

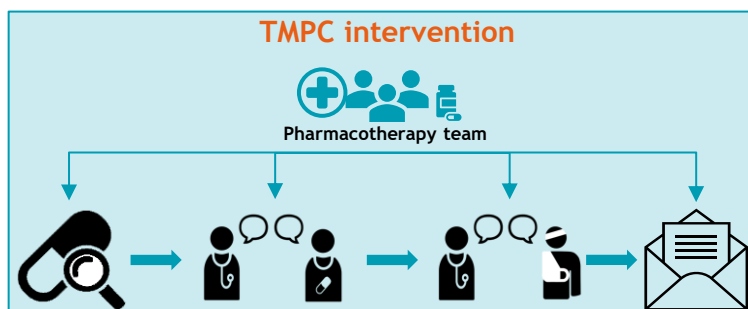
# Protocol for process evaluation of a novel in-hospital medication review method

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## Background

- The LIMONCELLO-trial (NCT05899114) evaluates a **transitional multidisciplinary pharmacotherapeutic care (TMPC)** intervention, aiming to reduce medication-related readmissions among older patients with polypharmacy
- The degree of implementation may affect trial success
- Aim:** to assess implementation fidelity and identify moderating factors influencing adherence to the LIMONCELLO intervention

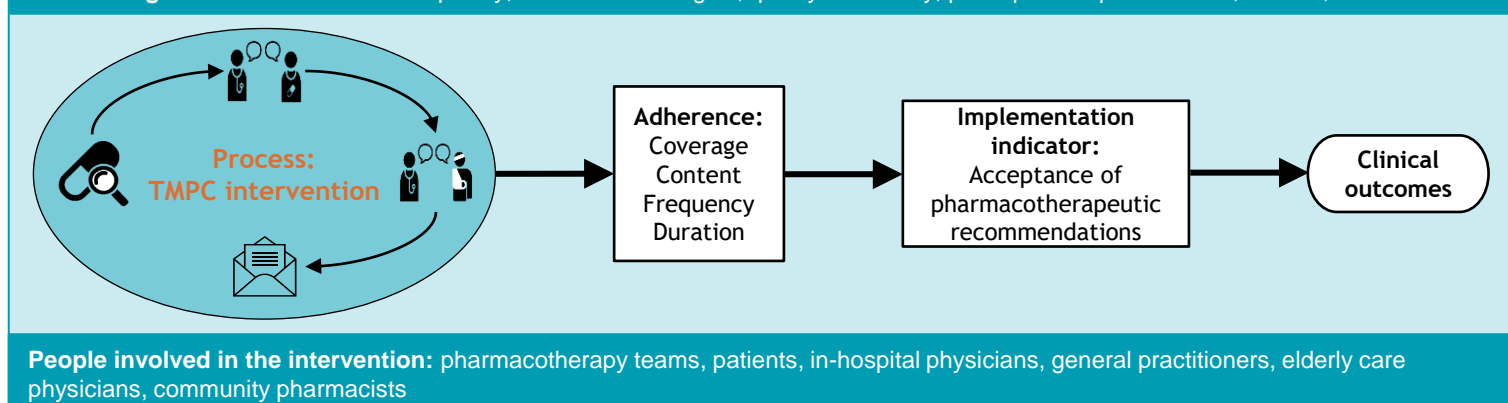


**Figure 1: TMPC intervention of LIMONCELLO**, conducted by a pharmacotherapy team (in-hospital physicians and pharmacists), consisting of: 1. Pharmacotherapeutic analysis, 2. Transitional multidisciplinary discussion, 3. Patient interview, 4. Pharmacotherapeutic discharge letter

## Methods

- Process evaluation guided by the adapted **Conceptual Framework for Implementation Fidelity**
- Mixed-methods design:
  - Semi-structured interviews** with patients and pharmacotherapy team members on their experiences with TMPC and perceived barriers/facilitators
  - Surveys** among general practitioners, community pharmacists, and in-hospital physicians on their experiences with TMPC
  - Quantitative data** on patient selection, time investment, adherence to intervention components and pharmacotherapeutic recommendations

**Moderating factors:** Intervention complexity, facilitation strategies, quality of delivery, participant responsiveness, context, recruitment



**Figure 2: Adapted version of the Conceptual Framework for Implementation Fidelity** for assessing implementation fidelity for the TMPC intervention of LIMONCELLO. Implementation fidelity is the measurement of adherence in categories coverage, content, frequency and duration.

## Outcomes

- Implementation fidelity will be independently rated by two researchers per component as **high**, **moderate** or **low**
- Moderating factors will be categorized as either facilitators or barriers to implementation

## Conclusion

- This process evaluation will enhance understanding of the LIMONCELLO-trial outcomes
- Findings will help identify barriers and facilitators for implementation of Transitional Multidisciplinary Pharmacotherapeutic Care in clinical practice