ISSN: 0975-1556

Available online on www.ijpcr.com

International Journal of Pharmaceutical and Clinical Research 2022; 14(1);295-299

Original Research Article

Hypertension and Beyond in Indian Clinical Practice Study: A Nationwide Survey Assessing Knowledge, Attitude and Practices of Physicians

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Received: 06-11-2021 / Revised: 19-12-2021 / Accepted: 28-12-2021

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Conflict of interest: Nil

Abstract

Aim: Hypertension and beyond in Indian clinical practice study: a nationwide survey assessing knowledge, attitude and practices of physicians

Methods: This cross-sectional study was done the Department of Medicine, Darbhanga Medical College and Hospital, Laheriasarai, Darbhanga, Bihar, India, for 1 year. 100 individuals were included in this study. A pre-coded, clarified and pre-tested questionnaire was formulated to collect information from the selected respondent.

Results: Out of 100, 32%, 30%, 28% and 11% of the respondents were 30 to 45 years, 45-60 years, below 30 years and more than 60 years old respectively. 56% were male and 44% were female. 38% of the respondents were housewives followed by 22% farmers, 16% retired, 7% students and private-job holders, 7%-day laborer, 5% businessman and 5% unemployed. More than 50% (average 56%) of the respondents had proper knowledge on hypertension. more than 80% (average 86%) had positive attitude about hypertension. 68% of the respondents never checked their BP, 66% of the respondents visited doctor last month. 77% and 76% of the respondents never checked their Urine and Blood Sugar and 95% of the respondents could not recall when they exercised

Conclusion: This survey revealed specific lapses in knowledge, attitude, and practice behaviors in regard to hypertension. Individuals were less proficient in knowledge, attitude and practices about hypertension. Majority of the respondents had higher knowledge and positive attitude toward hypertension but low level of practices.

Keywords: HTN, Knowledge, KAP.

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Introduction

Hypertension is one of the most common chronic diseases and one of the most critical health problems causing death as single contributor in developed and developing countries [1,2]. In most cases of hypertension, the primary cause was not detected, and these cases are known as essential hypertension. Essential

hypertension is not curable, but with medication the blood pressure (BP) can be controlled to that of the physiological level. Nevertheless, as hypertension itself usually does not present with symptoms, it can remain undiagnosed for a long time. Hypertension is also called as a silent killer disease. which is often diagnosed incidentally. If a hypertensive patient remains untreated, it can lead to serious life-threatening complications of vital organs such as the brain, eye, heart, and kidney, resulting in death or serious patient disability [3,4]. It is believed to be one of the main risk factors for peripheral cerebrovascular vascular. and cardiovascular diseases (CVD) which include stroke, coronary disease, peripheral artery disease, renal disease and heart failure [5,6]. Obesity, sedentary behaviors, and other individual risks for one of these cardiovascular illnesses could be increased by two to three times due to hypertension [7,8].

The cost of antihypertensive medicine is very high and takes up a large and rising share of healthcare resources [9,10].In Malaysia, hypertension is quite prevalent among adult and elderly population; the age-adjusted prevalence for 2007-2011 was 42.0% (CI: 40.9–43.2), which was higher in males or overweight and obese people [11,12].Its care is inadequate because the detection and treatment of hypertension is less than satisfactory High BP detection and control are seriously vital for decreasing the risk of strokes and heart attacks The prevalence of hypertension has not declined, although the enhancement in BP control is encouraging. Nowadays, continuing health education in Malaysia through mass media is the results of good basic understanding on hypertension in the general population, while the limited detailed understanding indicates the urge to develop more specific health education programs. Moreover, limited motivation to

implement healthy lifestyles indicates the urge to further develop an atmosphere conducive to healthy lifestyles [13].

ISSN: 0975-1556

Material and methods

This cross-sectional study was done the Department of Medicine, Darbhanga Medical College and Hospital, Laheriasarai, Darbhanga, Bihar, India

Methodology

100 individuals were included in this study. A pre-coded, clarified and pre-tested questionnaire was formulated to collect information from the selected respondent. The KAP study questionnaire was first piloted in both our home where it was translated and back translated comprehension and response consistency. The data set was first checked, scrutinized, cleaned and entered into the computer from the numerical codes on the form. The data were edited to check if there was any discrepancy (double entry, wrong entry).

The frequency distribution of the entire variable was checked using SPSS 25.0 windows program. It gave overall information about the variables. All participants in the study were asked for their consent before collection of data and all had complete rights to withdraw from the study at any time without any threat or disadvantage. The questionnaire designed considering the privacy of the subject. The subject's personal information was kept confidential.

