

INTERNATIONAL DEPRESCRIBING JOURNAL CLUB  
Monday 19th June 16:00-17:00 CET



**Family Conferences to facilitate shared prioritisation and  
deprescribing in frail elderlies with polypharmacy cared for at home.  
Results from of a pragmatic cluster randomized trial in primary care**

**Mortsiefer A, Löscher S., Wilm S.** Institut für Allgemeinmedizin, Uni Düsseldorf

**Altiner A., Wollny A, Ritzke M, Drewelow E.** Institut für Allgemeinmedizin, Universitätsmedizin Rostock

**Thürmann P, Bencheva V.** Lehrstuhl für Klinische Pharmakologie, Uni Witten/Herdecke

**Icks A, Montalbo J.** Institut für Versorgungsforschung u. Gesundheitsökonomie, Uni Düsseldorf

**Meyer G, Abraham J.** Institut für Gesundheits- und Pflegewissenschaft, Uni Halle/Wittenberg

**Wiese B.** Med. Statistik und IT-Infrastruktur, Institut für Allgemeinmedizin, MHH Hannover



# IAMAG

Institute of General Practice and Primary Care  
Witten/Herdecke University, Faculty of Health





## Frailty

### Definition

is an „aging-related syndrome of physiological decline, characterized by marked vulnerability to adverse health outcomes“

Fried 2001



**1 Very Fit** – People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.



**2 Well** – People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally.



**3 Managing Well** – People whose medical problems are well controlled, but are not regularly active beyond routine walking.



**4 Vulnerable** – While not dependent on others for daily help, often symptoms limit activities. A common complaint is being “slowed up”, and/or being tired during the day.



**5 Mildly Frail** – These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.



**6 Moderately Frail** – People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.



**7 Severely Frail** – Completely dependent for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).



**8 Very Severely Frail** – Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.

## CSHA Clinical Frailty Scale

Rockwood 2005, 2007- 2009)

# Polypharmacy

## *Definition*

= Intake of five or more different drugs per day



- Polypharmacy can trigger or increase frailty
- Reduction of Polypharmacy is a promising intervention to improve safety of geriatric patients

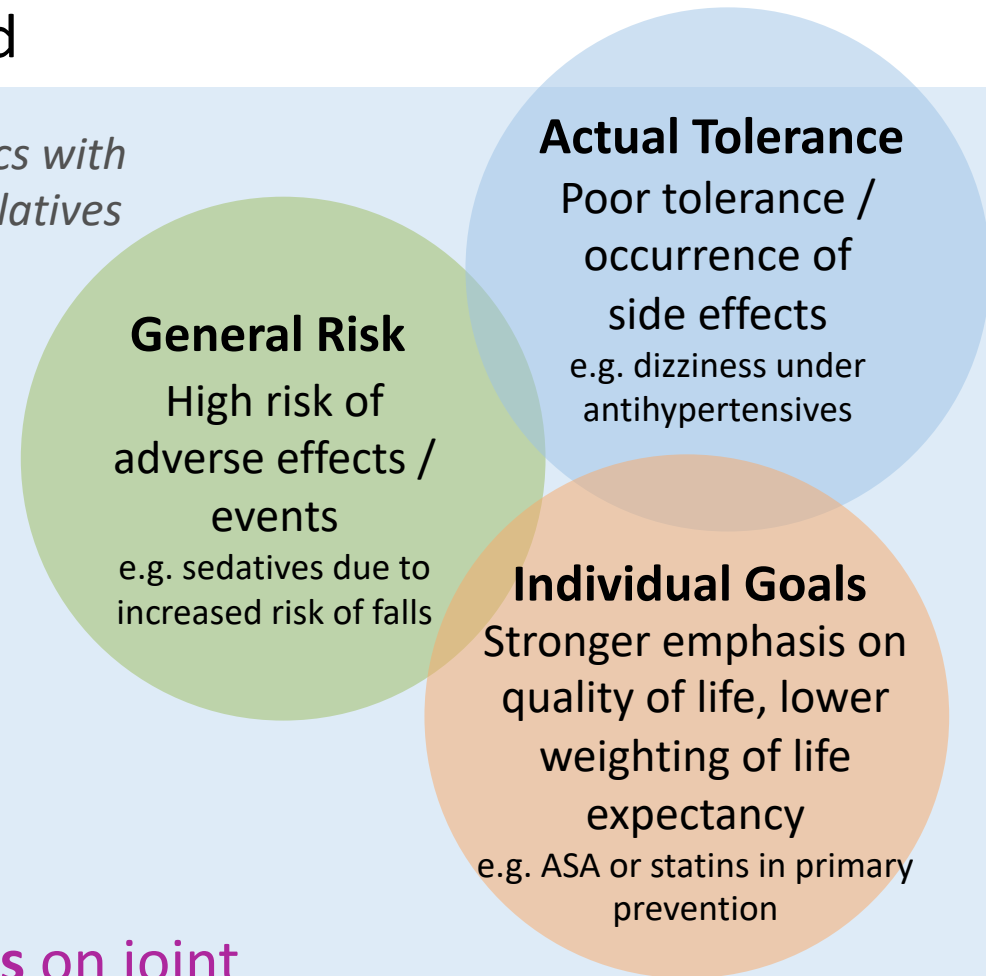
# Deprescribing

## Definition

... is the planned and supervised process of dose reduction or stopping of medication that might be causing harm, or no longer be of benefit

