

Shelter & Health Learning Day

14th May 2020

Introduction: background and objectives of the day, the Global Burden of Disease, connections between shelter and health, self-recovery, knowledge and evidence gaps. Sue Webb. CENDEP Niall Roche. Environmental health consultant Bill Flinn. CARE International Jamie Richardson. Catholic Relief Services (CRS) Fiona Kelling. Humanitarian shelter consultant Enrique Sevillano Gutiérrez. CRAterre Panel 1. Physical health issues related to shelter/housing Facilitator: Bill Flinn (CARE International) Lucy Tusting. London School of Hygiene and Tropical Medicine Elizabeth Berryman. Save the Children South Sudan Andy Bastable. Oxfam Jenny Lamb. CRS Panel 2. Measuring and mitigating health impacts in a variety of housing/shelter settings. Facilitator: Charles Parrack (CENDEP) Emily Nix. University College London and Liverpool University Sarah Ruel Bergeron. ARCHIVE Global Ronita Bardhan. University of Cambridge Samuel Cai. University of Oxford

Welcome from Professor Cathrine Brun, Director of CENDEP, Oxford Brookes University

Facilitator: Beth Simons (CARE International) Panel 3. Mental health issues related to shelter/housing in disasters and conflict. Jamie Richardson and Melissa Tucker, CRS Olivia Nielsen. Miyamoto International Guglielmo Schininà. International Organization for Migration (IOM) Jill Baumgartner. McGill University and Imperial College, London

Panel 4. Game-changing crises? The implications of COVID-19 and the climate emergency for shelter, housing and health. Facilitator: Ilan Kelman. University College London

Cathrine Brun (CENDEP) Cecilia Schmölzer. International Federation of Red Cross and Red Crescent Societies

Brett Moore. The United Nations Refugee Agency (UNHCR)

Niall Roche. Environmental health consultant

What have we learnt? What are the gaps? What are the next steps?

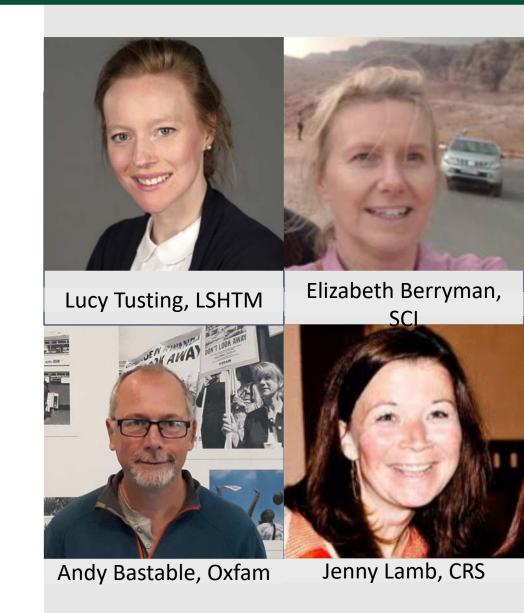
Breakout group discussions involving all participants

