Supplement 2 to

Expanded nursing competencies to improve person-centred care for nursing home residents with complex health needs (Expand-Care): study protocol of an exploratory cluster-randomised trial

Description of the Expand-care intervention components and implementation strategies based on the TIDieR template (Template for Intervention Description and Replication, Hoffmann et al. 2014¹)

In the following, the Expand Care intervention is presented in terms of the rationale, the target group, the way of implementation and the materials used. The intervention is defined as a new role profile for nurses with expanded competencies for person-centred care. This role is specified by intervention components (activities) at a resident-related and an organisation related level, which are additionally differentiated as core and optional elements (Fig. 1, Table 1).

Additionally, strategies to ensure the implementation of the intervention are presented according to the same scheme (Table 2).

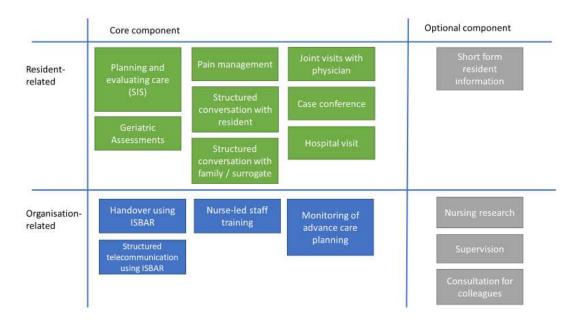


Figure 1: Core and optional components of the Expand-Care intervention. SIS: Structured Information Collection®.

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¹ Hoffmann TC, Glasziou PP, Boutron I, Milne R, Perera R, Moher D, et al. Better reporting of interventions: template for intervention description and replication (TIDieR) checklist and guide. BMJ. 2014;348:g1687.

Table 1: Intervention components

Planning and evaluating care Residents Place: nursing home (NH) PEPA PEPA carries out planning and evaluation of a decision algorithm. Based on the residents (e.g. moving in, settling in, increase in care needs, health deterioration, hospital stary). SIS-based dec gorithm: planning and evaluation of a decision algorithm results, nursing measures (as well as intervention components such as assessments or structured conversations) are implemented or medical measures are initiated. Guiding points for the decision algorithm are key events that are defined on the basis of the residents (e.g. moving in, settling in, increase in care needs, health deterioration, hospital stary).	
that considers the long-term course of defined events, changes in the condition are better perceived and activities/services can be derived in advance and initiated or adapted in a timely manner. The planning and evaluation of the care situation is the central element for deciding on the use and linkage of different intervention components. Structured according to the SIS® [strukturierte Informationssammlung] (structured assessment plan), all elements of a complex nursing measures (as well as intervention components. Structured according to the SIS® [strukturierte Informationssammlung] (structured assessment plan), all elements of a complex nursing assessment are mapped and the component is linked to the existing system of care planning so that integration of aceroism algorithm are key events that are defined on the basis of the resident's transition for acero by means of a decision algorithm. Based on the results, nursing measures (as well as intervention components such as assessments or structured conversations) are implemented or medical measures are initiated. Guiding points for the decision algorithm are key events that are defined on the basis of the resident's transition for acero in the residents (e.g. moving in, settling in, increase in care needs, health deterioration, by advance and intervention components is linked to the existing system of care planning and evaluation of acero by means of a decision algorithm. Based on the results, nursing measures (as well as intervention components such as assessments or structured conversations) are implemented or medical measures are initiated. Guiding points for the decision algorithm are key events that are defined on the basis of the residents (e.g. moving in, settling in, increase in care needs, health deterioration, stay).	
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Structured conversa- Residents Structured discussions en- PEPA Personal structured At regular intervals Interview guide	e for
tion with resident sure that residents have the conversation with res- and at key events structured conversation.	
Setting: NH (res- opportunity to reflect and ex- idents in an undis- defined in the SIS- with residents	
idents' room or press their needs and that turbed setting. Topics based decision algo-the SIS).	(III NEG 10
counselling these are considered in their are life in the facility; rithm (e.g. moving in,	
room) care. Residents perceive self-care, chronic ill- deterioration in	
that their right to make deci-	
sions is taken seriously. Sions S	

