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Prevalence and Predictors of Hypertension in an Ethnic Population of South India

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ABSTRACT The present study investigated the incidence and predictors of hypertension in the Mala community from rural areas of Chittoor district of Andhra Pradesh, South India. A sample of 286 subjects comprising 139 male and 147 female aged 20-70 years was drawn randomly. Blood pressure was recorded with sphygmomanometer in the right arm in sitting position after a rest period of five minutes. Details on age, sex, family history, smoking and alcohol intake were enquired. Hypertension was diagnosed if the blood pressure was $\geq 140/90$ mmHg. Anthropometric variables like height, weight, waist and hip circumferences, skin fold thickness at six sites i.e. biceps, triceps, sub-scapular, suprailiac, abdomen and calf were measured. BMI > 25 and WHR > 0.9 (male), > 0.8 (female) were considered as obese and central obese, respectively. Prevalence of hypertension in the present population was found to be 4.89% (5.7% in males and 4.08% in females). Smoking and alcoholism was observed in respectively 58% and 62% of males only. Higher prevalence of obesity was observed in males (10%) than females (8%), and central obesity was also hogher (64%) in males than in females (28%). The family history of hypertension was observed more in females (6%) than males (5%) but the difference was not statistically significant. A higher prevalence of smoking (35% vs 30%), alcoholism (35% vs 29%), obesity (70% vs 8%), central obesity (100% vs 45%) and family history of hypertension (71% vs 2%, p<0.05) was observed in hypertensive against normotensive. In multiple regression analysis, diastolic blood pressure (Odds ratio 1.072 95%, CI 1.005-1.143; p<0.05) and family history of hypertension (Odds ratio 43.155 95%, CI 6.577-283.28; p<0.01) were observed as predictors of hypertension. The present data indicate that family history of hypertension and diastolic blood pressure are predictors of hypertension in the Mala population.