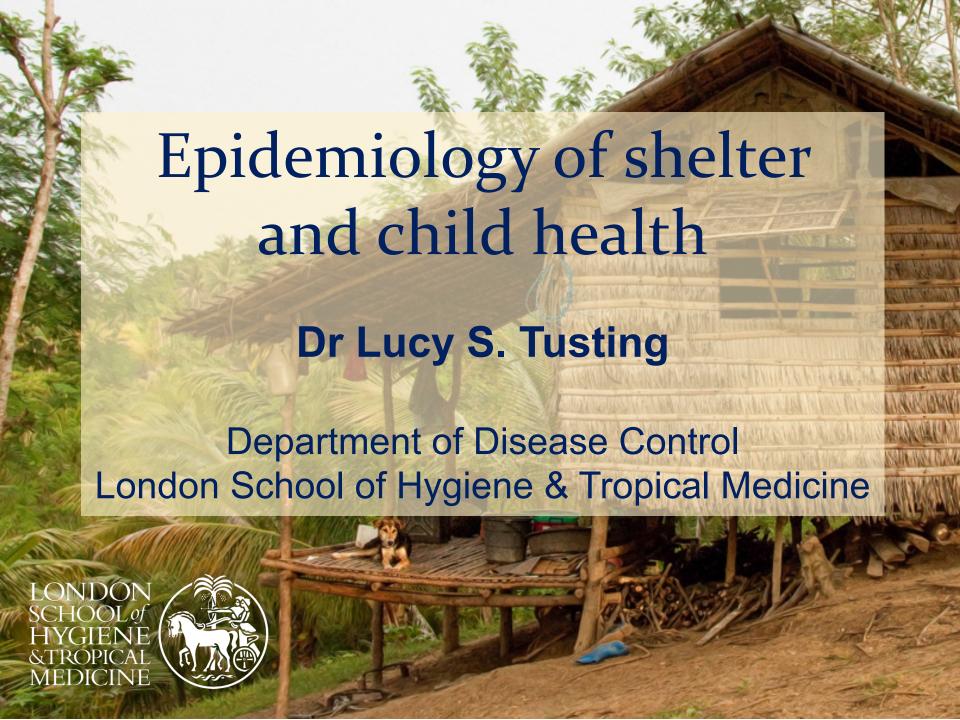
Panel 1

Physical health issues relating to shelter

- Child mortality
- Household air pollution
- Sanitation
- Diarrhoeal diseases
- Epidemiology
- Evidence building

Facilitator: Bill Flinn (CARE UK)





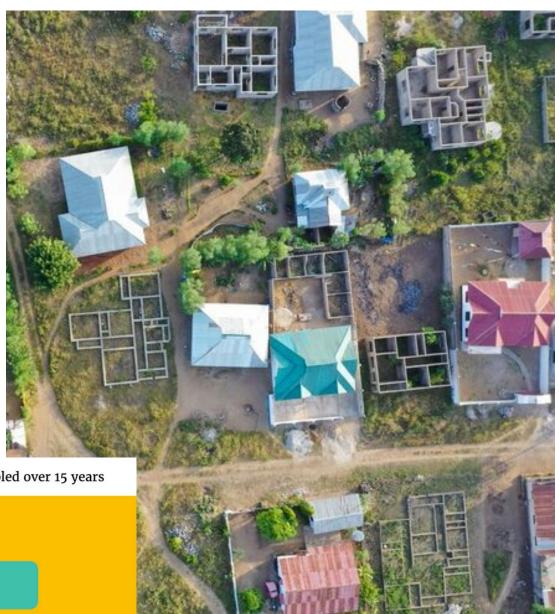
Lucy spoke about how epidemiologists measure effect. She pointed out that there is an accepted hierarchy of evidence, with randomized control trials at the top of the hierarchy. In addition, systematic reviews of intervention studies reach this 'gold standard'. She then outlined the particular relevance of a focus on shelter and health now, especially in the context of Africa, where the population is expected to double by 2050. In parallel, the continent is urbanizing rapidly, with incremental housing changes widespread. These changes are hard to quantify, yet is important to understand how these changes may impact health of their inhabitants. Lucy referenced her paper in Nature (Tusting et al., 2019) which mapped housing improvements between 2000 and 2015 and found that 'improved housing' doubled in those years. Around 50% of urban populations in Africa still live in 'slum conditions'.

Lucy outlined the many ways that shelter affects child health with reference to her paper (Tusting et al. 2020) which found that improved housing is associated with reductions in malaria

(Tusting et al 2020) which found that improved housing is associated with reductions in malaria, diarrhoea, anaemia and undernutrition. She explained 'odds ratios' to the audience. Shelter is associated with multiple health outcomes known to increase child mortality in Africa

In this study, there was insufficient evidence to link indoor air quality to children's respiratory infections and Lucy discussed the methodical reasons why that might have been the case.

Lucy summarized that Africa's housing transition is a prime opportunity for health – as people improve their homes, changes could be influenced that would improve health. She also made the point that many of these issues are similar in other regions of the Global South.