Deprescribing needs **good communication** between all actors involved

*Discussion topics with patients and relatives*



## Research Question

to investigate the effects of **family conferences** on joint prioritisation and deprescribing for frail outpatients with polypharmacy

## Study Design

Cluster randomised controlled trial

## Assessments

- by GPs (from records) and by study nurses (interviews)
- **T0** Baseline, **T1** after 6 months, **T2** after 12 months

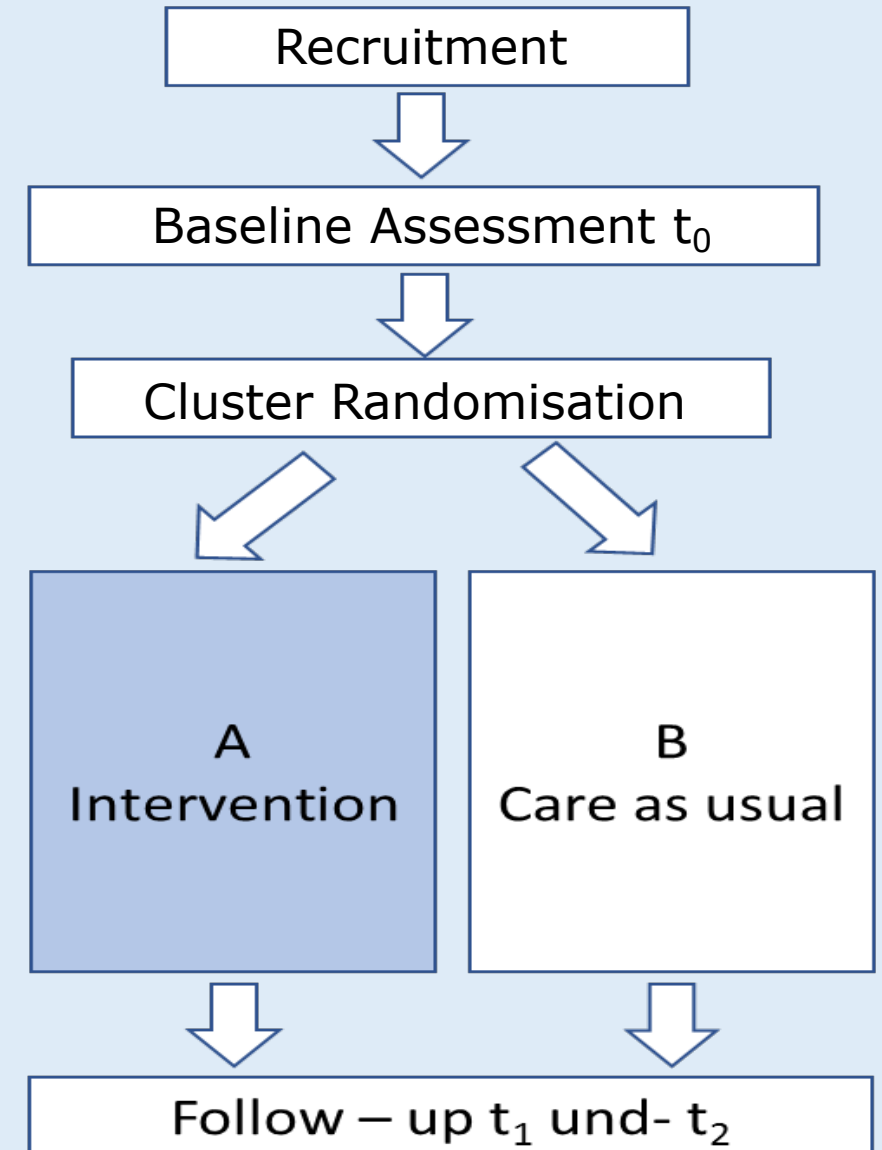
## Outcomes

### Primary Outcome:

- Mean number of hospitalisations

### Secondary Outcomes:

- Mean number of drugs
- Potentially inappropriate medications (Eu7-PIMs)
- Geriatric assessment
- Health economic evaluation



# Training concept for GPs & developed tools

- Conduction of three family conferences
  - Guideline Family Conference No. 1

**Preparation**

- Making an **appointment** with the patient, the relative and if necessary, care service
- Update **medication plan**, print out twice and take it with you  
*(Place a copy in the COFRAIL project folder)*
- **Using the deprescribing guide, decide which medication should be considered for discontinuation** (contact the pharmacology hotline if necessary)

**Conduction of the 1st family conference**



**Start:**

- Clarify the **setting** (e.g. sitting together at the same table)
- Explain the **agenda**: topic drugs, further topic(s)
- Determine needs (optional use of the patient preparation sheet)
- Agree **communication rules** (e.g. everyone should have a say)



