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TO ASSESS THE KNOWLEDGE OF HYPERTENSION AMONG HYPERTENSIVE PEOPLE

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ABSTRACT:

BACKGROUND: Hypertension is the silent killer disease of today and the single most important predictor of cardiovascular risk. High blood pressure is responsible for 7.6 million deaths per annum worldwide. Around 54% of stroke and 47% of coronary heart disease are attributable to high blood pressure. This study was aimed at assessing the knowledge of hypertension among hypertensive people.

AIM AND OBJECTIVE: The knowledge of hypertension among hypertensive people

MATERIALS AND METHODS: This was a questionnaire study to assess the knowledge on hypertension. The permission was obtained from the institutional ethical committee. The data was collected with the help of standard questionnaire among 200 hypertensive patients. Data like Socio-demographic profiles which includes age, gender, BMI status, personal habits, health profile, co-morbid status and level of knowledge on hypertension were collected. All of these were collected only after getting an informed consent.

RESULT AND OBSERVATION: The knowledge of hypertension was tested among 200 hypertensive people with structured questionnaire. 58% people were having knowledge about the normal values of hypertension. Out of 200 hypertensive people 70% of the study population have adequate knowledge about hypertension while 30% had minimum knowledge about hypertension.

CONCLUSION: These results suggest that the participants had partial knowledge about hypertension even though they were unaware of hereditary illness. Through this study the minimum knowledgeable subjects were able to know about normal range, causes, complications, lifestyle management and methods to control hypertension.

KEYWORDS: Hypertension, Hypertensive people, Knowledge, Medications

INTRODUCTION

Hypertension is one of the most common and important cardiovascular risk factors, and may account for about 30% of cardiovascular diseases. Hypertension is a major public health burden and is part of an epidemiological transition from communicable to non communicable diseases globally. It is an important risk factor for stroke, coronary heart diseases, peripheral vascular disease, heart failure, and chronic kidney diseases.⁽¹⁾Hypertension and its complications have a large economic impact, both at household and macroeconomic level, due to catastrophic healthcare expenditures and through loss of income and labour productivity. Although the exact causes and mechanisms of hypertension remain unknown, it is generally believed that the levels of blood pressure and the prevalence of hypertension are determined by multiple environmental factors such as poor diet⁽²⁾, more sodium intake cigarette smoking, mental work, physical inactivity, overweight and obesity, and excessive alcohol consumption, as well as genetic factors, and their interactions.⁽³⁾Hypertension is an important global health challenge because of its high prevalence and resulting cardiovascular disease and chronic kidney disease.⁽⁴⁾ Hypertension is the leading preventable risk factor for premature death and disability worldwide.⁽⁵⁾

Under the new 2020 guidelines, all blood pressure measurements over 120/80 mmHg are considered elevated. Hypertension has been referred to as a "silent killer". By 2020, studies indicate that mortality by cardiovascular diseases is expected to increase by 120% for women and 137% for men.⁽⁶⁾ To obtain an up-to-date picture of the worldwide situation, it is important to assemble more recent data and to quantity differences between world regions. The aim of this study is to assess Knowledge of hypertension among hypertensive people. The basic aim behind conducting this study is to develop knowledge on hypertension in order to reduce life threatening conditions. Through this study the minimum knowledgeable subjects were able to know about normal range, causes, complications, lifestyle management and methods to control hypertension.

AIM: To assess the knowledge of hypertensionamonghypertensive people

OBJECTIVE: To study the knowledge of hypertension among hypertensive people.

MATERIALS AND METHODS:

The data was collected with the help of standard questionnaire among 200 hypertensive patients. Data like Socio-demographic profiles which includes age, gender, BMI status, personal habits, health profile, co morbid status and level of knowledge on hypertension were collected.

All of these were collected only after getting an Approval from institutional Ethical committee in Dr.M.G.R Educational & Research Institute. The informed consent was obtained from all participants Data was analysed statistically by simple proportions.

