

## A Case of Dengue Fever

### Emory University Resources:

- Session Resources
  - Post session resources (podcast of webinar, presentation slides, responses to unanswered questions) can be found on our website
    - <https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/covid-19-resources/access-past-echo-recordings.html>
- Region 4 Situation Report
  - <https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/covid-19-resources/region-4-situation-reports1.html>
- Register for upcoming sessions on our website
  - <https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/covid-19-resources/echo-upcoming-session.html>
- HHS Region IV Emory University SCDP Resources
  - <https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/covid-19-resources/index.html>
- Region IV Concept of Operations (CONOPS) - Regional Partners and Contacts
  - <https://netec.org/about-netec/partners-regional-contacts/#regional-contacts>
- Emory Serious Communicable Diseases Unit – Additional Resources
  - <https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/ebola-resources/index.html>
- NETEC
  - <https://netec.org/>
- NETEC – National Special Pathogens System of Care (NSPS)
  - <https://netec.org/nsps/>

### General External Resources:

Disclaimer - Our program provides additional resources that may be of use to our session attendees. This list is not inclusive, nor does our program endorse specific organizations.

- Healthmap.org (Location based alerts)
- Outbreaknewstoday.com
- Center for Infectious Disease Research and Policy (CIDRAP), University of Minnesota (UNM)
- The University of Nebraska Medical Center (UNMC) - Global Center for Health Security: The Transmission

- Global Biodefense.com
- CDC – Division of High-Consequence Pathogens and Pathology
- Georgia Department of Public Health – Travel Clinical Assistant (TCA)
  - <https://dph.georgia.gov/TravelClinicalAssistant>
- ProMED – International Society for Infectious Diseases

Please continue to check your local and state public health websites for additional resources and guidance.

### Session Resources:

- CDC - Morbidity and Mortality Weekly Report (MMWR) - *Notes from the Field*: First Evidence of Locally Acquired Dengue Virus Infection — Maricopa County, Arizona, November 2022
  - <https://www.cdc.gov/mmwr/volumes/72/wr/mm7211a5.htm>
- State-of-the-Art Review Article discussing Dengue vaccines and other inventions
  - *Pediatrics* (2022) - Dengue: A Growing Problem with New Interventions
    - <https://publications.aap.org/pediatrics/article/149/6/e2021055522/187012/Dengue-A-Growing-Problem-With-New-Interventions>
- Resources for health professionals and parents in Dengue endemic areas (Puerto Rico) of the United States where Dengvaxia is available.
  - Immunize.org
    - <https://www.immunize.org/vaccines/a-z/dengue/>
      - Excellent resource with links to the Vaccine Information Statement, ACIP Recommendations, Immunization Schedule, and FDA Package Insert
  - Current Issues in Immunization Webinar Series - Dengvaxia: What Healthcare Professionals Need to Know
    - <https://www2.cdc.gov/vaccines/ed/ciinc/archives/dengue/dengue1.asp>
      - One hour lecture on the use of Dengvaxia.
  - CDC Website – Dengue Vaccine
    - <https://www.cdc.gov/dengue/vaccine/index.html>
      - Information designed for both healthcare providers and for the public on Dengvaxia
  - *Healthy Children* (2022) - Dengue Vaccine & Kids: FAQs for Families Who Live Where Dengue Disease Commonly Spreads
    - <https://www.healthychildren.org/English/safety-prevention/immunizations/Pages/dengue-vaccine-and-kids-faqs-for-families-who-live-where-dengue-disease-commonly-spreads.aspx>
      - Information in the magazine published by *Pediatrics* with information for parents

