

UPDATE AND OBSERVATIONS ON A LARGE CHIKUNGUNYA OUTBREAK IN PARAGUAY

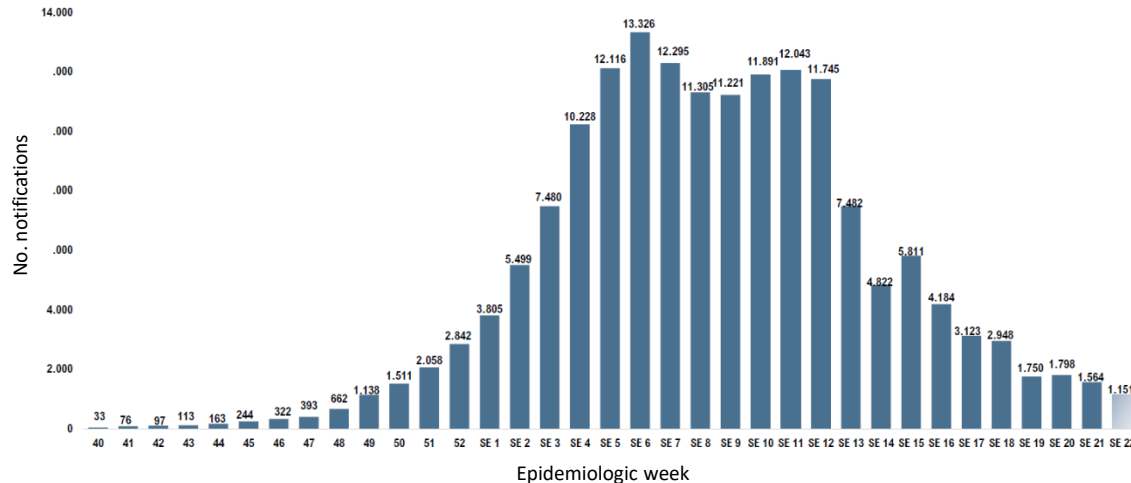
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ACIP meeting, June 22, 2023

Chikungunya notifications*

October 1, 2022 – June 3, 2023

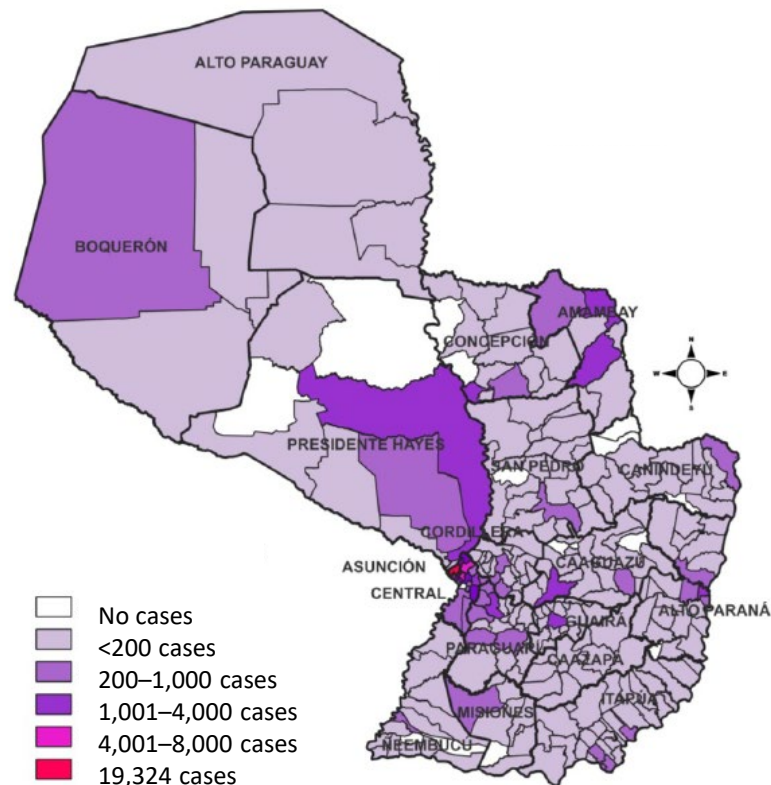
167,239 cases



*Confirmed and probable cases and suspected arboviral infection

Source: Ministry of Public Health and Social Welfare, Paraguay

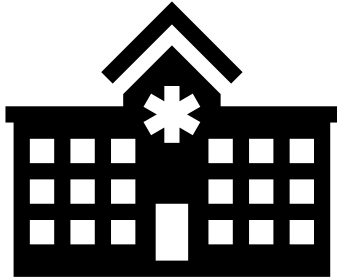
Chikungunya notifications* by district January 1 – June 3, 2023



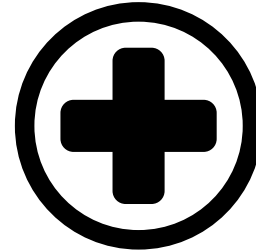
*Confirmed and probable cases and suspected arboviral infection

