IRDR International Centre for Excellence: CCOUC Expression of Interest

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30 November 2016











BACKGROUND







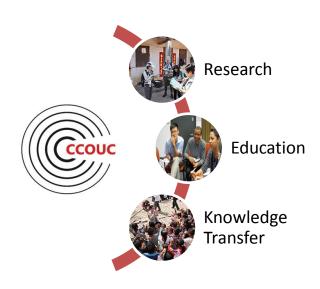




Collaborating Centre for Oxford University and The Chinese University of Hong Kong for Disaster and Medical Humanitarian Response (CCOUC)

- Established in 2011
- Mission to serve as a platform for research, education, and community knowledge transfer in the areas of disaster and medical humanitarian crisis policy development, planning and response.















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Health and Disaster Risk Reduction

- Human health impact of disasters makes disasters devastating
 - Physical, mental, social well-being
 - Health as wellbeing and not merely absence of disease
- Previous focus on disaster medicine and clinical care
- Public health: population-wide strategies to minimise the negative health impacts of disasters
 - Disaster preparedness
 - Building community health resilience
- Health-DRR: using public health methodologies to establish the evidence-base for effective health-DRR policy and practice
- Attempts to integrate or mainstream health in DRR still limited











Health as an OUTCOME and a GOAL of Sendai Framework

- **18**. To support the assessment of global progress in achieving the outcome and goal of the present Framework, seven global targets have been agreed. These targets will be measured at the global level and will be complemented by work to develop appropriate indicators. National targets and indicators will contribute to the achievement of the outcome and goal of the present Framework. The seven global targets are:
 - (a) Substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020–2030 compared to the period 2005– 2015:
 - (b) Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 in the decade 2020–2030 compared to the period 2005–2015;9
 - (c) Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030;
 - Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030;
 - (e) Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020;
 - (f) Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of the present Framework by 2030;
 - (g) Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to people by 2030.









Collaborating Centre for Oxford University and CUHK for Disaster and Medical Humanitarian Response CCOUC 災害與人道救援研究所

Organisational Structure

- Medicine
- Nursing
- Public health
- Nutrition
- Public policy
- Communications
- Geography & resource management
- Int'l relations
- Political & social science

Advisory Committee (experts from University of Oxford & The Chinese University of Hong Kong)



Centre Director (Professor)





Assistant Director



Research Associate



Academic Manager



































SCIENTIFIC RESEARCH











Climate Change and Health

- Research in collaboration with different departments of Hong Kong Government
 - Hong Kong Census and Statistics / HK Hospital Authority / Hong Kong
 Observatory
- Health Impact Modelling (mortality and morbidity)
- Knowledge, Attitudes & Practice
 - HK temperature warning system / help and information seeking behavior and patterns / health and environmental friendly co-benefits studies
- Development of Heat Index (HKHI)
- Hot and Cold Temperature Warning Study











Temperature Health Impact in Hong Kong

Hot Season

Mortality ↑ by 1.8% for every increase of 1°C above 28.2 °C

Death

Cold Season

Cumulative mortality* ↑ by 3.8% for every decrease of 1°C

Hospital admissions ↑ by 4.5% for every increase of 1°C above 29 °C

Hospital admission

Hospital admissions \uparrow by 1.4% for every decrease of 1°C within the 8.2-26.9°C range

> 2% Required medical care 95% Professional Medical Health (Western 70.0%/Chinese 25.0%) 5% Self-Care only

1.9 % Heatstroke

Help-seeking e.g. Clinic attendance

Mild symptoms and Discomfort

12.7% Required medical help 82% Professional medical help 18% Self-care only

66.9% Have symptoms

88.4% reported changes

Behavioral changes#

67.1% reported changes

* Cumulative mortality is used because the lagged effect of coldness towards mortality is estimated to be 3 weeks. # Behavioral changes include amount of physical activity, appetite, frequency of social activity, mood and sleeping quality











Disaster Risk Perceptions

- Sendai Framework: understanding disaster risk
- Studies according to different social, economic, ethnic and cultural demographics

Socio-demographic Predictors for Urban Community Disaster Health Risk Perception and Household Based Preparedness in a Chinese Urban City

JUNE 27, 2016 · RESEARCH ARTICLE

Print or Save PDF	4499 Citation	<u>▼</u> XML	Email	У Tweet	Like 39
REVISIONS					
This article is either a revis Edition 1 - June 27, 2016	ed version or has	s previous revisions	i		
AUTHORS					
Emily YY Chan Janice Yu	e Poyi Lee Sus	san Shuxin Wang			
■ABSTRACT					

Objectives: There is limited evidence on urban Asian communities' disaster risk perceptions and household level preparedness. Hong Kong is characterized by high population density, and is susceptible to large-scale natural disasters and health crises such as typhoons, fires and infectious disease outbreaks. This research paper investigates the rates and predictors of urban community disaster risk perception, awareness and preparedness, at individual and household levels.

