Assessment of Hypertension-related Knowledge, Attitudes and Life-style Practices among Hypertensive Patients at Primary Health Care Centers

## Introduction

Hypertension is a major public health challenge worldwide It is estimated $26 \%$ of the Saudi population have hypertension. An assessment of hypertension-related knowledge, attitudes, and lacking. lacking. hypertension awareness campaigns and patient education efforts.

## Objectives

We conducted a study to assess the level of hypertension-related KAP in hypertensive patients attending primary health care centers (PHCCs) in Saud Arabia and determine whether differences in KAP are related to demographic characteristics and other factors such as disease duration.

## Methods

Study area
The city of Jeddah, which includes a total of 45 PHCCs
Study design and sample size

- A cross-sectional study on hypertensive patients attending 5 of Jeddah's A cross-sectional study
PHCCs during July 2015 .
Sample size $=220$ Participants with $100 \%$ response rate
Ethical consideration
The study was approved by the Medical Research and Studies Department in Jeddah at the Directorate of Health Affairs as well as Emory Department in Je
University's IRB.
Verbal consent was obtained from study participants.


## Inclusion criteria

- Hypertensive patients attending the chronic disease clinic or the general internal medicine clinic.
All visiting hypertensive patients were eligible and there was no exclusion Data collection tool
Participants were interviewed one-on-one in Arabic using an adapted
structured questionnaire which structured questionnaire, which evaluated hypertension-related knowledge ( questions), attitudes (5 questions), and lifestyle practices ( 6 questions).


## Study variables

 Independent variables Age, sex, education level, marital status,occupation, duration of hypertension, body mass index (BMI), family history of hypertension, smoking history, and diet type
Statistical Analysis
Descriptive statistics and Chi-square test were used.

## Results

## Demographics:

Participants were: $53 \%$ men; $67 \%$ aged $\geq 41$ years; $81 \%$ married; $32 \%$ graduate
degree holders; and $37 \%$ employed.

## Clinical and anthropometric characteristics:

$47 \%$ were overweight based on their BMI values, $52 \%$ diabetic; $56 \%$ non-smokers, $75 \%$ have family history of hypertension; and $39 \%$ had hypertension for < 5 years.


## Results

## Practice parameters:

More men reported exercising in the last month than women ( $42 \%$ men vs. $33 \%$ women; $P=0.03$ ).
The older age group (40+ years) reported having their blood sugar level checked in the last month more than the younger age groups ( $P=0.004$ ).
Higher educational level was statistically significantly associated with more frequent checking of lipid profile ( $P=0.02$ ) and exercising in the last month $(P=0.001)$. Patients with shorter duration of hypertension were more likely to exercise in the last
month than the other groups $(P=0.004)$. month than the other groups ( $P=0.004$ ).

## Table 3. Practice parameters Jeddah, Saudi Arabia, 2015

| Practice parameters | N | \% |
| :---: | :---: | :---: |
| When was your blood pressure checked last? |  |  |
| One week to one month ago | 156 | 71 |
| 2 to 6 months ago | 53 | 24.1 |
| More than 6 monts ago | 11 | 5 |
| When was your last visit with your physician? |  |  |
|  | 67 | 30.5 |
| 2 monthts 106 months ago More than 6 montins ago | 129 24 | ${ }^{58.6}$ |
| When was your last urine examination done? |  |  |
| One week to one month ago | 22 | 10 |
| 2 months to 6 months ago | 118 | 53.6 |
| For more than 6 months ago | 80 | 36.4 |
| When was your lipid profile checked last? |  |  |
| One week to one month ago | 22 | 10 |
| 2 months to 6 months ago | 103 | 46.8 |
| More than 6 months ago | 95 | 43.2 |
| When was your blood sugar level last checked? |  |  |
| One week to one month ago | 102 | 46.4 |
| 2 month to 0 months ago More than 6 months ago | ${ }_{25}^{93}$ | 42.3 11.4 |
| When did you exercise last? |  |  |
| One week to one month ago | 80 | 36.4 |
| 2 months to 6 months ago | ${ }^{66}$ | ${ }_{3}^{30}$ |

## Conclusion

A high proportion of surveyed hypertensive patients had a good level of hypertension-related knowledge and attitudes but low level of hypertension-related practices.
An urgent attention and efforts from healthcare providers are required to improve the level of hypertension-related practices
Saudi Arabia are with larger samples and wider coverage of regions in the Kingdom of

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