- Ginige S, Flower R, Viennet E. Neonatal Outcomes from Arboviruses in the Perinatal Period: A State-of-the-Art Review. *Pediatrics*. 2021;147(4):e2020009720. doi:10.1542/peds.2020-009720
  - Available from <https://publications.aap.org/pediatrics/article/147/4/e2020009720/180847/Neonatal-Outcomes-From-Arboviruses-in-the>
- Pan American Health Organization. Guidelines for the Clinical Diagnosis and Treatment of Dengue, Chikungunya, and Zika. Washington, D.C, 2022. License: CC BY-NC-SA 3.0 IGO. <https://doi.org/10.37774/9789275124871>
- Pan American Health Organization. Dengue: guidelines for patient care in the Region of the Americas. 2nd edition.
  - Available from: <https://iris.paho.org/handle/10665.2/31207>
- Pan American Health Organization. Algorithms for the Clinical Management of Dengue Patients.
  - Available from: <https://www.paho.org/en/documents/algorithms-clinical-management-dengue-patients>
- Sangkaew S, Ming D, Boonyasiri A, et al. Risk predictors of progression to severe disease during the febrile phase of dengue: a systematic review and meta-analysis. *Lancet Infect Dis*. 2021;21(7):1014-1026. doi:10.1016/S1473-3099(20)30601-0
  - Available from: [https://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(20\)30601-0/fulltext](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30601-0/fulltext)
- Wilder-Smith A, Ooi EE, Horstick O, Wills B. Dengue. *Lancet*. 2019;393(10169):350–63.
  - Available from: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(18\)32560-1/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(18)32560-1/fulltext)
- World Health Organization. Dengue guidelines for diagnosis, treatment, prevention, and control: new edition. Geneva: The Organization; 2009.
  - Available from: <https://apps.who.int/iris/handle/10665/44188>
- Wong JM, Adams LE, Durbin AP, et al. Dengue: A Growing Problem with New Interventions. *Pediatrics*. 2022;149(6):e2021055522. doi:10.1542/peds.2021-05552
  - Available from: [Dengue: A Growing Problem With New Interventions | Pediatrics | American Academy of Pediatrics \(aap.org\)](https://www.aap.org/pediatrics/article/149/6/e2021055522)

Situation Report:

**Region 4**  
**Special Pathogens of**  
**Concern Situation Report**



*30 November 2023*

**EMORY UNIVERSITY**  **Serious Communicable Diseases Program**

 **Southern Regional Disaster Response System**  
HHS Region 4

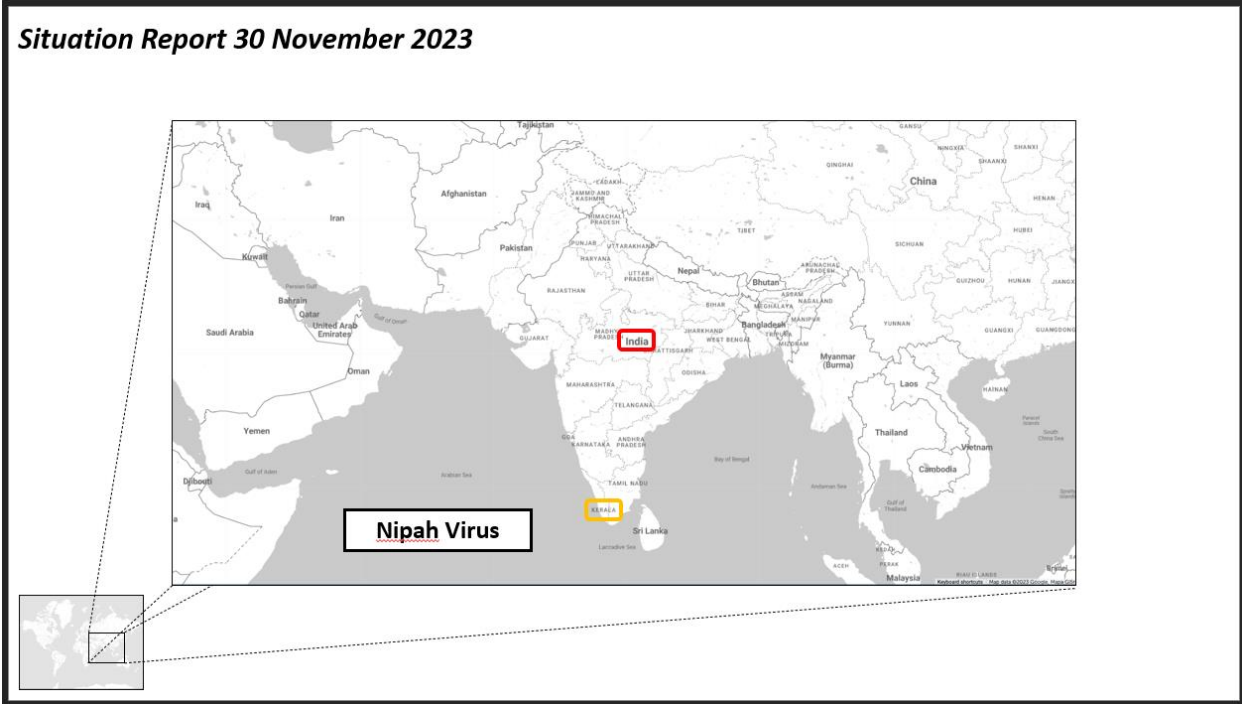
The Emory University Serious Communicable Diseases Program in conjunction with the SRDRS puts together situation reports on special pathogens of concern for our region, HHS Region 4. These SitReps are typically published on our website, social media channels, Emory Department of Medicine YouTube Channel, and listservs. Here is the current HHS Region 4 special pathogens Sit rep.

