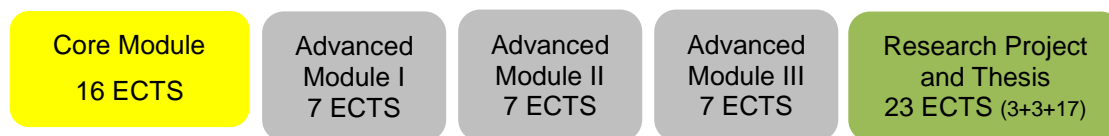
In Continuing University Education of the University of Freiburg, one Credit Point corresponds to an average workload of 30 hours (student effort). MSc students follow 37 CP

(ECTS) of taught modules plus 23 CP (ECTS) in the Research Project module, **total 60 CP (ETCS)**.

The programme consists of 40 working hours per week.

## 2.5 General information on structure

The MSc GUH is a modular programme consisting of three major parts



Duration and ECTS: See duration of the core module and advanced modules in table 2.

Language: English

Participants: 10 to 20

### Study performance

The various elements of a module are made up from formal contact time (lectures, tutorials, discussions, practical exercises, excursions and others), assessment (preparing and completing assignments and examinations) and self-studies.

### Examination regulations

To pass examinations associated with the different modules participants need to achieve at least the grade 4.0 (sufficient).

The final grade is calculated from the grade for the taught modules (core module and advanced modules 1 to 3 where the arithmetic mean of the core and advanced modules represent the overall grade for taught modules) and the master module (oral examination and master thesis). The taught courses count for 60% and the master module for 40% of the overall grade. Grades are awarded according to the German grading scale (1-5) specified on Table 1.

ECTS system	German system	Definition
A	1 (1-1,5)	excellent
B	2 (1,6-2,5)	good
C	3 (2,6-3,5)	satisfactory
D	4 (3,6-4,0)	sufficient
F	5 (>4,0)	fail

Table 1: Grades according to the German and ECTS grading system and their definition.

For being awarded credit points requirements are the following:

- Students take active part in each course/seminar/hands-on of the module and in its course.
- Self-study; independent preparation; reworking of the lectures; and reading materials
- Completing the examinations during and after the sub-modules, presentation at seminars and participation at discussions.

Methodologies: In the morning sessions usually formal teaching (lectures) and group work; in the afternoon usually exercises, excursions, group work and self-study.

The postgraduate programme M.Sc. Global Urban Health starts in winter semester. The courses offered within this programme are repeated annually. This fulltime-programme leads participants to a Master's degree usually in one year (for more details see the document "Study- and Examination Regulations").

## 3. Module Overview and Timetable

### 3.1. Module Overview

#### CORE MODULE

Research methods, epidemiology/ statistics/ social sciences methods, health services, and other general issues of health and risk factors in urban settings

Module conveners: Prof. Dr. Axel Kroeger, Prof. Dr. Sabine Dabringhaus, Dr. Berit Lange

#### ADVANCED MODULES

##### MODULE 1:

Communicable diseases and quality assured programmes in urban settings

2.1 Managing communicable diseases and outbreaks in urban environments

Convener: Prof. Dr. Winfried Kern, Prof. Dr. Hartmut Hengel

2.2 Needs assessment, planning tools and quality assurance in health systems for the urban poor

Convener: Dr. Sonia Diaz-Monsalve

##### MODULE 2:

Environmental Management and control of NCDs in urban areas

1.1 Environmental determinants of health in urban areas: magnitude, measurement and interventions

Convener: Dr. Richard Gminski

1.2 Social determinants and behavioural risk factors of NCDs (Non-Communicable Diseases) in urban environments: Identification and preventive programmes

Convener: Prof. Dr. Ursula Wittwer-Backofen, Mag. Anna Lagia

##### MODULE 3:

Migration, violence and mental health among the urban poor

3.1 Migration in urban environments: Social-political determinants and search for solutions

Conveners: Dr. Sonia Diaz Monsalve, Türkan Karakut

3.2 Mental health in urban environments: Diagnosis, treatment and programme management. Convener: Dr. Peter Scheib

#### RESEARCH PROJECT:

Conveners: Prof. Dr. Sabine Dabringhaus, Dr. Sonia Diaz-Monsalve, Prof. Axel Kroeger

Week	Mon	Tues	Wed	Thurs	Fri			
Induction	Administrative issues					<b>Topic areas</b>		
1	<p style="text-align: center;"><b>Core Module (16 ECTS)</b> (September 25 – December 15, 2017)</p> <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="width: 50%; text-align: center;"><b>Research Methods</b></td> <td style="width: 50%; text-align: center;"><b>Special Topics</b></td> </tr> </table>					<b>Research Methods</b>	<b>Special Topics</b>	Epidemiology
<b>Research Methods</b>						<b>Special Topics</b>		
2						Statistics		
3						Qualitative studies		
4						Social Science methods		
5						Economical appraisals		
6						Urbanization		
7						Health systems		
8						Urban planning		
9						Traditional Medicine		
10						Social mobilization		
11						Pro-social behaviour		
12	Excursions							
	Holidays							
13	1.1 Communicable Diseases (2 weeks, January 8-19, 2018)					<b>1. Communicable Diseases &amp; Quality Assured Programmes (7 ECTS)</b>		
14	1.2 Quality in Urban Health Programmes (2 weeks, January 22 – February 2, 2018)							
15	<i>Revision + Assessments (1 week, February 5-9, 2018)</i>							
16	2.1 Environmental Determinants (2 weeks, February 12-23, 2018)					<b>2. Environmental Management and Control of NCDs in Urban Areas (7 ECTS)</b>		
17	2.2 Non-Communicable Diseases in Urban Environments (2 weeks, February 26 – March 9, 2018)							
18	<i>Revision + Assessments (1 week, March 12-16, 2018)</i>							
19	3.1 Migration (2 weeks, March 19-23, 2018 & April 9-13, 2018)					<b>3. Migration, Violence and Mental Health Among Urban Poor (7 ECTS)</b>		
20	3.2 Mental Health (2 weeks, April 16-27, 2018)							
21	<i>Revision + Assessments (1 week, April 30 – May 4, 2018)</i>							
22	Overall Course Assessment. Core Module & Advanced Modules. Final oral examination including External examiner. (May 2018)							
23								
24								
25								
26								
27								
28								
29								
30								
<b>Research Project (15 weeks; 23 ECTS, including protocol development oral exam and thesis development)</b>								
Graduation								

Table: Structure of the Master’s programme

### Master GUH Thesis Timeline

Activity	Time
1. Selection of topics & objectives; identification of supervisor	Until November 24, 2017
2. Interaction with supervisor (advice)	Continuous
3. Outline of the proposal; presentation of draft protocol	December 15
4. Draft protocol submission	Until February 9
5. Presentation of proposals	February 10
6. Accepted full research protocols	Until March 12
7. Submission to University ethics committee	Week March 12
8. Oral exam (may include questions on the thesis)	Week May 22
9. Preparation for the implementation of the protocol	From May 2018 onwards
10. Presentation of updated protocol and implementation issues	Late June 2018
11. Period of fieldwork and thesis writing	Mid-June – August
12. Submission of thesis	September 7, 2018
13. Graduation	Week Sept. 18

### 3.2. Timetable

25/09/2017	Start
25/09/2017 – 15/12/2017	Core Module
16/12/2017 – 07/01/2018	<i>Christmas Holidays</i>
08/01/2018 – 19/01/2018	1.1 Communicable Diseases in Urban Environments
22/01/2018 – 02/02/2018	1.2 Needs Assessment, Planning Tools and Quality Assurance in Health Systems
05/02/2018 – 09/02/2018	<i>Revision + Assessments of Module</i>
12/02/2018 – 23/02/2018	2.1 Environmental Determinants of Health in Urban Areas
26/02/2018 – 09/03/2018	2.2 Non-Communicable Diseases and Risk Factors
12/03/2018 – 16/03/2018	<i>Revision + Assessments of Module</i>
19/03/2018 – 23/03/2018	3.1 Migration in Urban Environments Week 1
24/03/2018 – 08/04/2018	<i>Easter Holidays</i>
09/04/2018 – 13/04/2018	3.1 Migration in Urban Environments Week 2
16/04/2018 – 27/04/2018	3.2 Mental Health in Urban Environments
30/04/2018 – 04/05/2018	<i>Revision + Assessments of Module</i>
07/05/2018 – 25/05/2018	<i>Overall Course Assessment Including Oral Examination</i>
02/05/2018 – 07/09/2018	Research Project and Submission of Thesis
10/09/2018 – 19/09/2018	Marking of Thesis and Overall Marking
21/09/2017	Graduation (exact date to be determined)



### 3.3. Core Module

#### Research methods, epidemiology/statistics/social science methods, health services and other general issues of health and risk factors in urban settings (12 weeks)

The core module (12 weeks duration) includes formal lectures, group exercises, outdoor exercises, excursions and self-directed-studies plus integrated written and oral assessments.

The core module has different teaching blocks: A) The basic knowledge of epidemiology, statistics, research design (qualitative and quantitative studies, economic appraisals), research implementation and analysis will be taught and practiced. B) Concepts of Global Health applied to cities and urban living will be explored including the rural-urban interface, the challenges of Megacities, characteristics of middle-sized cities; C) A better understanding of demographic, social, psychological, cultural and environmental determinants of urban health will be generated or strengthened; D) Processes of urbanization will be illustrated from a historical perspective; E) The role of formal and non-formal health care systems and health programmes as well as health policy and governance aspects will be analysed and linked to Urban Health. F) The importance of research ethics will be underlined.

