# Barriers and facilitators to mobility of patients hospitalised on an acute medical ward:

#### a systematic review

# SUPPLEMENTARY INFORMATION

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**Supplementary Table S3.** Thematic analysis of barriers and facilitators to mobility of hospitalised patients

## **Supplementary Text S1**. Complete list of included articles<sup>1-26</sup>

1. Andreasen J, Soendergaard LN, Holst M. Factors affecting patient and nursing staff adherence to an integrated physical activity and nutritional intervention targeting functional decline on an acute medical ward: a qualitative study. Patient Prefer Adherence 2018;12:1425-35.

2. Brown CJ, Friedkin RJ. Prevalence and outcomes of low mobility in hospitalized older patients. J Am Geriatr Soc 2004.

3. Brown CJ, Williams BR, Woodby LL, Davis LL, Allman RM. Barriers to mobility during hospitalization from the perspectives of older patients and their nurses and physicians. J Hosp Med 2007;2:305-13.

4. Cattanach N, Sheedy R, Gill S, Hughes A. Physical activity levels and patients' expectations of physical activity during acute general medical admission. Intern Med J 2014;44:501-4.

5. Chan EY, Hong MLI, Tan MYG, Chua WL. Older patients' participation in physical activity during hospitalization: A qualitative study of ward nurses' perceptions in an Asian context. Geriatric Nursing 2019;40:91-8.

6. De Klein K, Valkenet K, Veenhof C. Perspectives of patients and health-care professionals on physical activity of hospitalized patients. Physiother 2021;37:307-14.

7. Dermody G, Kovach CR. Nurses' Experience With and Perception of Barriers to Promoting Mobility in Hospitalized Older Adults: A Descriptive Study. J Gerontol Nurs 2017;43:22-9.

8. Dermody G, Kovach CR. Barriers to Promoting Mobility in Hospitalized Older Adults. Res 2018;11:17-27.

9. Doherty-King B, Bowers B. How nurses decide to ambulate hospitalized older adults: development of a conceptual model. Gerontologist 2011;51:786-97.

10. Doherty-King B, Bowers BJ. Attributing the responsibility for ambulating patients: a qualitative study. Int J Nurs Stud 2013;50:1240-6.

11. Geelen SJG, Giele BM, Engelbert RHH, et al. Barriers to and solutions for improving physical activity in adults during hospital stay: a mixed-methods study among healthcare professionals. Disabil Rehabil 2021:1-10.

12. Holst M HP, Pedersen L, Paulsen S, Valentinsen C, Kohler M. . Physical activity in hospitalized old medical patients; how active are they, and what. J Aging Res Clin Pract. 2015;4(2).

13. Hoyer EH, Brotman DJ, Chan K. Barriers to early mobility of hospitalized general medicine patients: survey development and results: ncbi.nlm.nih.gov; 2015.

14. King B, Bodden J, Steege L, Brown CJ. Older adults experiences with ambulation during a hospital stay: A qualitative study. Geriatric Nursing 2021;42:225-32.

15. Lim S, Ibrahim K, Dodds R, et al. Physical activity in hospitalised older people: the feasibility and acceptability of a volunteer-led mobility intervention in the SoMoVe TM study. Age Ageing 2020;49:283-91.

16. Lim SH, Ang SY, Ong HK, et al. Promotion of mobility among hospitalised older adults: An exploratory study on perceptions of patients, carers and nurses. Geriatric Nursing 2020;41:608-14.

17. Meesters J, Conijn D, Vermeulen HM, Vliet Vlieland T. Physical activity during hospitalization: Activities and preferences of adults versus older adults. Physiother 2019;35:975-85.

18. Moore JE, Mascarenhas A, Marquez C, et al. Mapping barriers and intervention activities to behaviour change theory for Mobilization of Vulnerable Elders in Ontario (MOVE

ON), a multi-site implementation intervention in acute care hospitals. Implement Sci 2014;9:160.

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20. O'Hare L, Savage E, McCullagh R, Bantry White E, Fitzgerald E, Timmons S. Frail older adults' perceptions of an in-hospital structured exercise intervention. Physiotherapy 2017;103:478-84.

