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## PROCEEDING

#### INTERNATIONAL CONFERENCE ON RESTORATIVE JUSTICE

Theme :

**Consumer Protection: "Law and Pharmacy Prespective"** 

Keynote speaker:

Drs. Bayu Teja Muliawarman,Mpharm,MM,Apt. Deputy Health Minister of Republic Indonesia Speaker II

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Speaker V

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# GIVING OF ORAL COUNSELING BY PHARMACISTS IMPROVE QUALITY OF HYPERTENSIVE PATIENTS IN RURAL PRIVATE HOSPITAL IN BANTUL DISTRICT YOGYAKARTA

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#### ABSTRACT

**Background**: The hypertension prevalence in Indonesia in 2007 is 32,2%. High blood pressure can dama arteries and blood vessels. It can also cause coronary artery disease, kidney failure and stroke. It is expech that the appropriate counseling can improve the quality of life hypertensive patients.

**Objective**: This study aim to evaluate the quality of life after giving brief oral counseling by a pharmacist

**Methods**: This study were conducted with quasi-experimental design. The ambulatory hypertension patie data were collected prospectively during the period of January until April 2013. A total samples of patients were divided into 2 groups, 30 (50%) patients were received counseling (intervension group) and (50%) patients were not received counseling (control group). Exclusion criteria were a deaf and pregnad patients. Data collection were conducted by doing interview and completion of SF-36 questionnaire.

Outcome measured : Quality of life domain in hypertension patients

**Results**: The results showed that oral counseling intervension by pharmacist could increased quality of of hipertensive patients. The SF-36 parameters that have higher in intervention group are physic functioning (p=0,002), emotional functioning (p=0,001), social functioning (p=0,013), general heal (p=0,008), physical status (p=0,157), pain (p=0,014) and fatigue (p=0,001) in comparison to the cont group.

**Conclusion** : To sum up, the pharmacist intervension by oral counseling can increase the quality of life 1 hipertensive patients.

Key words : quality of life, hypertension, brief oral counseling, rural hospital

**INTRODUCTION** 

Hypertension is one of the most common health problem in developed and underdeveloped countries (Kearney *et al.*, 2005). The prevalence of hypertension will increase in line with the life style changes such as smoking, obesity, physical inactivity, and psychosocial stress in many countries. The hypertension prevalence in Indonesia in 2007 is 32,2 % (Rahajeng and Tuminah, 2009). Hypertension is a public health problem because of the associated morbidity and mortality cause by cardiovascular disease.

Although there are effective medical therapies for hypertension management, only 37% of hypertensive patients in a 2003-2004 survey were reported to have their blood pressure controlled and it can lead to a huge adverse impact on quality of life (Ong *et al.*, 2007).

Since treatment of chronic diseases is often not curative, but aims to improve the quality of life, limit disease progression, and ameliorate suffering. Pharmacist being active members of the healthcare team can use these instrument in their practice to provide better patient care.

In a recent population based study, hypertension patients were found to have a lower health status compared with nonhypertension patients. Co morbidity with other disease associated with hypertension may influence how patients with hypertension rate their quality of life (Ogunlana *et al.*, 2009).

Poor medication adherence and lack of knowledge and awareness on hypertension are the major reasons for poor blood pressure control which is largely related to deterioration in patient's quality of life (Cavalcante *et al.*, 2008). It is need an implementation of parmaceutical care program in the health care center to achieve the optimum therapeutic outcomes that improve patient's quality of life.

The aim of measuring quality of life is to provide information about well being patients and to assess the effectiveness of halth care. Quality of life assessment measures changes in physical functioning, emotional functioning, social functioning, general health, physical status, emotional status, pain and fatigue (Testa, 1996).

Health people 2010 for hypertension suggest the necessity of a more comprehensive and intensive approach to achieve optimal quality of lifes. The intervention which can be applied bv pharmacists to manage hypertension patients counceling. is Counceling can improve the outcome therapy by maximizing the use of appropriate medication. One of the counseling benefit is improve mediaction adherence, so the the quality of live hypertension patients will be improved (Palaian et al., 2006).

Over all, it is necessary to investigate the influence of counceling orally on the quality of life of ambulatory hypertension patients at internal disease polyclinic PKU Muhammadiyah Bantul Hospital, Indonesia.

### METHODS

The research conducted was prospectively to determine quality of life in ambulatory hypertensive patients at internal disease polyclinic PKU Muhammadiyah Bantul Hospital, Indonesia. The study group included 60 patients. They were devided in to two groups as intervension and control group. The intervension group patients received regarding hypertension counseling and hypertension therapy, while the control group not received counseling. The follow up patients were done from baseline to second follow up. The inclusion criteria were patients 18-65 years old with diagnosed to have levels I and II hypertension and got antihypertensive medication in their prescription. The exclusion criteria were deaf and pregnant patients.

The data were collected from January to April 2013. Data collection was conducted by doing interview and completion of Quality of Life (QOL) questionnaire Validation questionnaire was carried out via conducting pilot study. The pilot study was conducted with 30 patients. The reliability analysis of the questionnaire was performed by calculating cronbach alpha val questionnaire was valid and reliable.