**Medical Message on Deprescribing:** „With increasing frailty, the tolerability and benefit of many drugs is no longer guaranteed. Stopping medication could stabilise your state of health (e.g. with regard to mobility/ ability to move) and could reduce the risk of emergency events!“



**Medication Check:** Putting all drug **packages on the table** and discuss them one by one, **discuss possible options** for change for each drug:



**Tolerance** "How do you tolerate the drug?"



**Therapeutic Goal** "What is our goal with this drug?"



**Risk** "What are the potential risks associated with this drug?"



**Final organisational steps:**

- **Update the medication plan** by hand for the patient / care service
- Agree on further follow-up checks and follow-up appointment
- **Fill in the COFRAIL result sheet** and leave a copy with the patient  
*(take the original with you, submit to the study centre and place it to the COFRAIL project folder)*

**Follow-up**

- **Update the medication plan**, print out twice, send it to the patient/ if necessary, also to the care service *(place a copy in the COFRAIL project folder)*
- **Follow-up checks/ follow-up appointment** (as agreed with the patient)

**of non-pharmacological actions**

physiotherapy, occupational therapy, medical service, preventive check-ups (e. g. cancer

ent. Use the following questions<sup>1</sup> to identify (if applicable) are available to use. Note the patient, taking into account existing risks requiring action.

Does the patient have a response/ a problem?	Agreed actions
.....	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....
.....	.....
Yes/ <input type="checkbox"/> No	.....

<sup>1</sup> provided by Junius-Walker (not published), English



# Training concept for GPs & developed tools

- Conduction of three family conferences

➤ *Guideline Family Conference No. 1*

- Consideration of non-pharmacological needs

➤ Non-pharmacological toolbox incl. *Checklist and Needs Analysis Manual*

- Recommendations on deprescribing

➤ *Deprescribing Manual*

### Preparation

- Making an **appointment** with the patient
- Update **medication plan**, print it out  
*(Place a copy in the COFRAIL project folder)*
- Using the **deprescribing guide** to discuss the need for **discontinuation** (contact the pharmacist if necessary)

### Conduction of the 1st family conference



#### Start:

- Clarify the **setting** (e.g. sitting in a quiet room)
- Explain the **agenda**: topic of the conference, duration, and the role of each participant
- Determine needs (optional) and agree on the **agenda**
- Agree **communication rules** (e.g. no mobile phones, no interruptions)



#### Medical Message on Deprescribing

*and benefit of many drugs is not always clear. It is important to discuss your state of health (e.g. with regard to the risk of emergency events)!"*



#### Medication Check: Putting the patient's perspective

by one, **discuss possible options** for the patient

**Tolerance** "How do you feel about the medication?"

**Therapeutic Goal** "What do you want to achieve with the medication?"

**Risk** "What are the possible risks of the medication?"



#### Final organisational steps

- **Update the medication plan** and discuss it with the patient
- Agree on further follow-up (e.g. when to meet again)
- **Fill in the COFRAIL result sheet** (take the original with you, save a copy in the project folder)

### Follow-up

- **Update the medication plan**, also to the care service *(place a copy in the project folder)*
- **Follow-up checks/ follow-up** (e.g. when to meet again)

### CHECKLIST

#### for joint problem identification and determination of non-pharmacological actions

I) Make a note of any existing medical services: Remedies (e. g. physiotherapy, occupational therapy, medical foot care), aids (e. g. hearing aids, visual aids, walking aids), nursing service, preventive check-ups (e. g. cancer screening).

.....

.....

II) Discuss existing problems in everyday life together with the patient. Use the following questions<sup>1</sup> to identify problems. In addition, the *handbook* and the *preparation sheet* (if applicable) are available to use. Note the patient's responses and whether there is a problem. Discuss with the patient, taking into account existing medical services (see I), which actions should be agreed for problems requiring action.

Identification of problems and problem areas	Patient response/ Is this a problem?	Agreed actions
1. Performance in everyday life <i>How much difficulty did you have doing usual activities or tasks, both inside and outside the house due to the state of health or mood? <sup>2</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
2. Social environment <i>Do you have someone who would be able to help you in case of illness or emergency, e. g. after a fall? Do you have anyone to trust or confide in? <sup>3</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
3. Mobility/agility <i>Are you physically active? If no, why not? You can no longer perform physical activities as usual (e.g., intensity, frequency)? If yes, why not? <sup>4</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
4. Falls <i>How many falls have you had over the last 6 months? <sup>5</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
5. Dizziness <i>Have you had dizziness in the last 6 months? Does the dizziness affect you in everyday life? <sup>6</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
6. Chronic pain <i>Are you currently in pain? If so, has it been going on for a long time? <sup>7</sup> How severe has your pain been in the last four weeks? To what extent has the pain hindered you in your everyday activities? <sup>8</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....
7. Vision impairments <i>Do you have difficulty seeing newspaper print even with glasses? Do you have difficulty recognizing people across the road even with glasses? <sup>8</sup></i>	..... ..... <input type="checkbox"/> Yes/ <input type="checkbox"/> No	..... .....

