

# **COMMUNITY SCREENING FOR RISK FACTORS AND MARKERS OF CHRONIC KIDNEY DISEASE IN ONDO STATE**

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# INTRODUCTION

- **Chronic kidney disease has become a global epidemic with a variable prevalence rate of about 20.4-26.6% in Nigeria.**
- **It is a relentless loss of kidney structure and function, hence the need for early detection of risk factors and markers.**

## OBJECTIVE

- To determine the prevalence of risk factors for Chronic Kidney Disease and its markers

## METHODOLOGY

- A cross-sectional study of consecutive adults who presented for screening at a community screening exercise in two local governments in Ondo State; Ondo Central and Akure South.
- Their bio-data, medical history, biophysical profiles and spot urinalysis were obtained.
- Data was analysed using SPSS 20.

# RESULTS

- A total of 993 adults (age range: 17-120 years) were screened.
- There were 65.9% males and 34.1% females (M:F=1.9:1).
- 310 (31.5%) had BP in the pre-hypertension range according to JNC 7
- 447 (45.4%) had BP in the hypertension range.

# RESULTS

- **Forty five (6.5%) had a previous history of diabetes mellitus and 32 (4.3%) had history of cigarette smoking.**
- **24.7% of the males had WC above 94cm**
- **WC was above 80cm in 72.4% of the females.**
- **Proteinuria ranging from 1+ to 3+ was found in 124 (12.8%);**
- **1.5% had haematuria.**

# CLINICAL PARAMETERS

PARAMETERS	MEAN	±SD
AGE	47.13	17.20
SBP	131.1	24.4
DBP	80.3	14.2
BMI	26.6	±5.8
WC (MALES)	85.9	11.9
WC (FEMALES)	89.6	13.5

# CORRELATIONS

- There was significant association between gender and hypertension ( $p < 0.001$ ).
- BMI correlated with SBP ( $p < 0.001$ ,  $r^2 = 0.355$ ) and DBP ( $p < 0.001$ ,  $r^2 = 0.381$ ).



# CONCLUSION

- ❑ **It is concluded that the risk factors for CKD are common among indigenes and residents of Ondo State.**
- ❑ **Hypertension and obesity (among women) ranked highest among these risk factors.**

**THANK YOU**