Methods: A randomized cross-sectional, population-based telephone survey study was conducted among the Cantonese-speaking population aged over 15 years in Hong Kong. Descriptive statistics were reported. A



BRIEF COMMUNICATION

Travel Health Risk Perceptions and Preparations Among Travelers at Hong Kong International Airport

Funding Information

Journal of TRAVEL MEDICINE

View issue TOC Volume 21, Issue 4 July/August 2014 Pages 288-291

Abstract

Four levels of pre-travel health preparations were defined to allow the measurement of general travel health preparations by the traveling public. A cross-sectional survey of 770 travelers using Hong Kong International Airport was conducted. Important gaps were found in the self-preparation domain. Length of travel was the only factor associated with

Human Health Security

Population preparedness in relation to pandemic



Vaccine

Volume 33, Issue 38, 11 September 2015, Pages 4737-4740



Brief report

Willingness of future A/H7N9 influenza vaccine uptake: A cross-sectional study of Hong Kong community

Emily Ying-Yang Chan ♣ · ➡, Calvin Ka-Yeung Cheng, Greta Chun-Huen Tam, Zhe Huang, Po Yi Lee

■ Show more

http://dx.doi.org/10.1016/j.vaccine.2015.07.046

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Abstract

We conducted a population telephone survey in Hong Kong during the second wave of influenza A/H7N9 outbreak in 2014. Among the respondents, 50.5% of the respondents would like to accept A/H7N9 vaccination in future. Respondents had poor knowledge of A/H7N9 influenza and vaccines. More than 60% of respondents mixed up seasonal.









Disaster Case Studies of Asia Pacific Region

- Since early 2011
- To document the disaster experiences of medical practitioners and the public
- Research Methodology literature review, stakeholder interviews, retrospective data analysis
- Follow UNISDR 2005 Hyogo Framework Template & the standardized approach in reporting on health crises and critical health events

SPECIAL REPORT

The proposed guidelines for a common structure for reports on health crises

and critical health events are an attempt of capturing the experiences gained

and a further step for promoting a standardized methodology for sharing

results and experiences. Such a common and standardized approach will facilitate the analysis and comparison of findings in order to improve preparedness

planning and response and advance international collaboration and learning. If future reporting follows common standards, then the documented findings

would be comparable and could be used to learn and apply lessons within an

individual field of activity and to apply those lessons learned also to other

related preparedness activities. It could also facilitate the implementation of

mon report structure, pilot testing to evaluate their applicability and useful-

ness is suggested. The pilot testing should be followed by an extensive review process. The guidelines should be supplemented further with determinants

and indicators when the guidelines are used for in depth reporting to evaluate

crists response operations. The development of indicators should be in line with already existing international references and guidelines and other related activities like the Sphere Project* or the framework developed for the Tsunami Recovery Impact Assessment and Monitoring System (TRIAMS) intitative.⁶

Globally applied tools, such as the Inttal Rapid Assessment tool (IRA)2 developed by the UN Interagency Standing Committee's (IASC)—Global Health Cluster, the UN Post-Disaster Needs Assessment (PDNA), and UN Post-Conflict Needs Assessment (PCNA) have been consulted during the

Joint activities and Joint reports involving different sectors.

preparation of this document and basic principles were integrated. Following this initial attempt to propose common guidelines for a com-

Guidelines for Reports on Health Crises and Critical Health Events

Per Kulling, MD;1 Marvin Birnbaum MD, PhD;2 Virginia Murray, FRCP;3 Gerald Rockenschaub, MD, MPH4

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This publication has been sponsored by the EU project "Support health security, preparedness lanning and crisis management in EU, EU nsion and neighbouring (ENP) countries-Health security in the European Region (2008) WHO-EURO² and the World Association of Disaster and Emergency Medicine

Keywords: critical health event; disaster;









Disaster Case Studies of Asia Pacific Region





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CCOUC 货售與人達教授研究所

Other Research

- Disaster Information and Resource Digital Hub
- Operational research
 - Field-based activities: needs assessments and intervention evaluation
- Policy and technical advisory support
 - 10 policy brief commitment
- Commentary



Collaborating Centre for Oxford University and CUHK for Disaster and Medical Humanitarian Response (CCOUC), The Chinese University of Hong Kong