The written and oral assessment of different components of the core module are integrated (see coloured parts in the timetables).

The core module is designed by lecturers from the following disciplines:

**Faculty of Humanities:** Qualitative social research, history of urbanization, sociology of living in communities, governance, cultural aspects, traditional healers, gender issues, policy analysis.

**Faculty of Medicine:** epidemiology, statistics, demographic factors, health education, international cooperation, evidence-based medicine, drug supply.

**Faculty of Economics and Behavioural Sciences:** Pro-Social Behaviour, Economic measurements (cost-effectiveness, etc.), cost analysis.

#### Learning objectives

At the end of the module, participants are able to:

- A1) Define key terminology, concepts and different perspectives of global health and urban health including Global Health Concepts applied to the city and North-South interface.
- A2) Analyse urban health and risk factors from different perspectives: Social sciences view (historical, political, behavioural and others), biological-medical view (environmental contamination, toxic substances, mental stress, transmission dynamics of infectious diseases and others), health systems view (governance, financing, equity, access issues and others).

- A3) Measure and analyse health, disease, risk factors, economic issues, health services and social phenomena.
- A4) Summarize major health interventions in urban areas, particularly of LMICs (low and middle income countries), as well as the role of international organizations.
- A5) Write a research protocol under the supervision of a tutor paying attention to ethical issues.
- A6) Describe the main aspects for responding effectively to global and urban health challenges through improved health governance, international agreements (SDGs and others) and other forms of international cooperation.

**Topics to be covered:**

- 1) Concepts and challenges in Global Urban Health:
- Key terminology and conceptual frameworks
  - Theory of the city and urban society
  - Determinants of health
- 2) Research Methods and Evidence Base for Global Urban Health:
- Principles of epidemiological study designs (details below)\*
  - Basic statistical and epidemiological concepts
  - Qualitative research and other social sciences research tools
  - Critical appraisal skills
  - Systematic literature reviews
  - Translating research into policy
  - Principles and rules of research ethics
- 3) Governance in Global Urban Health:
- History (from rural to urban; from Primary Health Care to SDGs)
  - Key stakeholders in the Global Urban Health Arena
  - Issues of governance
- 4) Health Systems in Global Urban Health:
- Key elements of health systems
  - Economic appraisals. Performance based funding
  - Caring for the elderly; palliative care
  - Policy responses for promoting equity, quality and sustainability
  - Health systems research

The module includes practical exercises, field trips as well as study tours to World Health Organization (WHO) and UN Environmental Programme (UNEP) in Geneva, Swiss Tropical Institute (STI) in Basel and Freiburg- Vauban.

Module conveners: Axel Kroeger, Sabine Dabringhaus, Berit Lange

Lecturers: B. Lange, S. Doerken (IMBI), S. Dabringhaus (Phil. Fac.), D. Müller (Phil. Fac.), G. Antes (Cochrane Centre), U. Wittwer, A. Kroeger, S. Diaz, M. Koerner (Soc. Med.), J. Osterhammel (Dpt. History), J. Gaertner (Palliative Care), UAEM (Universities Allied for Essential Medicines) team Freiburg.

External experts: HC Stahl (economics), J. Meyer (GIZ), F. Konold (Food security), Ch. Knauth (European Commission), E. Rothfuss (Bayreuth), A Krämer (Bielefeld), Jung (Frankfurt), D. Niermann (PH), A. Kuesel (WHO), G. Schiffer (Freiburg).

\*More detailed information on the sessions on Epidemiology, Statistics and quantitative research methods are given in the text box below.

### **General structure of the epidemiology sessions**

The sessions will be structured into 3-hour units, separated by two breaks of about 15 minutes each. Usually, the first part will be lecture-based and the two following parts will be practical exercises. Session 8 will not have a lecture but a presentation of all student groups of their study design.

Additionally, in week 7 and 8 there will be complementary sessions in the second half of the week with practical indoor and outdoor exercises on sampling, household surveys and questionnaire design. Also, the lectures and exercises on demographic indicators in week 3 will be complementary to the epidemiological and statistical sessions.

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### **Learning objectives**

After this unit students will be able to understand and explain:

- The difference between association and causation.
- Use and calculate measures of disease frequency, of effect, and of population impact.
- Systematic errors and where they come from in epidemiological studies.
- Bias in epidemiological studies and suggest measures to minimize its impact.
- The concept of effect modification and indicate examples.
- The basic epidemiological study types.
- What type of systematic error each study type is prone to and how to avoid it.
- The design of an epidemiological study and for which problem which design is most appropriate.
- The merits and limitations of a scientific paper.
- Ethical issues

### **Contents of sessions**

1. Introduction to Epidemiology, measures of disease frequency
  - a. Basic concepts: Outcome, exposure, intervention
  - b. Association and causation
  - c. Prevalence and incidence
  - d. Risk, odds and rate
2. Measures of effect and population impact
  - a. Risk ratio and odds ratio

- b. Population attributable risk, Population attributable risk ratio
- c. Number needed to treat, number needed to harm
- 3. Confounding/Interaction
  - a. Bias (Selection bias, Information bias)
- 4. Disease dynamics
  - a. Study designs 1 (Cross sectional/surveys, ecological study, sampling)
  - b. Study designs 2 (Case control study, cohort study)
  - c. Study designs 3 (Intervention study)
- 5. Practical study design

Timetable CORE MODULE

Research methods, epidemiology/statistics/social sciences methods, health services and other general issues of health and risk factors in urban settings

1 <sup>st</sup> week	Monday 25.09.	Tuesday 26.09.	Wednesday 27.09.	Thursday 28.09.	Friday 29.09.
<b>Morning</b>	Introduction to Freiburg and the course (Dabringhaus,Wittwer,Diaz) Preparation of self-presentations with posters (Diaz)	Introduction to the University Library	Introduction to ILIAS  Poster preparation	Introduction to the core module: Concept of Global Health and of Urban Health (Kroeger)	Urbanization: A global & historical view (3) Demographic indicators & their relevance in urban health (Wittwer)
<b>Afternoon</b>		Poster preparation	Poster preparation	Poster present. (Diaz) Evening: Guided tour Reception	Self-study

2 <sup>nd</sup> week	Monday 2.10.	Tuesday 3.10.	Wednesday 4.10.	Thursday 5.10.	Friday 6.10.
<b>Morning</b>	Aid effectiveness in health (Knauth)	<i>Public holiday</i>	Urbanization: A global & historical view (2) (Dabringhaus)	Introduction to indicators (Diaz)	Urbanization: A global & historical view (1) (Boatca, Bemmann)
<b>Afternoon</b>	Self-study	<i>Public holiday</i>	Sustainable Development Goals (SDGs) (Horstick)	International cooperation; MsF, Medico Internat. (Jung)	Self-study

3 <sup>rd</sup> week	Monday 9.10.	Tuesday 10.10.	Wednesday 11.10.	Thursday 12.10.	Friday 13.10.
<b>Morning</b>	Epidemiology (1) (Lange)	Statistics (1) (Doerken, Körner)	Introduction to the Research Project (Diaz, Dabringhaus, Kroeger)	City and global South, a social-science view (Rothfuss, Bayreuth)	Megacities (Krämer)
<b>Afternoon</b>	Epidemiology (2) (Lange)	Statistics (2)(Doerken) 18.00 Uniseum&Rec.	Self-study	City & Global South, exercises.(Rothfuss)	Self-study

<b>4th week</b>	<b>Monday 16.10.</b>	<b>Tuesday 17.10.</b>	<b>Wednesday 18.10.</b>	<b>Thursday 19.10.</b>	<b>Friday 20.10.</b>
<b>Morning</b>	Epidemiology (3) (Lange)	Statistics (3) (Doerken, Körner)	Health Systems Analysis/ Health Services Research (Körner)	Social Security Systems (Stoessel). Vaccination strategies: International comparison (Hofmann)	Urban history, urban development and religious infrastructure: A case study from the Muslim world (Pink)
<b>Afternoon</b>	Self-study	Self-study	Self-study	Self-study	Self-study

<b>5th week</b>	<b>Monday 23.10.</b>	<b>Tuesday 24.10.</b>	<b>Wednesday 25.10.</b>	<b>Thursday 26.10.</b>	<b>Friday 27.10.</b>
<b>Morning</b>	Epidemiology (4) (Lange)	Statistics (4) (Doerken, Körner)	Visit to Geneva (WHO, IRCCC, UNEP, CERN, GAVI, Global Fund)	Visit to Geneva (WHO, IRCCC, UNEP, CERN, GAVI, Global Fund)	Drug availability & licensing issues (UAEM, Kuesel)
<b>Afternoon</b>	Self-study	Self-study	Visit to Geneva (WHO, IRCCC, UNEP, CERN, GAVI, Global Fund)	Visit to Geneva (WHO, IRCCC, UNEP, CERN, GAVI, Global Fund)	Self-study

<b>6th week</b>	<b>Monday 30.10.</b>	<b>Tuesday 31.10.</b>	<b>Wednesday 1.11.</b>	<b>Thursday 2.11.</b>	<b>Friday 3.11.</b>
<b>Morning</b>	Epidemiology (5) (Lange)	<i>Public holiday</i>	<i>Public holiday</i>	The sociology of urban living (Brüggemeier)	Urban agriculture (Konold)
<b>Afternoon</b>	Self-study 18.30 Puppet show (FRIAS)	<i>Public holiday</i>	<i>Public holiday</i>	Research Ethics: principles and rules (Müller)	Urban gardening (Schiff)

