

Process evaluations for the scaleup of complex interventions

A scoping review

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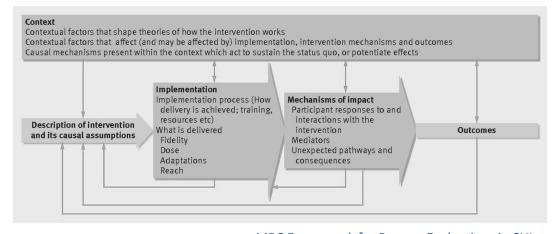


Process evaluation

A process evaluation (PE) is an essential part of **designing and testing complex health interventions** and is vital in building an evidence base that informs policy and practice.

A pivotal understanding related to

- context (contextual factors and causal mechanisms)
- implementation (fidelity, dose, adaptations, reach),
 and
- mechanisms of impact (participant responses, mediators, and unanticipated pathways and consequences)



MRC Framework for Process Evaluations in CHIs



Background

For many **urgent health needs**, the key question is not about testing or developing new CHIs, but **rather scaling-up already**

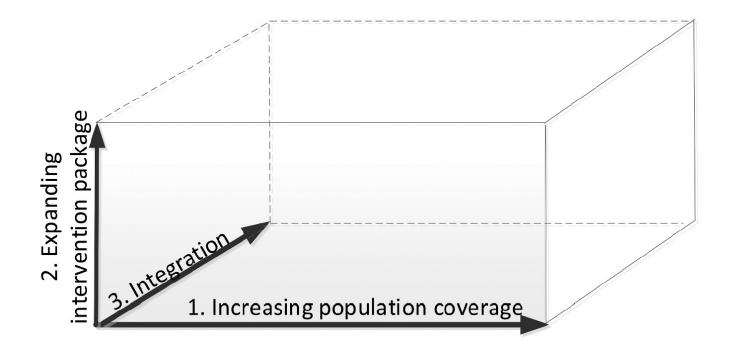
existing interventions through uptake of evidence-based

practices and research findings into clinical practice.





Scale-up



Testing / Development ≠ scaling up



Objective

To describe the current practice of process evaluation (PE) in the scale-up of complex health interventions.

- Key functions of a PE in terms of the scale-up of a CHI
- Methods for conducting the PE
- Stakeholders were involved
- Enabling and inhibiting factors for PE in terms of scale-up.





Methods

 Systematic search in eight data sources (PubMed, Embase, CENTRAL, Web of Science, CINAHL, Global Health, Scielo and African Index Medicus; August 2022)

Eligibility criteria

- Explicitly during / following scale-up (not to inform future scale-up)
- Complex Health Interventions (due to the of properties of the intervention,
 e.g., multiple components)
- Explicitly state that a PE was conducted as part of the research study



Results

Screened: 10k+

• Full-text review: 81

• Included: 35

- Published between 2010 and 2022
- Majority RCTs
- Majority on non (51%) communicable disease (43%)

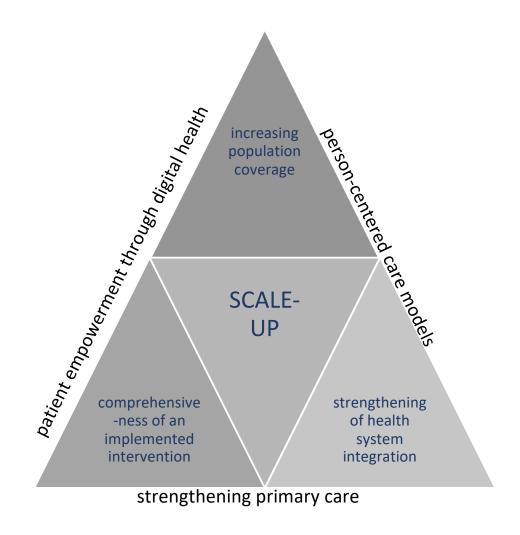




Nature of interventions being scaled-up

- LMIC (n = 20; 57%)
- Vulnerable populations in HIC (n = 3)

- Facility (57%)
- Community (34%)
- Systems (9%)





Main functions of PE during scale-up



Context

 To evaluation the (health)system elements that inform (successful) scale-up of the intervention being scaled

