

Armed conflict and health

Imperial College

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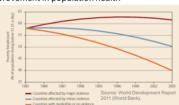
Learning objectives

- 1. Provide a background on armed conflict
- 2. Describe the pathways by which conflict affects health
- 3. Explore key issues in the health-sector response

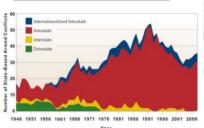
1. Background

Why bother?

- 1. Humanitarian impulse
- 2. Civilians bearing the brunt of conflict
- 3. Major contributor to global burden of disease
- 4. Technically easy and high impact interventions
- 5. Prevents long-term improvement in population health
- 6. Legal obligations
- 7. Halts development
- 8. Inequitable aid
- Strategic: spill over, migration, loss of markets/resources etc



Numbers of Conflicts 1946-2006



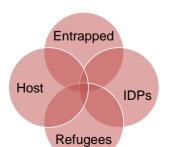
Source: Human Security Report 2009, Human Security Centre

Conflict maps: http://conflicthistory.com/#/period/2007-2012

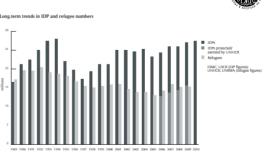




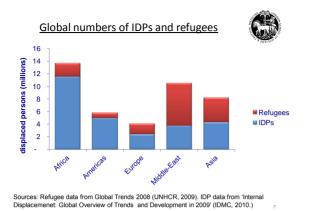
Affected civilian populations

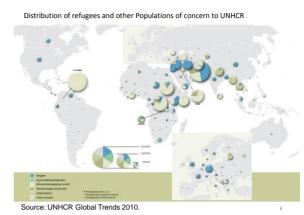


Global trends of IDPs and refugees

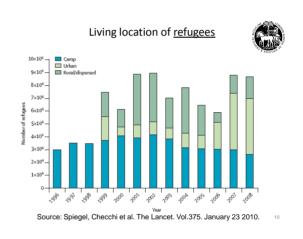


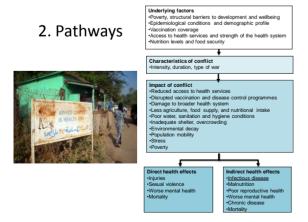
Source: Internal Displacement: Global Overview of Trends and Development in 2010. (IDMC, 2011)







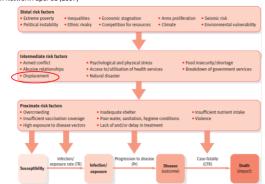






b. Communicable disease: risk-factors

Source: Public health in crisis-affected populations. A practical guide for decision-makers. ODI Network Paper 61 (2007)



c. Poor sexual and reproductive health

- High numbers of women and children
- Lack of reproductive health services
- Social and economic vulnerability
- Sexual and gender-based violence

Consequences on health:

- Pregnancy-related morbidity/mortality
- Physical injury (e.g. fistula)
- STIs and HIV/AIDS



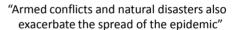




Maternal and child mortality 1000 0 250 conflict (SSA) non-conflict (SSA) United Kingdom 1000 live 200 Under 5 deaths p

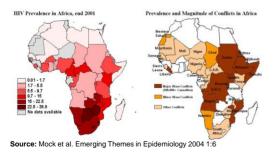
Source: O'Hare, B. A. and D. P. Southall (2007). "First do no harm: the impact of recent armed conflict on maternal and child health in Sub-Saharan Africa." J R Soc Med 100(12): 564-570.

d. HIV/AIDS



- The 2001 UN General Assembly Special Session on HIV/AIDS (UNGASS)

Distribution of HIV prevalence and conflicts in Africa



See also: Spiegel, P. et al. B. Prevalence of HIV infection in conflict-affected and displaced people in seven sub-Saharan African countries: a systematic review Lancet, 369(9580): 2187-95.

HIV conflict-related risk-factors





3







e. Non communicable disease



- Diabetes
- Hypertension
- Cancer

Context:

- · Older populations
- · Middle-income settings
- · Urban displaced
- Lifestyle factors

Editorials

Noncommunicable diseases and post-conflict countries

Bayard Roberts, Preeti Patel¹ & Martin McKee^a Bull World Health Organ 2012;90:2–2A

f. Mental and psychosocial health

i. Emergency-induced factors

- Exposure to traumatic events
- Living conditions
- Insecurity
- Uncertainty
- Loss of livelihoods and impoverishment
- Disruption of social/cultural networks coping norms

ii. Pre-emergency social factors

• (e.g. extreme poverty; political oppression)

iii. Pre-existing psychological factors

• (e.g. mental disorders; alcohol abuse)

iv. Humanitarian aid-induced social factors

• (e.g. undermining of community structures; aid distribution)

3. The Response





Information - why?



Benchmark the severity of the crisis

- · Population mortality rate
- · Prevalence of acute malnutrition

Orient public health priorities

- · Establish main epidemiological risk factors
- Detect and respond to unusual events (epidemics)

Advocate for humanitarian and political intervention

Witnessing and documentation

Monitor and evaluate relief interventions

- Coverage of interventions (e.g. vaccination, water and sanitation)
- Impact of entire relief operation (decline in mortality?)

