

Impact in Bangladesh

24,000

children die each year from pneumonia

1000s

of child deaths could be prevented by early screening

1 in 10

adults over 40 have COPD

AIM

To test the feasibility, effectiveness and acceptability of low-cost, scalable and life-saving interventions

scalable and life-saving interventions				
	W=	STUDIES	EVIDENCE	IMPACT
	Respiratory Syncytial Virus (RSV)	Long-term effects of RSV in young children	Preventing or identifying RSV can reduce later chronic diseases like asthma	Could improve asthma diagnosis accuracy and reduce cases at community level
	Early screening and diagnosis of childhood pneumonia	Digital stethoscope	Trained community health workers were capable of recording quality lung sounds	Intervention being considered for larger trial by Ministry of Health. If implemented, it could substantially reduce the use of antibiotics by frontline health workers
		Pulse oximetry	Pulse oximeters are feasible and acceptable to use by nurses and paramedics for detecting hypoxaemia and early referral for pneumonia treatment	 Ministry of Health and Family Welfare has introduced pulse oximetry in national IMCI implementation package 4872 child healthcare providers across the country trained 200 primary health care centres now using pulse oximeters
		Automated model to interpret paediatric chest x-rays	Computational model successfully developed to diagnose pneumonia using paediatric chest x-rays	This automated diagnostic system will enable health care workers in areas without experts to effectively diagnose pneumonia
1	Treatment of childhood pneumonia	Bubble Continuous Positive Airway Pressure (CPAP) Mapping	Bubble CPAP is feasible and simple to implement in hospitals and supports rapid recovery from pneumonia	 Bubble CPAP is being tested in a trial in Ethiopia and planned for testing across hospitals in Bangladesh It can reduce hospital costs, caregivers' wage-loss, clinicians' workload and infections picked up in hospitals
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	Management	Pulmonary rehabilitation (PR)	Feasible and acceptable to patients and health care providers and effective with improved health outcomes	Public and health system awareness of PR significantly increased 3 new PR centres established
	of Chronic	er en	and a same	Respiratory palliative care now

palliative care services

Respiratory Diseases

Respiratory palliative care now being provided in 10 primary health Respiratory illness and centres in Rohingya refugee palliative care needs mapped camps and community health workers trained in providing

🐼 In Cox's Bazar General Hospital, space has been for a pulmonary Rehabiliation Centre for patients with chronic respiratory diseases

RESPIRE-tested low-cost interventions can:

Palliative care for

respiratory diseases

- enable timely detection and treatment of pneumonia
- reduce the use of antibiotics and antimicrobial resistance
- improve respiratory health and the quality of life and increase productivity
- reduce healthcare costs for families and the national health system
- be implemented by non-specialist staff and community health workers





RESPIRE phase 1 partners in Bangladesh:







ukaid