

# Association between Geographic Accessibility of Home Care Clinics and Hospitalization in Japan using Geographic Information Systems and Insurance Claim Data

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## 概要

診療所が身近な場所にある市町村に住んでいる高齢者（75歳以上）は、そうでない市町村に住んでいる高齢者に比べて、入院（10日以上）しにくいことが明らかになりました。地理情報システム（GIS）を使って、診療所から車で10分以内の場所に住む「診療所が身近な人」がどのあたりにどれだけいるか、ということに着目しました。住んでいる場所の地理環境と入院の関係を定量的に示したのがこの研究の特徴です。この研究では、ある県の過去の後期高齢者医療・介護保険のレセプトデータを収集・分析しました。

## Abstract

It has been shown that elderly individuals (aged 75 or older) who lived in municipalities close to medical clinics were less likely to be hospitalized (for 10 days or more) than those who did not. Using a Geographical Information System (GIS), we determined which places were most 10 minutes by car from a medical clinic, and how many individuals live in each. A characteristic aspect of this research is the quantitative expression of the relationship between an individual's immediate geographical environment and their likelihood of hospitalization. This study gathered and analyzed medical for later-stage elderly people and long-term care insurance billing data from a particular prefecture.

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