



CLean Energy Access for prevention of Non-communicable disease in Africa:

CLEAN-Air(Africa)

NIHR Global Health Research Group

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'Prescribing clean air' to communities without access to clean fuel: what are the implications for (health) messaging?



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CLEAN Air(Africa) programme

Cameroon, Ghana, Kenya

Background

- Disease burden
- Solutions (ICS, clean fuels)



- Health impact
- Develop/implement WHO IAQGs
 - Rapid scale of clean fuels to reduce the burden of disease associated with household air pollution (HAP).
 - Transition to cleaner technologies and fuels to meet guideline emissions levels

Research programme

To reduce mortality/morbidity from exposure to household air pollution, by supporting communities to *transition* to clean household energy (LPG).

- Evaluate impacts of fuel choice on HAP & health and
- interventions to support underserved populations to use LPG (pay as you cook, microloans)
- Health and climate modelling of impact of LPG adoption.

Clean cooking for all – except those left behind?

Cameroon, Ghana and Kenya committed to scaling up population access to clean fuels

The problem

Poorest households rely on polluting solid fuels:

- urban poor (charcoal, plastic)
- rural communities (gathered biomass)

Plus vulnerable and susceptible groups (women and children).

What about?

Sizeable population minority with no imminent prospect of transitioning

• resource, fuel and geographical constraints.



HAP - a *modifiable* major risk factor

Little understood by health sector

Highlighted as significant gap by WHO

What is the role of the health sector?

'Prescribing clean air', WHO CHEST 'Clinicians do not routinely ask patients with respiratory symptoms about fuel use in consultations'.

Cameroon respiratory physician

Populations preoccupied with daily survival may not prioritise health concerns.

'That which does not slay me today, is of no concern',

Ghana Stakeholder

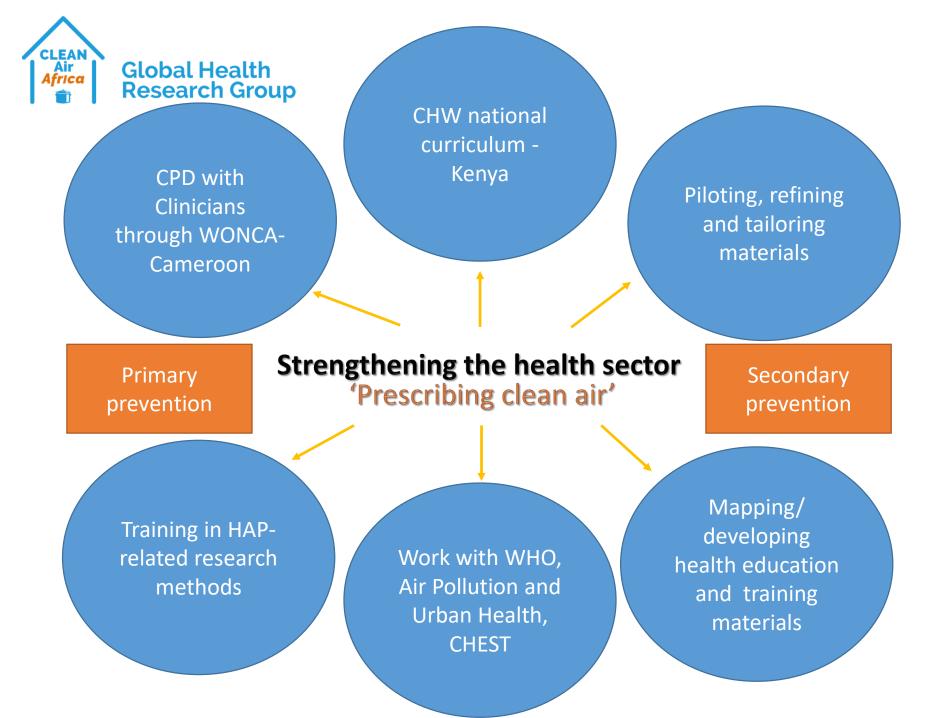
Which messages, how and to whom? Developing and tailoring messages – to support pathways to cleaner cooking

Harm minimisation

Drying fuel, distancing children/pregnant women from smoke, ventilation Reduction in exposure

Improved Cook Stoves sufficient to benefit human health? Adoption of cleaner energy

Adoption and use of biogas, LPG, solar



Co-developing materials with midwives and village health teams in Uganda

HOW TO PREVENT/REDUCE EXPOSURE TO BIOMASS SMOKE.



FRESH AIR project with Ministry of Health, Uganda



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Huge cost in healthy life years and economic participation to populations left behind

- Some action to reduce exposure is better than nothing – near exclusive use of clean fuels is the end goal.
- 2. Importance of developing messages with communities, opinion leaders and health workers close to communities.
- Working with clinicians, community health workers, public health professionals through medical training, CPD, symposia – train the trainers, advocates for clean household energy.