In sub-Saharan Africa 'improved housing' has doubled over 15 years

11% in 2000

23% in 2015





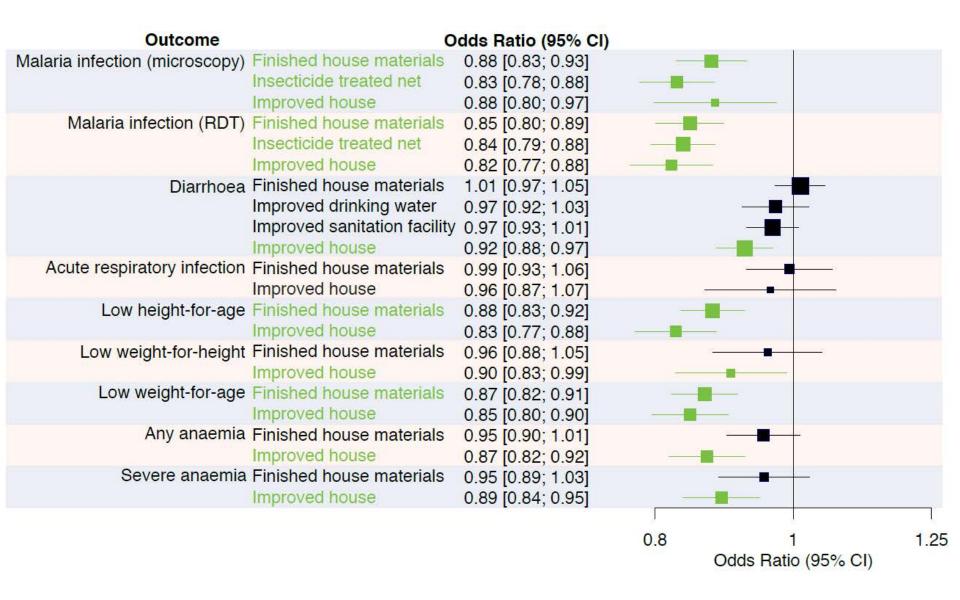






But nearly half the urban population still live in slum conditions





National survey data from 824,694 children aged 0-5 years in 33 countries.







Figure 1: Deaths of children under five by infectious disease, 2000 vs 2018



Source: UNICEF analysis based on WHO and Maternal and Child Epidemiology Estimation Group interim estimates produced in September 2019, applying cause of deaths for the year 2017 to United Nations Inter-agency Group for Child Mortality Estimation estimates for the year 2018



 2,200 children < five die from pneumonia every day.

- 800,000 deaths in 2018
- 437,000 due to diarrhea
- 272,000 to malaria.
- Curable & preventable
- Cost-effective interventions exist.
- Funding lags far.
- 3% infectious disease research

allocated to pneumonia





2013 GAPD

Prevent

Exclusive Breastfeeding
Nutrition
Vitamin A

Reduce
Pneumonia
mortality
morbidity &
increase child
survival

Increased health care seeking behavior & access to quality health care

Diagnose and Treat Children with Pneumonia

Protect

Vaccination - Measles.
Pentavalent Pneumococcal vaccine.

Prevention & management of HIV WASH

Air pollution indoor & external

Supplies – Antibiotics & Oxygen Zinc with ORS to treat diarrhea Support to health workers UHC

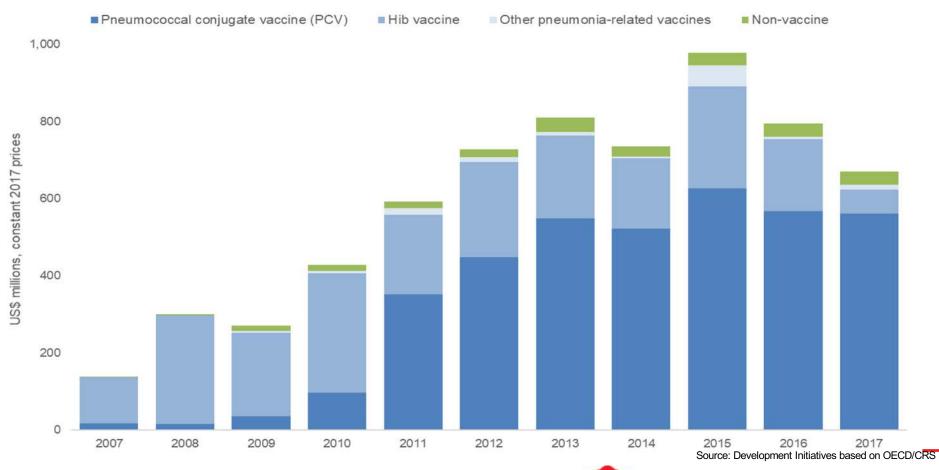




to end Pneumonia deaths!