SOURCES : Not Appilicable

SAMPLE SIZE: 200 Hypertensive people.

INCLUSION CRITERIA

- Patient diagnosed with essential hypertension.
- Age above 18 years
- Patients of either sex

EXCLUSION CRITERIA

- Pregnancy Induced Hypertension
- Chronic Kidney disease

RESULT

Total 200 subjects were participated in the study. Out of 200 participants, 106 were females and 94 were males (Table1). 70% subjects were found to have knowledge about hypertension. 68% subjects were having knowledge about the life threatening consequences of hypertension.

AGE	PERCENTAGE	
20-29 Years	1%	
30-39 years	25%	
40-49 years	18%	
50-59 years	22%	
60-69 years	21%	
Above 70	12%	

Table 1: Age wise distribution of subjects

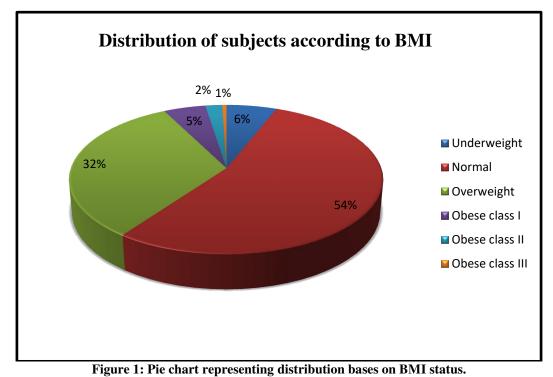
In **Table 1** age wise % of subjects is shown out, of which, 25% belongs to 30-39yrs age group, 18% belongs to 40-49yrs age group, 22% belongs to 50- 59yrs age group, 21% belongs to 60-69yrs age group and rest 12% belongs to above 70yrs age group.

Table 2:	Gender	wise	distribution	of	subjects
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GENDER	PERCENTAGE	
Male	47%	
Female	53%	

In **Table 2** gender wise distributions of subjects are shown where, 47% were male subjects and 53% are female subjects. Most of the hypertensive patients were female.

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EDUCATIONAL QUALIFICATION	PERCENTAGE
Educated	62%
Uneducated	38%

Table 3: Distribution of subjects according to Educational Qualification

In Table 3 education wise distributions are done where, 62% were educated and 38% were uneducated.

KNOWLEDGE OF HYPERTENSION

The knowledge of hypertension was tested among 200 subjects with validated questionnaires and results were shown in **Tables 4**. 70% subjects had adequate knowledge about hypertension however 30% subjects had minimum knowledge about hypertension. 55% of hypertensive patients are knowledgeable about normal values of blood pressure, 73% knows that both sexes have equal chances of developing hypertension, 86% knows the causes of hypertension, 80% knows that obese people are more prone to heart disease due to hypertension. 69% knows that more salt consumption increases blood pressure, 67% knows that life style modification helps to reduce blood pressure.

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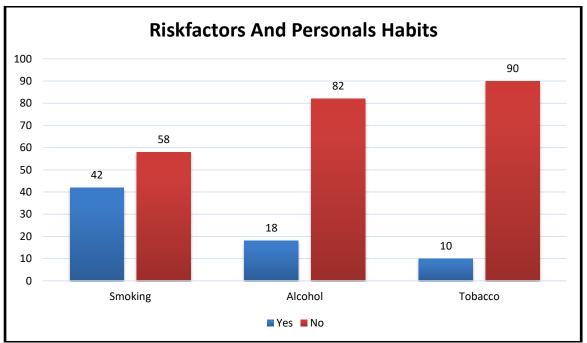


Figure 2: -Distribution of subjects based on knowledge of risk factors of personal habits.