7th week	Monday 6.11.	Tuesday 7.11.	Wednesday 8.11.	Thursday 9.11.	Friday 10.11.
<b>Morning</b>	Epidemiology (6) (Lange)	Statistics (6) (Doerken, Körner)	Sampling; sampling exercises (Kroeger)	Household interview surveys (Kroeger)	Practical of HH interview surveys (Kroeger), Mensa survey
<b>Afternoon</b>	Statistics (5) (Doerken, Körner)	Self-study	Outdoor practical exercise	Group analysis of sampling exercise	Questionnaire analysis (RZ, support by Lange & colleagues)

8th week	Monday 13.11.	Tuesday 14.11.	Wednesday 15.11.	Thursday 16.11.	Friday 17.11.
<b>Morning</b>	Epidemiology (7) (Lange)	Statistics (7) (Doerken, Körner)	Questionnaire analysis (by group)  (RZ, support by Lange & coll)	Questionnaire analysis (by group, RZ)	Group presentation: assessment of sampling exercise & survey analysis (Kroeger)(Course work)
<b>Afternoon</b>	Self-study	Self-study	Questionnaire analysis (by group, RZ)	Questionnaire analysis (by group, RZ)	Self-study

9th week	Monday 20.11.	Tuesday 21.11.	Wednesday 22.11.	Thursday 23.11.	Friday 24.11.
<b>Morning</b>	Epidemiology (8) (Lange)	Statistics (8) (Doerken, Körner)	Introduction to qualitative research (Schlehe)	Introduction to the Research Project (Diaz, Dabringhaus, Kroeger)	Urban financing, urban development. Internat. cooperation (Meyer, Doerr, GIZ)
<b>Afternoon</b>	Self-study	Self study	Self-study	Self study	Self-study <i>Evening: Puppet show (Schwank)</i>

10th week	Monday 27.11.	Tuesday 28.11.	Wednesday 29.11.	Thursday 30.11.	Friday 1.12.
<b>Morning</b>	Review Statistics (9) (Doerken, Körner)	Review Epidemiology (9) (Lange)	Economic appraisal (Alfonso, Stahl)	Economic appraisal (Alfonso, Stahl)	Review sampling, household surveys (Kroeger)
<b>Afternoon</b>	Self-study	Self-study	Self-study	Assessment Economic appraisal (MCQs, short answer questions)	Self study

11th week	Monday 4.12.	Tuesday 5.12.	Wednesday 6.12.	Thursday 7.12.	Friday 8.12.
<b>Morning</b>	Research ethics and Evidence Based Medicine (Antes)	Assessment statistics	Alternative medical systems (Kroeger)	Qualitative research (D. Niermann)	Qualitative research (D. Niermann)
<b>Afternoon</b>	Self-study	Preparation of Powerpoint presentations for the last day	Self-study	Self study	Assessment Qualitative research methods (Niermann)

12th week	Monday 11.12.	Tuesday 12.12.	Wednesday 13.12.	Thursday 14.12.	Friday 15.12.
<b>Morning</b>	Evidence Based Medicine, systematic reviews; translational research (Lang)	Evidence Based Medicine, systematic reviews; translational research (Lang)	Caring for the elderly and palliative care (Gärtner). Urbanisation in protracted crises (Knarh, EU)	Module Assessment Epidemiology (MCQs, short answer questions)	Powerpoint presentations of research proposal
<b>Afternoon</b>	Self-study	Self-study	Self-study	Preparation of Powerpoint presentation	Powerpoint presentations of research proposal
<b>Comment</b>	Overall assessment of the core module will be done in the oral examination after completing the specific modules				



### **Module assessment: Core Module**

The assessment will be done in the following way:

- Week 10: In-class assessment of economic appraisals will be done through short answer questions (*weighing factor 2*).
- Week 11: In-class assessment a) short answer questions/ calculations related to terminology, concepts, use of statistical tools(*weighing factor 4*); b) in-class assessment of qualitative research methodologies (*weighing factor 4*).
- Week 12: In-class assessment of epidemiological methods including sampling (*weighing factor 5*).
- Week 12: The assessments of the research proposal/ protocol will be done through power point presentations with a written summary (*weighing factor 9*).

(NB: Total weighing factor for the Core Module assessment = 24. This means that the mark of the core module contributes 24% to the total mark of the MSc)

### **Recommended reading for Epidemiology and Statistics:**

- Kirkwood BR, Sterne JAC. 2003. Essential Medical Statistics. 2nd edition, Blackwell Science.
- Porta M. 2008. A Dictionary of Epidemiology. 5th edition.
- Hennekens CH, Buring J, Mayrent SL (ed.). 1987. Epidemiology in Medicine. Boston/Toronto.
- WHO-TDR Implementation Research Toolkit. Workbook. TDR-WHO, Geneva 2014.

### **Recommended reading for Urban Health:**

- Kraemer A, Hossain Khan M, Kraas F (eds). 2011. Health in Megacities and Urban Areas. Heidelberg, London, New York. doi 10.1007/978-3-7908-2733-0
- W. H. Baumgartner, E. 2016, in preparation. Creative Inequality in the Mid-sized University City – Socio-spatial Reflections on the Brazilian Rural-urban Interface.
- International Council for Science (ICSU). 2011. Report of the ICSU Planning Group on Health and Wellbeing in the Changing Urban Environment: a Systems Analysis Approach. Paris [www.icsu.org].

### **Compulsory reading for Qualitative Studies (copies provided on ILIAS):**

- Bernard, H. Russell. 2011. Research Methods in Anthropology. Qualitative and Quantitative Approaches. 5th edition, Lanham. Chapter 12: "Participant Observation", pp. 256-290.
- Gobo, G. 2008. Doing Ethnography. Los Angeles. Chapter 11: "Ethnographic Interviewing," pp. 190-200.
- O'Reilly, K. 2005. Ethnographic Methods. London, New York, Routledge. Chapter 3: "Ethical ethnography," pp. 59-69.

### 3.4. Advanced Modules 1 – 3

#### MODULE 1

##### **Communicable Diseases in Urban Environments and Quality Assured Health Programmes**

The first sub-module focuses on pathogens, transmission dynamics and early outbreak detection of communicable diseases as well as disease control strategies and epidemic responses including social mobilization and inter-sectoral approaches for vaccination programmes, antimicrobial resistance management and special challenges like sanitation systems in urban areas.

The second submodule provides technical skills for designing, implementing and promoting the quality of health systems in urban contexts as well as assuring, monitoring and evaluating quality using concrete examples and case studies. Current challenges such as the unequal distribution of healthcare professionals result from a lack of delivery of quality health services and care to under-served regions of the world. These critical shortages, inadequate skills, and uneven geographic distribution of health professionals pose major barriers to achieving the preferred state (i.e. quality) of the global health care system.

Together the two sub-modules will link crucial basic knowledge of endemic/epidemic disease control with knowledge about practical strategies to improve health services with the existing resources in low and middle income countries. It will help participants to apply tools and models for quality improvement through team work and creative approaches.

The module is conducted by the following faculties/institutions:

**Faculty of Humanities:** The history of epidemic diseases

**WHO Geneva:** Urban malaria, HIV / AIDS in the urban context

**Faculty of Medicine:** Infectious diseases, vaccination, antibiotic resistance, public health aspects including notifiable infections and control programmes

#### **SUB-MODULE 1.1:**

##### **Managing communicable diseases and outbreaks in urban environments**

##### **Learning objectives**

At the end of the module participants are able to:

- 11.1<sup>1</sup> Recognize the magnitude and transmission dynamics of communicable diseases in urban environments
- 11.2 Explain principles of early identification, management and control of communicable diseases in urban environments
- 11.3 Interpret key indicators related to the control of communicable diseases in urban environments
- 11.4 Develop a proactive and creative approach in controlling infectious diseases

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<sup>1</sup> This number stands for "Objective number 1 of the Sub-Module 1.1".

- 11.5 Implement in their work environment epidemiological investigations and formulate strategies for effective control of communicable diseases with community involvement
- 11.6 Understand the role of different national and international institutions as well as of different professionals and apply the concept of inter-sectoral collaboration in their work environment

**Topics to be covered:**

- 1) Understanding communicable diseases in urban environments
  - Pathogens and transmission routes
- 2) Transmission dynamics and outbreak detection
  - Disease surveillance and burden
  - Vector surveillance
  - Dengue fever: transmission dynamics and interventions
  - Tuberculosis: transmission risk in crowded environments and migrants
  - Urban malaria: determining the magnitude and interventions
  - HIV-AIDS and other sexually transmitted infections in urban environments
- 3) Establishing disease control and epidemic response
  - Social mobilization
  - Vaccination programmes
  - Resistance management

Module conveners: Winfried V. Kern, Hartmut Hengel

Lecturers: G. Haecker, H. Grundmann, W.V. Kern, A. Kroeger, B. Lange, S. Rieg, D. Wagner, M. Panning, H. Hengel

External experts: T. Callejas (WHO), F. Pagnoni (WHO)