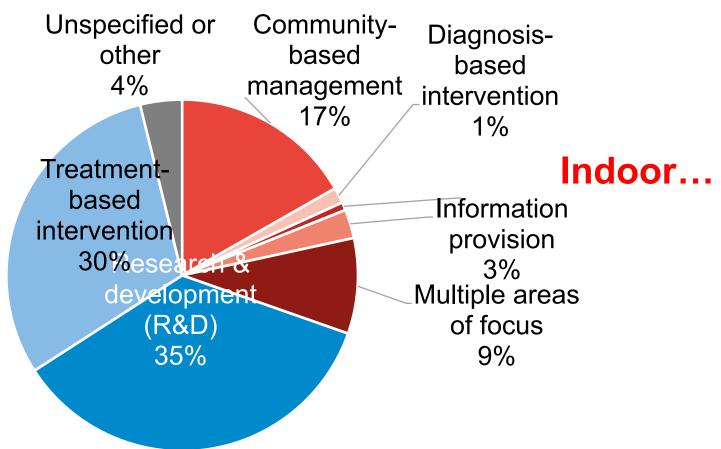
ODA





Non-vaccine ODA

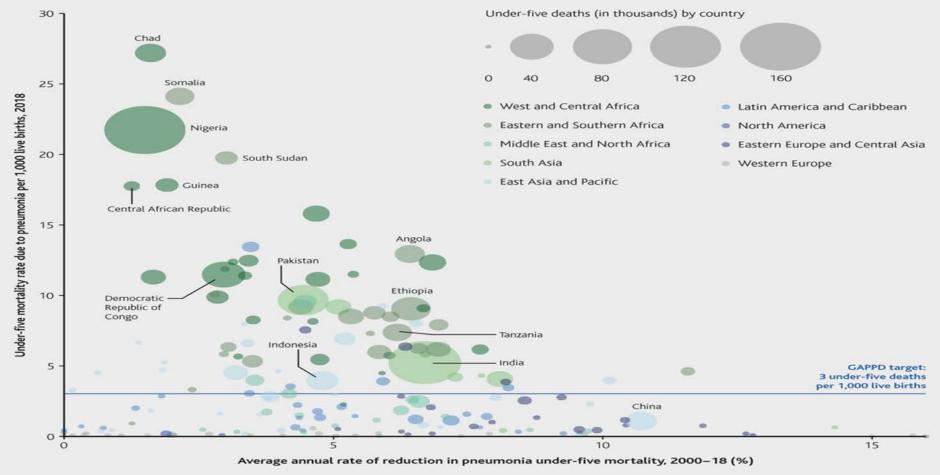
2007 - 2017



Source: Development Initiatives based on OECD/CRS



Figure 2: Child pneumonia mortality rate and average annual rate of reduction, 2000-18



Source: UNICEF analysis based on WHO and Maternal and Child Epidemiology Estimation Group interim estimates produced in September 2019, applying cause fractions for the year 2017 to United Nations Inter-agency Group for Child Mortality Estimation estimates for the year 2018.





Pneumonia = 20% child mortality

EPI coverage is 48%

Stunting 18%, wasting 16.2%

38% access to water, 19% sanitation_

46% exposure to pollutants, < 5% clean fuels

40% access to health services.

46% access oxygen at functioning hospitals





HOUSEHOLD AIR POLLUTION

3.8 million

die prematurely every year from household air pollution from cooking (2016). Household air pollution is mostly created by using kerosene and solid fuels such as wood with polluting stoves, open fires and lamps.

