



Risk of falling in the
elderly as a function
of temperature

2014-2019

Database Analysis

Introduction

The senior's falls are a growing problem:

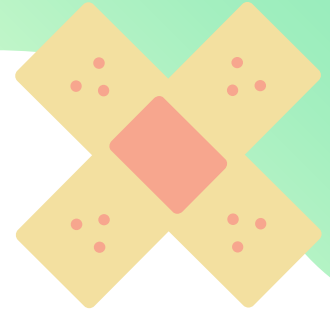
- The life expectancy of the population is increasing.
- The metabolic conditions that lead to falling are increasing.
- Support is insufficient for most seniors.
- Older people are more sensitive to changes.



Objective

Understand the impact of temperature change on the events of falls in the elderly.





Method

Mathematical association of fall events as a function of Google searches relating to temperature data between the years 2014 and 2019

75%

Pearson correlation between time points



Results

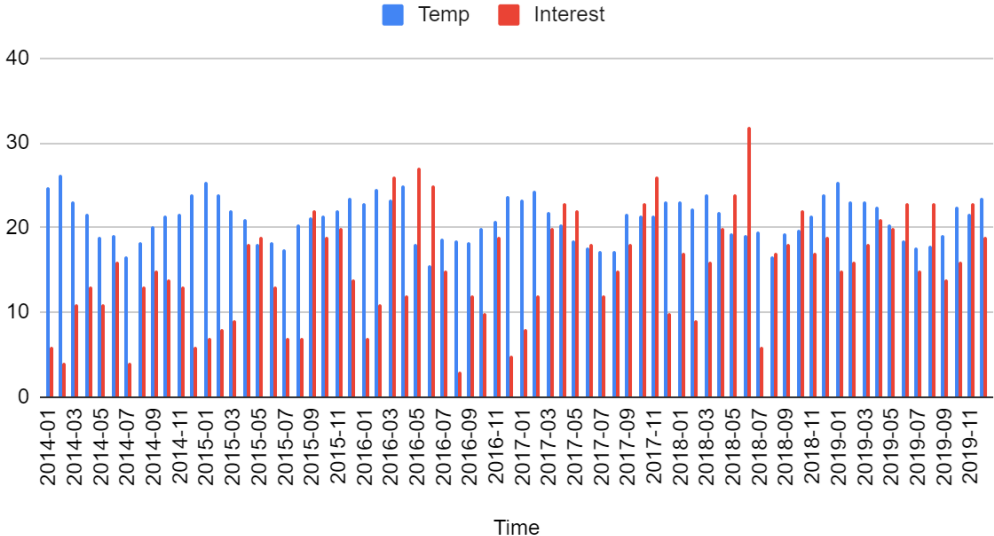
Area



SOURCE: GOOGLE TRENDS, 2022.

Behavior

Temp and Interest



SOURCE: GOOGLE TRENDS X INPE 2022.

Discussion



Underreporting can be partially addressed by alternative bases that actively present the reality.

Understanding the influence of temperature on falls is a way of anticipating fall events in the elderly.

Temperature can be understood as a phenomenon of nature which generates adaptation mechanisms in the form of diseases.



Conclusions

Climate change is related to health events. In this way, they can be early indicators for measures that save the lives of the most vulnerable people. The behavior of the population on the internet can be a relevant indicator for coping with underreported clinical conditions.

References

- <https://bdmep.inmet.gov.br/>. Access: 16/06/2022.
- <https://trends.google.com.br/trends/explore?date=all&geo=BR&q=queda%20de%20idoso>. Access: 16/06/2022.
- <https://www.seade.gov.br/dia-do-idoso-mortes-por-queda-sobem-421-em-16-anos-em-sao-paulo/>. Access: 16/06/2022.

- AMORIM, Juleimar Soares Coelho de et al. Prevalência de queda grave e fatores associados em idosos brasileiros: resultados da Pesquisa Nacional de Saúde, 2013. **Ciência & Saúde Coletiva**, v. 26, p. 185-196, 2021.



Thanks

Do you have any questions?

felipe@mindhander.com

+55 11 99487-1859

mindhander.com

