

<b>Course Title</b>	<b>POPG5014 Research Methodology for Disaster and Medical Humanitarian Response</b>
<b>Module Coordinator</b>	Prof. May PS Yeung (may.yeung@cuhk.edu.hk)
<b>Credits</b>	2
<b>Time</b>	8 x 3 hour lectures, which included 7 hours online course
<b>Description</b>	<p>Participants will receive technical training in research study to address public health needs of populations affected by catastrophic events and in resource-poor settings. On completing the course, the participants will understand the principles of planning, implementing, and disseminating research in the context of disaster and humanitarian settings. It aims to show how public health and research principles can be applied.</p> <p>For MPH students only: Prerequisite: EPID5001; Recommended: POPG5006 and BIOS5001</p>

## I. Content

<b>Topic</b>	<b>Contents/fundamental concepts</b>
<b>Introduction to research in disasters and humanitarian settings</b>	<ol style="list-style-type: none"> <li>1. A brief history of disaster in the past decades</li> <li>2. Measuring health impacts of disasters</li> <li>3. Research in different phases of a disaster cycle</li> <li>4. Challenges and limitations of research on disasters</li> <li>5. Definitions of concepts and terms: hazards, risk, disaster and vulnerability</li> </ol>
<b>Research preparation &amp; planning</b>	<ol style="list-style-type: none"> <li>1. Choosing a suitable research design</li> <li>2. Review of pros and cons different methodologies and review of critical appraisal of past research</li> <li>3. Ethical and cultural considerations in the field</li> <li>4. Formulating quantitative research questions and hypothesis</li> </ol>
<b>Quantitative field research methods for needs assessment and surveillance</b>	<ol style="list-style-type: none"> <li>1. Field-based sampling methods and limitations and practical guidelines</li> <li>2. Data collection from the field and disaster databases</li> <li>3. Quick review of statistics</li> <li>4. Data management, analysis and interpretation</li> <li>5. Introduce other approaches: health needs assessment (HNA), rapid needs assessment, health impact assessment (HIA), and ongoing surveillance methods used during different stages of the disaster cycle</li> </ol>
<b>Qualitative research</b>	<ol style="list-style-type: none"> <li>1. Introduction to qualitative research</li> <li>2. Design data collection and analysis methods</li> <li>3. Use of qualitative approaches by different disciplines in disaster settings, e.g. anthropology, sociology, psychology etc.</li> </ol>
<b>Disseminate and apply research result</b>	<ol style="list-style-type: none"> <li>1. Apply research results to interventions to improve health</li> <li>2. Report writing for stakeholders and sharing results with decision-makers</li> <li>3. Publishing and publicly presenting research results</li> <li>4. Prepare funding proposals</li> </ol>

## II. Learning Outcomes or Objectives of the Course

Upon completion of the course, students should be able to:

1. Gain knowledge about health risk, impact and outcomes associated with various types of disasters.
2. Understand the rationale and able to identify gaps of research in disaster and humanitarian settings.
3. Acquire the skills to plan, prepare, implement, monitor and evaluate research to examine health impacts of disasters and conflicts; taking into account ethical issues and the context.
4. Comprehend research techniques and able to critically appraise research literature related to disaster and humanitarian settings.

5. Understand the requirements to publish and disseminate research findings to various levels of audience.

#### IV. Course Schedule

Term :II

Session	Date	Hrs	Topic	Format	Lecturer & Tutors (T)	Venue	Requirements or HW
1	23 Jun 2018 (Sat)	9:00-11:00am 2 + (1) hr	Research preparation and planning	Lecture and tutorial	May Yeung	TBC	Online Course chapter
2	23 Jun 2018 (Sat)	11:00-1:00pm 2 + (1) hr	Quantitative Research (1)	Lecture	May Yeung	TBC	
3	23 Jun 2018 (Sat)	2:00-4:00pm 2 + (1) hr	Quantitative Research (2)	Lecture and tutorial	May Yeung	TBC	
4	23 Jun 2018 (Sat)	4:00-6:00pm 2 + (1) hr	Qualitative study	Lecture and tutorial	May Yeung	TBC	
5	3 Jul 2018 (Tue)	9:00-11:00am 2 + (1) hr	Research in Disasters and Humanitarian Settings	Lecture	May Yeung	TBC	
6	3 Jul 2018 (Tue)	11:00-1:00pm 2 + (1) hr	Dissemination and application of research (1)	Lecture and tutorial	May Yeung	TBC	
7	3 Jul 2018 (Tue)	2:00-4:00pm 2 + (1) hr	Dissemination and application of research (2)	Lecture and group work	May Yeung	TBC	
8	4 Jul 2018 (Wed)	9:00-12:00nn 3 hr	Research proposal presentation	Student presentation	May Yeung	TBC	

(bracket) denotes time for online course teaching and exercise

- Proposed examination date on 9 July 2018 (90 minutes)

#### V. Assessment

Individual proposal (20%) / group presentation (30%) / written examination (50%)

**\*\*Assessments are optional for external students.**

#### VI. Learning Resources for Students

<b>Essential reading</b>	1. Online Course - Research Methodology for Disaster and Medical Humanitarian Response <a href="http://ccouc.org/online-course-research-methodology-for-disaster-and-medical-humanitarian-response">http://ccouc.org/online-course-research-methodology-for-disaster-and-medical-humanitarian-response</a>
<b>Recommended readings or resources</b>	2. CHAN EYY (2017). Public health humanitarian responses to natural disasters. 1 <sup>st</sup> Edition. New York, Routledge. pp 27-80 3. Jacobsen KH (2012). Introduction to health research methods: A Practical Guide. 1st Edition. Sudbury, Mass. Jones & Bartlett Learning, pp 33-36 4. Stallings R.A (2003). Methods of Disaster Research. Xlibris

<b>Further readings</b>	<p>5. Geraint Lewis, Jessica Sheringham, Jamie Lopez Bernal, Tim Crayford. Section 1 Research Methods. In <i>Mastering Public Health: A Postgraduate Guide to Examinations and Revalidation</i>, Second Edition, 2014, CRC Press, pp1-161.</p> <p>6. ACAPS. Qualitative and Quantitative Research Techniques for Humanitarian Needs Assessment: An Introductory Brief. Available at <a href="http://reliefweb.int/sites/reliefweb.int/files/resources/qualitative_and_quantitative_research_techniques.pdf">http://reliefweb.int/sites/reliefweb.int/files/resources/qualitative_and_quantitative_research_techniques.pdf</a></p>
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**VII. Teaching Staff (Teacher & TA inclusive)**

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**VIII. Channels for Feedback for Evaluation**

<p>Evaluation form or online evaluation will be available to students in the before the first and the last lecture.</p> <p>CCOUC online course enrolment survey to participants.</p>
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