Women and children are the most at risk.













from chronic obstructive pulmonary disease (COPD)

from lung cancer

27%

are due to pneumonia

CLEAN AIR FOR HEALTH

#AirPollution





Prioritize: accelerated action on pneumonia as part of national and international child survival and infectious disease efforts,

A **sharpened focus** on equity and strong primary health care (PHC) systems;

Invest: in national **pneumonia control strategies** in the context of PHC and UHC;

Research: Endorse a program of pneumonia research and development (R&D)

Champion: Strengthen multi-sector pneumonia partnerships





Shelter and Health



Andy Bastable
WASH Lead
Oxfam



Major Issues from a PH perspective

- Health is not just an absence of illness wellbeing / overcrowding / stress
- Consultation consult / modify / consult Sani TweaksInclusion
- Design to prevent Most prevalent Public Health diseases
 Respiratory infections

Malaria, dengue & Snakes Scorpions

Design for Privacy - Doors - that can be locked

CATHOLIC RELIEF SERVICES

Getting the basics right from the outset:

A call for action – small tweaks can make all the difference for the users

Jenny Lamb WASH Technical Advisor

faith. action. results.

Sanitation Infrastructure – Bangladesh context

Users

- "The latrines are not separate so we don't know if it is a man or women using it. That's a big problem for us!"
- "We don't feel comfortable using the latrines here so we either go at night, go in a group, make a whole in our shelter, or use the children's potties" said Nuru, adult female

Designers and Implementers

- "We did not have time from the beginning, it was all about numbers and coverage of latrines (Nat M)
- "We only had time to ask people where to locate the latrines, and not about the intricacies and actual design based on their input" (Nat M)
- "We implement too much with a technical lens, and we have lost our emotional sense" (Nat F)

Issues

- Time (lack of strategic processing time and experience)
- Technical 'versus' emotional intelligence
- Gender and protection mainstreaming

Consequence – a compromised environment for healthy and dignified living







Sanitation-related psychosocial stressors

Sanitation-related psychosocial stressors lead to regulatory behaviours, such as: withholding food and drink, travelling in groups, going at dusk and dawn, or defecating within their home (in a bucket or makeshift latrine)

Environmental stressors

 Latrines built too far from their shelters; on steep hillsides; with no privacy screens, locks or lighting; not segregated in a meaningful way or where shared with many other people

Social stressors

- Humanitarian community did not ask how we wished to be consulted; nor understood the importance of gender segregated social spaces – it was rather transactional
- Lack of privacy and dignity
- Social restrictions for women and girls to move around
- Social belief that blood is a symbol of impurity and associated with *jinn* spirits. MHM is a challenge given restrictions of space and privacy, and availability of suitable MHM materials

Sexual stressors

- Fear of gender-based violence
- Compromised privacy and dignity
- Concern of meeting unmarried men whilst at the latrine

Concept based on a study in India – Sahoo et all 2015, and data from Rohingya Cox Bazar context



Social Architecture Project – Bangladesh

Project Aims:

- Put women and girls in the "designers shoes"
- Use expertise from architects to design spaces based on user feedback
- Advocate for design changes in the humanitarian response with the WASH, health and shelter sectors
- A process and not another cogwheel of standard designs being churned out and used by sector (did not wish for their designs to be "cookie cutters" and replicated everywhere)

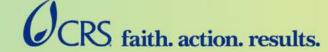
Phase 1:

- Formative research on issues
- Concept designs
- Cross sectoral workshop

Phase 2:

- Adapting the concept designs
- Creating buildable structures
- Women as designers, constructors, monitors and evaluators