<sup>1</sup> English version of questions taken from the MAGIC-Assessment (short version of STEP) provided by Junius-Walker (not published), English version of additionally derived or adopted questions by the COFRAIL study group

<sup>2</sup> MAGIC question 1, Version 2013

<sup>3</sup> MAGIC question 7, Version 2016

<sup>4</sup> COFRAIL question, Version 2019 (derived from the DEGAM Guideline)

<sup>5</sup> MAGIC question 4, Version 2016

<sup>6</sup> COFRAIL question, Version 2019 (derived from the DEGAM Guideline)

<sup>7</sup> COFRAIL question, Version 2019 (adopted from DEGAM Guideline)

<sup>8</sup> MAGIC question 2, Version 2016

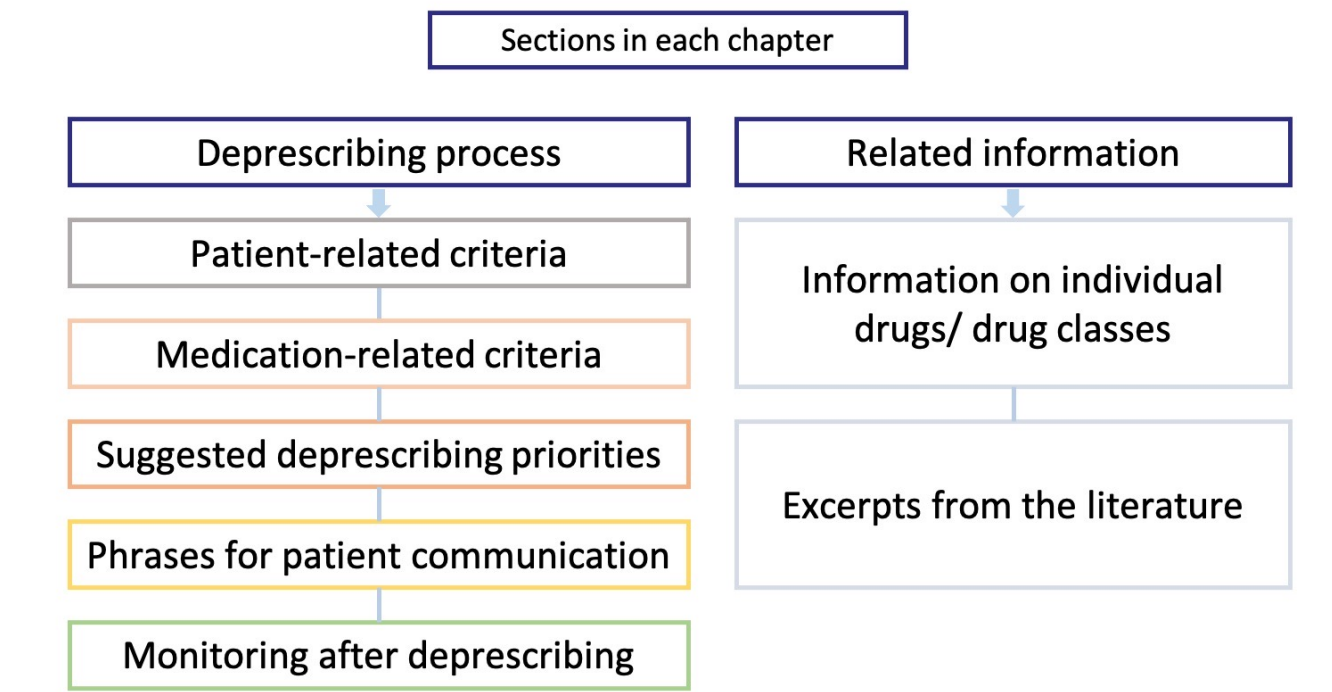
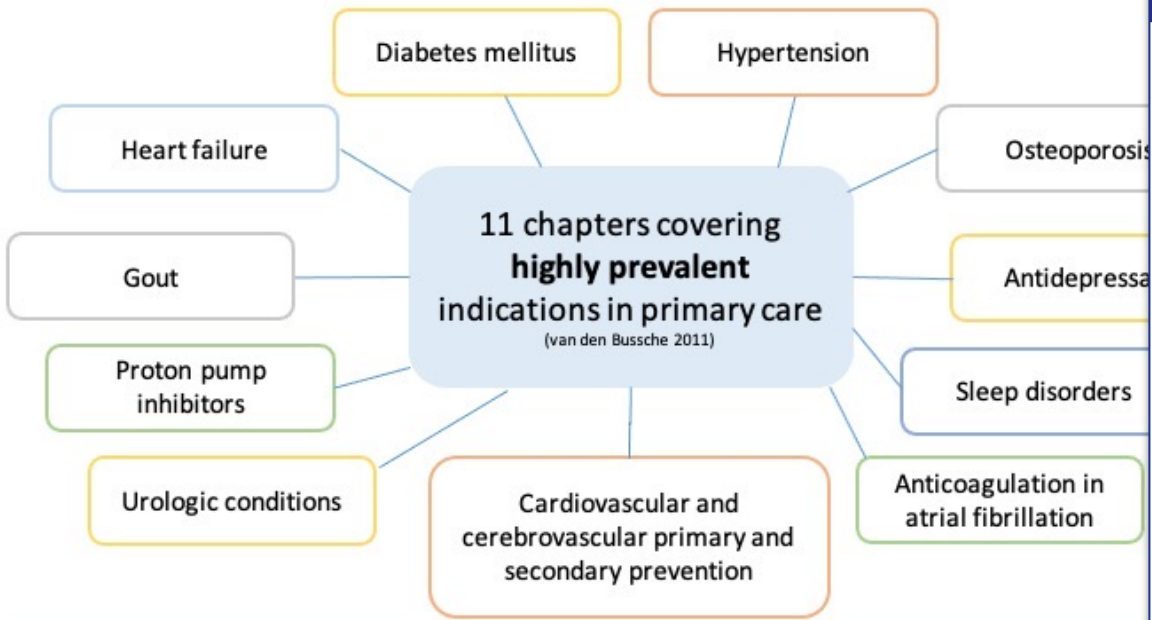
Intervention