21. Pavon JM, Fish LJ, Colon-Emeric CS, et al. Towards "mobility is medicine": Socioecological factors and hospital mobility in older adults. J Am Geriatr Soc 2021;69:1846-55.

22. Rasmussen RL, Holst M, Nielsen L, Villumsen M, Andreasen J. The perspectives of health professionals in Denmark on physical exercise and nutritional interventions for acutely admitted frail older people during and after hospitalisation. Health Soc Care Community 2020;28:2140-9.

23. Scheerman K, Mesters JW, Borger JN, Meskers CGM, Maier AB. Tasks and responsibilities in physical activity promotion of older patients during hospitalization: A nurse perspective. Nurs 2020;7:1966-77.

24. So C, Pierluissi E. Attitudes and expectations regarding exercise in the hospital of hospitalized older adults: a qualitative study. J Am Geriatr Soc 2012;60:713-8.

25. Stefansdottir N, Pedersen MM, Tjornhoj-Thomsen T, Kirk JW. Older medical patients' experiences with mobility during hospitalization and the WALK-Copenhagen (WALK-Cph) intervention: A qualitative study in Denmark. Geriatric Nursing 2021;42:46-56.

26. Zisberg A, Agmon M, Gur-Yaish N, et al. No one size fits all-the development of a theory-driven intervention to increase in-hospital mobility: the "WALK-FOR" study. BMC geriatr 2018;18:91.

# Medline (Ovid)

#	Query			
1	patient preference/ or attitude/ or attitude of health personnel/ or attitude to health/ or health knowledge, attitudes, practice/ or physician-patient relations/ or patient acceptance of healthcare/ or motivation/ or (barrier* or issues or issue or problems or problem or hinder* or facilitat* or enabl* or solution* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe* or preference* or dialog* or conversation* or decision* or decide* or deciding or motivat* or acceptance or acceptabilit* or perceptions or perception or perceive* or behav* or attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choice or choices or opinion* or empower* or choose* or choosing or knowledge* or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfaction or satisfied or discuss* or explor*).ti.			
2	exercise movement techniques/ or exercise/ or exercise therapy/ or movement/ or locomotion/ or walking/ or motor activity/ or early ambulation/ or rehabilitation/ or "activities of daily living"/ or recovery of function/ or Physical Therapy Modalities/ or "Physical Therapy (Specialty)"/ or Physical Therapists/ or (mobil* or move or movement or movements or mouvement or mouvements or moving or mouving or exercis* or rehab* or physiotherap* or physical therap* or physical activit* or activity or activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or "out of bed" or bedside or in-bed or sitting or standing).ti.			
3	Hospitals/ or Hospitalization/ or Inpatients/ or Patient Care/ or Internal Medicine/ or (hospital* or inpatient* or in-patient or "non-ICU patient*" or "medical patient*" or "internal medicine" or ward*).ti.			
4	1 and 2 and 3			
5	4 not ((exp infant/ or exp child/ or adolescent/) not exp adult/) not (exp animals/ not humans/) not (letter or news or comment or editorial or congress).pt. not ("intensive care unit*" or "icu*").ti.			
6	limit 5 to english			

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#### Embase (Ovid)