Timetable MODULE 1.1: COMMUNICABLE DISEASES IN URBAN ENVIRONMENTS

<b>1<sup>st</sup> week</b>	<b>Monday 8.1.</b>	<b>Tuesday 9.1.</b>	<b>Wednesday 10.1.</b>	<b>Thursday 11.1.</b>	<b>Friday 12.1.</b>
<b>Morning</b>	The history of urban epidemics (N.N.). Introduction to modern infectious disease epidemiology.  Important pathogens and infections for urban planning I (Kern)	Transmission routes, infection surveillance (Kroeger)  Important pathogens and infections for urban planning II: Influenza and other viruses (Hengel)	Important pathogens and infections for urban planning III: Salmonella and other water/food-borne pathogens (Häcker)  Spec dis.: Rabies (Panning)	Important pathogens and infections for urban planning IV: Tuberculosis and other air-borne & respiratory infections) (Wagner & Lange)  Special diseases: STIs other than HIV. Scabies (Rieg)	Urban epidemics: Dengue and other emerging viruses, alarm signals and response (Kroeger)  Infectious disease epidemiology: dynamics & outbreaks (Lange)
<b>Afternoon</b>	Self-study	Self-study	Self-study	Self-study	Visit to diagnostic lab. (Panning&Häcker)

<b>2<sup>nd</sup> week</b>	<b>Monday 15.1.</b>	<b>Tuesday 16.1.</b>	<b>Wednesday 17.1.</b>	<b>Thursday 18.1.</b>	<b>Friday 19.1.</b>
<b>Morning</b>	HIV/AIDS pandemic (Callejas, WHO)	Urban malaria & community involvement in control (Pagnoni, WHO)  Geo-spatial analysis (Grundmann)	Vaccination strategies (Hengel)  More on emerging viral diseases (Panning)	Antimicrobial resistance as a global threat (Grundmann)  Water & Sanitation (Kroeger)	Presentations on communicable diseases in urban areas (Course work)
<b>Afternoon</b>	Preparation for ppt	Visit to Albert Schweitzer Museum	Preparation for ppt.	Preparation for ppt.	

### **Recommended reading:**

- Connolly MA (ed.). 2005. Communicable Disease Control in Emergencies. A Field Manual. WHO Geneva.
  - Detels R, Gulliford M, Abdool Karim Q, Tan CC (eds). 2015. Oxford Textbook of Global Public Health. London.
  - Heymann DL (ed.). 2015. Control of Communicable Diseases Manual. Washington D.C.
  - Gould IM, van der Meer JWM (eds.). 2008. Antibiotic Policies: Fighting Resistance. New York, London.
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### **SUB-MODULE 1.2:**

#### **Quality assurance, needs assessment and planning tools in health systems for the urban poor**

#### **Learning objectives**

At the end of the module participants are able to:

- 12.1<sup>2</sup> Apply the elements of planning and quality assurance in health programmes taking notice of social planning.
- 12.2 Initiate the process of monitoring through quality defined indicators for their own institutions, including data collection, data analysis, interpretation and dissemination.
- 12.3 Use the information as a quality assurance tool to aid local decision making.
- 12.4 Encourage a multidisciplinary approach and team work in solving problems related to quality of health service delivery.
- 12.5 Create a “culture of quality”, sensitive to clients’ needs (urban poor/displaced).

#### **Topics to be covered**

- 1) Concepts, QA models and management tools:
  - Key terminology and conceptual frameworks and models
  - QA cycle
  - Management tools
- 2) Applying tools at local urban level:
  - Nine epidemiological questions
  - Risk Approach
  - Causal models
- 3) Human Resources for Health (HRH)
  - Assessments
  - Planning HRH
- 4) Identifying areas for quality improvement and measuring progress at urban level:

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<sup>2</sup> This number stands for “Objective number 1 of the Sub-Module 1.2”.

- Developing and monitoring defined quality indicators
- Sources of Information, how to analyse and present data
- Barriers and enabling factors when establishing QA systems

Module convener: Sonia Diaz- Monsalve

Lecturers: S. Diaz, A. Kroeger, K. Toens.

External experts: N. Dreesch (WHO), Vicki Doyle (Liverpool).

Timetable Module 1.2: Needs assessment, planning tools and quality assurance in health systems for the urban poor

<b>1<sup>st</sup> week</b>	<b>Monday 22.1.</b>	<b>Tuesday 23.1.</b>	<b>Wednesday 24.1.</b>	<b>Thursday 25.1.</b>	<b>Friday 26.1.</b>
<b>Morning</b>	Introduction to the module (Diaz) Needs assessment and planning tools (1) (Diaz, Kroeger)	Needs assessment and planning tools (2) (Diaz, Kroeger)	Needs assessment and planning tools (3) (Diaz, Kroeger)	Human resources: Assessment and planning (Dreesch)	Human resources: Assessment and planning (Dreesch)
<b>Afternoon</b>	Continued	Continued	Self-study	Continued	Self-Study

<b>2<sup>nd</sup> week</b>	<b>Monday 29.1.</b>	<b>Tuesday 30.1.</b>	<b>Wednesday 31.1.</b>	<b>Thursday 1.2.</b>	<b>Friday 2.2.</b>
<b>Morning</b>	Policy implication of Social Planning (Töns)	Core concepts & models for QA and improvement Defining the role of the client in QA (Doyle)	Case study: embedding quality in community health services in Kenya (Doyle)	Logical framework and other planning tools (Doyle)	Summary of SQALE Programme Communication approaches for QA Challenges of institutionalising QA in urban health settings (Doyle)
<b>Afternoon</b>	Self-study	Group work on Quality Assurance (Doyle)	Group work on QA (Doyle)	Self-study	Self-study

### Recommended reading

- Diaz S., Kroegeer A. Needs Assessment and Planning Tools. A Workbook. (will be provided on ILIAS)
- Green A. 2007. An Introduction to Health Planning for Developing Health Systems. 3rd edition. Oxford.
- Massound M R et al (2016). How do we learn about improving health care: a call for a new epistemological paradigm. International Journal for Quality in Health Care, 2016, 1–5 doi: 10.1093/intqhc/mzw03
- Tulloch O (2015) What does 'adaptive programming' mean in the health sector ?, ODI, UK. <https://www.odi.org/publications/10228-adaptive-programming-health-sector>
- Donabedian, A. (1992) The Lichfield Lecture. Quality assurance in health care: consumers' role. Quality & Safety in Health Care, 1, pp. 247-251. <http://qualitysafety.bmj.com/content/1/4/247.full.pdf+html>
- Further reading materials to be presented at the beginning of the module.

### Assessment Module 1.1 and 1.2: Communicable Diseases & Needs assessment, Planning tools and Quality assurance in health systems

The assessment will be done for both sub-modules together at the end through an essay (home work). At the end of module 1.1 you will have selected a communicable disease in a city of your choice; you will describe the characteristic of the pathogen, the transmission route and the disease as far as this understanding is important for the prevention and control of the disease. The presentation will be done on Friday morning (19.1.). You can choose the way in which you present (ppt, poster, oral, document; no marking). After completing Module 1.2 on Planning, you will be able to do a proper situational analysis of "your" disease and formulate the operational plan (see below).

#### ESSAY (covering 1.1 and 1.2)

Participants write an essay (homework) about the following case study:

You are the health manager of an urban district. Take the communicable disease of your choice (see 1.1) and work through the following questions:

1. Describe the health risks, health services and health in your district in a tabular form with a short summary
2. How would you improve the health and health services situation of your district?
3. How would you reduce health inequalities?
4. How would you show to the political actors that you are a "good" manager?

Critically present and analyse the current situation of your urban district and develop your plan for the next year.

*The essay should not have more than 3,000 words (weighing factor 12)*

*(NB. Total weighing factor for Advanced Module 1 assessment = 12. This means that the mark of the module contributes 12% to the total mark of the MSc)*



## MODULE 2

### Environmental Management and Control of Non-Communicable Diseases in urban areas

The first part of the module focuses on the assessment and measurement of environmental risk factors and health impact. These are: air and water pollution, noise exposure, heat (in relation to climate change), environmental modifications within urban development and local legislations, building plans as a threat or as a positive determinant to health. The second part of the module addresses the impact of unhealthy environments and unhealthy behaviour (eating, physical inactivity) on health and analyses model solutions from healthy city programmes and shows possible mitigation and solution strategies.

The module is conducted by the following faculties:

**Faculty of Environment and Natural Resources:** urban geography, regional concepts of urban development, land use and development, microclimate, climate change

**Faculty of Medicine (IUK):** air pollution, noise pollution, toxicology, water, sequelae

Faculty of Economics and Behavioural Sciences: lack of physical activity and motivational training

**WHO Geneva:** pandemic of cancer

#### SUB-MODULE 2.1:

#### Environmental determinants of health in urban areas: magnitude, measurement and interventions

##### Learning objectives:

At the end of the module, participants are able to:

- 21.1<sup>3</sup>. Define the major types, sources and spatial distribution of environmental agents and stressors
- 21.2. Recognize and use environmental indicators
- 21.3. Describe how the agents and environmental conditions (e.g. heat) interact with systems and describe the mechanisms by which they exert adverse effects
- 21.4. Use models for predicting the magnitude of adverse effects in biological systems
- 21.5. Identify gaps in current knowledge concerning health effects of environmental agents
- 21.6. Describe current legislation and regulation regarding environmental issues in different settings
- 21.7. Formulate practical interventions to improve environmental problems in the risk-assessment process

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<sup>3</sup> This number stands for "Objective number 1 of the Sub-Module 1.2".

