



Accessible, integrated care for people with multiple chronic conditions in low & middle income countries

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Overview

Chronic respiratory diseases such as asthma and COPD place a heavy burden on low-and middle-income countries (LMICs). They often occur with other long-term conditions (multimorbidity), which affects over 60% of people aged 65+ and starts 10–15 years earlier in these settings. This combination creates complex care needs, while affordable digital tools are scarce and services remain fragmented. MULTIPULM responds with an integrated, evidence based digital care ecosystem in Brazil, Serbia and Türkiye.

Objectives

Analyse local care systems & barriers.

Build stakeholder awareness & implementation capacity.

Adapt technologies to local contexts.

Validate outcomes through real-world pilots.

MULTIPULM Integrated Digital Care Ecosystem

Home monitoring

Simple devices and apps help manage care at home and track if medicines are taken.

Data-driven recommendation tools

Sort people by risk, spot possible medicine side effects, predict returns to hospital, and track changes over time.

Breathing games

Short digital exercises check breathing and warn of early problems.

Sleep assessment and intervention

A tool checks sleep, finds problems, and helps you relax.

Lifestyle monitoring and smoking cessation

Coaching tracks health, records what patients report, and builds steady healthy habits.

Impact

MULTIPULM will improve the quality of life and symptom control for people with chronic lung disease and other conditions. Earlier problem detection will make home care safer. Clinicians will get clearer decision support for coordinated, evidence-based care. Health systems will see fewer avoidable admissions and shorter stays.

The project will also generate evidence on cost-effective, equitable models for LMICs to support scale-up and policy uptake.



Clinical Studies

Three real-world studies for at least 18 months, with 2,750 patients, and 1–6-month follow-up.



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UFRN &
Fundação
Edson Queiroz



Serbia
Institut za
plućne bolesti
Vojvodine



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