# The prevalence of cardiovascular risk factors in the young and middle-aged rural population in Sarawak, Malaysia. 


#### Abstract

Background: Coronary heart disease (CHD) was the second leading cause of death in Malaysia in 2006. CHD has known risk factors including hypertension, diabetes mellitus, and obesity. Methods: This cross-sectional study examined the prevalence of cardiovascular risk factors among 260 participants aged 20 to 65 years in a rural community in Sarawak. Results: The prevalences of overweight and obesity in this study were $39.6 \%$ and $11.9 \%$, respectively. Approximately $13 \%$ of participants had hypertension, and $1.5 \%$ had a random blood sugar greater than $11.1 \mathrm{mmol} / \mathrm{L}$. Chi-square tests showed significant associations between obesity and gender $(\mathrm{P}=0.007)$, low high-density lipoprotein cholesterol and race $(\mathrm{P}=0.05)$, high total cholesterol and age ( $\mathrm{P}=0.007$ ), age and hypertension ( $\mathrm{P}=0.011$ ), smoking and gender ( $\mathrm{P}<0.001$ ), and smoking and income ( $\mathrm{P}=0.050$ ). Age-adjusted logistic regression showed that women were 0.246 times more likely to be obese, that older participants (> 45 years) were 0.395 times more likely to have high cholesterol and that those with a higher monthly household income (> RM830) were 2.471 times more likely to smoke. Conclusion: These findings indicate that we should be concerned about the high rates of overweight in this rural community to prevent obesity.


Keyword: Adult; Cardiovascular diseases; Epidemiology; Obesity; Prevalence; Risk factors.