# Deprescribing Manual: Content and Composition



Content

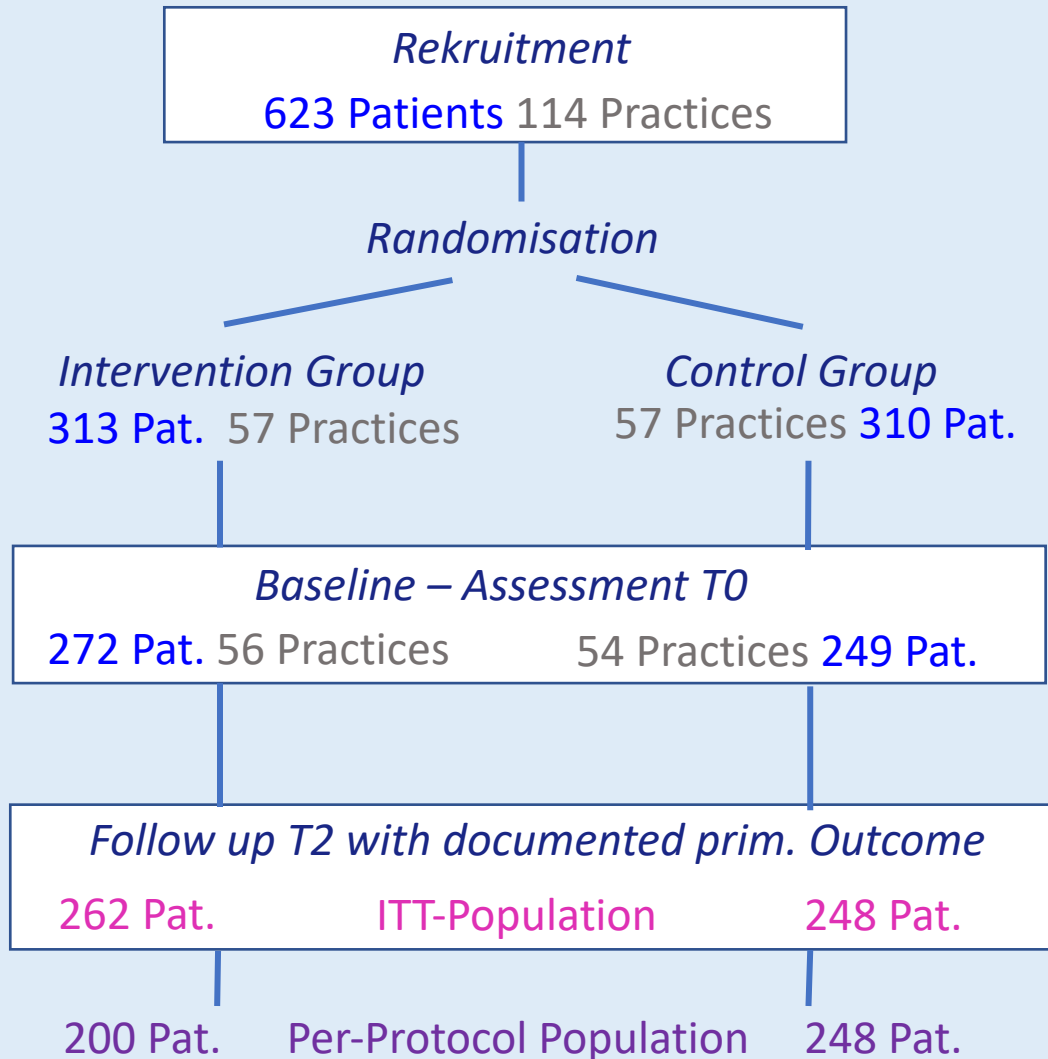
Composition



Abridged version

Deprescribing algo

## Study Population



<b>Baseline Charakteristics</b>	<i>Intervention</i>	<i>Control</i>
No.	272	249
Female, %	66.5	70.3
Age Mean value ( $\pm$ SD)	83.69 (6.08)	83.29 (6.29)
Clinical Frailty Scale (CFS)		
5=mild, %	51.1	51.5
6=moderate, %	38.1	37.7
7=severe, %	10.8	10.9
No. Diagnoses Mean value ( $\pm$ SD)	11.77 (4.11)	12.11 (4.12)
Medications Mean value ( $\pm$ SD)	9.28 (3.78)	9.37 (3.40)

## Primary Outcome

Does the intervention lead to an increase in patient safety with a **reduction in hospitalisation admissions**?