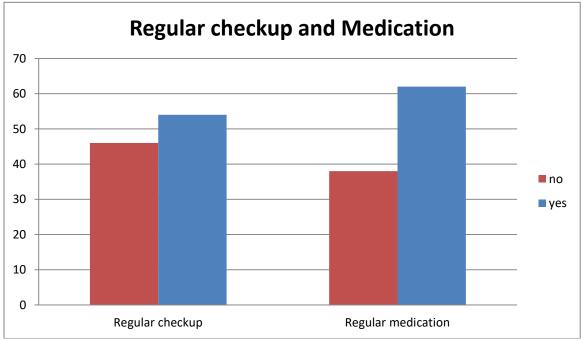


Figure 3: Distribution of subjects with Regular check-up and Medication

Table 4: Patient's knowledge on hypertension

SI.		Yes	No (%)
No	QUESTIONS	(%)	

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1.	Aware about the term 'Hypertension'	55%	45%
2.	Knowing normal range of BP as 120/80 mm Hg	58%	42%
3.	Knowing BP values while diagnosing HTN	78%	22%
4.	Knowing BP value in recent visits	82%	18%
5.	Both sexes have equal chances of developing HTN	73%	27%
6.	Regular exercise reduces HTN	56%	44%
7.	Knowing the causes of hypertension		14%
8.	Knowing that controlling of BP reduces its complication	92%	8%
9.	Increased risk of developing HTN if there is a family history	48%	52%
10.	Aware about more salt intake increases BP	69%	31%
11.	Lifestyle modification reduces HTN	67%	33%
12.	Thinking HTN as curable condition	72%	28%
13.	HTN can lead to life threatening condition	68%	32%
14.	Aware about the complications of HTN	70%	30%
15.	Knowing the obese people are more prone to heart diseases due to hypertension	80%	20%

DISCUSSION

Hypertension or high blood pressure is a common condition that will catch up with most people who live into older age. This study is conducted to understand the current status of knowledge of hypertension among hypertensive patients. Our results suggest that participants are aware of their hypertensive condition. From the study 70% participants have adequate knowledge about hypertension and 30% have minimum knowledge about hypertension.

Regarding Educational status 62% (123) were educated and 38% (77) were uneducated. With regarding to family history 44% (89) of participants were reported with a known history of hereditary illness and 52% (104) of them were without history of hereditary illness. A recent study says that family history of hypertension is nearly 1.4 times more likely to develop hypertension than those without a family history. ⁽⁷⁾

Considering personnel habits 43.5% (87) were teetotalers, 21% (43) are alcoholic, 14% (27) are smokers and 5% (11) are tobacco users. Regarding the regularity of checkups 85% of educated participants were on regular check up and77% of uneducated participants went for regular checkups. 93% of participants going for regular checkups were under regular medication while 27% of participants were taking medication even though they were not under regular checkups. A study conducted in Sudanese people shows that only 20% of the participants went for regular check-ups / monitored their BP at home and 14% did not change their habits to achieve suitable pressure levels and 34% did not visit doctors on a regular basis.(8)

The knowledge of hypertension was assessed among 200 hypertensive people with a standard questionnaire and the result shows that about 55% of hypertensive patients are knowledgeable about normal values of blood pressure, 73% knows that both sexes have equal chances of developing hypertension, 86% knows the causes of hypertension, 80% knows that obese people are more prone to heart disease due to hypertension. 69% knows that more salt consumption increases blood pressure, 67% knows that life style modification helps to reduce blood pressure.

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CONCLUSION

It is evident that hypertension is a common health problem in our country but it has been well acknowledged to control its affect. In our study, it's been seen that knowledge has been increased partially among hypertensive people. In a developing country like India different health care programs not only helps to create awareness of hypertension, but also factors contributing to an increase in incidents of hypertension and ways to prevent it. The result shows that 70% of people had adequate knowledge about their hypertensive condition.

The participants had partial knowledge about hypertension even though they were unaware of hereditary illness. Through this study the minimum knowledgeable subjects were able to know about normal range, causes, complications, lifestyle management and methods to control hypertension.

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Conflicts of Interest: The authors declare no conflict of interest

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