**Situation Report 30 November 2023**



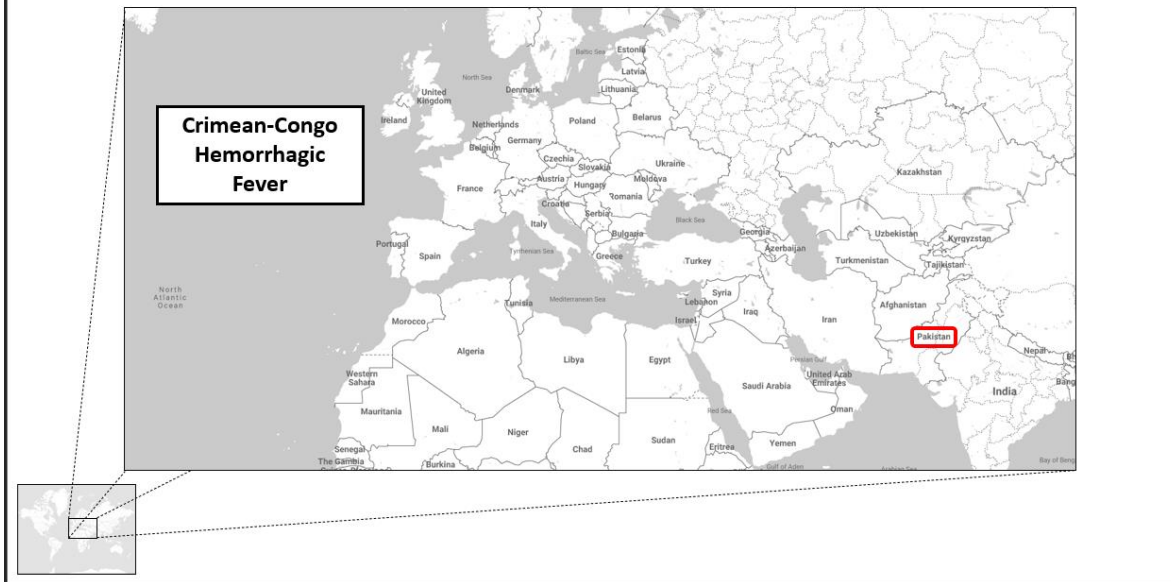
First, the Lassa Fever outbreak in Nigeria continues to abate. Our last sitrep one month prior, containing data from Sep 17<sup>th</sup> from the Nigeria CDC noted 1068 confirmed cases with 188 deaths. Since then, there have been 27 new confirmed cases with 7 new deaths. This equates to a case fatality rate of 17.2%.

Unfortunately, one new healthcare worker was also infected. We expect the outbreak, given the seasonal variation, to continue a downward trend.



