

# Chinese Notifiable Infectious Diseases Surveillance Report

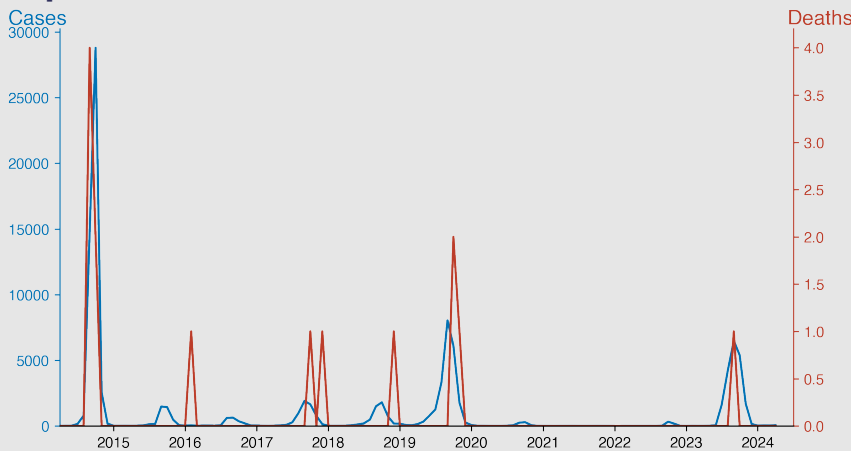
## Dengue

April 2024

### Introduction

Dengue is a mosquito-borne viral infection prevalent in tropical and subtropical climates worldwide. The disease is caused by four closely related viruses, the Dengue viruses 1-4. There are two forms of disease, Dengue fever and Dengue hemorrhagic fever. Typical symptoms include high fever, severe headache, and joint pain. It can advance to the severe form, leading to bleeding, blood plasma leakage, or organ impairment. The *Aedes aegypti* mosquito, commonly found in urban environments, primarily transmits it. There is no specific treatment for dengue, but early detection can reduce complications.

### Temporal Trend



### Highlights

- There has been a general downward trend in Dengue cases from 2014 to 2022, with concerning spikes in late summer and autumn, resulting in a peak every year, notably massive peak in 2014.
- The year 2023 saw an uptick in cases, with significant monthly increases from July to October, indicating a worrying resurgence of Dengue.
- The death rate from Dengue has remained extremely low over the years, yet a handful of fatalities each year reminds us of its potential severity.
- The situation as of April 2024 shows a slight increase in cases compared to the same period in 2023, warranting continuous vigilance and proactive measures.

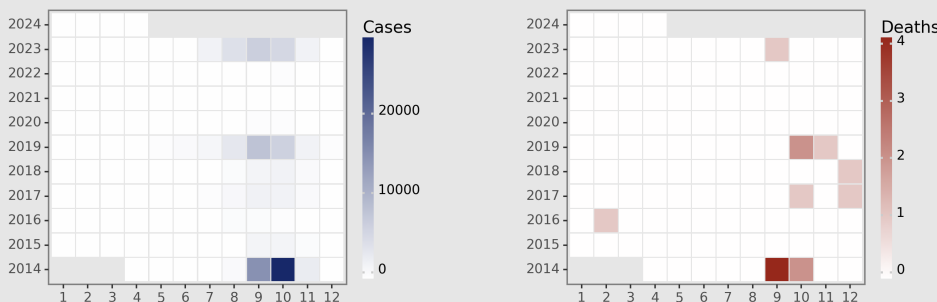
### Cases Analysis

The data for Dengue in Chinese mainland from 2014 until part of 2024 demonstrates a distinct seasonality in Dengue cases. On average, the cases start to rise in June, peak between August and October, and then decrease rapidly. The peak period coincides with the rainy season in southern parts of China when the *Aedes* mosquito, which transmits Dengue, is in abundance. By the end of 2024, it is observed that the number of cases reported had not shown a consistent reducing trend, suggesting the control efforts may not have been entirely effective, or that the virulence of the disease may be changing.

### Deaths Analysis

The recorded deaths due to Dengue in this time period are relatively low, with the highest number of fatalities in a month being 4 in September 2014. Despite the decrease in overall Dengue cases from 2015, there's no consistent pattern in the number of deaths each year. Several months report no fatalities at all, and on occasions when deaths do occur they are usually singular or very few. This suggests the mortality rate of Dengue in Chinese mainland is relatively low but consistent throughout the years.

### Distribution



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