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Men Older than 50 Yrs Are More Likely to Fall than Women Under Similar Conditions of Health, Body Composition, and Balance

Pereira, Catarina L.N. PhD; Baptista, Fátima PhD; Infante, Paulo PhD

____ Abstract

Objective: The aim of this study was to analyze the contribution of sex to the occurrence of falls, accounting for comorbidities and differences in physical fitness.

Design: This was a cross-sectional study of 587 community-dwelling adults who were older than 50 yrs. Falls, comorbidities (number of diseases and physical impairments), and physical fitness (body composition, lower and upper body strength and flexibility, agility, aerobic endurance, and balance) were evaluated via questionnaires, bioimpedance, and Fullerton batteries, respectively.

Results: Compared with the men, the women presented a 10% higher fall prevalence, 1.7 more diseases/impairments, 10% more body fat, 26% less lean body mass, and poorer physical capacity (P < 0.05). Multivariate logistic regression revealed that male sex (odds ratio [OR], 2.723; 95% confidence interval [CI], 1.190–6.230) increased the likelihood of falling, after adjustment for comorbidities (OR, 1.213; 95% CI, 1.109–1.328), lean mass (OR, 0.958; 95% CI, 0.927–0.989), fat mass (OR, 1.053; 95% CI, 1.021–1.086), and balance (OR, 0.942; 95% CI, 0.914–0.971), which were the main risk factors of falls.

Conclusions: Women are more susceptible to falling, presumably because they have poorer health and physical fitness than do men. However, when the values for comorbidities, lean and fat body mass, and balance were similar, the men demonstrated a higher probability of falling. Age is not a significant risk factor of falls under favorable conditions of health, body composition, and balance.

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