



## **Prevalence of leukemia in childhood and adolescence from 2017 to 2022 in the state of Paraíba**

### **Prevalência da leucemia na infância e adolescência no período de 2017 a 2022 no estado da Paraíba**

**Juliana D. de Oliveira**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Thainá Batista Mendes**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Dayana Luiza Silveira**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Josinaldo de Aguiar S. Junior**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Amanda Reinhold Macedo**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Thaise Hellen Estrela**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Amanda Sales Stehling**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Arllen Laureano Galvão**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Davi Abrantes L. Messias**

Graduating from the course of Medicine at the Faculty of Medical Sciences of Paraíba

**Layza de Souza Chaves Deininger**

Professor of Medicine at the Faculty of Medical Sciences of Paraíba

#### **ABSTRACT**

Leukemia is a form of blood cancer that mainly affects children and adolescents but can also affect young people and adults. This disease is a result of the accumulation of cells in the bone marrow which compromises the manufacture of red blood cells giving rise to anemia, also affecting the production of white blood cells causing infections. When reaching the platelets causes hemorrhages, this disease advances very quickly, needing to be treated quickly for successful treatment. Thus, the objective of this study was to investigate the prevalence of leukemia in children and adolescents in Paraíba, from 2017 to 2022. This is a documental, retrospective-descriptive study with a quantitative approach, in which the data collection took place in April 2023, using the records and data from DATASUS, which were selected data regarding the prevalence of Leukemia in children and adolescents between 0 and 19 years in Paraíba in the years 2017 to 2022. The results regarding the number of prevalence in the sense of residence, diagnosis and treatment in relation to the years 2017, 2018, 2019, 2020, 2021 and 2022 among the five types of leukemia, in the



age group from 0 to 19 years (infant-juvenile) evidenced the predominance for the types Lymphoid Leukemia (10.78%) and Myeloid Leukemia (4.44%), having affected more females (51.58%). In general, the state of Paraíba follows the behavior at the national level, since the most observed subtype of leukemia in the age group between 0 and 19 years at the national level is Acute Lymphoid Leukemia, reaching 51% of cases. Thus, these results elucidate the importance of strengthening public policies aimed at the early diagnosis and treatment of leukemia in childhood and youth, in order to increase the survival of these patients.

**Keywords:** DATASUS, Disease in the blood, Diagnosis, Infections.

## **RESUMO**

A leucemia é uma forma de câncer do sangue que afeta sobretudo crianças e adolescentes, mas também pode atingir jovens e adultos. Essa doença é resultado do acúmulo de células na medula óssea o que compromete a fabricação de glóbulos vermelhos dando origem a anemia, afetando também a produção de glóbulos brancos causando infecções. Ao atingir as plaquetas causa hemorragias, essa doença avança de forma muito rápida, precisando ser tratada rapidamente para que ocorra sucesso no tratamento. Dessa forma, o objetivo desse trabalho consistiu em investigar a prevalência da leucemia em crianças e adolescentes na Paraíba, no período de 2017 a 2022. Trata-se de um estudo e caráter documental, retrospectivo-descritivo, com abordagem quantitativa, em que o levantamento de dados ocorreu em abril de 2023, utilizando os registros e dados provenientes do DATASUS, os quais foram selecionados os dados referentes à prevalência da Leucemia em crianças e adolescentes entre 0 a 19 anos na Paraíba nos anos de 2017 a 2022. O resultados a respeito do número de prevalência no sentido de residência, diagnóstico e tratamento em relação aos anos de 2017, 2018, 2019, 2020, 2021 e 2022 entre os cinco tipos de leucemia, na faixa etária de 0 a 19 anos (infanto-juvenil) evidenciaram a predominância para os tipos Leucemia Linfóide (10,78%) e Leucemia Mielóide (4,44%), tendo acometido mais o sexo feminino (51,58%). De forma geral, o estado da Paraíba segue o comportamento a nível nacional, já que o subtipo de leucemia mais observado na faixa etária entre 0 e 19 anos em nível nacional é a Leucemia Linfóide Aguda, chegando a 51% dos casos. Assim, esses resultados elucidam a importância do fortalecimento de políticas públicas voltadas ao diagnóstico e tratamento precoce da leucemia na Infância e na juventude, a fim de aumentar a sobrevida desses pacientes.

**Palavras-chave:** DATASUS, Doença no sangue, Diagnóstico, Infecções.