First Annual Student Symposium

Dahdaleh Institute for Global Health Research

Wednesday April 17th, 2019 Dahdaleh Institute for Global Health Research Offices, York University

Mikaela Maquiling

Events & Communications Assistant

Key Tasks

- Coordinate project milestones
- Organize & lead event volunteers
- Attendee interfacing
- Event set-up & teardown
- Develop event logistics & project management process documents for future events
- Develop and sketch visual language of the Dahdaleh Institute
- Photograph headshots of Dahdaleh Institute researchers, staff and students and use Photoshop to prepare for website





Foresighting

Researchers



Byomkesh Talukder

Research Fellow, Planetary Health

Headshots



Carol Devine Community Scholar, Health, Environment & Climate Change

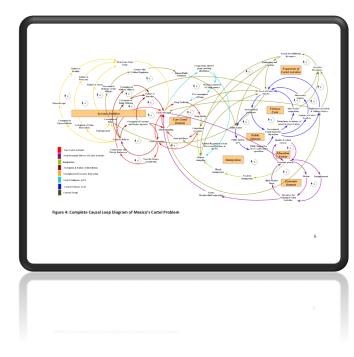
Shubhdeep Nagi

Communications Assistant

Key Tasks

- Assist in preparation for Health Emergency Data Science International Workshop
- Use Airtable to develop a comprehensive list of contacts in the world of global health research
- Research strategies to create complex causal loop maps for Planetary Health projects

Causal Loop Map example



Eileen Mae Santiago

Graphic Communications Assistant

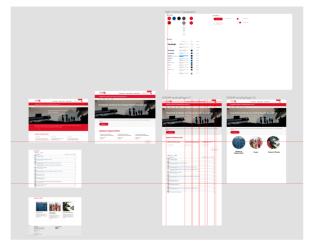
Key Tasks

- Create a travel guide document for travelers visiting our office
- Graphically design poster presentation to communicate the research behind Safe Water Optimization Tool
- Work in HTML and CSS & designed mockups to support website re-design

Research Summary

New Evidence Chlorination In	Humanitaria		Médecins Bans Frontières, Amsterdam, The Netherlands & Dahdaleh Institute of Global Health Research, York University, Toronto, Canada
A Problem	Solution	CHLORINATION	Guidance Note for Field Workers
Chlorination is the most	LOCAL SITE CONDITIONS RECOMMENDATION		Responses -
widely used method for water	Temperature Conditions*	FRC at Tapatand Length of Protection	Using these new
treatment in emergencies.	Hot (+30°C) Peor	1.1 - 1.3 mpl. 12 hours	quidelines entails
Current guidance states:	Hot (+30°C) Good Moderate (20-30°C) Poor	0.8 - 1.3 mpt. 24 hours 0.6 - 0.8 mpt. 24 hours	no additional work
	Moderate (20-30°C) Poor Moderate (20-30°C) Good	0.6 - 0.8 mpl, 24 hours 0.4 - 0.5 mpl, 24 hours	for field teams Scan here for lin
Free residual chlorine (FRC) at points of distribution: 0.2 - 0.5 mg/L under normal conditions 0.5 - 1.0 mg/L during outbreaks or when pH or turbidity are elevated	How to Use: Look up the local temperature and WASH conditions of your site in the left two columns.		
	Follow the row to th	e right to see how	Next: Safe Water
However, these guidelines are not based on any field evidence from emergency settings and often fail to ensure water safety.	much free residual of should deliver at the distribution.	chlorine (FRC) you	What would be ideal is to have a unique water treatment guideline for every site. We can do this now:
1	Implement this FRC		<u> </u>
🔂 Response	The recommended		×
MSF and partners carried engineering research in refugee camps in South Sudan, Jordan, Rwanda, and Tanzania to solve this problem.	provide adequate protection (0.2 mg/L) at the point of consumption in peoples' shelters for the maximum duration given in the rightmost column.		
	HH Water Safety effectiveness of existing guidelines	15-50%	
	HH Water Safety effectiveness of New Guidelines	> 70-	For more info, you can reach me at
March 1 The American Street Street			Shrunzan OBerlecky 🖤 🔤 NORK

Website Mockups



Ameen Al-Gailani

Special Projects Assistant, Backend

Key Tasks

• Assess the technical performance of different Natural Language Processing (NLP) techniques for transcribing and translating qualitative survey responses

Model of NLP Use in Humanitarian Setting

Understanding affected populations with NLP



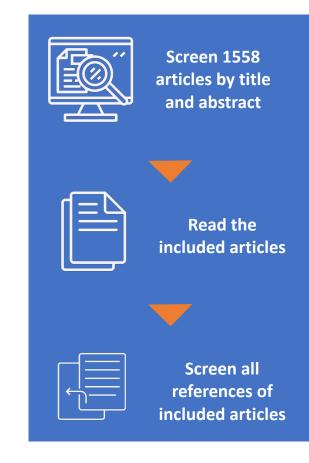
Quantitative & Qualitative Population surveys, key informant interviews, focus group discussions, qualitative interviews, feedback hotlines, etc.

Sayo Falade & Tanya Narang

Global Health & Humanitarianism Research Assistants Literature Review Process

Key Tasks

- Conducted Systematic Literature Review to support Chemical Water Quality (CWQ) & Malnourished Child Health project
- Screened 1558 articles
- Took notes & wrote summary of Expert Panel workshop on CWQ
- Conducted scoping review of grey and published literature, including knowledge synthesis and gap analysis, to support the development of a research programme on health and humanitarian response



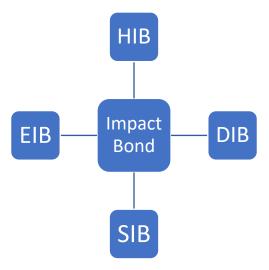
Dolev Yissar & Bryan Yau

Global Health Foresighting Research Assistants

Key Tasks

- Research blended finance mechanisms to support Alternative Finance Mechanisms in Global Health project
- Document case studies of Impact Bonds to assess their impact and viability





Clockwise: Humanitarian Impact Bonds (IB), Developmental IB, Social IB, Environmental IB

Fatima Sayedi

Planetary Health Assistant

Key Tasks

- Conduct research on health impacts of climate change on smallholder farmers
- Assess regional differences in health impact

Summary of Major Findings

- Major economical impacts on crop yield and livestock productivity
- Ecosystem degradation and loss → urbanization
- Increase frequency and intensity, reduce predictability, and change spatial distribution of extreme climatic hazards
- Direct and indirectly affects mental, social, and physical health