#	Query
1	patient preference/ or patient attitude/ or attitude/ or health personnel attitude/ or attitude to health/ or motivation/ or (barrier* or issues or issue or problems or problem or hinder* or facilitat* or enabl* or solution* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe* or preference* or dialog* or conversation* or decision* or decide* or deciding or motivat* or acceptance or acceptabilit* or perceptions or perception or perceive* or behav* or attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choice or choices or opinion* or empower* or choose* or choosing or knowledge* or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfaction or satisfied or discuss* or explor*).ti.
2	*exercise/ or exp kinesiotherapy/ or "movement (physiology)"/ or locomotion/ or exp walking/ or gait/ or walking difficulty/ or motor activity/ or mobilization/ or rehabilitation/ or daily life activity/ or physical activity/ or convalescence/ or physiotherapy/ or physiotherapist/ or (mobil* or move or movement or movements or mouvement or mouvements or moving or mouving or exercis* or rehab* or physiotherap* or physical therap* or physical activit* or activity or activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or "out of bed" or bedside or in-bed or sitting or standing).ti.
3	*hospital/ or *hospitalization/ or ward/ or hospital patient/ or aged hospital patient/ or internal medicine/ or (hospital* or inpatient* or in-patient or "non-ICU patient*" or "medical patient*" or "internal medicine" or ward*).ti.
4	1 and 2 and 3
5	4 not (exp juvenile/ not exp adult/) not ((exp animal/ or nonhuman/) not exp human/) not (letter OR note OR editorial OR conference).pt. not ("intensive care unit*" or "icu*" or pediatric* or paediatric*).ti.
6	limit 5 to english

# PsycINFO (Ovid)

1	client attitudes/ or attitudes/ or health personnel attitudes/ or health attitudes/ or doctor patient relationship/ or therapist attitudes/ or "Expectations"/ or motivation/ or (barrier* or issues or issue or problems or problem or hinder* or facilitat* or enabl* or solution* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe* or preference* or dialog* or decision* or decide* or deciding or motivat* or conversation or acceptance or acceptabilit* or perceptions or perception or perceive* or behav* or attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choice or choices or opinion* or empower* or choose* or choosing or knowledge* or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfaction or satisfied or discuss* or explor*).ti.
2	*exercise/ or exp physical mobility/ or movement therapy/ or locomotion/ or exp walking/ or gait/ or exp motor processes/ or rehabilitation/ or "activities of daily living"/ or daily activities/ or physical activity/ or physical therapy/ or physical therapists/ or (mobil* or move or movement or movements or mouvement or mouvements or moving or mouving or exercis* or rehab* or physiotherap* or physical therap* or physical activit* or activity or activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or "out of bed" or bedside or in-bed or sitting or standing).ti.
3	hospitals/ or hospitalization/ or hospitalized patients/ or internal medicine/ or (hospital* or inpatient* or in-patient or "non-ICU patient*" or "medical patient*" or "internal medicine" or ward*).ti.
4	1 and 2 and 3
5	4 not (exp animals/ not humans/) not (letter or news or comment or editorial or congress).pt. not ("intensive care unit*" or "icu*" or pediatric* or paediatric* or child or children).ti.
6	limit 5 to english

# Web of Science (Core Collection)

#	Query			
1	TI=(barrier* or issues or issue or problems or problem or hinder* or facilitat* or enabl* or solution* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe* or preference* or dialog* or conversation* or decision* or decide* or deciding or motivat* or acceptance or acceptabilit* or perceptions or perception or perceive* or behav* or attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choice or choices or opinion* or empower* or choose* or choosing or knowledge* or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfaction or satisfied or discuss* or explor*)			
2	TI=(mobil* or move or movement or movements or mouvement or mouvements or moving or mouving or exercis* or rehab* or physiotherap* or "physical therap*" or "physical activit*" or activity or activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or "out of bed" or bedside or in-bed or sitting or standing)			
3	TI=(hospital* or inpatient* or "in-patient" or "non-ICU patient*" or "medical patient*" or "internal medicine" or ward*)			
4	#1 and #2 and #3			
5	TI=("intensive care unit*" or "icu*" or pediatric* or paediatric* or child or children)			
6	#4 NOT #5			
7	TS=((animal OR mouse OR mice OR rat OR rats OR murine OR primate* OR monkey*) NOT (human* OR patient*))			
8	#6 NOT #7			
9	#6 NOT #7 Refined by: DOCUMENT TYPES: (ARTICLE OR EARLY ACCESS OR REVIEW OR RETRACTION )			

