

Structured scoring of supporting nursing tasks in post-acute care to enhance early supported discharge in geriatric rehabilitation

Eduard Bakkers¹, Marije Holstege^{2,} Romke van Balen^{2,3}, Wilco Achterberg², Monique Caljouw²

¹ Zorginstellingen Pieter van Foreest, Delft; ² Department of Public Health and Primary Care, Leiden University Medical Center; ³ Laurens, Rotterdam. The Netherlands

Introduction

The reason for this study was the idea that patients rehabilitating in a skilled nursing facility (SNF) could be discharged home earlier and could continue their rehabilitation during office hours. In addition there is the desire to rehabilitate patients in their own living environment.

A first pilot study showed that 13 of 31 patients (49%) with scheduled evening and night nursing care could be dismissed home earlier.

Therefore the aim of this study was to evaluate if the use of a structured scoring of supporting nursing tasks in the evening and night, leads to earlier discharge home in geriatric rehabilitation patients.

Results

Both cohorts were comparable in age, gender and reasons for admission (mean age 80 years (SD 10); 69% females). Reasons for admission were stroke (23%), joint replacement (13%), traumatic injuries (32%), and other (32%). At discharge 58% of the participants need help in less than 3 nursing tasks.

Participants from the post-implementation cohort were discharged home earlier, within 48 days (SD 26) compared with 56 days (SD 31) in the preimplementation cohort (see table 1).

37 of 133 participants (28%) that were able to be discharged home according to the supporting nursing tasks, were discharged within 2 weeks. Reasons for discharge delay were: no realised home adjustments (47%), diminished cognition participant (29%) and impaired general condition participant or informal caregiver (65%).

Post-implementation

cohort (n=197)

61

13

10

6

10

Mean

48

69

71

42

39

P-value

0.04

0.43

0.20

0.93

0.85

Table 1: Discharge destination and average length of stay in days

Mean

56

61

57

43

40

Pre-implementation

cohort (n=160)

53

9

14

8

17

A pre- and post-implementation cohort design. One cohort (n=200) was assessed before and the other (n=283) after the implementation of the scorecard. The implementation consisted of completing a validated structured scorecard for identifying the supporting nursing tasks during the evening and night every week. Figure 1 shows the items on the scorecard.

The outcome on the scorecard is discussed in the multidisciplinary team-meeting in order to establish if discharge home was possible. If the patient needs help in less than 3 nursing tasks he could be dismissed within 2 weeks.

Four SNF's in South-Holland, the Netherlands, participated. Participants were followed until 120 days after admission.

Figure 1: Items on the scorecard Assistance with: Medication intake Fluid and food intake Transfer to toilet room Going on Of off the toilet Getting (un)dressed when toileting Hygiene Incontinence pads Transfer to bedroom Going in and out of bed Getting (un)dressed for the night Position in bed Change of position in bed

Table 2: Discharge destination and average length of stay in days when help is needed in \leq 3 nursing tasks for participants discharged within and after two weeks

	Discharge ≤ 2 weeks (n=37)		Discharge > 2 weeks (n=96)	
	%	Mean	%	Mean
Home	92	28	74	61
Residential home	8	61	19	81
Nursing home	0		7	85

Conclusion

Home

Residential home

Nursing home

Hospital

Deceased

The use of a structured scorecard for discharge planning may lead to earlier discharge home. After being indicated for discharge, this is often not realised within 2 weeks.

An early inventarisation of the possibilities and barriers in the home situation is needed to avoid discharge delay.





Next

- A training module was developed in which patients fill in the scorecard by themselves from admission to discharge for every week. With the aim to give the patient more insight in their achieved rehabilitation goals.
- Groups of 6 patients participate in the training. They discuss the results of their individually completed scorecard with the intention to advise each other and come up with solutions for their problems.
- Patients were responsible for and directly involved in their rehabilitation goals and preparation for dismissal.

This training module shows that rehabilitation patients are busy with the approaching date of dismissal from the first day of admission. Possibly this approach will lead to a more successful rehabilitation: shorter length of stay on the SNF and discharge to home.