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A STUDY ON AWARENESS, KNOWLEDGE AND ADHERENCE OF MEDICATION IN PATIENTS WITH HYPERTENSION FROM TERTIARY CARE CENTRE OF KATHUA, J&K: A HOSPITAL BASED STUDY.

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# ABSTRACT

**Introduction-** Hypertension is a treatable and preventable cause of mortality and morbidity disease. It is one of the important public health problems in both the developed and developing countries.

**Objective-**To assess the patient's knowledge and awareness about hypertension and adherence to antihypertensive medication among hypertensive patients using WHO standardized Questionnaire.

**Material and Methodology-** A cross- sectional study was conducted at the OPD clinic of Associated hospital of GMC Kathua. The hypertensive patients with or without comorbid conditions attending the Medicine OPD was included in the study. The study was conducted during a period of 2 months in the month of November and December, 2019.

**Results-** Altogether 300 hypertensive patients were enrolled in the study. Among the participants, males were 44.33% and females were 55.66%. Maximum hypertensive respondents go for their routine blood pressure check whenever they do not feel well. 36.33% of the respondents had blood history of hypertension. Maximum number of patients took the medication only when they feel that they need **them. About 61% were aware of** any complications of hypertension.

Conclusion- Proper IEC and BCC activities need to be undertaken at community level to increase the awareness about the benefits of adherence of the medication.

# **KEYWORDS**

### eyelid tumours, histopathological, malignant

### INTRODUCTION

Hypertension is one of the chronic non-communicable diseases and is one of the important risk factor for many cardiovascular diseases. Hypertension is a treatable and preventable cause of mortality and morbidity disease. It is one of the important public health problems in both the developed and developing countries.¹According to World Health Organization 2008 report; about 40% of the population with age more than 25 years had hypertension.² The important factors which are contributing for epidemiological transition of hypertension in world are ageing, sedentary lifestyle, urbanization, obesity and increased salt intake.³The most important factors contributed to control in hypertension are adherence with therapy and dose of prescribed BP medications.

Adherence with the hypertensive medication was observed in less than 50% of population.⁴Because of poor adherence, the effectiveness of drugs reduces which shows that it is a major barrier in improving the health of the patients.

## MATERIALAND METHODOLOGY-

A cross- sectional study was conducted at the OPD clinic of Associated hospital of GMC Kathua. The hypertensive patients with or without comorbid conditions attending the Medicine OPD was included in the study. The study was conducted during a period of 2 months in the month of November and December, 2019. All the patients above the age of 40 years who were having history of hypertension or newly diagnosed were included in the study. Adults of age less than 25 years, pediatrics, pregnant and lactating women were excluded. WHO Standardized questionnaire of "Developing Integrated response of developing health care systems to rapid population Ageing" was used as study tool. In addition socio demographic profile was recorded for every study respondent. Data was entered in Microsoft excel. Descriptive statistical analysis was expressed in form of number and percentages. The study was carried after taking institutional ethical clearance as well as verbal consent from the patients who were enrolled in the study.

### RESULTS

Altogether 300 hypertensive patients were enrolled in the study. Among the participants, males were 44.33% and females were 55.66%. Maximum number of patients was in the age group of 60-70 years followed by 51-60 years (Table 1). Maximum patients came to know about their hypertension from routine medical check- up and first diagnosed as having hypertension from the Primary Health Centre. Maximum hypertensive respondents go for their routine blood pressure check whenever they do not feel well. 36.33% of the respondents had blood history of hypertension. Maximum number of patients took the medication only when they feel that they need them. About 61% were aware of any complications of hypertension.

### Table 1. Demographic characteristics of the respondents (N=300)

S.No.	Variables	N(%)
1. 2.	Age group <40yrs 40-50yrs 51-60yrs 60-70yrs >70yrs Gender Males. Females.	20(6.66%) 46(15.33%) 58(19.33%) 124(41.33%) 52(17.33%) 133(44.33%) 167(55.66%)

#### Table 2. Diagnosis of Hypertension

S.	Questions	Responses N
NO.		(%)
1.	How did you come to know about your	
	hypertension?	
	In a routine medical control	97(32.33%)
	Screening programme	94(31.33%)
	Emergency service	38(12.66%)
	Other(specify)	20(6.66%)
	I don't know	51(17%)
2.	Where were you first diagnosed as having	
	hypertension?	
	Primary health centre	85(28.33%)
	Secondary care hospital	71(23.66%)
	Tertiary care hospital	59(19.66%)
	At a pharmacy/drug store	27(9%)
	Other	28(9.33%)
	Don't know	30(10%)
3.	When were you diagnosed?	
	First time	26(8.66%)
	<5 yrs	101(33.66%)
	>5 yrs	173(57.66%)
4.	Was the clinic or hospital where you were first	
	diagnosed run by the government, a charitable	
	organization or was it privately run?	
	Public	210(70%)
	Private	63(21%)
	NGO/Charity organization	27(9%)