The collected data were analyzed result were expressed as mean  $\pm$  standard deviation. P value of <0,05 was considerece statistically significant

#### **RESULTS AND DISCUSSION**

Ta	Intervention group		Control group		
Chanate	ristic patients	(N=30)	9/	(N-30)	%
Characte	and the second se	66,7	9	30,0	
Sex	Male	20	33.3	21	70,0
	Female	10		4	16,7
Age	0-50	4	13,3	25	83,3
	>50	26	86,7	12	40,0
Stage of hypertension	Stage 1	3	10,0	18	60,0
pulle of appendition	Stage 2	27	90,0	18	10,0
Habit	Smoking	4	13,3	3	90,0
1 Dates	Not smoking	26	86,7	27	66.7
Education	0-9 year	16	53,3	20	
Education	>9 year	14	46,7	10	33,3
Jobs	Official government	12	40,0	7	23,3
7008	Non official government	18	60,0	21	76,7
Payment	Self payment	7	23,3	12	40,0
rayment	Insurance	23	76,7	18	60,0
Hypertension history	Yes	11	36.7	9	30,0
rigpertension instory	No	19	67.3	21	70,0

Table 1. Characteristic of hypertension patients

This study recruited sixty patients in rural private hospital in Bantul district Yogyakarta. At the pre-study, clinical and sociodemographic data of patients were collected. The characteristic data of the subject can be seen on the table 1. Based on the characteristic patients, the subject were dominated by male patients (66.7%) for intervension group and female patients (70.0%) for control group. As for age, both of the intervension and control group were dominated by patients with the ages of 50 to 59 years. As for stages of hypertension, both groups were dominated by patients with hypertension stage two. As for payment, the treatment group was dominated by health insurance (46.7%), where as the control group was dominated by self-payment (40%). In this study also evaluated the characteristic of smoking behaviour, the history of hypertension, education, and jobs. The subject study, either the intervension group or the control one, both were dominated by those who didn't have the history of hypertension.

smoking behaviour, self employed workers and education under 9 years.

At baseline study, all patients receive the quality of life questionnaire. AB answered the questionnaire, the interventi group received a counceling by pharmacie meanwhile the control group received a usual care in the hospital. At the end of th study patients received and answered quality of life questionnaire again.

The averages quality of life's doma scores of patients before and atte intervention were compared using the paire t-test and shown in table 2.

The increasing of quality of li questionnaire scores in the intervention grow were greater than the control group. Th quality of life domains in the interventio group that statistically significant differene (p<0,05) with the control groups we Physical functioning, Emotional functioning Social functioning, General health, Pais Fatigue, and General quality of life. Th Physical and emotional status in both tw groups same increased. but were su statistically significant difference (p>0,05). The result of a previous study by Shahina *et al* (2010) and Biradar *et al* (2012) also support these findings.

The intervention group has received counceling only once and an interval between the counceling and the post study relatively short time period (one month). It can improved functioning, Emotional the Physical functioning. functioning, Social General health, Pain, Fatigue, and General quality of life. The Physical and emotional status were not improved significantly because to

influence them nced continuous and long time period counceling. Hypertension is a chronic disease and patients have been received therapy for long time ago, it was influenced quality of life patients especially the physical and emotional status. The counseling by pharmacist will be improving adherence in hypertension therapy and controlling blood pressure control (Alfian *et al.*, 2013), Good blood pressure controlled will improve quality of life hypertensive patients.

Table II. Qua	ality of life do	nains scores	of the interv	ention and	control group
					<u></u>

Domain	Intervention group (n=30)		p	Control gi	p	
	Pre study mean±SD	Post study mean±SD	1	Pre study mean±SD	Post study mean+SD	I
Physical functioning	71.83 ± 22.11	75.50 ± 20.78	0.002*	71.17 ± 24.48	72.67 ± 23.84	0.279
Emotional functioning	$84.40 \pm 15.80$	92.53 ± 7.41	0.001*	85,27 ± 12.93	86.30 ± 13.47	0.357
Social functioning	71.25 ± 23.93	76.67 ± 21.71	0.013*	74.42 ± 25.25	81.50 ± 20.92	0.017*
General health	77.36 ± 9.39	81.22 ± 7.55	0.008*	73.99 ± 11.57	75.27 ± 12.61	0.288
Physical status	59.17 ± 39.11	60.83 ± 37.53	0.157	61.67 ± 36.98	59.17 ± 38.55	0.375
Emotional Status	67.76 ± 34.46	67.76 ± 32.16	1.000	58.88 ± 37.85	55.53 ± 38.51	0.273
Pain	$62.92 \pm 24.89$	71.25 ± 20.28	0.014*	62,17 ± 21.20	67.50 ± 21.68	0.168
Fatigue	64.15 ± 11.45	71.50 ± 9.48	0.001*	65.50 ± 13.73	69.07 ± 13.21	0.126
General quality of life	446.13 ± 133.47	481,87 ± 126.98	0.007*	459.27 ± 109.69	463.00 ± 113.62	0.702

The general quality of life scores of the intervention and control group were the same undergo increase. Though, based on the

average of the general quality of life scores increase of the intervention group is greater dan control group (fig. 1).

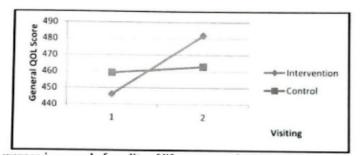


Fig 1. The average increased of quality of life scores on the intervention and control group

#### CONCLUSION

Based on these findings, this study concludes that pharmacist's counseling can be improving quality of life of hypertensive patients. Additional research should be conducted to evaluate the efficacy of long time period pharmacist's counseling for the management of hypertension.

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