## Topics to be covered

- 1) Concepts and challenges in environment and urban health:
  - Key terminology and conceptual frameworks and models
  - Sustainable development
  - Current debates in environment and human health
  - Regional concepts of environmental protection
  - Urban Geography
- 2) Key environmental and human challenges in urban health:
  - Environmental pollution (air, water and soil)
  - Noise
  - Housing conditions
  - Microclimate in urban environments
  - Biodiversity, climate change and resilience
  - Human health policies
- 3) Measuring environmental factors and health effects:
  - Environmental pollution (air, water): Measurement and health effects
  - Noise: Measurement and health effects
  - Environment-related syndromes (MCS, IEI, SBS, CFS, CS, BS)
- 4) Interventions at micro and macro level:
  - Healthy housing
  - Indicators for healthy housing
  - Fauna and Flora in urban environments

Module convener: Richard Gminski

Lecturers: I. Nazarenko, R. Gminski, A. Schuster, M. Garcia-Käufer, C. Schultz, J. Naumann, A. Mattisek/ T. Freytag/ K. Hackenbroch (Geography), T. Epkenhans/J. Pink  
External experts: N.N. (Meteorology), G. Alabaster (WHO, Geneva)

Timetable MODULE 2.1: ENVIRONMENTAL DETERMINANTS OF HEALTH IN URBAN AREAS (Institute of Pathology, Breisacherstr.)

<b>1<sup>st</sup> week</b>	<b>Monday 12.2.</b>	<b>Tuesday 13.2.</b>	<b>Wednesday 14.2.</b>	<b>Thursday 15.2.</b>	<b>Friday 16.2.</b>
<b>Morning</b>	Introduction to the module (Gminski)  Urban development and planning (Freitag, Hackenbroch)	Sustainable development & the conceptions of nature in the contemporary Islamic Republic of Iran (Epkenhans)	Self study	Urban planning in Freiburg: visit to Vauban (Gminski), Future Lab	Water & soil pollution (Garcia-Käufer, Gminski)  Contribution of environmental factors to cancer risk (Nazarenko)
<b>Afternoon</b>	Introduction to student presentation for the following week (Friday)	Environmental determinants of health in urban areas (Gminski) Ambient air pollution (Gminski)  Indoor air pollution (Gminski) Environmental-related diseases (Naumann)	Urban dust pollution in Sulaimani City, Kurdistan, Iraq – a current original research (Arif)  (Venue: Breisacherstr. 115a, Viamedica Room, 3 <sup>rd</sup> floor)	Measuring environmental determinants of health: practical aspects: (Schuster)	Visit to Kommunale Kläranlage Forchheim (Schuster, Gminski)

<b>2<sup>nd</sup> week</b>	<b>Monday 19.2.</b>	<b>Tuesday 20.2.</b>	<b>Wednesday 21.2.</b>	<b>Thursday 22.2.</b>	<b>Friday 23.2.</b>
<b>Morning</b>	Water & sanitation in urban LMICs (Alabaster)	Weather, climate, climate change (N.N.Glaser?)	Urban climate & micro-climate (N.N.Physical Geography?)	Fauna and Flora in urban environments (Peerenboom)  Recycling (Moser, Zürich?)	Summary of environmental factors through student presentations (Course Work)
<b>Afternoon</b>	Environmental determinants of health in urban areas: exercises (Gminski, Nazarenko, Schuster)	Self-study	Urban climate walk (Freiburg city centre) (N.N.)	Visit to Freiburg Waste Disposal Plant, Uniklinik Freiburg (Schuster, Gminski)	Summary session continued

## Recommended reading:

- WHO. 2012. Measuring Health Gains from Sustainable Development. Public Health and Environment Department (PHE), WHO. Geneva.  
[http://www.who.int/hia/green\\_economy/en/index.html](http://www.who.int/hia/green_economy/en/index.html)
- WHO. 2011. Health in the Green Economy: Health Co-benefits of Climate Change Mitigation-housing Sector. PEH, WHO. Geneva.
- Rothenberg R, Stauber C, Weaver S, Dai D, Prasad A and Kano M. 2015. Urban Health Indicators and Indices — Current Status. *BMC Public Health*, 15, 494.
- Schwela D. 2000. Air Pollution and Health in Urban Areas. *Rev Environ Health*, 15 (1-2), 13-42.

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## SUB-MODULE 2.2:

### **Social determinants and behavioural risk factors of NCDs (Non Communicable Diseases) in urban environments: Identification and preventive programmes**

#### **Learning objectives**

At the end of the module participants are able to:

- 22.1<sup>4</sup>. Define the complex nature of urban NCD risk factors
- 22.2. Perform a situation analysis of social determinants, risk factors and non-communicable diseases (NCDs) including identifying data sources and data constraints
- 22.3. Determine and quantify the different behavioural risk factors for obesity, hypertension, other causal factors for cardiovascular diseases and for cancer
- 22.4. Detect the complex of child growth and developmental risk factors
- 22.5. Assess risk behaviour and possible causal factors including public policies
- 22.6. Design locally adapted response mechanisms including community based advocacy initiatives aimed at advancing healthy environments that promote physical activity and healthy eating and discourage alcohol abuse and smoking particularly in vulnerable, marginalized populations
- 22.7. Understand models which display the interactions of affective and cognitive determinants of health behavior
- 22.8. Design public health campaigns considering social contagion effects of health information

#### **Topics to be covered**

- 1) Concepts and historical aspects in Global Urban Health:
  - Key terminology

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<sup>4</sup> This number stands for "Objective number 1 of the Sub-Module 1.2".

- Burden of NCDs
  - Political issues
  - Human Adaptability
- 2) Social determinants of NCDs:
- Urban Inequalities and NCDs risk factors
  - Qualitative social research
  - Quantitative research
  - Data management and analysis
  - Ethical issues
  - Causal effects and interpretation
- 3) Policy in NCDs:
- Healthy eating
  - Enhancing physical activity
  - Surveillance of child growth and development, detecting growth and developmental disorders
  - Gender issues
- 4) Putting healthy life in urban contexts into practice:
- Intersectorial approach
  - Community based initiatives

Module conveners: U. Wittwer-Backofen, A. Lagia

Lecturers: U. Wittwer-Backofen, H. Andersch, A. Lagia, R. Mumm, E. Lamy, J. Lindenmeier, S. Schlegel

External experts: F. Liberatore (ZHAW School of Management & Law), A. Ullrich (WHO, NCDs), G. Knieps

## Timetable MODULE 2.2: Non-communicable diseases and risk factors

2 weeks before the module begins, inform and provide instructions on “Purchasing Healthy Food” & International Night

1 <sup>st</sup> week	Monday 26.2.	Tuesday 27.2.	Wednesday 28.2.	Thursday 1.3.	Friday 2.3.
<b>Morning</b>	Introduction to Module - Overview of NCDs & Risk Factors (Wittwer) Introduction to Group project: “Food diary”. Assignment of ppt. presentations <i>Reminder of Purchasing Healthy Food and International Night</i>	Global health agenda & NCDs; WHO strategies to reduce NCD risks; NCD management: Ca, diabetes, CVD, CO=PD. The burden of Cancer (Ullrich)	Nutrition (Wittwer)  <i>(blend the purpose of the Food Diary &amp; Purchasing Healthy Food-Int night)</i>	Enhancing physical activity (Lindenmeier)	Beneficial effects of exercise for physical and mental health. Theory & practice (Schlegel)
<b>Afternoon</b>	Self-study	Self-study	National Cohort study (Michels)	Social Marketing/Health Behavior Change – Case Studies in Public Health Campaigns (Liberatore)	Exercise: Food preparation <i>Evening (18pm): International Night</i>

2 <sup>nd</sup> week	Monday 5.3.	Tuesday 6.3.	Wednesday 7.3.	Thursday 8.3.	Friday 9.3.
<b>Morning</b>	Obesity (Schwab) Growth, Development (Mumm)	Diabetes (Seuffert) Cardiovascular Diseases (Supady)	Traffic accidents & medical rescue services (Steiger Stiftung)	Diet, secondary plant compounds and cancer prevention (Lamy)	Group analysis of food diaries and Powerpoint presentations
<b>Afternoon</b>	Research Projects & Networks on NCDs. Longitudinal risk factor studies. NCDs in model cities (Wittwer)	Self-study	Self-study	Self-study	<b>Assessment:</b> Powerpoint presentations cont’d

**Recommended reading:**

- Haviland WA, Prins WE, Walrath D, McBride B. Anthropology. The Human Challenge. International Edition. Belmont 2011.
- Freudenberg N, Klitzman S, Saegert S (eds). 2009. Urban Health and Society. Interdisciplinary Approaches to Research and Practice. San Francisco.
- Nonini, D.N. 2014. A Companion to Urban Anthropology. Wiley-Blackwell.
- Hermanussen M. 2013. Auxology. Studying Human Growth and Development. Stuttgart.
- Kohl H, Murray T. 2012. Foundations of Physical Activity and Public Health. Human Kinetics.
- Global Action Plan for the Prevention & Control of NCDs 2013-2020\_WHO 2013.
- Global Strategy on Diet, Physical Activity & Health\_WHO 2004.
- Shanghai Declaration on Promoting Health in the 2030 Agenda for Sustainable Development\_Nov 2016.

**Module assessment, 2.1 Environmental determinants of health in urban areas**

- i) Powepoint presentation by each student on the final day
- ii) The participant can select one example from several case studies about environmental issues in urban areas and has to present the steps of analysis and control/treatment. Particular emphasis will be on the correct use of environmental indicators. (*Weighing factor = 6*).