Mechanisms of impact

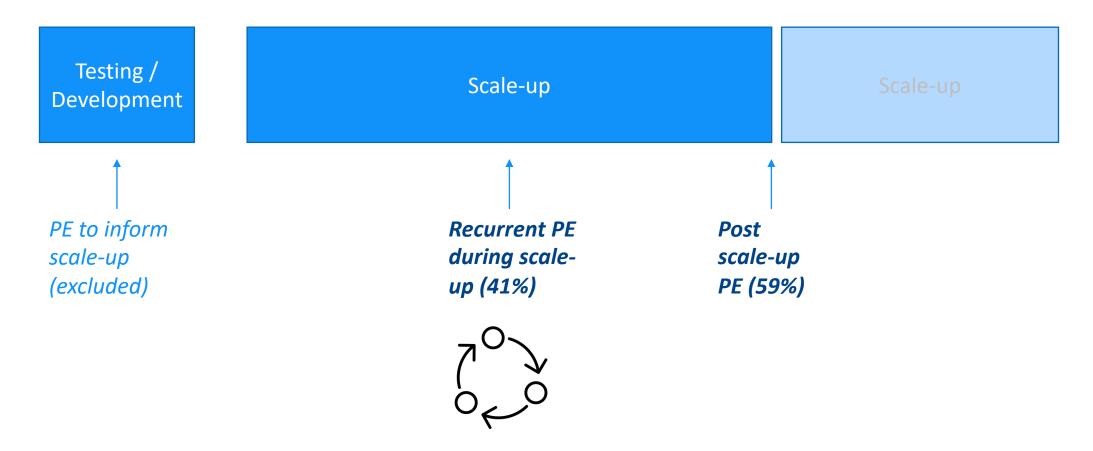
- Enables / Inhibiters of scale-up

Implementation

- degree to which scale-up was achieved as intended



When is the process evaluated?





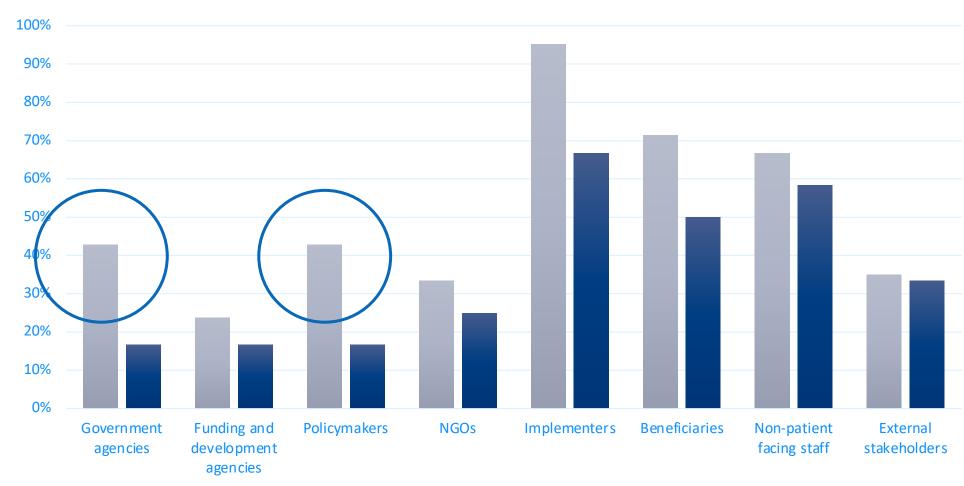
Methodological underpinnings

- Many different implementation science frameworks were used
 - E.g., RE-AIM / CFIR
 - Often adapted or combined
- Scale-up framework (n = 2; Expandnet, four steps to scaling up [Barker et al. 2016])





Stakeholders





Limitations

- Scaling-up the implementation of evidence into practice is a process that may take place outside of the academic environment
- ambiguity in terms of the concepts (integration, comprehensiveness)
- PE quickly leans towards qualitative stakeholder engagement while quantitative data can (or should) also support the evaluation of process.





Conclusions

- There is considerable heterogeneity in the current practice of conducting process evaluations alongside (or following) the scaleup of complex health interventions
- Ideally, a process evaluation is a recurrent continuous process
 alongside the scale-up project to inform real-world adaptations to
 the scale-up strategies when applicable.
- Important information on the process of scale-up may be obtained from **down and upstream stakeholders** indirectly impacted by the scale-up process but not commonly included in the evaluation.





Thank you

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