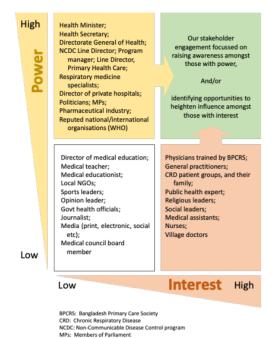


The story of the PuRe trial

Co-designing a multi-national trial in low- and middle-income countries

Pinnock H, Habib M, Agarwal D, Engkasan J, Paul B, Hammersley V, Rabinovich R, and the teams from BPCRS, CMC, KEM, UM and UoE.



2. Systematic reviews

The evidence that PR improves exercise capacity and quality of life in chronic respiratory disease is mainly from high income countries.

Some evidence from LMICs – but studies are at high risk of bias

Habib GM, et al. SR of clinical effectiveness and models of care of low-resource PR. npjPrim Care Respir Med 2020;30:52

Home-based PR is as effective as Centre-PR (In high income settings)



Uzzaman et al. Effectiveness of home-based pulmonary rehabilitation: systematic review and meta-analysis. Eur Respir Rev 2022;31:220076

1. Stakeholder engagement

Community engagement work ensured the research question reflected local contexts and healthcare needs, optimising the relevance of the research to end-users.

Habib GM, et al. Engaging with stakeholders to promote implementation of PR in Bangladesh. J Glob Health 2020;10:020384 Chan SC, et al. Stakeholder Engagement to Promote Implementation of PR in Malaysia. J Glob Health 2021;11:02003

Identify the local need

Establish the research gap

3. The PuRe manual

The core components of pulmonary rehabilitation were systematically adapted from global guidelines

Habib GM. Adapting, evaluating and implementing pulmonary rehabilitation in Bangladesh. https://era.ed.ac.uk/handle/1842/39322

Adapt and define the intervention



Colleagues from all the centres are developing the PuRe Manual with details of all aspects of pulmonary rehabilitation.

4. Feasibility studies

Feasibility studies in the four centres explored a range of approaches to delivering pulmonary rehabilitation and confirmed practicability, acceptability and potential utility in the proposed settings.









Undertake feasibility studies

Habib GMM, et al. Exploring patient experience of living with Chronic Respiratory Diseases and the value of pulmonary rehabilitation in Bangladesh. J Glob Health 2024;14:04036 Habib GMM, et al. Delivering remote pulmonary rehabilitation in Bangladesh: a mixed methods feasibility study. Being revised for J Glob Health

Singh D, et al. Needs assessment for introducing PRfor COPD management in a rural Indian setting: a qualitative study. BMJ Open Respir Res 2023;10:e001696 Chan SC, et al. Home-Based Pulmonary Rehabilitation for Patients with Chronic Respiratory Diseases in Malaysia: A Mixed Method Feasibility Study. J Glob Health 2023;13:04099 Chan SC, et al. Barriers and challenges of implementing pulmonary rehabilitation in Malaysia: Stakeholders' perspectives. J Glob Health 2021;11:02003













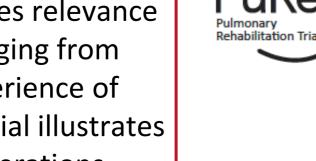


UK International

Development

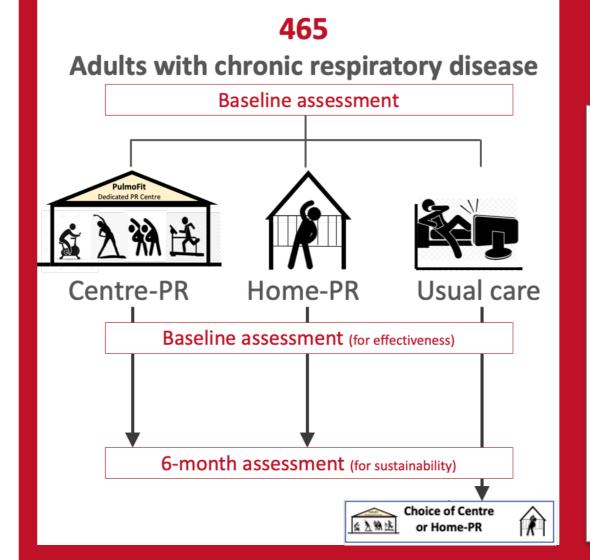
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Co-designing research with local stakeholders improves relevance of findings. Emerging from RESPIRE, our experience of designing the PuRe trial illustrates some key considerations



Research





5. Embed capacity building

Diksha Singh and Soo Chin Chan, RESPIRE PhD students aligned with PuRe

Clinical training E.g., 'Teach the Teacher' in Malaysia

Chan SC, et al. Pulmonary Rehabilitation Capacity Building through a Teach-the-Teacher Programme: A Malaysian experience. J Glob Health 2023;13:03047

The PuRe trial

Clinical effectiveness Endurance shuttle walking test



St George's Respiratory Questionnaire

Health economic evaluation

Mixed methods process evaluation; exploring implementation

Stakeholder engagement

RESPIRE is funded by NIHR 16/136/109 and NIHR132826 using UK international development funding from the UK Government to support global health research. The views expressed in this poster are those of the author(s) and not necessarily those of the NIHR or the UK government.

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& Development Office