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Intervention compo- nent	Target group Setting	Why?	Who imple- ments?	How?	When and how much?	Materials
		Guiding questions ensure that all relevant topics are considered. The component is linked to the SIS and thus to the existing system of care planning, so that integration is supported.		doctors, therapists, relatives; advance care planning (sta- tus).		
Structured conversation with relatives	Relatives / sur- rogates Setting: NH (res- idents' room or counselling room)	Structured discussions ensure that the perspective of relatives and important information from them are considered in care. The organisation of medical care and social support can thus be coordinated with the relatives. The conversation's structure is based on the structure of the conversation with residents, so that it is possible to link results with the documentation.	PEPA	Personal structured conversation with relatives, if necessary together with the resident.	At regular intervals and at key events defined in SIS-based decision algorithm (e.g. moving in, dete- rioration in health, hospitalisation).	Interview guide for structured conversa- tions with relatives (linked to the SIS).
Joint visit with General practitioner (GP)	General practitioners and specialists Residents Relatives Setting: NH	By accompanying physicians' ward rounds, current observations, questions and needs of the residents can be clarified directly and more efficient communication (differentiated use of ward rounds, fax and telephone calls) can be promoted. The ISBAR scheme promotes the complete and focused transfer of information. The continuous and structured approach promotes regular evaluation and adjustment of the care situation. The	PEPA (or nurse in charge)	Time for joint visits is scheduled in the PEPA's or supervising professional's duties for visits that are scheduled in advance or regularly. Beforehand, the accompanying person compiles information based on the ISBAR scheme.	Depending on on- site visits by the su- pervising physicians	Template for structured transfer of information in handovers (ISBAR scheme, Identification, situation, background, assessment, recommendation).

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nent Settin	1	involvement of residents (and relatives) promotes reg- ular communication between the parties involved. In addi-	ments?		much?	
	1	(and relatives) promotes reg- ular communication between the parties involved. In addi-				
		tion to joint visits, the organi- sation, coordination and evaluation of the visit with GPs within the NH is benefi- cial for interprofessional col-				
Relati Gene tioner cialist Other volve dents care a	dents titives eral practi- ers and spe- ests er parties in- ed in resi- s' medical and nursing eng: NH or al confer-	laboration. Through direct communication of all those involved in resident's care, needs and care can be directly coordinated and timely and needsbased care can be ensured. Participation of residents and relatives supports the person-centred perspective of care. Residents perceive that their right to decide is taken seriously and that care measures address their own wishes. The care situation is evaluated and adapted interprofessionally. By taking a longitudinal view, undesirable events can be anticipated and preventive measures can be taken. The joint holistic and comprehensive view promotes the professional and personal competence of those involved.	PEPA	PEPA organises appointment and carries out preparatory care planning, collects information in advance if necessary, including current or long-term issues.	One case meeting per 6 months	Guideline for case conferences If applicable, video conferencing system and hardware
	dents	By visiting residents during inpatient treatment, ques-	PEPA or nurse in	Visit the clinic, obtain authorisation in ad-	For hospital stays lasting longer than 3	
team		tions that arise due to acute	charge	vance to obtain	days.	

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Intervention compo- nent	Target group Setting	Why?	Who imple- ments?	How?	When and how much?	Materials
	Setting: Hospital	changes in care after the hospital stay can be clarified and prepared in advance. The acute care ward team can be supported in dealing with residents' special needs.		information about the resident's care.		
Pain management	Residents Setting: NH	Residents' quality of life is promoted through the individual support of the pain therapy.	PEPA	Procedure and instruments according to the recommendations of the S3 guideline "Pain assessment in older people in full inpatient care for the elderly" (German Pain Society & German Centre for Neurodegenerative Diseases 2017)	According to the needs of the resident(s)	Templates for instruments according to the S3 guideline "Pain assessment in older people in full inpatient care for the elderly".
Geriatric assess- ments	Inhabitants:in Setting: NH	Through geriatric and nursing assessments, changes in residents' condition are recognised and documented at an early stage, can be adequately communicated and used to support the initiation and evaluation of individual measures.	PEPA or trained profes- sional	Depending on the assessment method	Regularly depending on the assessment and on an ad hoc basis (according to the result of SIS- based decision algo- rithm)	Assessment tools, for example: Mobility Fall Cognition Delir Nutritional status Pain Skin condition Continence Change in medication
Organisation-related	l activities		l			
Care handover according to ISBAR	Nursing team General practi- tioners and spe- cialists	The ISBAR structure ensures complete and efficient communication about the current care needs of the	PEPA, pro- fessionals	The handover of care is structured using the ISBAR scheme.	At every care hando- ver	ISBAR scheme and in- formation materials ex- plaining the application

