

# Master of Global Health 2021-2022

## Research methods in Global health

September 28<sup>th</sup> – November 5<sup>th</sup>, 2021

Course teachers: Carina King, course leader (CK), Helle Mölsted Alvesson (HMA), Davide Valentini (DV), Mariano Salazar (MS); Tim Colbourn (TC); Kelly Elimian (KE)

Timetable key:

Course intro and assessments	Self-study / group work	Study design	Sampling	Qualitative data collection & analysis	Quantitative data collection and analysis
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\*Mandatory sessions

**Extension lectures** include topics that will not be examined, and cover more in-depth aspects of research methodology.

Week 1	Monday September 27 <sup>th</sup>	Tuesday September 28 <sup>th</sup> <b>Inghesalen*</b>	Wednesday September 29 <sup>th</sup>	Thursday September 30 <sup>th</sup> <b>Inghesalen</b>	Friday October 1 <sup>st</sup> <b>Scheelesalen</b>
Morning 9.00-12.00			<i>Sports day</i>	9.00-9.45: Introduction to quantitative study design (CK) <i>Lecture</i>  10.00-12.00: Ecological and cross-sectional studies (CK) <i>Lecture</i>	9.00-10.00: Cohort studies (CK) <i>Lecture</i>  10.30-12.00: Trials and experimental studies (CK) <i>Lecture</i>
Lunch 12.00-13.00					
Afternoon 13.00-17.00		13.00-14.00: Module introduction (CK)* <i>Lecture and Q&amp;A</i>  14.30-16.00: Defining research questions (CK) <i>Interactive lecture</i>  16.00-17.00: Self-assessment reflection* <i>Self-study</i>	<i>Sports day</i>	13.00-15.00: Case-control studies (CK) <i>Lecture</i>  15.30-17.00: Group exercise on study design (CK) <i>Group work</i>	13.00-14.30: Critical appraisal journal club <i>Small group discussions</i>  15.00-16.00: Quasi-experimental studies (TC) <b><i>Extension Lecture (online)</i></b>

<b>Week 2</b>	<b>Monday</b> October 4 <sup>th</sup> <b>Peter Reichard</b>	<b>Tuesday</b> October 5 <sup>th</sup> <b>Peter Reichard</b>	<b>Wednesday</b> October 6 <sup>th</sup> <b>IN PERSON</b>	<b>Thursday</b> October 7 <sup>th</sup> <b>Peter Reichard</b>	<b>Friday</b> October 8 <sup>th</sup> <b>LOCATION OF CHOICE</b>
Morning 9.00-12.00	9.00-10.00: Introduction to sampling <i>eLecture and exercise</i>	9.00-10.30: Introduction to qualitative methods in health. (HMA) <i>Lecture</i>	9.00-10.30: Qualitative sampling strategies and how to power your sample (HMA) <i>Lecture</i>	9.00-11.00: The individual interview and the role of theory in qualitative studies (HMA) + Instructions on how to conduct your own interview <i>Lecture</i>	Continue to work in groups on developing an interview guide (HMA) <i>Group work</i>
	10.30-12.00: Non-probability sampling (CK) <i>Lecture</i>	11.00-12.00: Study designs in qualitative health research (HMA) <i>Lecture</i>		11.00-12.00 The think-aloud interview Olivia Ernstsson <i>Zoom Lecture</i>	13:00 Submit your draft interview guide on Canvas
Lunch 12.00-13.00			<b>11.00 – 14.00 Hans Rosling Presentation in Aula Medica</b>		<b>12.30-13.45 Brownbag lunch – should you do a trial?</b>
Afternoon 13.00-17.00	13.00-14.30: Probability sampling (CK) <i>Lecture</i>	14.00-16.30: It's a dirty (field)work, but someone needs to do it - Participant observation as a research method in Public Health (Francesca Zanni) <i>Zoom Lecture</i>	14.30-17.00: Conducting an observation in a public space (follow-on from Tuesday). <i>Group work</i>	13.00-17.00: Work in groups on developing an interview guide (HMA) <i>Group work</i>	14.00-17.00: Reviewing your previous design choices (CK) <i>Group work</i>
	15.00-16.00: Cluster and EPI sampling (CK) <i>Lecture</i>	16.30-17.00: Instructions on how to make an observation in public space (HMA) <i>Zoom Lecture</i>			20.00: You will receive feedback on your draft interview guide

<b>Week 3</b>	<b>Monday</b> October 11 <sup>th</sup>	<b>Tuesday</b> October 12 <sup>th</sup> <b>Peter Reichard</b>	<b>Wednesday</b> October 13 <sup>th</sup> <b>Peter Reichard</b>	<b>Thursday</b> October 14 <sup>th</sup> <b>Peter Reichard</b>	<b>Friday</b> October 15 <sup>th</sup> <b>Peter Reichard</b>
Morning 9.00-12.00	All day: Conducting and transcribing your individual interview <i>Self-study</i>	9.00-12.00: Framework analysis (KSA) <i>Lecture</i>	9.00-12.00: Grounded Theory (Madelene Barboza) <i>Lecture</i>	9.00-12.00: Discourse analysis (Susanne Andermo) <i>Lecture</i>	9.00-12.00: Quality measures (HMA) <i>Interactive session</i>
Lunch 12.00-13.00				<b>12.15-13.30: Brownbag lunch: reflexivity outside of qualitative research</b>	
Afternoon 13.00-17.00		13.00-14.30: Qualitative analysis using software (Rosario Alsina) <i>Interactive session</i>	13:00-17:00: Analysis of the individual interviews in groups or individually <i>Group work or self-study</i>	14.00-17.00: Analysis of the individual interviews in groups or individually <i>Group work or Self-study</i>	13.00-17.00 Prepare presentations for Monday <i>Group work or self-study</i>
		15.00-17.00: <i>Self-study</i>			

