Socioeconomic status and cardiovascular health in the changing world
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Socioeconomic status (SES) is a composite economic and sociological total measure that typically incorporates three indicators: economic status measured as an income, social status measured as an education and work status measured as an occupation. It is commonly believed that SES has a profound association with the health and especially that health outcomes improve as a socioeconomic position improves. Individuals lower in SES have higher rates of morbidity and mortality compared to individuals higher in SES, especially in cardiovascular health outcomes [1].

As early as in the late 1960s Shekelle et al. [2] revealed that the incidence of coronary heart disease (CHD) in middle-aged Caucasian men employed by an industry in metropolitan Chicago was associated with lower educational status. The importance of the type of employment shows a study conducted in the Australian population between 1979 and 1993 — men in manual occupations were at least 35% more likely to die from CHD than men in professional occupations, and 60% more likely to die from a stroke [3].

A simple model based on income, education and occupation becomes more complex when one considers conventional coronary disease risk factors. Data from The Oslo Study showed that mortality from CHD and sudden death actually depends on SES assessed using income and educational status but only when coronary risk factors gradients where taken into account [4]. It was confirmed in the Minnesota Heart Survey — improvement in CHD risk over the time may be not related to the education or income because population-wide factors such as higher health knowledge, availability of healthy diet, hypertension treatment, and especially restrictions on cigarette smoking operate beneficially in all SES groups [5].

Recently published data from the research conducted in the Australian population between 1979 and 2006 show remarkable change in the impact of SES gradients on mortality rate for CHD. Differences in mortality rates between lower and higher SES groups narrow for CHD and stroke, indicating that in high-income populations, where fall pattern of cardiovascular mortality exists, the low SES groups benefit more, in absolute terms, than high SES groups [6].

In recent years, particular attention has been paid to women, who are more likely to live in poverty, indicated that gender is a significant covariate acting as an important factor in SES influence on CHD outcomes [7].

Generally, research on relationships between SES and cardiovascular risk factors of patients with CHD was performed in Western Caucasian populations many years ago. SES was found to be strongly associated with the risk of CHD, its prevalence and treatment, as well as late outcomes in the United States and Western European countries. It is not the same in developing countries, where nowadays one can observe the epidemiological transition characterized by the shift from main role of acute infectious diseases to the growing role of chronic diseases, especially different forms of cardiovascular diseases, as a main cause of mortality and morbidity throughout these areas. We are lacking the detailed data because of the under-diagnosis and the low level of treatment of chronic diseases [8].

It is believed that in Central and East European countries similar epidemiological transition...
is in progress and the process is accelerating. The changes in SES of East and Central European population are not homogenous and substantial geographical disparities in health are evident at multiple scales, including these between countries, regions and cities [9]. Data presented by Tubek et al. [10] in this issue of “Cardiology Journal” try to bridge the gap in knowledge concerning Central European countries, especially Polish population and indicate that in Poland the pattern of the impact of SES on cardiovascular outcomes follows the trends in populations of Western countries [10].

Conflict of interest: None declared

References