Study participants	Mean number of hospitalisations * (± SD)		Mixed model ** IRR [95% CI]
	Intervention group	Control group	
ITT (n=510)	<b>0.98</b> (±1.72)	<b>0.99</b> (± 1.53)	1.08 [0.84; 1.39] (p=0.533)
Mixed-effect Model Poisson Regression, practices were taken into account as random effect			
*adjusted for an observation period of 12 months			
** Adjusted variables: Observation period, age, sex, number chronic diseases, retrospective hospitalisation rate at baseline			
IRR = Incidence Rate Ratio; ITT = Intention-to-treat Analyse; SD = Standard Deviation; 95% CI = 95% Confidence Interval			



**No difference** in hospital admissions between intervention and control group

## Secondary Outcomes I

## Number of medications

Study participants	Mean number of drugs ( $\pm$ SD)		Mixed model * IRR [95% CI]
	Intervention group	Control group	
T0 at baseline	<b>8.98</b> ( $\pm$ 3.56) (N=198)	<b>9.24</b> ( $\pm$ 3.44) (N=184)	-
T1 after 6 months	<b>8.11</b> ( $\pm$ 3.21) (N=193)	<b>9.32</b> ( $\pm$ 3.59) (N=181)	0.88 [0.82; 0.95] ( <b>p &lt; 0.001</b> )
T2 after 12 months	<b>8.49</b> ( $\pm$ 3.63) (N=197)	<b>9.16</b> ( $\pm$ 3.42) (N=184)	0,94 [0.88; 1.01] (p=0.073)

\* Mixed-effect poisson regression model adjusted for the number of medications at Baseline. Practices were taken into account as random effect.  
IRR = Incidence Rate Ratio; SD = Standard Deviation; 95% CI = 95% Confidence Interval



**Significant difference of the number of drugs after 6 months**  
no significant difference after 12 months

## Secondary Outcomes I

## Number of potentially inappropriate medications (PIM)

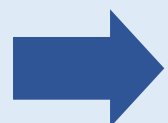
	Mean number of EU(7) PIMs ( $\pm$ SD)		Mixed model *
	Intervention group	Control group	IRR [95% CI]
T0 at baseline	<b>1.57</b> ( $\pm$ 1.15) (N=176)	<b>1.80</b> ( $\pm$ 1.16) (N=171)	-
T1 after 6 months	<b>1.30</b> ( $\pm$ 1.05) (N=176)	<b>1.71</b> ( $\pm$ 1.25) (N=171)	<b>0.84</b> [0.70;0.99] <b>(p =0.043)</b>
T2 after 12 months	<b>1.45</b> ( $\pm$ 1.21) (N=176)	<b>1.64</b> ( $\pm$ 1.15) (N=171)	<b>0.97</b> [0.82;1.15] (p=0.720)

\*Mixed-effect Poisson regression model adjusted for the number of EU(7) PIMs at baseline. Practices were taken into account as a random effect.  
IRR = Incidence Rate Ratio; SD = Standard Deviation; 95% CI = 95% Confidence Interval

→ **Significant difference after 6 months**, no significant difference after 12 months

## Secondary Outcomes II

## Functional status of patients in geriatric assessment



**no differences** between intervention and control group



Original Investigation | Geriatrics

## Family Conferences to Facilitate Deprescribing in Older Outpatients With Frailty and With Polypharmacy The COFRAIL Cluster Randomized Trial

Achim Mortsiefer, PhD; Susanne Löscher, MSc; Yekaterina Pashutina, MSc; Sara Santos, MSc; Attila Altiner, PhD; Eva Drewelow, MSc; Manuela Ritzke, MSc; Anja Wollny, MSc; Petra Thürrmann, PhD; Veronika Bencheva, MSc; Matthias Gogolin, MSc; Gabriele Meyer, PhD; Jens Abraham, MSc; Steffen Fleischer, MSc; Andrea Icks, PhD; Joseph Montalbo, MSc; Birgitt Wiese, DiplMath; Stefan Wilm, PhD; Gregor Feldmeier, MD

### Abstract

**IMPORTANCE** For older adults with frailty syndrome, reducing polypharmacy may have utility as a safety-promoting treatment option.

**OBJECTIVE** To investigate the effects of family conferences on medication and clinical outcomes in community-dwelling older adults with frailty receiving polypharmacy.

**DESIGN, SETTING, AND PARTICIPANTS** This cluster randomized clinical trial was conducted from April 30, 2019, to June 30, 2021, at 110 primary care practices in Germany. The study included community-dwelling adults aged 70 years or older with frailty syndrome, daily use of at least 5 different medications, a life expectancy of at least 6 months, and no moderate or severe dementia.

**INTERVENTIONS** General practitioners (GPs) in the intervention group received 3 training sessions on family conferences, a deprescribing guideline, and a toolkit with relevant nonpharmacologic interventions. Three GP-led family conferences for shared decision-making involving the participants and family caregivers and/or nursing services were subsequently held per patient at home over a period of 9 months. Patients in the control group received care as usual.

