

# Impact in Pakistan

58,000

children under-five die each year from pneumonia 40%

of all pregnant women are exposed to second-hand smoke Severe

cases of polleninduced asthma

# **AIM**

To investigate the current management of childhood pneumonia and pollen-induced asthma, and the feasibility and effectiveness of digital interventions delivered at the community level

### **STUDIES**

#### **EVIDENCE**

#### **IMPACT**

Policy formation

Lack of involvement of community stakeholders in policy process. Financial sustainability identified as a major challenge Invited to contribute to national level consultations on maternal and child health and nutrition

Engaged with government and development partners to influence pneumonia policy

Pneumonia diagnosis, management and policy formulation

Care seeking and case management Lack of awareness among caregivers of danger signs. High costs, inadequate healthcare and social factors delayed care seeking. Overprescription of antibiotics

Findings used to develop an mHealth intervention of pneumonia prevention to be delivered by lady health workers

Findings discussed with influential policy stakeholders in the Ministry of Health

mHealth intervention

Increased knowledge and improved behaviours among caregivers. Feasible and acceptable to caregivers and health workers.

1171 households educated in under-5 pneumonia prevention, symptoms and management

35 lady health workers trained in pneumonia prevention

Asthma management

Seasonal pollen induced asthma model Model can successfully predict when the paper mulberry pollen season will start and reach its peak

Paper mulberry pollen is likely to be a major cause of asthma, especially in March and April Mobile app to be developed to alert patients about paper mulberry pollen season to give health advice

Consensus document developed with GPs and chest specialists on improved management of pollen allergies

Second-hand smoking

Effects of secondhand smoke in pregnancy Most women reported exposure to second-hand smoke during pregnancy. While women recalled the effects of exposure to smoking, few understood the long-term risks to the health of the infant and mother

Potential for behaviour change interventions focussed on reducing exposure to secondhand smoke

## **RESPIRE** studies have:

- improved health literacy of patients and caregivers and strengthened the capacity of healthcare workers
- Led to the development and successful testing of a digitalinterventions to prevent and control pneumonia
- Influenced pneumonia policy and practice
- Addressed the overuse of antibiotics
- Improved understanding and management of pollen-induced respiratory control







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