# Cochrane Central Register of Controlled Trials (CENTRAL)

#	Query
1	(barrier* or issues or issue or problems or problem or hinder* or facilitat* or enabl* or solution* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe* or preference* or dialog* or conversation* or decision* or decide* or deciding or motivat* or acceptance or acceptabilit* or perceptions or perception or perceive* or behav* or attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choice or choices or opinion* or

	empower* or choose* or choosing or knowledge* or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfaction or satisfied or discuss* or explor*):ti			
	nobil* or move or movement or movements or mouvement or mouvements or moving or mouving or tercis* or rehab* or physiotherap* or physical NEXT therap* or physical NEXT activit* or activity activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or but of bed" or bedside or in-bed or sitting or standing):ti			
3	(hospital* or inpatient* or "in-patient" or non-ICU NEXT patient* or medical NEXT patient* or "internal medicine" or ward*):ti			
4	#1 and #2 and #3			
5	(intensive NEXT care NEXT unit* or icu* or pediatric* or paediatric* or child or children):ti			
6	#4 NOT #5			

# CINAHL (EBSCOhost)

#	Query				
TI (barrier* or issues or issue or problems or problem or hinder* or facilitat* or enable* or ease or easy or easier or difficult or difficulty or willingness or willing or belief* or believe preference* or dialog* or conversation* or decision* or decide* or deciding or motivat* or conversation or acceptance or acceptabilit* or perceptions or perception or perceive* or be attitud* or input or inputs or experien* or value or values or perspectiv* or expectation* or choices or opinion* or empower* or choose* or choosing or acceptance or knowledge* or or motivat* or adhere* or intention* or involv* or engag* or consult* or interact* or satisfied satisfied or discuss* or discussion* or explor*)					
2	TI (mobil* or move or movement or movements or mouvement or mouvements or moving or mouving or exercis* or rehab* or physiotherap* or "physical therap*" or "physical activit*" or activity or activities or walk* or ambulate* or ambulation* or ambulating* or deambulat* or semi-recumb* or "out of bed" or bedside or "in-bed" or sitting or standing)				
3	TI (hospital* or inpatient* or "in-patient" or "non-ICU patient*" or "medical patient*" or "internal medicine" or ward*)				
4	S1 and S2 and S3				
5	S4 not TI ("intensive care unit*" or "icu*" or pediatric* or paediatric* or child or children)				
6	S5 not PT (letter or news or comment or editorial or congress)				
7	S6 not (MH animals+ not MH humans+)				
8	Narrow by Language: - english				
9	Limiters - Exclude MEDLINE records				

**Google scholar** First 200 records (relevancy ranking) out of 2'860'000 results

#	Query
1	barriers facilitators motivators enablers preferences attitudes acceptance perceptions expectations mobilisation mobility mobilization exercise "physical activity" ambulation walking hospital hospitalized hospitalised hospitalization

Note: Search field allows only 252 characters, therefore search string is shortened.

