

원 저



Analysis of Factors Affecting Medication Compliance of Outpatients

Eui - Kyung Lee^{*}, Jeong - Young Park
Korea Institute for Health and Social Affairs
Department of Health Research

Abstracts

Background : The purpose of this study was to investigate the current status of medication compliance of outpatients and to analyze the factors contributing to medication non - compliance

Methods : Telephone survey was conducted to the 1,000 outpatients who

* : (2001 .6 2002. 4)

* : 42-14
Tel) 02-384-3085, E-mail) eklee@kihasa.re.kr

visited medical institutions during the period from January 2002 to April 2002. Subjects were randomly selected from the telephone directories of the nation, and the socio - demographic characteristics of the respondents such as age, gender and region were matched based on those of outpatients in 2001.

Results : The results of survey revealed that those who complied with doctors' regimen in the right way accounted for 82.4%. The compliance increased with the strong belief in the medication, less unwanted side effects and inconvenience, more severity of disease, and lower perceived health status. Compliance rate was also higher in the patients group who experienced the drug education by the pharmacists than those who did not.

Conclusion : In order to improve drug compliance, drug information on efficacy, adverse reaction, drug interactions, and basic disease information are to be provided to the patients. Drug education needs to be focused not only on providing knowledge of drugs and diseases but also changing attitude on drug use of the patients.

Key Words : Medication compliance, Drug information, Patient education, Separation of prescribing and dispensing,

가 . 가
2000 7 가
가
가
50% 가
(1). 1993
18
가 . 2001 8
가
30 가
50% ,
(2). 가
가
가
가
가
가
가
가
가
가
10%, nursing
home 23%가
(3), 1.
가 , nursing home
1000
(4). 가
가
(5) 가
(6) 가
(7) (8) , ‘ ‘ , ‘ (1/2) , ‘
가 , ‘ ‘ , ‘ .
(Health Behavior)

1. 2001

	(% ,)*		(% ,)	
	42.7	(138,032,960)	53.7	(537)
	57.1	(183,690,125)	46.3	(463)
	100.0	(321,723,085)	100.0	(1,000)
0-19	30.2	(97,193,960)	18.8	(188)
20-39	24.4	(78,562,554)	21.0	(210)
40-59	26.5	(85,112,169)	34.0	(340)
60	18.9	(60,854,402)	26.2	(262)
	100.0	(321,723,085)	100.0	(1,000)
	21.6	(69,161,165)	21.6	(216)
	7.7	(24,807,292)	7.7	(77)
	5.1	(16,417,777)	5.6	(56)
	5.6	(17,965,530)	5.1	(51)
	3.0	(9,774,405)	3.0	(30)
	3.3	(10,550,790)	3.3	(33)
	2.1	(6,767,690)	2.1	(21)
	18.4	(59,303,871)	18.4	(184)
	3.1	(9,950,783)	3.1	(31)
	3.4	(11,091,399)	3.4	(34)
	4.3	(13,977,672)	4.3	(43)
	4.6	(14,699,374)	5.7	(57)
	4.4	(14,065,935)	6.4	(64)
	5.7	(18,424,760)	4.6	(46)
	6.4	(20,652,502)	4.4	(44)
	1.3	(4,112,140)	1.3	(13)
	100.0	(321,723,085)	100.0	(1,000)

* : 가 , , 2002.

3.

가 가 SPSS

가 20

20

2

168

가 (2). 82.4%가 가 13.8%, 3.7% (2). 991 가 85.7% 가 10.7% (p<0.001). 가 37.6% 59.2%, 34.2%, 6.6% (p<0.05, 4 가 40% 가 (3). 가 가 가 가 (p<0.001). 가 가 (5) 96.4%, 84.8% 가 3.0% 67.2%, 57.1% 가 6.7% 가 (p<0.05). 가 5.6% 가 (p<0.1).

2.

		(%)
():	817	82.4
():	137	13.8
(): (1/2)	37	3.7
	991	100.0

3.

(: %,)

		(N)				
2)***1)		96.4	-	3.6	100.0(55)	5.5(55)
		84.8	13.9	1.3	100.0(532)	53.7(532)
		79.6	14.7	5.6	100.0(339)	34.2(339)
		67.2	22.4	10.3	100.0(58)	5.9(58)
		57.1	-	42.9	100.0(7)	0.7(7)
		82.4	13.8	3.7	100.0(991)	100.0(991)
2)***1)		14.3	28.6	57.1	100.0(7)	0.7(7)
		77.6	14.3	8.2	100.0(49)	4.9(49)
		85.0	13.8	1.3	100.0(160)	16.1(160)
		88.7	8.6	2.7	100.0(452)	45.6(452)
		74.6	20.7	4.6	100.0(323)	32.6(323)
		82.4	13.8	3.7	100.0(991)	100.0(991)
2)***1)		55.6	22.2	22.2	100.0(9)	0.9(9)
		69.1	27.8	3.1	100.0(97)	9.8(97)
		85.4	12.0	2.6	100.0(192)	19.4(192)
		87.6	9.6	2.8	100.0(396)	40.0(396)
		78.8	15.8	5.4	100.0(297)	30.0(297)
		82.4	13.8	3.7	100.0(991)	100.0(991)

: 1) ² test , * p<0.1 ** p<0.05 *** p<0.001

2) 가 , 가

88.5%가

36.5%

19.4%

81.0%

(p<0.05).

80.3%

가

87.9%가

(p<0.001). 50 59

(100%)'

4.

