Anopheles species surveillance in GA

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Anopheles quadrimaculatus



Malaria in the United States

Anopheles quadrimaculatus is historically the most important vector of malaria in the eastern United States.

Malaria was a serious plague in the United States for centuries until its final eradication in the 1950s.



Locally acquired Malaria in the US 2023

- Florida – 7 cases of *Plasmodium vivax* within close proximity in (Sarasota County) (until mid-July 2023)
- Texas – 1 case of *Plasmodium vivax* in June 2023
- Maryland – 1 case of *Plasmodium falciparum* in August 2023
- Arkansas- 1 case of Plasmodium vivax (September/October 2023)

- Most malaria cases diagnosed in the United States are imported, usually by persons who travel to countries where malaria is endemic (regularly occurring).
- However, locally acquired mosquito-transmitted malaria cases can occur, as Anopheles mosquito vectors exist throughout the United States.
- The most recent cases were in 2003, when eight cases of locally acquired P. vivax malaria were identified in Palm Beach County, FL.

2025 Funding Issues for many agencies

- Prior to the dissolution of USAID in 2025, PMI had operated as an interagency initiative led by USAID and implemented in partnership with CDC, focused in 30 countries that account for most of the world's malaria cases and deaths. It had been overseen by a U.S. Global Malaria Coordinator, a position created by Congress in 2008 to be appointed by the President and based at USAID.

(The President's Malaria Initiative (PMI) is a U.S. government interagency initiative launched in 2005 to control and eliminate malaria in high-burden countries)

- Funding for most of these programs was either greatly reduced or entirely pulled.
- Some federal entomologists (including CDC) had to come back to the United States and discontinue their work abroad.



https://www.whitehouse.gov/presidential-actions/2026/09/eliminating-disease-carrying-pests-and-restoring-enjoyment-of-the-great-outdoors/

DPH's work with Anopheline mosquitoes

- We share our mosquito data with all of our collaborators old and new.
- Some students and fellows are using these data for analysis and publications.
- We have increased our mosquito surveillance in sites that are preferred by *Anopheles* species to collaborate with the CDC (and will continue to do so next year).
- We have asked our county and district staff at DPH and mosquito control to collaborate on this project.
    - Chatham county
    - Richmond county
    - (3 more possible districts interested to participate in 2027)

- Come to Subhika Rao and Sabaa Logman's presentations tomorrow to learn more.
- If you are interested in joining this collaboration, please reach out.

Any questions or comments?

http://www.GAmosquito.org/

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