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


ADDRESS: Kidney Care Centre Ondo, Ondo State.
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.
• 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.
<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>MEAN</th>
<th>±SD</th>
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<tbody>
<tr>
<td>AGE</td>
<td>47.13</td>
<td>17.20</td>
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<tr>
<td>SBP</td>
<td>131.1</td>
<td>24.4</td>
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<tr>
<td>DBP</td>
<td>80.3</td>
<td>14.2</td>
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<tr>
<td>BMI</td>
<td>26.6</td>
<td>±5.8</td>
</tr>
<tr>
<td>WC (MALES)</td>
<td>85.9</td>
<td>11.9</td>
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<tr>
<td>WC (FEMALES)</td>
<td>89.6</td>
<td>13.5</td>
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</tbody>
</table>
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