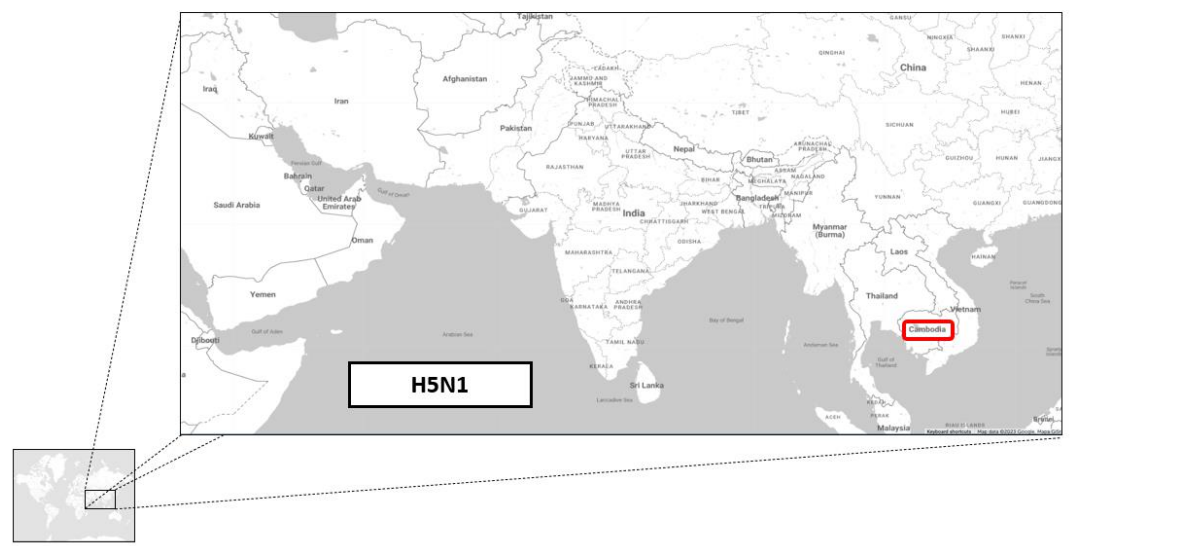
Next, to India, where the Nipah Virus outbreak has subsided. Ultimately, there were 6 confirmed cases and 2 deaths. It was the fourth outbreak of the virus in the past 5 years and infection likely spread not only through consumption of contaminated raw date palm sap but also was transmitted from human to human among close contacts.

**Situation Report 30 November 2023**



Next, to Pakistan, whereas of Nov 11 there have been over 60 patients with 15 deaths attributed to Crimean Congo Hemorrhagic Fever in the north-east city of Quetta since mid-October. Of additional concern, over 20 healthcare workers have been infected with one physician death, raising alerts about nosocomial transmission. The remoteness of the city and variable weather conditions have hampered efforts for the transfer of critically ill patients to southern Karachi.

**Situation Report 30 November 2023**



Now to southeast Asia, where on November 23<sup>rd</sup> and 25<sup>th</sup> the Cambodian health ministry announced the confirmed of two new severe human H5N1 avian influenza infections, increasing the country's total to 6 since the beginning of this year.

On Oct 5 two fatal human cases of H5N1 had been confirmed in Cambodia, both of an older clade of the virus that has been circulating in the country for the past decade. Both new cases are in young women, one of whom who was in close proximity to dead chickens at home. The second case, a young girl, lives next door to the first patient and became sick after holding a dead chicken. Both patients are critically ill and in intensive care units. Analysis is currently underway to determine the genetic relation of the current infections. It is worth noting that while 3 of the previous 4 cases this year were fatal, this does not indicate a broader outbreak of human-human transmission and the current risk to the US public is low.



<https://scdu.emory.edu>

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<https://www.youtube.com/@EmoryDOM>

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Lastly, there have been no reports of other suspected or confirmed patients with special pathogens of concern in region IV at this time. For more resources, visit us on the web at [scdu.emory.edu](https://scdu.emory.edu)