

Background: Injuries are a major public health concern, particularly for vulnerable populations, affecting healthcare systems and victims' lives. Home injuries require special attention as homes that are often perceived as safe, may still necessitate environmental modifications and enhanced safety measures. This study aims to better understand the circumstances leading to hospital admissions caused by home injuries.

Methods: A cross-sectional study analyzed the data collected through the national injury surveillance system of European countries registered in the European Injury Database (IDB), from 2018-2022, using Minimum Data Set (MDS) and Full Data Set (FDS). Associations were assessed using Pearson's chi-squared tests and logistic regression with odds ratios (OR), considering a 5% significance level ($p < .05$).

Results: The proportion of home injuries was higher in the age groups, up to 14 years old (22.6%) and those > 65 years (30.1%), and these differences were statistically significant ($p < .001$). Home injuries in men accounted for 54.8%-61.8% of episodes across all age groups. Falls accounted for 56.2% of all injury mechanisms. The likelihood of hospital admission due to home injuries was higher in the older age group (75+) [OR = 5.6, 95% [5.5, 5.7], in men [OR = 1.12, 95% [1.12, 1.13], in cases involving poisoning [OR = 8.1, 95% [7.5, 8.8] as well as in spring and winter seasons.

Conclusions: These findings highlight the need for prevention measures tailored to real-life home environments, with a particular focus on older individuals and exposure to poisoning risks. Ongoing research in this area is essential for developing effective prevention strategies and enhancing response mechanisms across different levels of care.

Key messages:

- Home injuries disproportionately affect the children and the elderly.
- Men sustain home injuries more frequently, with falls being the leading cause.

Topic: Home injuries, vulnerable groups, injury epidemiology

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0A205. The epidemiology of home injuries admitted to hospitals in Europe: Data from the Injury Database

Tatiana Alves

T. Alves¹, A. Pitidis², M. Papadakaki³, M. Chaffard⁴, M. Paget⁴, J. Lund⁵, M. Giustini²

¹Epidemiology Department, National Institute of Health, Doutor Ricardo Jorge, Lisbon, Portugal

²Epidemiology Department, Istituto Superiore di Sanità, Rome, Italy

³Laboratory of Health and Road Safety (LaHeRS), Social Work Department, Hellenic Mediterranean University, Crete, Greece

⁴Unité Traumatismes Santé Publique France, France

⁵Norwegian Institute of Public Health Norway

Contact: tatiana.alves@insa.min-saude.pt