

## Research Ideas on Respiratory Conditions and Tobacco Dependency

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### Implementing multiple interventions to improve respiratory care & health in resource-constrained FRESH AIR countries: Impact, Barriers, Levers & Lessons Learned

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#### 1. Research question

What can clinical and healthcare decision-makers learn from the FRESH AIR project about implementation of multiple interventions to improve respiratory care and health in four Low- or Middle Income Countries (LMICS)?

#### 2. Background

The WHO estimates around 90% of deaths from COPD and 80% deaths from asthma occur in LMICs due to population size and increasing prevalence of risk factors. FRESH AIR, a major international research collaboration, has undertaken a range of linked implementation science studies in four LMICs.[i] These studies examine the burden and awareness of chronic lung diseases, and how interventions effective in high income countries, clustered into five work packages (WP), can be implemented in diverse resource-constrained settings. This research idea explores the impact, barriers and levers identified by the project's WP and country leads. Lessons learned should inform future implementation efforts in LMICs at an individual, health system and population level.

#### 3. Proposed methodology

The proposed study would include:

- A table format questionnaire for each country and WP lead on the impact, main barriers, levers and lessons for researchers, clinical and policy decision-makers that might influence the sustainability of successful interventions.
- A structured interview with researchers, country and WP leads involved in FRESH AIR.

The study would be undertaken as part of Work Package 2 of the FRESH AIR project. Authors would include the researchers of Work Package 2.1 and others who have been active in FRESH AIR.

#### 4. Questions to discuss

How can:

- The study capture and assess the value of respiratory leadership in each country and how this has contributed to the project?
- The study ensure objectivity when relying on key informants who are invested in the project's success?
- The study most effectively analyse the qualitative information generated by the proposed methodology?
- End-users of the intervention contribute?
- The study draw out differences and similarities across countries and WPs?

Ideally, what recommendations would be made at the three levels of individual, health system and population, and how best to plan data collection?

#### Declaration of Interest

FRESH AIR was funded by the EU Research and Innovation program Horizon2020 under grant agreement no. 680997. This study is registered under trial registration number: NTR5759.

<http://www.trialregister.nl/trialreg/admin/rctsearch.asp?Term=23332>References and Clinical Trial Registry Information: i. Cragg L, Williams S, Chavannes NH on behalf of the FRESH AIR Group. FRESH AIR: an implementation research project funded through Horizon 2020 exploring the prevention, diagnosis and treatment of chronic respiratory diseases in low-resource settings. *Npj Prim Care Respir Med* [Internet];2016 Jun 30;26:16035. Available from:<http://rdcu.be/twwC>