An easily understandable patient letter improves patient health literacy after hospitalisation

Karen Voigt¹, Henna Riemenschneider¹, Antje Bergmann¹, Ansgar Jonietz² ¹Medizinische Fakultät Carl Gustav Carus/TU Dresden, Bereich Allgemeinmedizin/MK3 ²"Was hab' ich?" gGmbH, Dresden

Granted by Bundesministerium for Gesundheit Ref. number: ZMVI5-2515FSB202

Background

- patient information after hospitalisation is insufficient in Germany [Vitt et al. 2005]
 - limited health literacy is associated with:
 - poor health status and behaviour,
 - increased health care utilisation and associated costs [Jordan & Hoebel 2015]

Aim

Does an easily understandable patient information letter improve health literacy ?

→ Focus on understanding and evaluation of information

Methods

- **Pragmatic RCT** in Paracelsus Clinic Bad Ems, Clinic for Internal Medicine (2016-18): patient-letter (intervention group, IG) vs. patient information as usual (control group, CG)
- Measurements: postal patient survey 3 days after sending the patient letter (IG) or after discharge (CG)
- Survey instruments: health literacy (HLS-EU-Q47), health status/-behavior, medication intake, satisfaction with clinic and received information (Picker-survey "stationary care"), need for written patient letter, evaluation of patient letter (IG)
 - Data analysis: Chi²-test, Z-test, t-test, Spearman-Rho test, effect size: Cohen's d

total n (%)

417

234 (56 %)

183 (44 %)

13 (3 %)

107 (26 %)

297 (71 %)

210 (50 %)

80 (19 %)

62 (15 %)

IG n (%)

241 (58 %)

139 (58 %)

103 (43 %)

8 (3 %)

66 (27 %)

168 (70 %)

128 (53 %)

43 (18 %)

32 (13 %)

CG n (%)

176 (42 %)

95 (54 %)

80 (46 %)

5 (3 %)

41 (23 %)

129 (73 %)

82 (47 %)

30 (17 %)

Table 1 Sample description

Variables

Participants

Gender

male

female

20 - 45 years

46 - 65 years

Level of education

low

middle

high

over 65 years

Age

Results

Response: 417 (23.5 %) of 1772 n_{IG} =242 and n_{CG} =175

- 54% report insufficient information
 reg. medication at home after discharge
- 93% wish information after every hospital stay
- HL total index (HLS-EU47): 2/3 with inadequate/problematic HL (IG vs. CG: n.s.)

Table 2 Significant differences regarding HLS EL147 single items

Table 2 Significant differences regarding HLS-EU47 single items					
On a scale from very easy (=4) to very difficult (=0), how easy would you say is to	Groups	Mean	SD	p (t-Test)	Cohens d
find information about symptoms of illnesses that concern you?	IG	2.3	1.2	0.046	0.220
	CG	2.1	1.3		
understand what your doctor says to you?	IG	2.8	1.1	0.035	0.223
	CG	2.5	1.2		
understand the leaflets that come with your medicine?	IG	2.4	1.1	0.003	0.311
	CG	2.1	1.2		
judge how information from your doctor applies to you?	IG	2.2	1.3	0.019	0.267
	CG	2.0	1.2		
understand your doctor's or pharmacist's instruction on how to take a prescribed medicine?	IG (3.2	1.1	0.027	0.232
	CG	2.9	1.2		
find out about activities that are good for your mental well-being?	IG	1.7	— 1.4	0.048	0.232
	CG	1.4	1.4		

Key messages

Literature

Our patient letter improves health literacy regarding several health literacy skills and enables to understand information on • own disease/health condition

- disease-related therapy
- → Patient letter reducts uncertainties in dealing with illness and treatment
- Contact: Henna.Riemenschneider@ukdd.de

Vitt, K.D., Erben, C.M., Kupsch, S.,Rüther, W. Patientenbrief. Mittel zur Sicherung des Heilerfolgs. Dtsch Arztebl 2005; 102:A 3002–3004. Jordan, S., & Hoebel, J. (2015). Health literacy of adults in Germany: Findings from the German Health Update (GEDA) study. Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz, 58(9), 942-950.





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