**Module assessment 2.2 Non-communicable diseases and risk factors**

- i) Short Powerpoint presentations at the end of the module
- ii) Analysis of a practical exercise: Participants do an observational study in supermarkets or food chain restaurants about consumption of unhealthy food and (observed) obesity. Participants analyse the results and write an essay at home. Not more than 3000 words. (*Weighing factor = 6*)

*(NB.: Total weighing factor for Module 2 assessment = 12. This means that the mark of the module contributes 12% to the total mark of the MSc)*

## MODULE 3

### Migration, Violence and Mental Health Issues among the Urban Poor

The first part of the module focusses on different aspects and influencing factors of migration illustrated with practical examples from Freiburg and surrounding areas. Strategies of management and prevention of specific issues such as children without parents, adolescents and intercultural conflicts and violence among heterogeneous groups are discussed.

In the second part, the global burden of mental illnesses, diagnosis at primary healthcare level and the management of treatment and care of affected patients in resource poor settings is illustrated and discussed. Particularly the problems of rural-urban migration, disintegration of families, increase of population density and other phenomena of urbanization are discussed.

The module is conducted by the following faculties/institutions:

**Faculty of Humanities:** Cultural and ethnical aspects of migration, religious and cultural challenges, solutions from an ethnological point of view.

**Protestant University of Applied Sciences and University of Education:** Migration research and contributions to conflict resolution.

**Faculty of Medicine:** Global Mental Health, basic health care for mental health, health programmes for Urban Mental Health.

#### SUB-MODULE 3.1:

#### Migration in urban environments: Social-political determinants and search for solutions

##### Learning objectives

At the end of the module participants are able to:

- 31.1<sup>5</sup> Understand the key aspects of the relationship between migration, politics, inequalities, and health related issues at global, regional, national and local levels.
- 31.2 Differentiate the terms of migration in terms of motives and dynamics.
- 31.3 Recognize the interplay of migration with social mobility, poverty, violence, identity, gender, urban space and health.
- 31.4 Apply relevant interdisciplinary research methods.

##### Topics to be covered

- 1) Concepts, history and challenges of global migration:
  - Key terminology, definition of “migrants”

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<sup>5</sup> This number stands for “Objective number 1 of the Sub-Module 3.1”.



- Migration flows and processes (including economic, demographic and ethnographic approaches)
  - Brain drain and migration in the public health arena
- 2) Institutional frameworks: Models for primary mental care in urban settings:
- State Policy, legal and institutional framework
  - Culture and Identity
  - Trauma therapy for migrants
- 3) The effects of migration:
- Change in fertility, mortality and other health indicators
  - Violence and its determinants
- 4) Interventions at macro and micro level:
- Options
  - Raising public awareness
  - Addressing irregular migration
  - Challenges in research on health problems of migrants

Module conveners: Sonia Diaz Monsalve, Türkan Karakut

Lecturers: C. Helfferich, K. Töns, A. Lipphardt, I. Schwarz, S. Rother, T. Epkenhans, A. Scherr (PH), Wägerle (PH)

External experts: T. Karakut (City Council, Freiburg), NGOs working for migrants

Timetable MODULE 3.1: Migration in urban environments: Social-political determinants and search for solutions

1 <sup>st</sup> week	Monday 19.3.	Tuesday 20.3.	Wednesday 21.3.	Thursday 22.3.	Friday 23.3.
<b>Morning</b>	Introduction: Characteristics of “migrants”. Migration, urbanization and social inequality. Germany as a case Study (Toens)	A global perspective of migrant self-organizing, political rights and well-being (Rother/Toens)	Governing migration: Local politics and municipality “Managing the refugee crisis in Freiburg” (Karakut/Toens)	Causes, reasons and forms of forced migration (Scherr)	Reproductive health of migrants, especially asylum seekers (Single-Mother-HHs, STDs) (Wägerle)
<b>Afternoon</b>	Walking Tour with BLEIBERECHT on locations for migrants	Self-study	Visit of the refugee housing project “Langenlöh”	Preparation of final Powerpoint presentation	Self-study

Easter Holidays (March 24 – April 8, 2018)

2 <sup>nd</sup> week	Monday 9.4.	Tuesday 10.4.	Wednesday 11.4.	Thursday 12.4.	Friday 13.4.
<b>Morning</b>	Migration, Health and Violence: Migrant Health; experience of violence: The case of human trafficking & exploitation (Helfferich)	Religious responses to implications of labour migration in post-Soviet Central Asia (Single-Mother-HHs, STDs) (Epkenhans)	Protection of Children, Adolescents and Women in Refugee Accommodation Centres – Report from an UNICEF-Project Evaluation (Helfferich)	Case studies on migration (Lipphardt, Zinn-Thomas, Rohrer / Schwarz, Lipphardt)	Powerpoint presentations on health-related issues of refugees/migrants; Conclusions and current state of the art, interconnections to students’ research project
<b>Afternoon</b>	15:00-17:00 Guest: Simone Heneka, Freya, Centre for trafficked women	Visiting Medi-Net, a voluntary service organisation	Guest: Laura Wall, Protection from violence against refugees, Freiburg	Self-study	Self-study

**Recommended reading:**

- Bommers M, Thränhardt D. 2010. National Paradigms of Migration Research. 1st edition. (IMIS-Schriften Bd. 13). Osnabrück . Introduction pp. 9-38.
- Caglar A, Glick Schiller N (eds). 2010. Locating Migration: Rescaling Cities and Migrants. Ithaca.
- Düvell F, Triandafyllidou A, Vollmer B. 2009. Ethical Issues in Irregular Migration Research in Europe. *Population Space and Place* 16.3, 227–239.
- Genova, N de. 2009. Conflicts of Mobility, and the Mobility of Conflict: Rightlessness, Presence, Subjectivity, Freedom. *Subjectivity*, 29.1, 445–466.
- Lipphardt A, Schwarz I. 2015. Follow the People! Examining Migration Regimes through Emerging Trajectories of Unauthorized Migrants. In: Andreas Pott et al. (ed.) *Migration Regimes. Approaches to a Key Concept*, pp... Wiesbaden.
- Zetter R. 2014. Protection in Crisis: Forced Migration and Protection in a Global Era. Download: <http://www.migrationpolicy.org/research/protection-crisis-forced-migration-and-protection-global-era>
- Castles S. 2017. Towards a Sociology of Forced Migration and Social Transformation. (will be provided at Online-Platform ILIAS).

Betts A. What History Can Teach Us About the Worst Refugee Crisis Since WWII. September 2015 ([http://www.huffingtonpost.com/entry/alexander-betts-refugees-wwii\\_55f30f7ce4b077ca094edaec](http://www.huffingtonpost.com/entry/alexander-betts-refugees-wwii_55f30f7ce4b077ca094edaec)).

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**SUB-MODULE 3.2:****Mental health in urban environments****Learning objectives:**

At the end of the module participants are able to:

- 32.1<sup>6</sup> Understand psychosocial problems and needs in Urban Health in different cultural contexts.
- 32.2 Recognize psychic and psychosomatic problems by applying the Bio-Psycho-Social Model and anamnesis of psychosomatic medicine.
- 32.3 Know and measure the burden of disease in an urban context related to mental health caused by: environmental threats, occupational stress, poverty, migration, life style and eating behaviour.
- 32.4 Explain the concept of Family Systems Medicine and the systems approach to mental health. Apply practical skills in health related helpful professional communication, deriving from psychosomatic medicine and the Bio-Psycho-Social Model.

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<sup>6</sup> This number stands for "Objective number 1 of the Sub-Module 3.2".

- 32.5 Understand ways of cooperation and networking in the medical care system, mental health care and professional psychosocial support systems and the related health care professionals such as psychiatrists, medical and psychological psychotherapists, psycho-social consultants, social workers and others.
- 32.6 To develop strategies for establishing primary mental care in urban settings.

**Topics to be covered:**

- 1) Concepts and challenges of Global Urban Mental Health:
  - Key terminology and conceptual frameworks and models
  - Critiques and challenges in Global Mental Health
- 2) Models for primary mental care in urban settings:
  - Common mental disorders and diagnostic criteria relevant for Urban Health Care
  - Urbanisation and stress (modern life stress) Family Systems Approach / Family Systems Medicine
  - Culture and mental health

Module convener: Peter Scheib

Lecturers: C. Lahmann, M. Wirsching, P. Scheib, A. Zeek, E. Wetzler-Burmeister, T. Bay, C. E. Scheidt, A. Lippard, E. Waller, A. Sandholz, S. Schlegel, A-M. Müller

External experts: Dremel, W. Geigges

### Timetable MODULE 3.2: Mental Health in Urban Environments

1 <sup>st</sup> week	Monday 16.4.	Tuesday 17.4.	Wednesday 18.4.	Thursday 19.4.	Friday 20.4.
<b>Morning 9:00 – 13:00</b>	The Global Burden of Mental Health - psychosocial problems and needs in an Urban Health Care System (Wirsching, Scheib) <i>Group work:</i> Exploring psychos. aspects of urban living	The Bio-Psycho-Social Model and psychosomatic medicine (Scheib) <i>Group work:</i> The bio-psycho-social anamnesis	Stress – theories and interventions; Environmental threats, strain and (mental) health. (Dremel, to be confirmed) <i>Group work:</i> Stress-related mental health consequences	Self-study	Displaced persons and mental health: Migration as a risk factor (Müller)  The interplay of trauma and migration: The case of Holocaust survivors (Lipphardt)
<b>Afternoon</b>	Self-study	Self-study	Self-study	14:00 -18:00 Occupational stress and Mental health. Psychosomatic Rehabilitation (Geigges) Location: Rehaklinik Glotterbad	Self-study
2 <sup>nd</sup> week	Monday 23.4.	Tuesday 24.4.	Wednesday 25.4.	Thursday 26.4.	Friday 27.4.
<b>Morning 9:00 – 13:00</b>	Family Systems Medicine I: Changing family structures in modern societies Family relations and health (Scheib, Bay) <i>Group work:</i> Family therapy techniques	Mental Health Care System in Germany: the role of Psychosomatic Medicine and Psychotherapy (Scheidt) <i>Group work:</i> Mental health care in different countries (Scheib)	Embodiment – the body in Psychosomatic Medicine and Psychotherapy (Lahmann) <i>Group work:</i> Self-experience and reflection on body perception (Scheib)	Life style, eating behaviour and mental health in an urban setting (Zeeck)  How do refugees feel? (P. Davidson)	Assessment: poster presentations by students
<b>Afternoon</b>	Preparing poster	Preparing poster	Preparing poster	Preparing poster	Assessment continued