Information needs

•Demographic profiles

- •Size of affected population
- Epidemiological profiles
- •Vaccination coverage
- •Risk profiles (prox., intermediate, distal)
- •Existing disease control programmes
- •Existing vaccination services
 •Existing health facilities/services
- •Stakeholders
- •Malnutrition rates •Morbidity data
- •Mortality data (CMR/U5MR, CFR)
- •Disease prevalence/incidence
- •Programme/project performance (Efficiency, Effectiveness, Equality/Equity, Accessibility, Appropriateness, Acceptability)

Information sources

- •Existing data (e.g. population and epidemiological data)
- •Rapid assessments (observations, clinic data, grave counts, community meetings, satellites images etc)
- •Coverage mapping (e.g. health facilities).
- •Participatory methods with community members
- •Population estimation methods
- •Surveillance: births and deaths, disease outbreaks, health worker/facility records.
- •Sample surveys: e.g. Mortality, malnutrition, mental health etc
- •Programme monitoring /evaluation reports



What do you think is the most important health indicator in a humanitarian crisis?

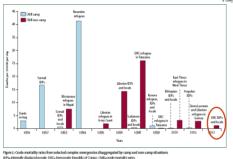
Mortality

- •Mortality rates measured in emergency settings as the number of deaths per 10,000 persons per day
- •Sphere emergency threshold – crude mortality rate (CMR) and under 5 mortality (U5MR) <u>doubling</u> of 'norm' (context specific)



Selected Crude Mortality Rates





Source: Salama et.al., Lancet, November 2004

Criteria for selecting interventions



- Potential to address main health problems
- Feasibility
- Maximum opportunity benefit
- · Minimum opportunity cost
- Maximum effectiveness/cost-effectiveness
- Timeliness

Maximising impact - coverage and effectiveness



Key interventions

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- · Adequate and appropriately spaced shelter
- Sufficient and safe food
- Sufficient and safe water
- Adequate sanitation facilities
- Mass vaccination
- Access to primary health care and referral hospitals
- Disease surveillance, outbreak preparedness and control
- Vector control
- Health education and social mobilisation

Guidelines



Eg. Sphere, IASC guidelines, Cluster Guidelines, individua agency guidelines (Red Cross movement, MSF etc)





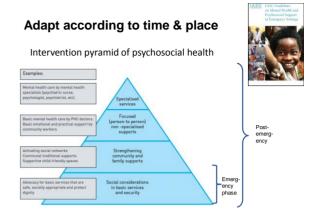


Online courses/training:

MISP (reproductive health): http://misp.rhrc.org/

Medical Peace Work: http://www.medicalpeacework.org/

Hierarchy of needs Intervention pyramid of mental/psychosocial health Postemergency phase



Broader and longer-term planning

Health Cluster

Guide

HeGlobale



a. Inter-sectoral thinking

Key themes of Health Cluster:

- Improved coordination with other sectors (protection, wat/san, food, camp management etc).
- Better coordination of UN, NGOs, government,
- donors, and community members.
 Mapping of health actors, available health services, and service delivery activities.
- Better information on the health situation and needs
- Agreement on priority health problems and risks/joint health strategy/pooled funding appeals
- Agreed standards, protocols and guidelines for basic health care delivery and capacity building
- A common advocacy strategy and plan

Disease treatment



MSF provision of ARVs to conflict-affected population in Bukavu, DRC

- Drop out rate in Bukavu:
- Drop out rate in low-income setting:
- Dropt out rate in high-income setting:
 Dropt out rate in high-income setting:

Dropt out rate in high-income setting:
Source: Culbert H, et al. PLoS Med 2007;4(5):e129

5.4% [95%Cl 3.2–7.5] 15% [No Cl given]

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Health system support

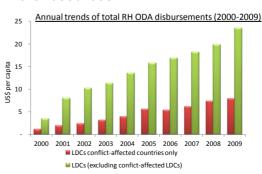


See also: Van Damme et al. Primary Health Care Vs. Emergency Medical Assistance. Health Policy and Planning; 17(10):49-60.

See also: Health Cluster Guide. http://www.who.int/hac/global_health_cluster/en/

More resources





Ethical dilemmas

Humanitarian principles: Humanity, Impartiality, Neutrality, Independence





"Doing The Right Thing: Relief Agencies, Moral Dilemmas and Moral Responsibility in Political Emergencies and War" -

Conclusions



- · Need to engage with conflict-affected states
- Multiple pathways from conflict to poor health
- · Variation of conflicts and related health needs
- Importance of good information & guidelines
- · Adapt according to local needs
- · Need for broader and longer-term thinking
- · More support and resources required

Information sources



- Centre for Research on the Epidemiology of Disasters: http://www.cred.be/cred1/index.htm
- Health and Fragile States Network: http://www.healthandfragilestates.org
- HealthNet TPO: http://www.healthnettpo.org
- Humanitarian Policy Group (ODI): www.odi.org.uk/hpg/index.html
- Inter-Agency Standing Committee: http://www.humanitarianinfo.org/iasc
- International Committee of the Red Cross: http://www.icrc.org
- Internal Displacement Monitoring Centre: http://www.internal-displacement.org
- LSHTM Public Health in Humanitarian Crises Group: http://crises.lshtm.ac.uk/
- One Response: http://oneresponse.info/Pages/default.aspx
- ReliefWeb: www.reliefweb.int/w/rwb.nsf
- Reproductive Health Response in Conflict Consortium: http://www.rhrc.org
- Sphere Project: http://www.sphereproject.org
- WHO (HAC): http://www.who.int/hac/en/index.html
- WHO (HAC): http://www.ho.int/diseasecontrol_emergencies/resources/en/

Questions?

