# Epidemiology of Metabolic Syndrome 

## Seoul Boramae Hospital/Seoul National University College of Medicine Sang-Hyun Kim

There are still a limited number of studies assessing the prevalence of metabolic syndrome in the community. The aim of this study is to investigate the prevalence and gender-related characteristics of metabolic syndrome in Korean community A total of 417 community subjects (mean age was $60.7 \pm 13.6$ years, $35.3 \%$ were men) who attended the routine check-up were analyzed. National Cholesterol Education Program-Adult Treatment Panel (NCEP-ATP) III clinical guideline was used to define metabolic syndrome. Metabolic syndrome was diagnosed in $38.1 \%$ of study subjects. The prevalence of metabolic syndrome was not different between men and women (men $39.0 \%$ vs women $37.5 \%, p=0.766$ ). The positive association between age and the prevalence of metabolic syndrome was more pronounced in women $(\chi 2=17.52, p$ for trend $<0.001$ ) than men $(\chi 2=2.38, p$ for trend $=0.123)$. In young age group (<50 years), the prevalence of metabolic syndrome was higher in men than in women ( $34.7 \%$ vs $11.7 \%, p=0.042$ ). This gender difference was not observed in older group ( $\geq 50$ years). The most prevalent factor of metabolic syndrome was hypertriglyceridemia (49.9\%) and hypertension (47.6\%) in both genders. Among metabolic syndrome components, central obesity ( $40.5 \%$ vs $25.2 \%, p=0.002$ ) and hypertriglyceridemia ( $54.5 \%$ vs $41.8 \%, p=0.015$ ) were more prevalent in women than in men, and the prevalence of other components were similar between genders.
In the community, metabolic syndrome was highly prevalent in middle-aged and elderly Korean adult. Age related change of metabolic syndrome prevalence was gender specific.