### Recommended reading

- Patel V, Prince M. 2010. Global Mental Health. A New Global Health Field Comes of Age. *JAMA*, 303(19), 1976-1977. doi:10.1001/jama.2010.616.
- Fritzsche K, McDaniel SH, Wirsching M (eds). 2014. Psychosomatic Medicine. An International Primer for the Primary Care Setting. Heidelberg, London, New York.
- Meyer-Lindenberg A, Tost H. 2012. Neural Mechanisms of Social Risk for Psychiatric Disorders. *Nature Neuroscience*, 15, 663–668.
- Lederbogen F, Haddad L, Meyer-Lindenberg A. 2013. Urban Social Stress – Risk Factor for Mental Disorders. The Case of Schizophrenia. *Environmental Pollution* 183, 2–6. doi: 10.1016/j.envpol.2013.05.046
- Levold T, Wirsching M. 2014. Systemische Therapie und Beratung. Das große Lehrbuch. Heidelberg. (selected chapters to be summarized in English)
- Scheib P. 2015. Global Mental Health. Does the ‘Global South’ need Psychotherapy? Lecture. (ppt; to be provided on ILIAS)

### Module assessment 3.1 Migration in urban environments: Social-political determinants and search for solutions

Powerpoint presentation on health-related issues for refugees and migrants (*weighing factor 2*). Each individual has also to submit a short essay on migrants health (*weighing factor 4*).

### Module assessment 3.2 Mental health in urban environments

Participants will prepare a poster about mental health issues in urban areas. The poster will be presented on the last day of the module (*weighing factor 6*).

(NB.: Total weighing factor for Module 3 assessment = 12. This means that the mark of the module contributes 12% to the total mark of the MSc)

### 3.5 Research Project

The research project offers the opportunity to apply the methods and skills acquired during the training to a concrete project. First information and possible topics of the research project will be introduced during the core module at the beginning of the course (possible topics, arrangements, requirements, marking) and will be followed throughout the whole course. By this way, the participants have sufficient time to choose a theme and to become familiar with the field. The students also get the opportunity to propose own topics and research ideas, for example questions from their individual professional background. Each student will be guided by a personal tutor who will determine or help to define the research question and accompany and support the project throughout the whole process. The students will have three months for the preparation, data collection, analysis and writing. The format and the regulations for subsequent marking of the Master's thesis are described in the study and examination regulations.

The tutors come mainly from the Faculty of Humanities (for social sciences subjects), Faculty of Medicine (for subjects with a focus on health) and Economics and Behavioural Sciences (cost analysis, economic analysis and behavioural change).

Conveners: Prof. S. Dabringhaus (for social sciences topics), Dr. S. Diaz-Monsalve and Prof. A. Kroeger (for public health topics)

#### **Assessment of the master thesis**

As described in the Study and Exam Regulations for the MSc GUH Programme.

#### **Recommended reading**

Reading materials will be discussed with the thesis tutor of each individual participant.

# Annex:

## Lecturers and external experts of the MSc GUH (Master of Science Global Urban Health)

### FACULTY OF HUMANITIES, UNIVERSITY OF FREIBURG

#### **Prof. Dr. Manuela Boatca**

Institute for Sociology  
Rempartstr. 15 (office 4512)  
D-79085 Freiburg  
Manuela.boatca@soziologie.uni-freiburg.de

#### **Prof. Dr. Dr. Franz-Josef Brüggemeier**

Economic-, Social- and Environmental History  
Rempartstr. 15-KGIV, 79085 Freiburg im Breisgau, Germany  
f.j.brueggemeier@geschichte.uni-freiburg.de

#### **Prof. Sabine Dabringhaus**

Department of History, East Asian History  
Rempartstr. 15-KGIV, 79085 Freiburg im Breisgau, Germany  
Sabine.dabringhaus@geschichte.uni-freiburg.de

#### **Prof. Dr. Gregor Dobler**

Institute for Ethnology  
Werthmannstraße 10, 79085 Freiburg im Breisgau, Germany  
gregor.dobler@ethno.uni-freiburg.de

#### **Prof. Dr. Tim Epkenhans**

Orientalisches Seminar (Oriental Studies)  
Platz der Universität 3, 79085 Freiburg im Breisgau, Germany  
tim.epkenhans@orient.uni-freiburg.de

#### **Prof. Dr. Anna Lipphardt**

Research Group Cultures of Mobility in Europe (COME)  
Institute for Cultural Anthropology/ Folkloristics  
Maximilianstr. 15, 79100 Freiburg im Breisgau, Germany  
anna.lipphardt@eu-ethno.uni-freiburg.de

#### **Prof. Dr. Oliver Müller**



Dept. of Philosophy, Cluster of Excellence BrainLinks-BrainTools,  
Bernstein Center Freiburg, Hansastr. 9a  
D-79104 Freiburg / Germany  
Oliver.Mueller@Philosophie.Uni-Freiburg.de

**Prof. Dr. Johanna Pink**

Orientalisches Seminar (Oriental Studies)  
Platz der Universität 3, 79085 Freiburg Freiburg im Breisgau, Germany  
Johanna.pink@orient.uni-freiburg.de

**Prof. Dr. Judith Schlehe**

Institute for Ethnology  
Werthmannstraße 10, 79085 Freiburg im Breisgau, Germany  
judith.schlehe@ethno.uni-freiburg.de

**FACULTY FOR ENVIRONMENT AND NATURAL RESSOURCES,  
UNIVERSITY OF FREIBURG**

**Prof. Dr. Tim Freytag**

Institute of Environmental Social Sciences and Geography  
Werthmannstr. 4, 79085 Freiburg im Breisgau, Germany  
tim.freytag@geographie.uni-freiburg.de

**Dr. Kirsten Hackenbroch**

Institute of Environmental Social Sciences and Geography  
Werthmannstr. 4, 79085 Freiburg im Breisgau, Germany  
Kirsten.Hackenbroch@geographie.uni-freiburg.de

**Prof. Dr. Annika Matissek**

Institute of Environmental Social Sciences and Geography  
Werthmannstr. 4, 79085 Freiburg im Breisgau, Germany  
annika.matissek@geographie.uni-freiburg.de

**UNIVERSITY MEDICAL CENTRE FREIBURG**

**Prof. Dr. rer. nat. Gerd Antes**

Director of Cochrane Germany

Berliner Allee 29 Room 01.021, 79110 Freiburg im Breisgau, Germany

antes@cochrane.de

**Dipl. Psych. Thomas Bay**

Department of Psychosomatic Medicine and Psychotherapy

Center for Medical Health (Department)

Hauptstr. 8, 79104 Freiburg im Breisgau, Germany

thomas.bay@uniklinik-freiburg.de

**Dr. Sonia Diaz-Monsalve**

Center for Medicine and Society

Hebelstr. 29, 79104 Freiburg im Breisgau, Germany

E-Mail: sonia.diaz-monsalve@uniklinik-freiburg.de

**Sam Doerken**

MSc, PhD candidate

IMBI

University of Freiburg

**Priv. Doz. Dr. Jan Gärtner**

Clinic for Palliative Care

Robert-Koch-Straße 3, 79106 Freiburg im Breisgau, Germany

jan.gaertner@uniklinik-freiburg.de

**Dr. rer. nat. Richard Gminski**

Department of Environmental Health Sciences

Breisacher Straße 115b, 79106 Freiburg im Breisgau, Germany

richard.gminski@uniklinik-freiburg.de

**Prof. Hajo Grundmann**

Department of Environmental Health Sciences

Breisacher Straße 115b, 79106 Freiburg im Breisgau, Germany

Hajo.grundmann@uniklinik-freiburg.de

**Prof. Dr. med. Georg Häcker**

Department of Medical Microbiology and Hygiene

Hermann-Herder-Str. 11, 79104 Freiburg im Breisgau, Germany

georg.haecker@uniklinik-freiburg.de

**Prof. Dr. Hartmut Hengel**

Institute of Virology  
Department of Medical Microbiology and Hygiene  
Hermann-Herder-Strasse 11, 79104 Freiburg im Breisgau, Germany  
hartmut.hengel@uniklinik-freiburg.de

**Prof. Dr. Winfried V. Kern**

Division of Infectious Diseases,  
Clinic for Internal Medicine II  
Hugstetter Strasse 55, 79106 Freiburg im Breisgau, Germany  
winfried.kern@uniklinik-freiburg.de

