Long-term trends in the prevalence of pressure ulcer disease in elders aged 60-94 years from 1990 to 2019 in China: A join-point regression and trend analysis based on GBD 2019

Cuiling ZHANG¹, Sui-yun Weng¹, Song-kang Liu¹, Miao-ling Jiang¹, and Min Yu*¹
¹Affiliated Brain Hospital of Guangzhou Medical University

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Abstract

Introduction: Pressure ulcer disease (PUs) is a common geriatric complication that impacts national public policy and brings a huge social burden. Objective: To analyze the long-term trends in PUs prevalence among Chinese elders aged 60-94 from 1990 to 2019 to inform targeted public policies. Methods: The age-standardized prevalence rates (ASPRs) and crude rates per 100,000 population of PUs were reported in China from 1990 to 2019 from the Institute for Health Metrics and Evaluation using the Global Health Data Exchange (GHDx) online query tool. The ASPRs of elderly PUs were calculated and stratified by sex and age. Individuals aged 60-94 were divided into a group according to 5 years. The Joinpoint regression model was used to evaluate the trend of PUs elder prevalence across the time. The annual percentage rate change (APC), average annual percentage change (AAPC) and 95% confidence intervals (95% CIs) for the EAPCs were calculated to explore the characteristics of the PUs elders prevalence in China. Results: Results showed an upward trend in ASPRs for PUs in both sexes, with higher rates in males. Joinpoint regression analyses also confirmed a significant upward trend in ASPRs for both sexes among elders, with a more pronounced increase in males. The prevalence of PUs has decreased among 60-69 years old elders but increased after 70 years old. Conclusion: The disease burden of PUs has increased in China from 1990 to 2019, with higher rates in men. The prevalence of PUs in elders showed an overall upward trend but varies at different age stages. Different management and treatment strategies should be developed for the elderly at different age stages and gender. Collaborative efforts involving the government, society, and medical institutions are needed to address the prevention and management of pressure ulcers in China.

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