Policy Brief
October 2015





The Chinese University of Hong Kong
Policy Brief

















Future Research Initiatives

- Country comparisons of global DRR practices and strategies
 - 'Grab bag' and integration of DRR into secondary school curriculums
- Disaster risk perceptions
 amongst vulnerable sub groups in rural and urban
 areas in Nepal and Bhutan
- Disaster health risk literacy in the Himalayas: comparative study

Australasian Journal of Disaster and Trauma Studies

Volume 20, Number 1

Accredited qualifications for capacity development in disaster risk reduction and climate change adaptation

Sarah L Hemstock¹ ;Leigh-Ann Buliruarua²; Emily YY Chan³; Gloria Chan³; Helene Jacot Des Combes²; Peter Davey⁴; Paul Farrell⁵; Sian Griffiths⁰; Henning Hansen¹; Tim Hatch⁰; Ailsa Holloway⁰; Teuleala Manuella-Morris¹⁰, Tess Martin¹¹; Fabrice G. Renaud¹²; Kevin Ronan¹³; Benjamin Ryan¹⁴; Joerg Szarzynski¹⁵; Duncan Shaw¹⁰; Soichiro Yasukawa¹¹; Tiffany Yeung¹⁰; Virginia Murray¹⁰

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- Chinese University of Hong Kong, Hong Kong, China.
- Griffith University, Brisbane, Australia.
- World Association of Disaster and Emergency Medicine, Madison, USA.
- 8 Healthcare UK London, United Kingdom.
- International Federation of Environmental Health, London. United Kingdom.
- 8 Alabama Department of Public Health, Montgomery, USA
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- ¹³ Central Queensland University, Rockhampton, Australia.
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- 15 United Nations University, Bonn, Germany.
- 18 The University of Manchester, Manchester, United Kingdom.
- ¹⁷ United Nations Educational, Scientific and Cultural Organization, Paris. Switzerland.

Abstract

Increasingly practitioners and policy makers working across the globe are recognising the importance of bringing together disaster risk reduction and climate change adaptation. From studies across 15 Pacific island nations, a key barrier to improving national resilience to disaster risks and climate change impacts has been identified as a lack of capacity and expertise resulting from the absence of sustainable accredited and quality assured formal training programmes in the disaster risk reduction and climate change adaptation sectors. In the 2016 UNISDR Science and Technology Conference on the Implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030, it was raised that most of the training material available are not reviewed either through a peer-to-peer mechanism or by the scientific community and are, thus, not following quality assurance standards. In response to these identified barriers, this paper focuses on a call for accredited formal qualifications for capacity development identified in the 2015 United Nations landmark agreements in DRR and CCA and uses the Pacific Islands Region of where this is now being implemented with the launch of the Pacific Regional Federation of Resilience Professionals, for DRR and CCA. A key issue is providing an accreditation and quality assurance mechanism that is shared across boundaries. This paper argues that by using the United Nations landmark agreements of 2015, support for a regionally accredited capacity development that ensures

Research Outputs

- To date, CCOUC members have published over 200 publications
 - Journal articles, international academic conference abstracts, policy briefs, training manuals)
- CCOUC has actively participated in over 60 international academic and United Nations conferences
 - Oral and poster presentations, delivering keynote speeches, participating on panel discussions, organising health-DRR thematic sessions and side events











OTHER ACTIVITIES











Education and Training

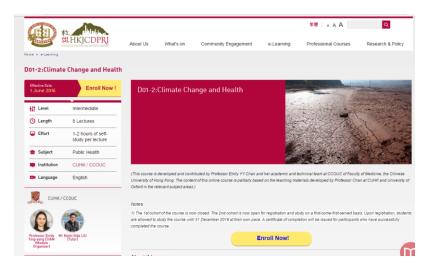
Accredited Masters-level courses

- Disaster and medical humanitarian crisis
- Climate change and health
- Health and human security
- Risk communications
- Disaster research methodologies
- Food security

Online courses

- Public health principles in disaster and medical humanitarian response
- Climate change and health
- Research methods
- Sendai Framework principles and practices















Education and Training

- Certificate courses
 - Research methodology in disaster and medical humanitarian response
- Technical trainings and workshops
 - Topics include: Sendai Framework / SDGs / Sphere Project etc.
 - To gov't departments & civil society organisations in Hong Kong, China, Nepal, Bhutan and DPRK
- Train-the-trainer programmes
- Training manuals
- Fellowship Opportunities

















Community Knowledge-Transfer

- Strengthening community resilience toward disasters through contextualised interventions
- Locations:
 - Greater China (Ethnic Minority Health Project)
 - Nepal
 - Asia-Pacific Region





