

Global Health Hot Topics: Zika virus



Aedes albopictus (Asian tiger mosquito)
Centers for Disease Control and Protection (CDC)/Public Domain

Zika virus, a vector-borne disease (VBD), has emerged in South America as a major risk to fetal development, and the mosquito vectors, *Ae. aegyptii* and *Ae. albopictus*, are widespread.

CABI's **Global Health** Database has been gathering information on VBDs since 1912, and the February 2016 issue of our free e-newsletter **Global Health Knowledge Base** focuses on *Aedes* mosquitoes. CABI's **Global Health Archive** abstracts the discovery and pathogenic analysis of Zika virus, isolated from a forest monkey in Africa in 1947.

Global Health Database enables the work of researchers, practitioners and trainers at leading public health schools including the universities of Oxford (UK) and Sydney (Australia), and Association of Medical Schools – ASCOFAME (Columbia).

hot topics that matter

Global Health covers veterinary, environmental *and* public health sources to provide the complete picture on VBDs, vector to man, including information on:

- Vector spread by urbanization, trade & travel:** Zika outbreak in Brazil sustained by urban gutters, rainwater storage, flowerpots, discarded garbage and anything holding standing water.

Urbanization increases *Aedes albopictus* larval habitats and accelerates mosquito development and survivorship. PLoS Neglected Tropical Diseases 2014

First interception of *Aedes* (*Stegomyia*) *albopictus* in Lucky bamboo shipments in Belgium. Journal of the European Mosquito Control Association, 2014.

Concurrent outbreaks of dengue, chikungunya and Zika virus infections – an unprecedented epidemic wave of mosquito-borne viruses in the Pacific 2012-2014. Eurosurveillance, 2014
- Zika virus outbreaks:** with the virus or vector already on their territory, both USA and Africa are worried.

Complete coding sequence of Zika virus from a French Polynesia outbreak in 2013. Genome Announcements, 2014

Potential of selected *Senegalese Aedes* spp. mosquitoes (Diptera: Culicidae) to transmit Zika virus. BMC Infectious Diseases, 2015

Aedes aegypti and *Aedes albopictus* habitat preferences in South Texas, USA. Environmental Health Insights, 2014.
- Control of vector to prevent disease:** by insecticides, biological control, GM mosquitoes and public education. There is no vaccination.

Efficacy trials on mosquitoes with new monomolecular film. Proceedings of the 8th International Conference on Urban Pests, 2014

Odonate nymphs: generalist predators and their potential in the management of dengue mosquito, *Aedes aegypti* (Diptera: Culicidae). Canadian Journal of Public Health, 2015.

CABI Global Health Knowledge Base



CABI's Global Health Knowledge Base automatically gives you 1 week free access each month to our *Global Health Database*.

introducing the Global Health Knowledge Base...

Blogs from our highly regarded "Hand Picked...and Carefully Sorted" wherein our Content Experts highlight and discuss interesting developments in agriculture, health and the environment eg. "Five more bird species that can spread Lyme disease identified in USA". The latest additions to our world renowned Global Health database are highlighted in **Latest Research**.

The **Breaking News** section is the place to go to see an overview of what carefully selected news sources have to say about International Health issues.

The screenshot shows the homepage of the CABI Global Health Knowledge Base. It features a navigation bar with links for Home, Blog, Latest Research, Breaking News, About Global Health, Subscribe to Newsletter, and HTNI Dashboard. A 'Welcome!' section follows, explaining the site's purpose and highlighting the 'Latest Research' and 'Breaking News' sections. A 'Find out more about the Global Health database on the About page' link is provided. Below this, there is a 'Subscribe' form and a 'You can also follow the HTNI link to get to our highly popular HTNI influenza dashboard' link. A featured article titled 'Introduction to Pandemic Influenza Modular Text Series' is displayed, along with a photo of a family walking in a field.

The screenshot shows the CABI Global Health Blog. The main article is titled "A personal choice: smoking tobacco or your kid's health?". The text discusses a personal anecdote about a child with asthma and the impact of second-hand smoke. It also mentions World No Tobacco Day and World Asthma Day. The article is dated 19 Aug 2010 and includes a 'Continue reading' link.

The screenshot shows the 'Latest Research' section of the CABI Global Health Knowledge Base. It features a search bar and a 'This month's theme: Tobacco Smoke and Children' section. Below this, there are two columns of research abstracts. The first column is titled 'Global Health - Unique Abstracts - May 2010' and lists three abstracts related to tobacco use in children. The second column is titled 'Global Health - Core Journal Abstracts - May 2010' and lists several abstracts related to tobacco use and health outcomes.

The screenshot shows the 'cabdirect' website. It displays a search result for a document titled "Prevalence and correlates of cigarette smoking among adolescents in Malawi: results from the Global Youth Tobacco Survey 2005". The document details include the title, authors (Mwambi, M.A.A., S. Sinyo, S. Rubekhe, E. Mwanza, S. Sinyo, S. Rubekhe, E. Mwanza), affiliation (Department of Community Health, University of Malawi, College of Medicine, Blantyre, Malawi), journal (Tanzania Journal of Health Research), volume (10), issue (3), and pages (166-176). The abstract text is also visible, discussing the prevalence of smoking among adolescents in Malawi.

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