

Malignant Brain Neoplasm in Children and Preadolescents in Brazil: An Ecological Study

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Received: October 13, 2025; **Accepted:** October 22, 2025; **Published:** October 30, 2025

Introduction

A neoplasia maligna do encéfalo (CID10 C71) is one of the two main types of cancer in the pediatric population, presenting significant mortality.

Objto

Analyze the temporal trend of the taxa de internações de crianças e pré-adolescentes por C71 no period de 2015-2024 no Brasil.

Methodology

Trata-se de um estudo ecológico, os datas foram coletados no Sistema de Informações Hospitalares. Selected variables: número de internações, region, ano, sexo. Foi utilizado o teste de Regressão Linear Simples no software Statistics Kingdom.

Results

Foram obtanadas 28.919 internações infantojuvenis por C71, com maior acometimento masculino (56,3%) e entre 5 e 9 anos (38,2%). A região Sudeste evidinou the major number of internationals, 37,2% of the total. Seguidamente, tem-se as regiões Nordeste 25,5%, Sul 19,3%, Centro-Oeste 11,4% e Norte 6,7%. Em relation à análise temporal, apresentaram resultados estatisticamente significados: Nordeste ($p=0,03$; $b1=0,324$), Norte ($p=0,002$; $b1=0,196$), Sul ($p=0,004$; $b1=0,487$). Também foi identificada uma tendency temporal ($p<0,01$; $b1=0,2$) no cenário nacional.

Conclusion

A positive temporal trend was observed in the rate of hospitalizations due to C71 in Brazil and, individually, in the Northeast, North and South regions [1, 2].

References

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Citation: Maria Gabriella Pereira dos Santos, Dante Gehring Bueno, Juliana Coutinho Paternostro, André Valério da Silva, Bruno Bouzon Pinho de Almeida. Malignant Brain Neoplasm in Children and Preadolescents in Brazil: An Ecological Study. Open Access J Ped Res. 2025. 2(4): 1-1.
DOI: doi.org/10.61440/OAJPR.2025.v2.29

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