<b>Week 4</b>	<b>Monday</b> October 18 <sup>th</sup> <b>Peter Reichard *</b>	<b>Tuesday</b> October 19 <sup>th</sup>	<b>Wednesday</b> October 20 <sup>th</sup> <b>Skrivsal Widerstromska*</b>	<b>Thursday</b> October 21 <sup>st</sup> <b>Peter Reichard</b>	<b>Friday</b> October 22 <sup>nd</sup> <b>Peter Reichard</b>
Morning 9.00-12.00	9:00-10.30: Presentation of your observation* (HMA) <i>Mandatory student presentations</i>	Self-study revision	9.30-11.00: Qualitative exam*	9.00-10.30 Conducting surveys and data collection tools (CK) <i>Lecture</i>  11.00-12.00: Designing a survey tool (CK) <i>Exercise</i>	9.00-12.00: Measures of association, prevalence and incidence (DV) <i>Lecture</i>
Lunch 12.00-13.00					
Afternoon 13.00-17.00	13.00-16.00: Presentation of your qualitative analysis <i>Mandatory student presentations</i>  Lessons learned on qualitative analysis (HMA) <i>Interactive reflections</i>	Self-study revision	13.00-17.00: Installing Stata and Stata exercises  <i>Self-study</i> <i>Note CK will be available for trouble-shooting between 13.00 and 14.30.</i>	13.00-14.30: Descriptive statistics - types of data and summary measures (DV) <i>Lecture</i>  15.00-16.30: Introduction to Stata (CK) <i>Interactive lecture and self-study</i>	13.00-15.00: Exam marking and peer-to-peer feedback (HMA) <i>Interactive session</i>  15.30-17.00: Data cleaning and getting familiar with Stata <i>Self-study</i>

<b>Week 5</b>	<b>Monday</b> October 25 <sup>th</sup> <b>Karolina</b>	<b>Tuesday</b> October 26 <sup>th</sup>	<b>Wednesday</b> October 27 <sup>th</sup> <b>Franklin</b>	<b>Thursday</b> October 28 <sup>th</sup> <b>Samuelssonsalen</b>	<b>Friday</b> October 29 <sup>th</sup>
Morning 9.00-12.00	9.00-12.00: Central limit theorem and the sampling distribution (DV) <i>Lecture</i>	9.00-12.00: Hypothesis testing (DV) <i>Zoom Lecture</i>	9.00-12.00: Comparing two means (t-tests) (DV) <i>Lecture and facilitated computer exercises</i>	9.00-12.00: Comparing two proportions (chi2 and fishers tests) (DV) <i>Lecture and facilitated computer exercises</i>	9.00-12.00: Exercises using Stata (DV) <i>Facilitated computer exercises (Zoom)</i>
Lunch 12.00-13.00					<b>12.30-13.30 Brownbag lunch – the value of p-values</b>
Afternoon 13.00-17.00	13.00-16.00 Confidence intervals and the concept of statistical significance (DV) <i>Lecture</i>	13.00-14.00 Listen to podcast <i>Self-study</i>  14.00-17.00 Course reading and self-study <i>Self-study</i>	13.00-16.00: Linear regression (DV) <i>Lecture and facilitated computer exercises</i>	13.00-16.00: Logistic regression (DV) <i>Lecture and facilitated computer exercises</i>	14:00-15:00: Power, precision and bias <i>Self-study eLecture and exercise</i>  15:00-17.00: Reading on confounding and bias <i>Self-study</i>

<b>Week 6</b>	<b>Monday</b> November 1 <sup>st</sup> <b>David</b>	<b>Tuesday</b> November 2 <sup>nd</sup> <b>David</b>	<b>Wednesday</b> November 3 <sup>rd</sup>	<b>Thursday</b> November 4 <sup>th</sup>	<b>Friday</b> November 5 <sup>th</sup> <b>Skrivsal Widerstronska*</b>
Morning 9.00-12.00	9.00-12.00: Bias, confounding and effect modifiers (DV) <i>Lecture</i>	9.00-12.00: Adjusting for effect modifiers (DV) <i>Lecture and facilitated computer exercises</i>	9.00-12.00: Overview of mixed-methods research (MS) <i>Zoom lecture and exercises</i>	Self-study revision  <i>Note: CK will be available online for Q&amp;A during this time period^</i>	9.30-11.30: Quantitative examination*
Lunch 12.00-13.00					
Afternoon 13.00-17.00	13.00-16.00: Adjusting for confounding (DV) <i>Lecture and facilitated computer exercises</i>	13.00-15.00: Sensitivity and specificity (KE) <b><i>Extension Lecture</i></b>  15.00-17.00 Self-study revision	Self-study revision	Self-study revision	14.00-16.00 Student reflection exercise and feedback* <i>Self-study</i>

^Students need to submit questions to the Q&A forum before this session so we can use the time effectively