E-Poster

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Gender-Specific Cardiovascular Disease Risk Among HIV-Infected Individuals: A Population-Based Cohort Study in Taiwan

Topic: Specific Target Groups (Children, Women, Elderly, Athletes, Musicians, Refugees, Ethnic Groups, Workers, and Others)

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BACKGROUND

Cardiovascular disease (CVD) has emerged as a significant concern in human immunodeficiency virus (HIV)-infected individuals, yet gender-specific differences in CVD risk remain understudied, particularly in Asian populations. This study aimed to evaluate the gender-specific association between HIV infection and cardiovascular disease risk in a large Taiwanese cohort.

METHODS

We conducted a population-based cohort study using national health insurance data from 2001-2016. The study included 26,480 HIV-infected individuals (25,129 men and 1,351 women) and matched controls (251,290 men and 13,510 women) without prior heart disease. Three adjusted models were employed to assess hazard ratios (HR) for various cardiovascular outcomes, accounting for demographic factors, socioeconomic status, comorbidities, and women-specific factors.

RESULTS

Among men, HIV infection was significantly associated with increased risk of total CVD (adjusted HR 1.25, 95% CI 1.12-1.40) and ischemic stroke (adjusted HR 1.71, 95% CI 1.43-2.05) after full adjustment. Interestingly, HIV-infected men showed lower risk for ischemic heart disease (adjusted HR 0.74, 95% CI 0.56-0.98). In women, while the unadjusted analysis suggested increased risk for total CVD (HR 1.55, 95% CI 1.00-2.39) and peripheral arterial disease (HR 1.88, 95% CI 1.02-3.46), these associations were attenuated after adjustment for confounders.

CONCLUSION

Our findings reveal HIV-infected men showed persistently elevated risk for specific cardiovascular outcomes, particularly ischemic stroke, the association was less pronounced in women after adjustment for confounders. These results highlight the importance of gender-specific approaches in cardiovascular risk assessment and management among HIV-infected individuals.

Statement of Disclosures

None

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