(: %,)

			(N)		
2)** 1)					
	92.3	2.6	5.1	100.0(78)	7.9(78)
	82.3	15.0	2.7	100.0(294)	29.7(294)
	83.7	12.7	3.6	100.0(386)	39.0(386)
	76.0	18.6	5.5	100.0(183)	18.5(183)
	82.0	16.0	2.0	100.0(50)	5.0(50)
	82.4	13.8	3.7	100.0(991)	100.0(991)
2)					
	72.8	18.5	8.6	100.0(81)	8.2(81)
	81.8	15.0	3.2	100.0(533)	53.8(533)
	84.4	12.2	3.4	100.0(205)	20.7(205)
	85.9	10.7	3.4	100.0(149)	15.0(149)
	91.3	4.3	4.3	100.0(23)	2.3(23)
	82.4	13.8	3.7	100.0(991)	100.0(991)

: 1) ² test , * p<0.1 ** p<0.05 *** p<0.001
 2) 가

5.

(: %,)

			(N)		
2)**1)					
	82.3	14.7	3.0	100.0(796)	80.3(796)
	83.1	10.3	6.7	100.0(195)	19.7(195)
	82.4	13.8	3.7	100.0(991)	100.0(991)
2)*1)					
	85.9	11.3	2.8	100.0(362)	36.5(362)
	80.4	15.3	4.3	100.0(629)	63.5(629)
	82.4	13.8	3.7	100.0(991)	100.0(991)
2)**1)					
	88.5	9.9	1.6	100.0(192)	19.4(192)
	81.0	14.8	4.3	100.0(799)	80.6(799)
	82.4	13.8	3.7	100.0(991)	100.0(991)

: 1) ² test , * p<0.1 ** p<0.05 *** p<0.001
 2) 가

6.

(:%,)

				(N)	
****1)					
0- 9	71.6	22.7	5.7	100.0(141)	14.2(141)
10-19	73.9	21.7	4.3	100.0(46)	4.6(46)
20-29	78.0	17.1	4.9	100.0(82)	8.3(82)
30-39	74.8	21.3	3.9	100.0(127)	12.8(127)
40-49	78.2	17.1	4.7	100.0(170)	17.2(170)
50-59	87.9	8.5	3.6	100.0(165)	16.6(165)
60-69	93.9	3.8	2.3	100.0(131)	13.2(131)
70	94.6	4.7	0.8	100.0(129)	13.0(129)
	82.4	13.8	3.7	100.0(991)	100.0(991)
.....					
*1)					
	83.0	13.4	3.6	100.0(534)	53.9(534)
	81.8	14.3	3.9	100.0(457)	46.1(457)
	82.4	13.8	3.7	100.0(991)	100.0(991)
.....					
2)****1)					
/	90.4	7.5	2.1	100.0(375)	37.8(375)
/	77.3	19.0	3.7	100.0(352)	35.5(352)
/	78.0	15.9	6.1	100.0(264)	26.6(264)
	82.4	13.8	3.7	100.0(991)	100.0(991)
.....					
	93.8	6.3	-	100.0(16)	1.6(16)
	78.3	16.7	5.0	100.0(120)	12.1(120)
	81.2	15.0	3.8	100.0(468)	47.2(468)
	82.1	12.4	5.5	100.0(201)	20.3(201)
	87.6	11.3	1.1	100.0(186)	18.8(186)
	82.4	13.8	3.7	100.0(991)	100.0(991)

: 1) ² test , * p<0.1 ** p<0.05 *** p<0.001

2) 가

, 60 ‘ ’ / 57.0%, 60 69
 90%가 (6). 69.5%, 70 83.7%
 / ‘ ’ 60 가
 90.4% , 가
 80% (p<0.001).
 50 59 ‘ ’

가 93.8% .

16 , ' ' 가

가 ' ' 가

가

(p<0.1). (11),

가 (12-13).

17.6% 가

가

8%, 20%, 40%, 40-50% 가

(4), 가

가

가 ,

가

(10).

(pill count)

가

가 , 가 . 가

가 . 가

220 75 .

53 68%가 가 75 가

123 57% 가

(14). 1994 Coons et al 1,028

가

. Sharkness and Snow(15) 125

85

가 80%

(1).

가

가

가 , 가 , 가

가 가 가

16

가

- 가 가
- 가
- 가 가
1. Balkrishnan R. Predictors of Medication Adherence in the Elderly. *Clinical Therapeutics* 1998; 20(4): 764-771.
 2. Somerset NJ. Conference on patient compliance. Healthcare Compliance Packaging Council. 1993: 18-19.
 3. McKenney JM, Harrison WL. Drug-related hospital admission. *Am J Hosp Pharm* 1976; 33: 792-795.
 4. National Pharmaceutical Council(NPC). Emerging Issues in pharmaceutical cost containment. Reston, 1992: 1-16.
 5. . , 1999.
 6. . 2000; 10(1): 7-12.
 7. . , 1999.
 8. . , 1999.
 9. . : . 1997.
 10. Westfall UE. Methods for assessing compliance. *Topics in Clinical Nursing* 1996; 7(4): 23-30.
 11. Nortell SE. Accuracy of pateint interview and estimates by clinical staff in determining medication compliance. *Soc Sci Med* 1981; 15E: 57-61.
 12. Gordis L. Markowitz M. and Lilienfeld AM. Inaccuracy of using interviews to estimate patient reliability in taking medications at home. *Med Care* 1969; 7: 49-54.
 13. Nortell SE. Methods in assessing drug compliance. *Acta Medical Scandinavian* 1984; Suppl 683: 35-40.
 14. Schwarz D, Wang M, Zeitz L, et al. Medication errors made by elderly, chronically ill patients. *Am J Public Health* 1962; 52: 2018-2029.
 15. Sharkness CM, Snow DA. The patient's view of hypertension and compliance. *Am J Prev Med* 1992; 8: 141-146.