Source: Ministry of Public Health and Social Welfare, Paraguay

Morbidity and mortality among persons with probable or confirmed chikungunya (N=90,709)



~8,600 (9%) hospitalizations*



263 (<1%) deaths*

*As of June 3, 2023

Chikungunya virus transmission in 2023 in new areas of South America

- Uruguay
 - First autochthonous transmission reported April 2023
- Argentina and southern Brazil
 - Transmission in new locations
- U.S traveler cases reported with travel to this region



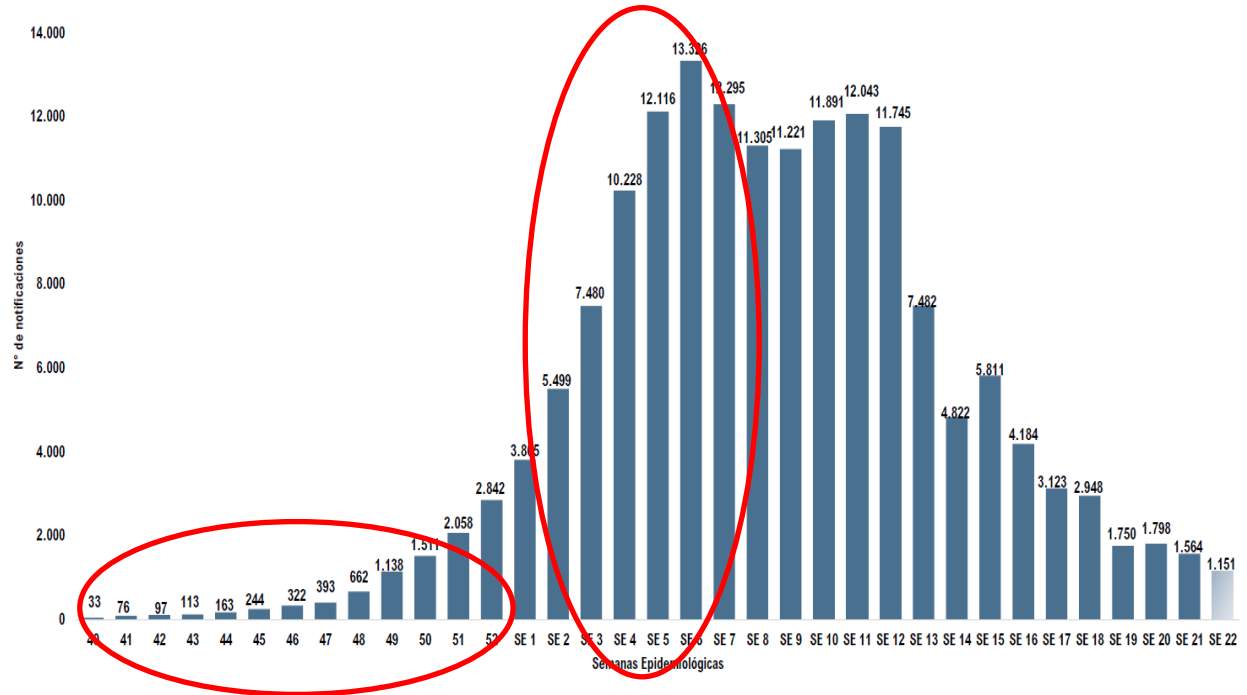
Observations on the outbreak of relevance to vaccine recommendations:

Explosive nature of outbreaks

<10,000
notifications* by
end of 2022



>50,000
notifications* by
week 6, 2023

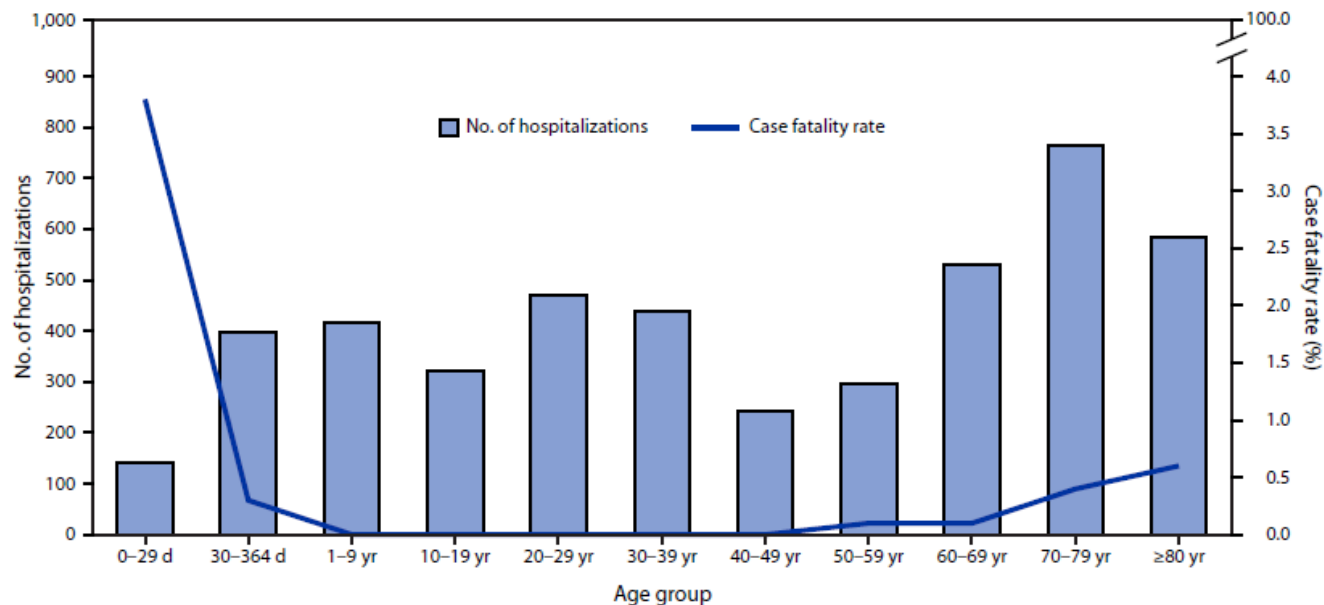


*Confirmed and probable cases and suspected arboviral infection

Source: Ministry of Public Health and Social Welfare, Paraguay

Observations on the outbreak of relevance to vaccine recommendations: Impact on young infants and older persons

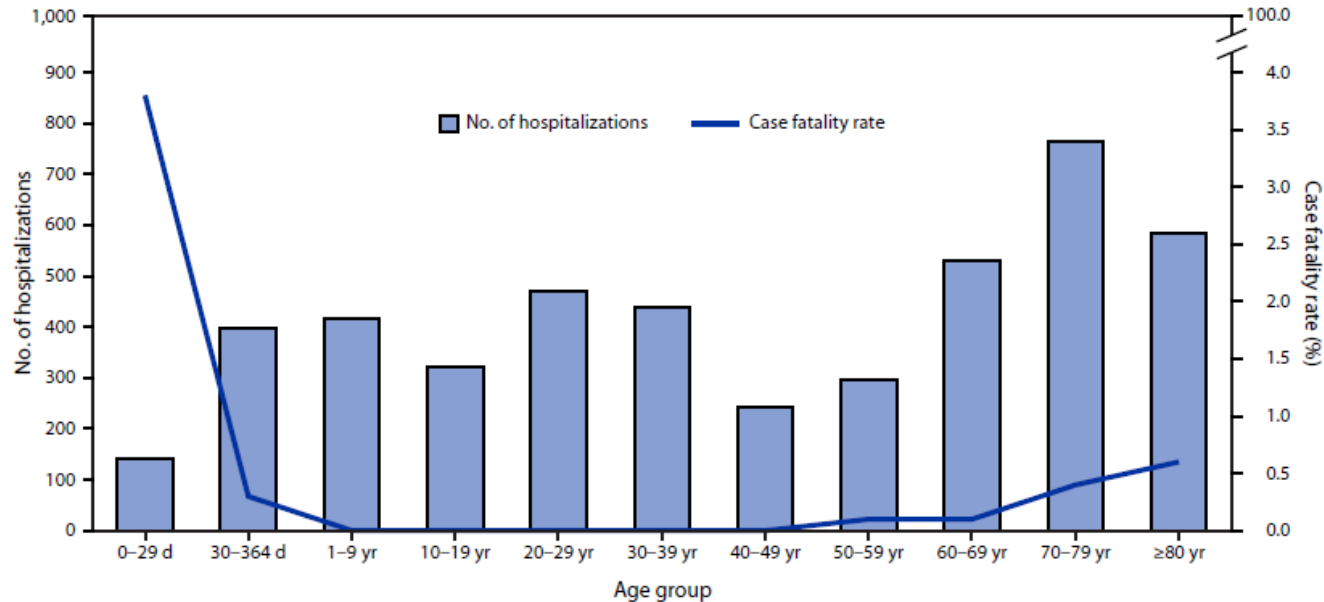
Number of hospitalizations (N=4,604) and case fatality rate among probable and confirmed chikungunya cases by age group, October 1, 2022–March 11, 2023



* Deaths per 100 cases.

Observations on the outbreak of relevance to vaccine recommendations: Impact on young infants and older persons

Number of hospitalizations (N=4,604) and case fatality rate among probable and confirmed chikungunya cases by age group, October 1, 2022–March 11, 2023



About three quarters of all patients who died had comorbidities

* Deaths per 100 cases.

Observations on the outbreak of relevance to vaccine recommendations: Impact on neonates



Observations on the outbreak of relevance to vaccine recommendations: Impact on health services

Patient load



Healthcare
staff
absenteeism

Summary of observations from outbreak in Paraguay

- Outbreak has been explosive and extensive
- Groups at risk for severe disease include infants, older adults, and persons with comorbidities
- Case fatality rate highest among neonates
- Impact on health services from patient load and sick staff

Acknowledgements

- Staff of the Ministry of Public Health and Social Welfare, Paraguay
- Amy Beeson, CDC