# **Supplementary Table S2.** Quality appraisal

First author, year	QUALITATIVE STUDIES						
	Is the qualitative approach appropriate to answer the research question?	Are the qualitative data collection methods adequate to address the research question?	Are the findings adequately derived from the data?	Is the interpretation of results sufficiently substantiated by data?	Is there coherence between qualitative data sources, collection, analysis and interpretation?		
Andreasen, 2018 <sup>1</sup>	Yes	Yes	Yes	Yes	Yes		
Brown, 2007 <sup>3</sup>	Yes	Yes	Yes	Yes	Yes		
Chan, 2019 <sup>5</sup>	Yes	Yes	Yes	Yes	Yes		
De Klein, 2021 <sup>6</sup>	Yes	Yes	Yes	Yes	Yes		
Doherty-King, 2011 <sup>9</sup>	Yes	Yes	Yes	Yes	Yes		
Doherty-King, 2013 <sup>10</sup>	Yes	Yes	Yes	Yes	Yes		
Holst, 2015 <sup>12</sup>	Yes	Yes	Yes	Yes	Yes		
King, 2021 <sup>14</sup>	Yes	Yes	Yes	Yes	Yes		
Lim, 2020 <sup>15</sup>	Yes	Yes	Yes	Yes	Yes		
Lim, 2020 <sup>16</sup>	Yes	Yes	Yes	Yes	Yes		
Moore, 2014 <sup>18</sup>	Yes	Yes	Yes	Yes	Yes		
O'Hare, 2017 <sup>20</sup>	Yes	Yes	Yes	Yes	Yes		
Pavon, 2021 <sup>21</sup>	Yes	Yes	Yes	Yes	Yes		
Rasmussen, 2020 <sup>22</sup>	Yes	Yes	Yes	Yes	Yes		
So, 2012 <sup>24</sup>	Yes	Yes	Yes	Yes	Yes		
Stefansdottir, 2021 <sup>25</sup>	Yes	Yes	Yes	Yes	Yes		
	NON-RANDOMISED STUDIES						
	Are the participants representative of the target population?	Are measurements appropriate regarding both the outcome and intervention (or exposure)?	Are there complete outcome data?	Are the confounders accounted for in the design and analysis?	During the study period, is the intervention administered (or exposure occurred) as intended?		
Brown, 2004 <sup>2</sup>	Yes	Yes	Can't tell	Yes	Yes		
Dermody, 2018 <sup>8</sup>	Yes Yes Yes No Yes						
	QUANTITATIVE DESCRIPTIVE STUDIES						
	Is the sampling strategy relevant to address the research question?	Is the sample representative of the target population?	Are the measurements appropriate?	Is the risk of nonresponse bias low?	Is the statistical analysis appropriate to answer the research question?		
Cattanach, 2014 <sup>4</sup>	Yes	No (first 24 who accept)	Not completely (questionnaire not validated)	Yes	Yes		
Dermody, 2017 <sup>7</sup>	Yes	No (only those interested)	Yes	Yes	Yes		
Hoyer, 2015 <sup>13</sup>	Yes	No (only those interested)	Not completely (survey not validated)	Yes	Yes		
Meesters, 2019 <sup>17</sup>	Yes	No (only those interested)	Yes	Yes	Yes		
Nease, 2021 <sup>19</sup>	Yes	No (only those interested)	Yes	Yes	Yes		

	MIXED METHODS STUDIES				
	Is there an adequate rationale for using a mixed methods design to address the research question?	Are the different components of the study effectively integrated to answer the research question?	Are the outputs of the integration of qualitative and quantitative components adequately interpreted?	Are divergences and inconsistencies between quantitative and qualitative results adequately addressed?	Do the different components of the study adhere to the quality criteria of each tradition of the methods involved?
Geelen, 2021 <sup>11</sup>	Yes	Yes	Yes	No	Yes
Scheerman, 2020 <sup>23</sup>	Yes	Yes	Yes	No	Yes
Zisberg, 2018 <sup>26</sup>	Yes	Yes	Yes	No	Yes

Theme	Subtheme	Patient-related factors	HCP-related factors	Environment-/system-related factors
Patient situation	Characteristics	High age, tallness, high weight Impaired cognitive status Impaired physical status, fall risk, needing assistance Dependent / inactive before hospitalisation	Knowing patient's mobility status	
nt s	Culture - behavior	Background / culture / language	Language barrier	
Patie	Symptoms – signs – illness	Weakness, fatigue, stiffness, pain, dyspnea, dizziness, gastrointestinal problems Acute illness/confusion/dementia/delirium		
Ð	Importance	Knowing / being informed about the & outcomes of immobility	Knowing the importance & outcomes of immobility, and the indications to mobilise	
Knowledge	Skills – how to	Knowing how to handle devices Knowing if, when, where to move & who to ask for help	Mobilisation techniques Skills to advice patients High grade / training	
X	Definitions		Knowing the definition of mobility & the meaning of a mobility order	
Beliefs	Mindset - expectations	Bedrest culture - not expecting to move in hospital / at older age - "Sick role" behavior HCPs should do everything (patients pay for that) Mobility as a mean for recovery	Bedrest culture Fall prevention more important Other ways to prevent complications Promotion of mobility considered a priority	
н	Labelling	Labelling family as not trained to ensure safety regarding mobility	Patient labelling: <b>nursing home / too sick</b> <b>to mobilise;</b> <i>community-living / active</i>	
er-	Past experiences	Experienced falls / Adverse consequences of bedrest		
Exper- iences	Effects of mobility	Positive effects of mobility – higher self-confidence Improvement during mobility tests		
	Initiative	<b>Not motivated, not cooperating, not wanting to move</b> <i>Taking initiative – self-determination – motivation</i>	Not waiting for PT / mobility order Questioning mobility order	
Intentions	Goals	Needing to care for self, return to independence Concrete activities / goals within or outside the hospital Being discharged / return home / avoid nursing home	Agreeing on defined goals with patients - Goal individualisation Monitor progress / prevent complications	
П	Prioritisation		Other tasks more important than mobility	
	Workload		Bedrest/assisting = less work/saving time	
Emotions	Anxiety - fears	Fearing injury, falling, heart attack, not being able to get back/call for help, getting lost, dislodging devices Relatives' concerns about safety Worries about situation/illness Fearing complications of bedrest/immobility	<b>Fearing injury (of patients / HCPs),</b> <b>complaints,</b> <i>complications of immobility</i> <i>HCP feeling confident &amp; strong</i>	
	Empathy	Not wanting to bother staff / empathy for staff	Sorry for patients => doing everything	
	Other negative feelings	Fatalism/Self-pity; lonely, sad; bored to stay in bed Shame: Not wanting to be perceived as sick / draw attention with hospital gown/catheters Boring hospital environment		

