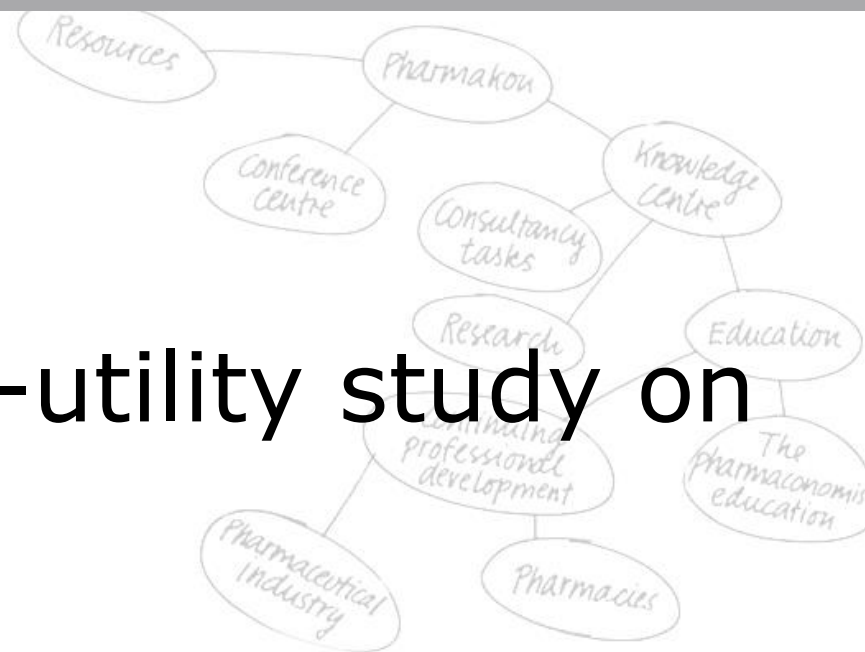


A protocol for a cost-utility study on medication reviews

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Why a cost-utility study?

Medication reviews

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showing an increase in hospital admissions. Robust health economic studies of medication reviews remain rare. However a review of cost-effectiveness analyses of medication reviews found no studies in which the cost of the intervention was greater than the benefit.

Cost-Utility Analysis of a Medication Review with Follow-Up Service for Older Adults with Polypharmacy in Community Pharmacies in Spain: The conSIGUE Program

Francisco Jódar-Sánchez^{1,2} · Amaia Malet-Larrea³ · José J. Martín⁴ ·

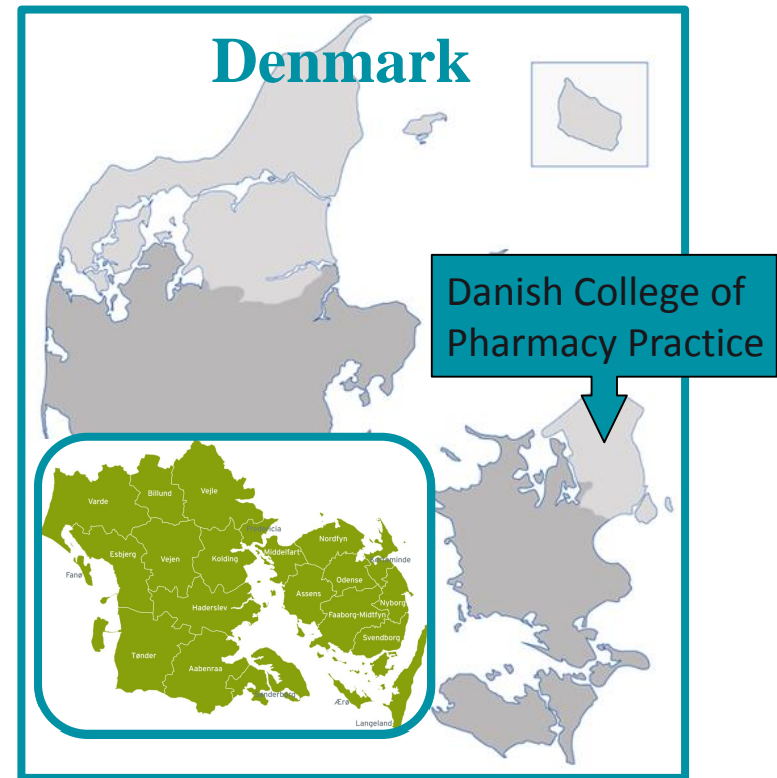
Leticia García-Mochón⁵ · M. Puerto López de
Miguel A. Gastelurrutia-Garralda⁶ · Victoria
Daniel Sabater-Hernández^{6,7} · Loreto Sáez-Be

Conclusion The MRF service is an effective intervention for optimizing prescribed medication and improving quality of life in older adults with polypharmacy in community pharmacies. The results from the cost-utility analysis suggest that the MRF service is cost effective.

