

## Cross-Sectional Association between Socio-Demographic Factors and Paid Blood Donation in Half Million Chinese Population

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**Abstract :** Objectives: This study aims to enhance the understanding of paid blood donors' characteristics in Chinese population and devise strategies to protect these paid donors. Background: Paid blood donation was the predominant mode of blood donation in China from the 1970s to 1998 and caused several health and social problems including largely increased the risk of infectious diseases with nonstandard operation in unhygienic conditions. Methods: This study utilized the cross-sectional data from the China Kadoorie Biobank with about 0.5 million people from 10 regions of China from 2004 to 2008. Multivariable logistic regression was performed to examine the associations between socio-demographic factors and paid blood donation. Furthermore, a stratified analysis was applied in education level and annual household income by rural and urban areas. Results: The prevalence of paid blood donation was 0.50% in China and males were more likely to donate blood than females (Adjusted odds ratio (AOR) =0.81, 95%Confident Intervals (CI): 0.75-0.88). Urban people had much lower odds than rural people (AOR =0.24, 95%CI: 0.21-0.27). People with a high annual household income had lower odds of paid blood donation compared with that of people with low income (AOR=0.37, 95%CI: 0.31-0.44). Compared with people who didn't receive school education, people in a higher level of education had increased odds of paid blood donation (AOR=2.31, 95%CI: 1.94-2.74). Conclusion: Paid blood donors in China were associated with those who were males, living in rural areas, with low annual household income and educational background.

**Keywords :** China Kadoorie Biobank, Chinese population, paid blood donation, socio-demographic factors

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