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Intervention compo- nent	Target group Setting	Why?	Who imple- ments?	How?	When and how much?	Materials
	Other parties in- volved in resi- dents' medical care and nursing	residents. Important information is prioritised.				
Structured (fax) communication	Setting: NH General practitioners and specialists Other parties involved in residents' medical care and nursing Setting: NH	Structured communication ensures that information is passed on in full and that there is an adequate basis for decision-making for GPs and physician specialists, so that decisions can be made more quickly.	PEPA, pro- fessionals	A pre-structured fax form is used for the transmission of infor- mation or enquiries to general practitioners and specialists.	For all fax communications with general practitioners and specialists.	Fax form with ISBAR scheme
Training (on ISBAR)	Nursing team Setting: NH	Through the training, the nursing staff members are introduced to the structured handover and the implementation is practised so that it can be adopted in the handovers without guidance.	PEPA	PEPA organises the training for nursing staff on ISBAR. The training includes information and exercise modules as well as supporting information materials	Once in the study period on the topic of ISBAR	ISBAR scheme and information materials explaining the application Training concept prepared by PEPA as part of the PEPA curriculum.
Monitoring of Advance Care Planning	Nursing team General practi- tioners and spe- cialists Setting: NH	The monitoring of ACP should ensure that existing plans are documented and known. This will improve the conditions for implementing the wishes of the residents.	PEPA	The PEPA checks whether advance care planning or health care planning exists and is documented. PEPA checks the consistency of entries on ACP in the analogue and digital documentation. In case of discrepancies, their PEPA	Regularly and on an ad hoc basis, e.g. after a stay in hospital or health deterioration	Existing documentation of information on ACP in the facility (digital and analogue).

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Intervention compo- nent	Target group Setting	Why?	Who imple- ments?	How?	When and how much?	Materials
Desire to the second	(anti-ma)			initiates clarification, e.g. in cooperation with the ACP facilita- tor of the nursing home.		
Peripheral elements (Participation in evi-	Organisation /	Through specified impulses	PEPA	PEPA identifies	On demand.	
dence-based practice development	Facility Setting: NH	from practice for research, questions relevant to the institution can be worked on in cooperation with nursing scientists. Thus, further development of nursing practice in an evidence-based manner can be supported and quality of care care can be improved.		needs for quality development or research and initiates cooperation with quality management or the University.	On demand.	
Supervision	Nursing team Setting: NH	The targeted discussion of cases from practice that are experienced as difficult on the one hand promotes learning from experience. On the other hand, situations experienced as stressful can be worked through in the team to enhance mutual support and reduce stress.	PEPA	PEPA offers supervision in the form of structured case discussions of about 1 hour. Cases that are experienced as difficult or stressful are selected.	On demand	Background information given as part of the curriculum. Guiding questions for structuring a supervision session.
Collegial counselling	Nursing team Setting: NH	Through the possibility of an individual conversation, topics can be addressed that are not suitable for supervision. In particular, professional uncertainties or one's own mistakes can be discussed and thus learnt from experience.	PEPA	PEPA is available for one-to-one meetings on an ad hoc basis with a focus on pro- fessional discussion.	On demand	Background information given as part of the curriculum.

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Intervention compo-	Target group	Why?	Who imple-	How?	When and how	Materials
nent	Setting		ments?		much?	
Short info sheet	Care team, external health care providers Setting: when care is provided outside the NH, e.g. clinic	Important information about the resident is briefly summarised on an information sheet so that care outside the nursing home can be tailored to residents' individual needs.	Nursing team	The PEPA creates and presents the in- formation sheet and makes sure that the nursing staff imple- ment it.	Initially with all residents [of the study], then event-related (as part of the planning and evaluation of the care situation).	Information Sheet Template

GP: General practitioner; ISBAR: Information, situation, background, assessment, recommendation, template to ensure structured and complete information transfer in handovers; NH: Nursing home; PEPA: German acronym for nurse specialist with expanded competencies for person-centred care; PDL: nurse manager; SIS®: [Strukturierte Informationssammlung] structured plan for the professional assessment of residents' care needs, containing a broad question (What is important to you at the moment?) and six assessment topics (1. Cognitive and communicative abilities; 2. Mobility and agility; 3. Health related requirements and burden; 4. Self-care; 5. Living in social relationships; 6. Living environment) as well as a matrix for the assessment of nursing-sensitive risks within the assessment topics.