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Foci of Training

























Carried Disaster Preparedness Kit

Water & Sanitation

- Soap
- Towel
- 1.5L Water Bottle





Food & Nutrition

- Nonperishable Food
- √ Food guidelines for people with NCD





Shelter & Clothing

- Emergency Blanket
- Torch
- Multiplepurpose Knife
- Fire-starter





Health Services

- First Aid drugs
- Picture of current medications
- Guide on First Aid and ORS preparation





Information& Communication

- Whistle
- Family Portrait
- ✓ Copy of **Identity Card**
- Emergency contact information





Basic Requirements for Health



The Chinese University of Hong Kong







Contribution to International Platforms

UNISDR & Sendai Framework

- Third UN World Conference on DRR (Sendai, March 2015)
- UNISDR Science & Technology Conference (Geneva, Jan 2016)
- International Conference on the Implementation of the Health Aspects of the Sendai Framework (Bangkok, March 2016)
- Asia Science & Technology Conference (Bangkok, Aug 2016)
- Asian Ministerial Conference for DRR (New Delhi, Nov 2016)
- Global Platform for DRR 2017 (Cancun, May 2017)

Panel discussions, ignite stage, poster presentations, thematic sessions, side events, rapporteur





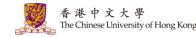






Contribution to International Platforms

- ✓ UNISDR Asia Science Technology and Academia Advisory Group (ASTAAG, May 2015)
- **✓ WHO Thematic Platform for Health Emergency & Disaster Risk Management Research Group** (WHO-HEDRM, Sep 2016)
- Provide expert advice and technical support to WHO and other UN agencies and partners in EDRM-H research and evidence-related activities for the implementation of Sendai Framework
- CCOUC as Secretariat
- Members coming from:
 - CCOUC
 - UNISDR STAG
 - WHO Emergency Risk Management and Humanitarian Response / Kobe Centre
 - Tehran University of Medical Sciences
 - Geneva University Hospitals
 - Canterbury District Health Board, New Zealand
 - Monash University





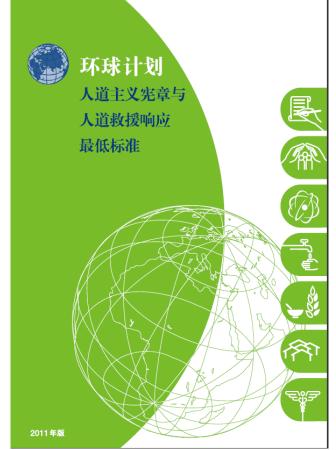






Contribution to International Platforms

CCOUC appointed the Sphere Country
 Focal Point (health) for China in August
 2014 to promote internationally
 recognized minimum standards in
 humanitarian response for the Geneva based Sphere Project













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CCOUC Network

Local

National

International

Academic







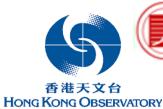


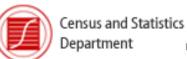






Government & Agencies





教育局

















Education Bureau









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STRATEGIC PLAN











Integrated Research Approach to DRR

- CCOUC will continue to integrate the strengths of other academic disciplines into its DRR and climate change research
- It will apply for funding for research projects
 - Projects will seek to understand disaster risk using a transdisciplinary approach









Develop and strengthen powerful partnerships with UN Agencies

- CCOUC will continue to engage with various UNISDR platforms from a technical (S&T, health), regional (Asia) and global level toward Sendai Framework
- The WHO Research Group provides opportunity to work with other UN agencies in the field of health-DRR
- CCOUC's ongoing contributions at international UN technical and academic conferences provide opportunities to strengthen these partnerships









International Centre for Support

- Based in Hong Kong, CCOUC is well placed to be an international centre of support to various components of IRDR's work
- CCOUC is already impacting policy and providing technical advice for decision-making
- CCOUC can promote and disseminate the results of DRR research in its wide network of local, national, regional and international partners
- It can support the professional development of DRR researchers and practitioners through Faculty and fellowship exchange schemes











Vision to Develop IRDR ICoE

- Thematic focus on health and community disaster resilience
- Role of centre: coordinate and encourage all relevant local, regional and international stakeholders to mainstream health in DRR activities
 - Would serve as an international thematic hub
 - Build on momentum generated within Sendai Framework to continue prioritising DRR-health as an area of focus
- Other roles: mobilise others, provide technical cooperation, build capacity, disseminate latest research findings and best practices











Funding and Other Support

- Since its establishment in 2011, CCOUC has accumulated over 8 million USD in grants and funding
 - From academic institutions, government-funded grants and private donations
- Situated within The Chinese University of Hong Kong, it hosts fully equipped office space with the seating capacity for 20-25 staff
- It will provide limited support for scholars to come to Hong Kong to undertake research attachments with the centre









Thank you!

www.ccouc.org