Study design



DENMARK



Study setting

• 28

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Patient inclusion criteria

• 65 years or older

• Using 5 or more prescribed medications

• Community dwelling elderly

• Not receiving any council

assisted medication care at home




Intervention

- Medication review
- Protocol from the Association of Danish Pharmacies was applied by certified pharmacists
- Type 2A (PCNE)
- Delivered by community pharmacy in private consultation area
- Identified Drug Related Problems (DRP) will be referred to the general practitioner

„Intermediate“

Type 2a) Medication history + patient interview

- MUR, Polymedication-Check
- „Brown Bag“-Method

| Medi- cation history | Patient | Clinical data | Information source |
|----------------------------|---------|------------------|--|
| + | + | |  |

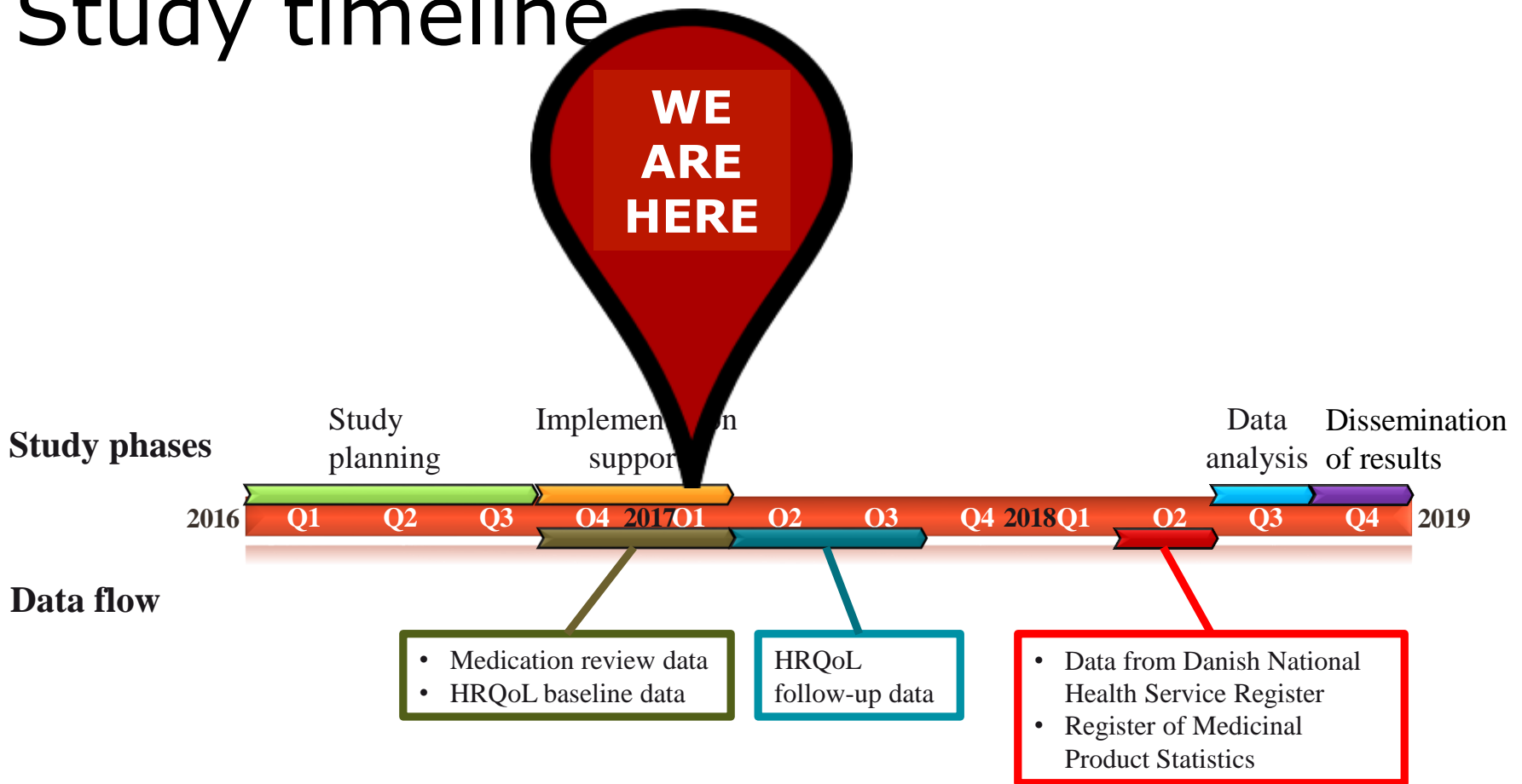
Messerli 2013

| Outcome measures | Data source |
|---|--|
| Costs related to visits to general practitioner | Danish National Health Service Register |
| Costs related to visits to accident & emergency departments | Danish National Health Service Register |
| Costs related to hospital admissions* | Danish National Health Service Register |
| Time spent on medication review | Pharmacy |
| Health Related Quality of Life (EQ-5d) | Pharmacy |
| Number, type and cost of medicine used | Register of Medicinal Product Statistics |

Additional points of study:

- Implementation
- Process outcomes
- Patient satisfaction

Study timeline



Preliminary descriptive data (n=572)

| Gender | Number | Age (average years) | Medicines (average no) | Medical conditions (average no) |
|---------------|---------------|------------------------------------|-----------------------------------|--|
| Women | 276 | 76,0 | - | - |
| Men | 296 | 75,1 | - | - |
| Total/average | 572 | 75,5 | 9,0 | 3,4 |

Future implications

Results from this cost-utility study will generate some of the evidence needed to make a valid assessment by policymakers for the support of government-funded medication reviews of elderly patients at community pharmacies

Acknowledgement

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- Association of Danish Pharmacies
- Project group, Pharmakon
- Participating pharmacies in Southern Region of Denmark