**MAIN OUTCOMES AND MEASURES** The primary outcome was the number of hospitalizations within 12 months, as assessed by nurses during home visits or telephone interviews. Secondary outcomes included the number of medications, the number of European Union list of the number of potentially inappropriate medication (EU[7]-PIM) for older people, and geriatric assessment parameters. Both per-protocol and intention-to-treat analyses were conducted.

**RESULTS** The baseline assessment included 521 individuals (356 women [68.3%]; mean [SD] age, 83.5 [6.17] years). The intention-to-treat analysis with 510 patients showed no significant difference

### Key Points

**Question** Do general practitioner-led family conferences promoting deprescribing in older adults with frailty and polypharmacy result in fewer hospitalizations?

**Findings** In this cluster randomized trial of 521 community-dwelling older adults with frailty and polypharmacy, the number of hospitalizations over 12 months did not differ significantly among those who received a maximum of 3 family conferences. The number of potentially inappropriate medications decreased significantly in the intervention group after 6 months, but the reduction was not retained at 12 months.

**Meaning** The findings of this trial suggest that family conferences for shared decision-making can successfully initiate the process of discontinuing medication, but no clinical benefit in terms of hospitalization was found.

Mortsiefer A, Löscher S, Pashutina Y, et. al. Family Conferences to Facilitate Deprescribing in Older Outpatients With Frailty and With Polypharmacy: The COFRAIL Cluster Randomized Trial. JAMA Netw Open. 2023 Mar 1;6(3):e234723. doi: 10.1001/jamanetworkopen.2023.4723



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## PEC Innovation

journal homepage: [www.elsevier.com/locate/pecinn](http://www.elsevier.com/locate/pecinn)



### Development of a shared decision-making intervention to improve drug safety and to reduce polypharmacy in frail elderly patients living at home



E. Drewelow <sup>a,\*</sup>, M. Ritzke <sup>a,1</sup>, A. Altiner <sup>a</sup>, A. Icks <sup>b</sup>, J. Montalbo <sup>b</sup>, V. Kalitzkus <sup>c</sup>, S. Löscher <sup>c</sup>, Y. Pashutina <sup>c</sup>, S. Fleischer <sup>d</sup>, J. Abraham <sup>d</sup>, P. Thürmann <sup>e</sup>, NK. Mann <sup>e</sup>, B. Wiese <sup>f</sup>, S. Wilm <sup>c</sup>, A. Wollny <sup>a</sup>, G. Feldmeier <sup>a</sup>, T. Buuck <sup>a</sup>, A. Mortsiefer <sup>g</sup>, on behalf of the COFRAIL study group

<sup>a</sup> Institute of General Practice, University Medical Center Rostock, Doberaner Straße 142, 18057 Rostock, Germany

<sup>b</sup> Institute for Health Services and Economics, Centre for Health and Society, Faculty of Medicine, Heinrich-Heine-University Düsseldorf, Moorenstraße 5, 40225 Düsseldorf, Germany

<sup>c</sup> Institute of General Practice, Medical Faculty, Heinrich-Heine-University Düsseldorf, Moorenstraße 5, 40225 Düsseldorf, Germany

<sup>d</sup> Institute for Health and Nursing Science, Medical Faculty, Martin Luther University Halle-Wittenberg, Magdeburger Straße 8, 06112 Halle, Germany

<sup>e</sup> Department of Clinical Pharmacology, School of Medicine, Faculty of Health, Witten/Herdecke University, Heusnerstraße 40, 42283 Wuppertal, Germany

<sup>f</sup> WG Medical Statistics and IT-Infrastructure, Institute of General Practice, Hannover Medical School, Carl-Neuberg-Straße 1, 30625 Hannover, Germany

<sup>g</sup> Institute of General Practice and Primary Care, Faculty of Health, Department of Medicine, Witten/Herdecke University, Alfred-Herrhausen-Straße 50, 58448 Witten, Germany

#### ARTICLE INFO

##### Keywords:

Frailty  
Polypharmacy  
Deprescribing  
Family Conference  
Primary Care

#### ABSTRACT

**Objectives:** For patients with geriatric frailty, reducing inappropriate medication is an important goal to improve patient safety in primary care. GP-side barriers include knowledge gaps, legal concerns, and lack of communication between the actors involved. The aim was to develop a multi-faceted intervention to facilitate deprescribing and shared prioritisation among frail elderlies with polypharmacy living at home.

**Methods:** Mixed methods study including: 1) scoping review on family conferences, expert panels; 2) group discussions with GPs, mapping of needs and challenges in Primary Care; 3) workshops and expert interviews with GPs, patient advocates, researchers as a basis for a theoretical intervention model; 4) piloting.

**Results:** A major challenge for GPs is to conduct a productive discussion with patients and family cares on deprescribing and drug safety. A guideline for a structured family conference with a medication check and geriatric assessment was developed and proved to be feasible in the pilot study.

**Conclusion:** The intervention developed to facilitate deprescribing and shared prioritisation of drug therapy based on family conferences seems suitable to be tested in a subsequent cRCT.

