## Article: EPA-0221

Topic: EPW33 - Addictive Behaviours 3
BETEL-QUID USE IS ASSOCIATED WITH THE METABOLIC SYNDROME AMONG ADULT ABORIGINES IN TAIWAN
M. Yang ${ }^{1}$, Y.J. Chen ${ }^{2}$
${ }^{1}$ school of nursing, Kaohsiung Medical University, Kaohsiung, Taiwan; ${ }^{2}$ Health Center of Chunrih Township, Public Health Bureau, Pingtung,
Taiwan

## Introduction

Betel-quid use, the forth addictive habit in the world after nicotine, alcohol, and caffeine use, and was widespread in southern Asia. Betel-quid use has been associated with obesity and hyperglycemia. It is a popular habit among aborigines in Taiwan. Little research describing the association of the betel-quid use contributes to the metabolic syndrome in aborigines in Taiwan.
Aims:
The aim of the study was to assess the prevalence of metabolic syndrome in adult aborigines and to test whether betel-quid use contributes to the metabolic syndrome.
Methods
A cross-sectional survey was conducted and 558 aborigines, aged? 40 years who had undergone the health examination in a aboriginal health care center were recruited into this study. The metabolic syndrome was defined according to the criteria of the National Cholesterol Education Program Adult Treatment Panel III (NCEP/ATP III). Information on substance use (betel-quid, cigarette, alcohol) and depression were obtained by performing personal interviews using a validated questionnaire.

## Results

The prevalence of metabolic syndrome in adult aborigines was $30.6 \%$, the prevalence rate was significantly higher in women than that of men ( $34.1 \%$ compared with $24.1 \%$, OR: $1.57,95 \% \mathrm{CI}$ : $1.06-2.36$ ). After covariate adjustment, betel-quid users were more likely to have metabolic syndrome (AOR: $1.51,95 \% \mathrm{Cl}: 1.04-2.21$ ). However, depression was not associated with metabolic syndrome.
Conclusions
These data suggest that betel-quid use is independently and positively associated with metabolic syndrome in adult aborigines.