**PD Dr. Mirjam Körner** Dipl.-Psych., Dipl.-Bw. (BA)

Department of Medical Psychology and Sociology  
Hebelstr. 29, 79104 Freiburg im Breisgau, Germany  
mirjam.koerner@mps.uni-freiburg.de

**Dr. phil. Britta Lang, MSc**

Co-coordinator  
Cochrane Germany, Universitätsklinikum Freiburg  
Berliner Allee 29, D - 79110 Freiburg  
lang@cochrane.de

**Dr. Berit Lange**

Division of Infectious Diseases,  
Clinic for Internal Medicine II  
Hugstetter Strasse 55, 79106 Freiburg im Breisgau, Germany  
Berit.lange@uniklinik-freiburg.de

**Dr. med. Johannes Naumann**

Department of Environmental Health Sciences  
Breisacher Straße 115b, 79106 Freiburg im Breisgau, Germany  
johannes.naumann@uniklinik-freiburg.de

**PD Dr. Irina Nazarenko**

Department of Environmental Health Sciences  
Breisacher Straße 115b, 79106 Freiburg im Breisgau, Germany  
Irina.nazarenk@uniklinik-freiburg.de

**Dipl.-Psych. Angelika Sandholz**

Department of Psychosomatic Medicine and Psychotherapy

Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
angelika.sandholz@uniklinik-freiburg.de

**Dr. rer.nat. Dipl.-Psych. Peter Scheib**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
peter.scheib@uniklinik-freiburg.de

**Prof. Dr. Carl E. Scheidt**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
carl.eduard.scheidt@uniklinik-freiburg.de

**Dr. Sabine Schlegel**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
sabine.schlegel@uniklinik-freiburg.de

**Dipl.-Biol. Armin Schuster**

Health of housing  
Department of Environmental Health Sciences  
Breisacher Straße 115b, 79106 Freiburg im Breisgau, Germany  
armin.schuster@uniklinik-freiburg.de

**Dr.phil Elisabeth Waller**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
elisabeth.waller@uniklinik-freiburg.de

**Dr. med. Edda Wetzler-Burmeister**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
edda.wetzler-burmeister@uniklinik-freiburg.de

**Prof. Dr. med. Michael Wirsching**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
michael.wirsching@uniklinik-freiburg.de

**Prof. Dr. Ursula Wittwer-Backofen**

Department of Biological Anthropology  
Hebelstr. 29, 79104 Freiburg im Breisgau, Germany  
ursula.wittwer-backofen@uniklinik-freiburg.de

**Prof. Dr. med. Almut Zeek**

Department of Psychosomatic Medicine and Psychotherapy  
Center for Medical Health (Department)  
Hauptstr. 8, 79104 Freiburg im Breisgau, Germany  
almut.zeek@uniklinik-freiburg.de

## **UNIVERSITY OF FREIBURG, OTHER FACULTIES**

**Prof. Dr. Reinhard Fuchs**

Institute of Sports and Sport Science  
Schwarzwaldstr. 175, 79117 Freiburg im Breisgau, Germany  
reinhard.fuchs@sport.uni-freiburg.de

**Dr. Jörg Lindenmeier**

Wirtschafts- und Verhaltenswissenschaftliche Fakultät  
University of Freiburg  
Joerg.lindenmeier@vwl.uni-freiburg.de

**Geva Peerenboom, Dipl. Forstwirtin**

Wildlife Ecology and Management  
Tennenbacher Str. 4, 79106 Freiburg im Breisgau, Germany  
geva.peerenboom@wildlife.uni-freiburg.de

## **OTHER UNIVERSITIES IN FREIBURG**

**Prof. Dr. Cornelia Helfferich**

Freiburg Protestant University of Applied Sciences

Bugginger Straße 38, 79114 Freiburg im Breisgau, Germany  
helfferich@eh-freiburg.de

**Debora Niermann, M.A.**

Freiburg University of Education  
Kunzenweg 21, 79117 Freiburg i. Brsg., Germany  
debora.niermann@ph-freiburg.de

**Prof. Dr. Albert Scherr**

Migration research  
Freiburg University of Education  
scherr@ph-freiburg.de

**Prof. Dr. Katrin Töns**

Freiburg Protestant University of Applied Sciences  
Bugginger Straße 38, 79114 Freiburg im Breisgau, Germany  
toens@eh-freiburg.de

**Priv. Doz. Dr. J. Wägerle**

Migration research  
Freiburg University of Education

**WHO GENEVA**

**Dr. Graham Alabaster**

PHE Department,  
World Health Organization  
CH-1211 Geneva 27, Switzerland  
alabaster@who.int

**Dr. Txema Callejas**

HIV-AIDS Department  
World Health Organization  
CH-1211 Geneva 27, Switzerland  
callejaj@who.int

**Dr. Carlos Dora**

Director  
PHE Department,  
World Health Organization

CH-1211 Geneva 27, Switzerland  
Dorac@who.int

**Prof. Dr. Axel Kroeger**

Special Programme for Research and Training  
in Tropical Diseases (TDR/WHO), World Health Organization  
CH-1211 Geneva 27, Switzerland  
Center for Medicine and Society University of Freiburg  
Liverpool School of Tropical Medicine, UK  
kroegera@who.int

**Dr. Franco Pagnoni**

Consultant to GMP  
WHO, Geneva  
francopagnoni@hotmail.com

**Dr. Nathalie Roebbel**

PHE Department,  
World Health Organization  
CH-1211 Geneva 27, Switzerland  
roebbeln@who.int

**Dr. Andreas Ullrich**

Coordinator NCDs  
World Health Organization  
CH-1211 Geneva 27, Switzerland  
Ullricha@who.int

**EXPERTS and NGOs in FREIBURG**

**Dr.med. Wener Geigges**

Rehaklinik Glotterbad  
Gehrenstraße 10, 79286 Glottertal, Germany  
w.geigges@rehaklinik-glotterbad.de

**Prof. Dr. Friedrich Hofmann**

Freiburg Research Center for Public and Occupational Health (FFAS)  
Bertoldstr. 63, Freiburg, Germany  
hofmann@ffas.de

**Türkan Karakut**

City council (Migration)  
Friedrich-Ebert Gesellschaft  
Freiburg, Germany  
tuerkan@gmx.de

**Frieder Konold**, Dipl. agr. oec.  
Consultant for food security  
Freiburg, Germany  
efkonold@gmx.de

**Prof. Dr. Andreas Matzarakis**  
Head of Human-Biometeorology  
Deutscher Wetterdienst (German Weather Service)  
Stefan-Meier-Str. 4, 79104 Freiburg im Breisgau, Germany  
andreas.matzarakis@dwd.de

**Dr. Hans Christian Stahl**  
Health Economist  
Waisenmedizin e.v  
Freiburg, Germany  
[hcstahl@gmail.com](mailto:hcstahl@gmail.com)

**Dr. Ulrich Stößel**  
Sociologist of Medicine  
Freiburg Research Center for Public and Occupational Health (FFAS)  
Bertoldstr. 63, Freiburg, Germany  
stoessel@ffas.de

**Dr. Nora Witte**  
Psychiatric Hospital  
Emmendingen, Germany  
nora.witte@web.de

## **EXTERNAL EXPERTS**

**Prof. Jürgen Osterhammel**  
Inst. For History  
Univ. Konstanz  
Juergen.Osterhammel@uni-konstanz.de

**Prof. Dr. Sabine Baumgart**  
Department of Urban and Regional Planning



Faculty of Spatial Planning  
TU Dortmund University  
Sabine.baumgart@tu-dortmund.de

**Dr. Xavier Bosch**

Health Systems Unit  
Swiss Tropical and Public Health Institute  
Socinstrasse 57 PO Box 4002  
Basel, Switzerland  
xboschc@yahoo.es

**Dr. Vicki Doyle**

Independent Consultant  
International Health/ Quality Assurance in Health Care  
NGO and School of Tropical Medicine-Liverpool University  
Liverpool, UK  
vdoyle@aol.com

**Norbert Dreesch, MSc.**

Human Resources (retired)  
World Health Organization  
CH-1211 Geneva 27, Switzerland  
dreeschn@gmail.com

**Dr. Christopher Knauth**

European Commission  
Brussels, Belgium  
Christopher.Knauth@ec.europa.eu  
Christopher.Knauth@eeas.europa.eu

**Prof. Dr. Alexander Krämer**

Faculty for Health Sciences  
University of Bielefeld  
kraemer@uni-bielefeld.de

**Dr. Florian Liberatore (Dreves)**

Health Care Management  
ZHAW School of Management and Law  
Winterthur Institute of Health Economics  
Winterthur, Switzerland  
drev@zhaw.ch

**Jörn Meyer**

Consultant, Urban Development and Transport  
KfW Bankengruppe, LGc2 - Sector and Policy Division Energy, Water,  
Agriculture, Urban Development and Transport  
Palmengartenstraße 5-9  
60325 Frankfurt am Main, Germany  
joern.meyer\_extern@kfw.de

**Prof. Dr. Eberhard Rothfuß**

Professur für Sozial- und  
Bevölkerungsgeographie  
Universität Bayreuth  
eberhard.rothfuss@uni-bayreuth.de

**Dr. Ruth Schumacher**

German Federal Enterprise for International Cooperation  
(Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ))  
Friedrich-Ebert-Allee 36 + 40, 53113 Bonn Germany  
ruth.schumacher@giz.de

**Eduardo A. Alfonso Sierra**

Health Economist  
Carrera 69B, # 25-70 Apt. 401 Int. 2  
Bogotá 110931, Colombia  
Currently: München, Germany  
edalfon@gmail.com