

The teach-back method and comprehensible prescription label instructions: effects on initiation of chronic medication in a Dutch low health literate real world setting

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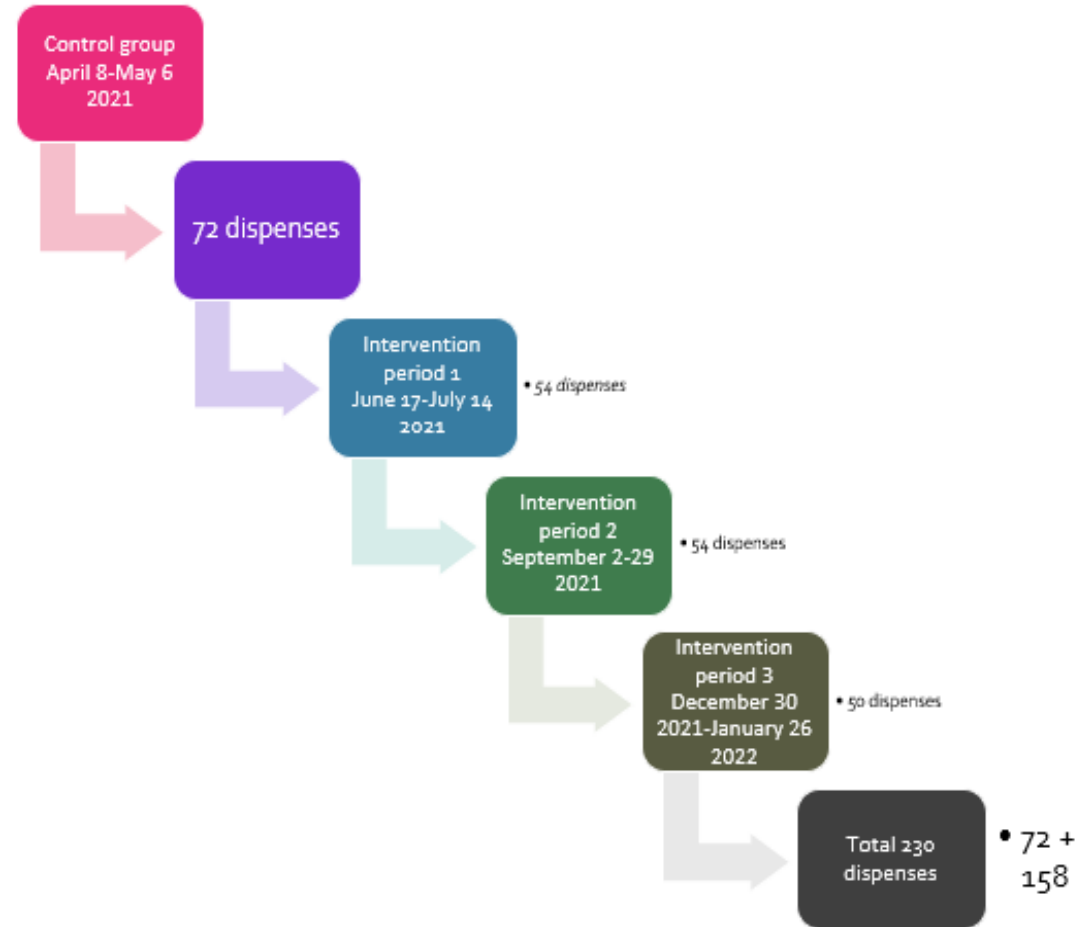
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Goal To investigate effectiveness of the teach-back method used during pharmacy encounters and comprehensible prescription label instructions on initiation of chronic medication in a Dutch low health literate real world setting.

Setting and methods

- 'Kanaleneiland'
- 70% low health literacy
- Intervention group received both interventions
- Historical control group
- Successful initiation of chronic medication was determined from pharmacy records
- Initiation was defined as picking up a second prescription within 30 days of the theoretical end date of the first prescription



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Results

Table 1 *Results of the descriptive statistics for the intervention group and the control group*

Patient information	Total (n=230)	Intervention group (n=158)	Control group (n=72)	P value
Age (SD)	50 (18)	50 (17)	50 (19)	0,883
Gender				
Male (%)	96 (41,7)	67 (42,4)	29 (40,3)	0,762
Female (%)	134 (58,3)	91 (57,6)	43 (59,7)	0,762
ATC main group				
A (%)	33 (14,3)	18 (11,4)	15 (20,8)	*
B (%)	9 (3,9)	5 (3,2)	4 (5,6)	*
C (%)	82 (35,7)	55 (34,8)	27 (37,5)	*
G (%)	16 (7,0)	14 (8,9)	2 (2,8)	*
M (%)	3 (1,3)	3 (1,9)	0 (0,0)	*
N (%)	87 (37,8)	63 (39,9)	24 (33,3)	*

Note . SD = standard deviation, *P-value not applicable because assumptions for the Pearson's chi-squared test were not met.

Table 2 *Crude and adjusted odds ratios of the logistic regression analyses of the relation between initiation and the application of the interventions*

	Model 1		Model 2		Model 3	
	Initiation 30 days		Initiation 7 days		Initiation 0 days	
	after theoretical end		after theoretical end		after theoretical end	
	date first dispense		date first dispense		date first dispense	
Odds ratio	Crude	Adjusted	Crude	Adjusted	Crude	Adjusted
Interventions	0,96	0,95	0,98	0,97	1,21	1,24
(95% C.I.)	(0,51-1,80)	(0,50-1,80)	(0,55-1,74)	(0,54-1,73)	(0,69-2,12)	(0,69-2,21)
Age	N.A.	1,03	N.A.	N.A.	N.A.	1,03
(95% C.I.)		(1,01-1,04)				(1,02-1,05)
Gender	N.A.	0,76	N.A.	0,66	N.A.	N.A.
(95% C.I.)		(0,40-1,42)		(0,38-1,14)		
Intake moments	N.A.		N.A.	0,85	N.A.	N.A.
(95% C.I.)				(0,53-1,37)		

Note . N.A. = not applicable, C.I. = confidence interval



Conclusion & discussion

- No significant effect of the interventions on initiation and application
- Small sample size
- The way the interventions were carried out
- Initial aim was to evaluate implementation

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