Results

Table 1 illustrates that 32%, 30%, 28% and 11% of the respondents were 30 to 45 years, 45-60 years, below 30 years and more than 60 years old respectively. 56% were male and 44% were female. 38% of the respondents were housewives followed by 22% farmers, 16% retired, 7% students and private-job holders, 7%-day laborer, 5% businessman and 5% unemployed.

Table 1: gender and age distribution

Gender	Number	%
Male	56	56
Female	44	44
Age		
Below 30	28	28
30-45	32	32
45-60	30	30
Above 60	10	10

Table 2 indicates that more than 50% (average 56%) of the respondents had proper knowledge on hypertension. more than 80% (average 86%) had positive attitude about hypertension.

Table 2: Knowledge level about hypertension

Knowledge related questions		No	Don't know
Is HTN a disease?		18	12
What are the causes of HTN?	57	24	19
Normal range of HTN		13	57
Is salt the causal of HTN?		18	10
Is tobacco the cause of HTN?	57	24	19
Is overweight related to HTN?		23	14
Is physical exercise beneficial?		21	15
Do you know the symptoms of HTN?		15	46

Results were expressed as percentage

Table 3 indicates that 68% of the respondents never checked their BP, 66% of the respondents visited doctor last month. 77% and 76% of the respondents never checked their Urine and Blood Sugar and 95% of the respondents could not recall when they exercised

Table 3: Practice level about hypertension

Practices about HTN	Yesterday	7 Days Ago	15 Days Ago	1 month Ago	3 months Ago	Do not recall	Never
When did you check up BP last?	0	4	6	4	7	11	68
When did you visit doctor last?	3	10	2	66	12	7	0
When did you check up urine last?	0	0	0	0	12	11	77
When did you check up blood sugar last?	0	0	8	8	8	0	76
When did you exercise last?	2	3	0	0	0	95	0

Discussion

High blood pressure is a burning issue now, rising developing countries. It is the top cause of mortality. Prevention is always desirable, but it is actually difficult where there is poor awareness, attitude, and

practices. This study reveals that 32%, 30%, 28% and 11% of the respondents were 30 to 45 years, 45-60 years, below 30 years and more than 60 years old respectively. This finding was supported by another study which shows that greater number of participants age range was 35-54 (50.2%),

ISSN: 0975-1556

followed by 15-34 yrs (11.9%) [14]. 56% were male and 44% were female. Housewives were more but another study found dominant occupation was civil service (35%) with married people (64.7%) [14]. More than half of the respondents had proper knowledge on hypertension. On an average 86% had positive attitude toward hypertension. About 68% of respondents never checked their blood pressure. This scenario is almost same in case of other non-communicable diseases i.e., average level of knowledge, good and positive attitude but lower practice level. Similar good levels of basic exposure to hypertension information have reported in several previous studies among both hypertensive and non-hypertensive patients [15,19], especially women [20]. Exposure to hypertension knowledge was significantly associated with family history of hypertension but not with education or occupation. Awareness asymptomatic nature of the condition could affect attitude toward screening and early health-seeking behavior. Azubuike & Kurmi [14] found in their study that strong positive attitude towards the use of drugs in the management of hypertension was seen only in 44 (17.5%) of the respondents while strong positive perception towards etiology of hypertension seems to be harbored by only 23 (9.1%) who strongly disagreed with the opinion that hypertension could be caused by evil spirits or charms. It has been reported that lack of awareness of asymptomatic presentation of hypertension affect positive attitude towards screening [21]. Another cross-sectional study found that the patient's knowledge on blood pressure and exercise was 59.2% and 67.7%, respectively [22]. The attitude toward exercise is good when compared with the result of a research done in Ghana (60%) [23]. On the contrary, knowledge about hypertension is low when compared research done in Kinondoni Municipality, Dares Salaam (66.8%) [23]. The attitude of the patients in avoiding salt intake and smoking cigarette was 94.6% and 98.5%. Evidence recommended that

patients should be educated on the components and application of lifestyle modification for better control prevention of their blood pressure. The health care providers can come forward and play vital role to enable the patients to control their blood pressure by giving consistent advice on the lifestyle modification. Community based health education programme can be instituted to raise awareness level as well as practice level.

ISSN: 0975-1556

Conclusion

This survey revealed specific lapses in knowledge, attitude, and practice behaviors in regard to hypertension. Individuals were less proficient in knowledge, attitude and practices about hypertension. Majority of the respondents had higher knowledge and positive attitude toward hypertension but low level of practices.

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ISSN: 0975-1556

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