Supplementary Table S3. Thematic analysis of barriers and facilitators to mobility of hospitalised patients

Social influences	HCPs Patients/other	Relationship with HCP on a personal level Family / visitor / volunteer support	Active discouragement to move Opposite messages from different HCPs Rushing (showing lack of time)Interprofessionalism – multidisciplinarity PT present, coaching/teaching Behavior towards patients: encouraging, patient, persevering, authoritative, explaining 	Competition between patients / group therapy
Role and identity	Responsibility	Feeling responsible for own mobility	Attributing mobility responsibility to other HCPs – staff/patient role unclear Not role to force patients (they are self- responsible) Mobility not role of acute setting Responsible to mobilise only if ordered	
anisation	Organisation	Lack of sleep	Lack of standardised approach Assigning same patients to same staff Planning between staff members	Patients distributed through hospital Patient having to be in room for visit / drink for exam - Medical exam postponed Meaningful activities – activity program
l org	Communication – collaboration		Communication – documentation Easy access to question / specialists	
Implementation and organisation	Orders		Bedrest orders – Unclear mobility order Systematical PT orders for independent patients (not efficient) – PT order	Permission needed to go for a walk Mobility aid available only when ordered
Implemen	Expectations – surveillance		Unit expectations / goal formulation Unit performance visible	Mobilisation not part of HCP workflow Documentation / monitoring system Unit manager - chart audit – unit rounds Consequences for not mobilising
	Time – Staffing	Visitors not letting time to patients to move Missing personal mobility aids from home	Lack of time More than one person needed to mobilise	<b>Staff shortage - No PTs on weekends</b> Mobility volunteers when staff lacking time
ources	Support	Assistance from family, visitor, volunteer	Providing information and assistance Assistance from other HCPs (with more expertise)	<b>No monitoring system (for mobility/aids)</b> Equipment, material (e.g., job aids, visual reminders, videos, flyers)
Environment and resources	Room		Using motion sensor alarm / bed barriers Clutter in patients' rooms	<b>No / inappropriate / uncomfortable chair</b> <b>Danger zones (where unable to get help)</b> <i>Room attractive, comfortable, big enough</i>
	Hospital		Clutter in hallways	Unfamiliar environment Danger zones / lack of seats / resting spots Bike on the ward Rooms for physical activity - shared rooms Marked ambulation routes
	Medical devices	politators in italias. Abbraviations: HCD healthcare n	<i>Reducing the number of medical devices</i> <i>Orders to cap IV line / remove catheters</i>	<i>IV poles with handles / to lean against</i>

Legend: Barriers are in bold, facilitators in italics. Abbreviations: HCP, healthcare professional; IV, intravenous; PT, physical therapist.