

## Comparative epidemiological analysis of dengue cases in the state of Paraná in the years 2023 and 2024

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### ABSTRACT

**Introduction:** Dengue is an acute and infectious febrile disease that can manifest in a benign or severe form. It is caused by an arbovirus and is transmitted by *Aedes aegypti*. There are four serotypes: DENV1, DENV2, DENV3, and DENV4. The main symptoms are high fever, myalgia, retro-orbital pain, headache and rash. Dengue is a public health challenge, constituting an epidemic, including in Paraná. **Objective:** To analyze the epidemiological profile of documented probable cases of dengue in the state of Paraná, during January to December 2023 and January to April 2024. **Methodology:** This is a descriptive, cross-sectional and quantitative epidemiological study, based on secondary data obtained from the information technology department of the Unified Health System of the Ministry of Health (DATASUS/MS). **Results and Discussion:** In the epidemiological year 2023, 211,022 probable cases of dengue were reported in Paraná. In 2024 (until April this year), there were 421,455 cases, an increase of 99.72%. It is inferred that the number of cases has practically doubled, with only 1/3 of the epidemiological year 2024 taking place. In 2023, 6,285 cases required hospitalization and in 2024, 14,192. Although proportionally it did not increase significantly (2023: 2.97%; 2024: 3.36%), a greater number of beds was needed, as there was an increase of almost 126%. In both 2023 and 2024, the northern macro-region was the one that housed most of the cases. However, the macro-region with the highest proportional increase was the northwest (2023: 15.05%; 2024: 21.19%). In 2023, 75.35% of cases progressed to cure and 0.06% to death. In 2024, 65.72% were cured and 0.05% died. Therefore, continuous monitoring of treatments and the quality of patient care is important. **Conclusion:** The need for constant monitoring of cases and prevention measures is underlined, since those affected by arbovirus disease are constantly increasing compared to the previous year.

**Keywords:** Dengue, Epidemic, Paraná, Epidemiological profile.

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