Social Architecture Project

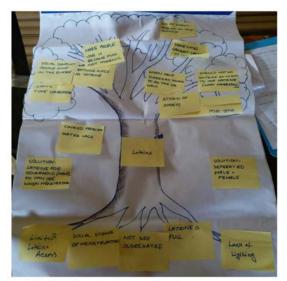


Figure 1: Problem Tree made with women in Unchiprang



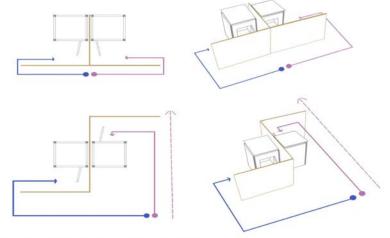


Figure 3: Screen configurations for latrines and bathing spaces

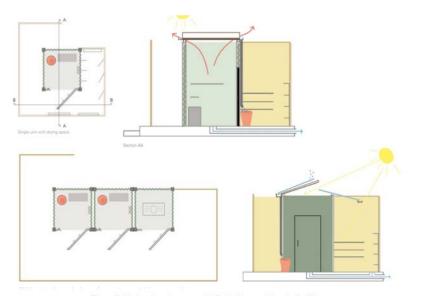


Figure 7: Various layouts suggested for bathing and laundry facilities

Menstrual Hygiene Management

Problem statement

- MHM too often comes later in a humanitarian response
- Insufficient access to safe and private facilities for MHM
- Constraints of the environment on material use safety, privacy, dignity, type of material used and MHM
- Among staff there is a narrow interpretation of what a MHM response includes
- Humanity, compassion and respect inadequate capacity to consult with women and girls
- Limited coordination between sectors



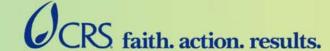








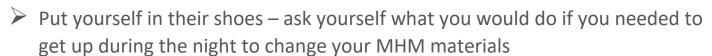




Menstrual Hygiene Management – Call for Action

MHM response is not just the provision of sanitary materials – it needs to be mainstreamed into all sectoral response efforts – WASH, health, shelter, protection, education....







Consult, modify and consult with women and girls to understand their preferences and practices – prioritise MHM from the outset and as a continuum



Sustainability – women and girls may have to adapt their MHM and so should we in our approaches





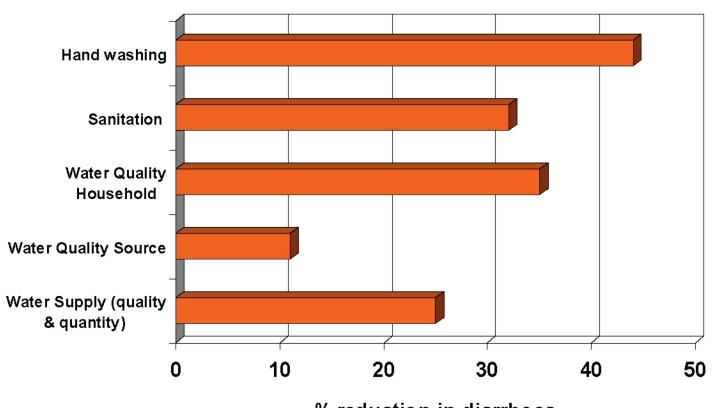




Handwashing

Water, sanitation, and hygiene interventions to reduce diarrhoea in less developed countries

Source: Fewtrell et al (2004), Curtis and Cairncross (2003)





Handwashing





The future is in your hands . Don't get caught germy handed. Drown a bug, save a life. • So you want to change the world start by washing your hands! . Stop! Handwashing is practiced here. Washed hands are caring hands. What are the top ten carriers of infection? Answer: each one of your fingers. Did you know germs can live on your hands for 3 days? Lifesaving soap available here • Clean up your act • See sink? Use soap . Don't be a dirty soap dodger • Is the person next to you washing with soap? Note: This soap is not just for decoration • Take a moment to refresh - wash hands with soap . Others are watching - better wash your hands . Happiness is: being around people who clean their hands • What have you just touched? • Did you know there are 3200 germs on your hands right now! . Unwashed hands. Eewww! • Clean hands deserve two thumbs up . Clean hands



Summary

- ✓ Put yourself in the shoes of the women, men, girls and boys
- ✓ Small design tweaks can make all the difference for users
- ✓ Consult-modify-consult
- ✓ We need **both** EMOTIONAL and TECHNICAL intelligence (capacity and approaches)
- ✓ Shelter WASH health many qualitative outcomes to unpack (dignity, safety, humanity, privacy, cultural and social behaviours...)





Shelter & Health Learning Day

14th May 2020