**Innovation:** Adapting family conferences to primary care for frail patients with polypharmacy.

Drewelow E, Ritzke M, Altiner A, et al.  
Development of a shared decision-making intervention to improve drug safety and to reduce polypharmacy in frail elderly patients living at home.

PEC Innov. 2022 Mar 24;1:100032.  
doi: 10.1016/j.pecinn.2022.100032



## Development of a deprescribing manual for frail older people for use in the COFRAIL study and in primary care

Nina-Kristin Mann , Sven Schmiedl, Achim Mortsiefer, Veronika Bencheva, Susanne Löscher, Manuela Ritzke, Eva Drewelow, Gregor Feldmeier, Sara Santos, Stefan Wilm and Petra A. Thürmann; for the COFRAIL study group

### Abstract

**Introduction:** Many older adults are affected by multimorbidity and subsequent polypharmacy which is associated with adverse outcomes. This is especially relevant for frail older patients. Polypharmacy may be reduced via deprescribing. As part of the complex intervention in the COFRAIL study, we developed a deprescribing manual to be used by general practitioners (GPs) in family conferences, in which GPs, patients and caregivers jointly discuss treatments.

**Methods:** We selected indications with a high prevalence in older adults in primary care (e.g. diabetes mellitus, hypertension) and conducted a literature search to identify deprescribing criteria for these indications. We additionally reviewed clinical practice guidelines. Based on the extracted information, we created a deprescribing manual which was then piloted in an expert workshop and in family conferences with volunteer patients according to the inclusion and exclusion criteria of the study protocol.

**Results:** Initially, 13 indications/topics were selected. The literature search identified deprescribing guides, reviews and clinical trials as well as lists of potentially inappropriate medication and systematic reviews on the risk and benefits of specific drugs and drug classes in older patients. After piloting and revisions, the deprescribing manual now covers 11 indications/topics. In each chapter, patient- and medication-related deprescribing criteria, monitoring and communication strategies, and information about concerns related to the use of specific drugs in older patients are provided.

**Discussion:** We found varying deprescribing strategies in the literature, which we consolidated in our deprescribing manual. Whether this approach leads to successful deprescribing in family conferences is being investigated in the cluster-randomised controlled COFRAIL study.

*Ther Adv Drug Saf*

2022, Vol. 13: 1–11

DOI: 10.1177/  
20420986221122684

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Correspondence to:

**Nina-Kristin Mann**  
Department of Clinical  
Pharmacology, School  
of Medicine, Faculty of  
Health, Witten/Herdecke  
University, 58448 Witten,  
Germany.  
[nina-kristin.mann@uni-wh.de](mailto:nina-kristin.mann@uni-wh.de)

**Sven Schmiedl**  
**Petra A. Thürmann**  
Department of Clinical  
Pharmacology, School  
of Medicine, Faculty  
of Health, Witten/  
Herdecke University,  
Witten, Germany; Philipp  
Klee-Institute for Clinical  
Pharmacology, Helios  
University Hospital  
Wuppertal, Wuppertal,  
Germany

**Achim Mortsiefer**  
Institute of General  
Practice and Primary Care,  
Chair of General Practice  
II and Patient-Centredness  
in Primary Care, School  
of Medicine, Faculty of  
Health, Witten/Herdecke  
University, Witten,  
Germany; Institute of  
General Practice, Medical  
Faculty, Heinrich-Heine-  
University Düsseldorf,  
Düsseldorf, Germany

Mann NK, Schmiedl S, Mortsiefer A, et al. Development of a deprescribing manual for frail older people for use in the COFRAIL study and in primary care.

*Ther Adv Drug Saf.* 2022 Sep 6;13:20420986221122684.  
doi: 10.1177/20420986221122684



- The COFRAIL – Intervention had no influence on hospitalisations (*Prim. Outcome*)
- The number of medications per patient decreased by 0.87 in the intervention group after six months
- Family conferences for shared decision-making can successfully initiate the process of deprescribing

### Point for discussion

- Would you generally recommend a non-inferiority approach to deprescribing studies?

95th EGPRN Meeting Oct. 2022 - Antwerp, Belgium



# Family Conferences to facilitate shared prioritisation and deprescribing in frail elderlies with polypharmacy cared for at home. Results from of a pragmatic cluster randomized trial in primary care

**Mortsiefer A, Löscher S., Wilm S.** Institut für Allgemeinmedizin, Uni Düsseldorf

**Altiner A., Wollny A, Ritzke M, Drewelow E.** Institut für Allgemeinmedizin, Universitätsmedizin Rostock

**Thürmann P, Bencheva V.** Lehrstuhl für Klinische Pharmakologie, Uni Witten/Herdecke

**Icks A, Montalbo J.** Institut für Versorgungsforschung u. Gesundheitsökonomie, Uni Düsseldorf

**Meyer G, Abraham J.** Institut für Gesundheits- und Pflegewissenschaft, Uni Halle/Wittenberg

**Wiese B.** Med. Statistik und IT-Infrastruktur, Institut für Allgemeinmedizin, MHH Hannover