Table 2: Implementation strategies

Implementation strategy	Target group Setting	Why?	Who imple- ments?	How?	When and how much?	Materials
Education			•			
PEPA Curriculum (training programme)	PEPA	The training programme ensures the PEPAs' knowledge	Lecturers from the	Different learning formats according to the curriculum.	A total of 300 hours of teaching (10	Learning materials and tools according to the curriculum.
	Setting: University of Lübeck, online, NH	of person-centred care. They are supported in developing their understanding of their role and develop competences for transferring the knowledge into care. The learning objectives and learning target checks are documented in the curricu-	participat- ing univer- sities, learning in working groups, su- pervision by the uni- versity.	curriculum.	ETC), consisting of contact time, self-study and on-the-job training. The qualification takes place in the first three months after randomisation.	Manual for documenting learning objectives, presentations, digital learning platform (Moodle), assignment descriptions, materials individually designed by lecturers.
		lum.				
Monitoring / Evaluati			1		T	
PEPA Handbook	PEPA Setting: University of Lübeck, NH	A detailed manual for documenting participation in courses and other learning activities, as well as for documenting learning objectives, increases the commitment to implementation and shows PEPAs their learning progress.	Study centres	The study centres introduce the handbook during contact time and provide a print version. Attendance is documented in the courses. PEPA maintains the handbook and collects the documentation.	According to curriculum. The handbook is kept during the three months of the training programme (implementation).	Print version of the manual.
Target agreement talks	PEPA Nurse manager (PDL) Setting: NH	The aim of the conversation is to talk about a shared idea of good care and how the intervention (role of PEPA) can support this. This will involve the PDL more in the project and thus support the implementation of the intervention components. Hindering and supporting factors	PEPA PDL If applica- ble, re- searchers from the university	PEPA and PDL meet to discuss study par- ticipation and imple- mentation and docu- ment the outcome of the discussion in writ- ing.	Meetings of 45-60 min, time points: 1. After randomisation, before the start of the training programme. 2. 4 weeks after randomisation.	Interview guide and pro- tocol template.

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Implementation strat-	Target group	Why?	Who imple-	How?	When and how	Materials
egy	Setting		ments?		much?	
		are discussed and solutions				
		are sought if necessary.				
Organisation						
Cooperation agree-	NH	A formal declaration of com-	Study cen-	Study centres hold a	Before the recruit-	Draft contract for the co-
ment with the NH	Universities	mitment increases the bind-	tres and	cooperation agree-	ment of residents be-	operation agreement.
		ing nature of the respective	NH	ment, authorised rep-	gins.	
	Setting: Univer-	tasks of the partners (nurs-		resentatives of the		
	sity, NH	ing homes and universities)		university and the NH		
		in the project and thus sup-		sign the agreement.		
		ports compliance with the				
		project plan, in particular the				
		recruitment of participants,				
		granting PEPAs worktime to perform Expand-Care tasks				
		and the implementation of				
		the curriculum.				
Adaptability of the in-	NH, PEPA	The PEPA intervention com-	PEPA	At the beginning of	After randomisation.	Interview guide and pro-
tervention	,. =	prises several sub-compo-	PDL	the implementation, it	If necessary, further	tocol template.
	Setting: NH	nents, some of which can be	Research-	is determined which	discussion during the	
	J	implemented optionally, oth-	ers at the	components the inter-	study if it becomes	
		ers are mandatory. The pos-	university.	vention should in-	apparent that there	
		sibility to adapt the interven-		clude in the respec-	are deviations from	
		tion to the individual circum-		tive NH (discussion	the original planning.	
		stances and needs of the		with PEPA, PDL and		
		NH promotes identification		university).		
		with the intervention and				
		subsequently implementa-				
	<u> </u>	tion.		<u> </u>	<u> </u>	

GP: General practitioner; ISBAR: Information, situation, background, assessment, recommendation, template to ensure structured and complete information transfer in handovers; NH: Nursing home; PEPA: German acronym for nurse specialist with expanded competencies for person-centred care; PDL: nurse manager; SIS®: [Strukturierte Informationssammlung] structured plan for the assessment of residents' care needs, containing a broad question (What is important to you at the moment?) and six assessment topics (1. Cognitive and communicative abilities; 2. Mobility and agility; 3. Health related requirements and burdens; 4. Self-care; 5. Living in social relationships; 6. Living environment) and a matrix for risk assessment and care needs.

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