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
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.

About three quarters of all patients who died had comorbidities
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
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