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5.	Where do you regularly go for routine follow up to	
	check your blood pressure?	
	Diagnosis on this visit	26(8.66%)
	Nearby PHC	110(36.66%)
	Nearby secondary hospital	77(25.66%)
	Tertiary hospital	30(10%)
	Do not do any routine follow up	57(19%)
6.	Do you have to pay fees for consultation and drugs	
	at the facility that you regularly go to for the	
	treatment of your hypertension?	
	Paid nothing	280(93.33%)
	Paid part	15(5%)
	Paid fully	5(1.66%)
	Paid	-
	Don't know	-

#### Table 3. Management of hypertension

S. No.	Questions	Responses N(%)
1.	Have you been told by a doctor or nurse or	
	someone by this health centre to control your	
	blood pressure?	287(95.66%)
2.	When do you go for your routine blood pressure check?	
	Diagnosis on this visit	26(8.66%)
	As advised by the doctor	121(40.33%)
	When I do not feel well.	138(46%)
	Both	15(5%)
	Other (specify)	-
3.	Besides a Primary health centre, how else do you	
	get your blood pressure measured (checked)?	
	Secondary care hospital	77(25.66%)
	Tertiary care hospital	30(10%)
	Neighbour/family member	4(1.33%)
	Myself	8(2.66%)
	Nearby pharmacy	71(23.66%)
	I only checked my blood pressure in the PHC	110(36.66%)
4.	Compared to 12 months ago, is your blood	
	pressure:	
	Better	259(86.33%)
	Same	30(10%)
	Worse	-
	I don't know	4(1.33%)
	I didn't get my BP measurement 12 months ago	7(2.33%)

#### **Table 3. Complications and hospitalization**

S. No	Questions	Responses N(%)
1.	Do you have blood relatives with history of hypertension?	109(36.33%)
2.	Over the last year have you been admitted to the hospital?	58(19.33%)
3.	Was it related to hypertension?	43(14.33%)
4.	Have you had any complications from your hypertension?	67(22.33%)

#### **Table 4.Medications and adherence**

S. No	Questions	Responses N(%)
1.	Have you been prescribed any medication to	
	lower your blood pressure?	289(96.33%)
2	Do you take all your prescribed medications?	193(64.33%)
3.	If you don't take your medication regularly, why	
	don't you take them as directed?	
	Cannot afford the cost	27(9%)
	Medications are not easily available.	8(2.66%)
	I don't like to take medications	17(5.66%)
	I only take them when I feel that I need them	30(10%)
	I don't like the side effects of the medication	-
	I prefer alternative medicine	-
	I forget	14(4.66%)
	I don't know	-
	other	-

# Table 5. knowledge and self care

S.No.	Questions	Responses N (%)
1.	Are you aware of any complications of	183(61%)
	hypertension?	

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2.	If you were aware, have you been	183(61%)
	informed by the doctor or nurses or	
	someone by the health centre about these	
	complications?	
3.	Have you been told that stroke is related to	175(58.33%)
	hypertension?	

#### DISCUSSION

In the present study, the maximum respondents were between the age group of 60-70 years followed by 51-60 years and these similar observations were reported in other study as well and dissimilar in another studies.^{6,7}In our study, majority of the females were hypertensive as compared to males. Majority of the respondents came to knew about having hypertension during routine medical check- up at Primary health centre. 57.66% of hypertensive patients were diagnosed as hypertensive more than 5 years and they are increased risk of developing complications due to hypertension.

95.66% patients had been told by a doctor or nurse or someone by this health centre to control their blood pressure. 36.33% of the respondents had history of hypertension in blood relations. In 1972, The National High Blood Pressure Education Programme was launched to improve public knowledge of hypertension.8 Increase in awareness was also reported during the period from 1976-1991 from 51% to 73% from National Health and Nutrition Examination Survey.9Regarding adherence to medication, 64.33% took all their prescribed medications and these similar findings were also observed in other studies.^{10,11} Those who didn't take medication regularly because of reasons like they only took the medication when they feel that they need them, cannot afford the cost. So, poor compliance leads to treatment failure and these were the main reasons for non-adherence and observed in other studies as well.12,13

#### CONCLUSION-

The main reason of their poor compliance is non-adherence. The main reasons were they didn't take it regularly, cost. Important measures should be taken like behavioral change communication in the community level. Proper IEC activities need to be undertaken at community level to increase the awareness about the benefits of adherence of the medication.

#### **Declaration-**Conflicts of interest-nil Funding-nil

Institutional ethical clearance- approved.

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