

# THE FEMORAL NECK FRACTURES AND PRECIPITATION IN THE BIGGEST OF 64 IN V. N. GAIA

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## INTRODUCTION

The aging rate of the Portuguese population in general and from Vila Nova de Gaia (VNG) in particular, associated with deep economic and social crisis experienced in the last decade, dramatically increased the vulnerability of the most vulnerable age groups to illness and direct death or indirectly caused by the threats that the change of events climate have come to express our territory.

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## OBJECTIVES

Creation and adaptation of methodological procedures in a geographic information system (GIS) to facilitate the interpretation of the plurality of variables potentially involved in the occurrence of falls with femoral neck fractures in adults over 64 years, namely the characteristics of biogeophysical (including precipitation), social and economic contexts.

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## METHODOLOGY

A project in GIS that welcomed all layers of social, economic and biogeophysical characterization of all parishes of VNG municipality was created. On the basis of daily admissions records of ACSS all hospital admissions between 2000 and 2013 with the diagnosis of femoral neck fracture of individuals over 64 years living in VNG with associated information were selected.

## RESULTS AND DISCUSSION

Regarding the femoral fractures (DRG 235), they correspond to a very low number of admissions, totaling 100 admissions during the study period. This low number of admissions may be conditioned by other diagnostics (as DRG 237 or DRG 239). A greater amount of rainfall (mm) in the winter months is associated with an increase in the number of hospitalizations among the elderly, although there are some exceptions: in warmer (summer) months (June, July and August), the number of admissions recorded is high despite the amount of rainfall is low or even nil.