# Zika Virus Resource Center

## Free access to medical research, online tools and expert advice on the Zika virus

### By the Elsevier Community Posted on 9 February 2016

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**Updated on 20 February 2016**

## Welcome to Elsevier's Zika Virus Resource Center

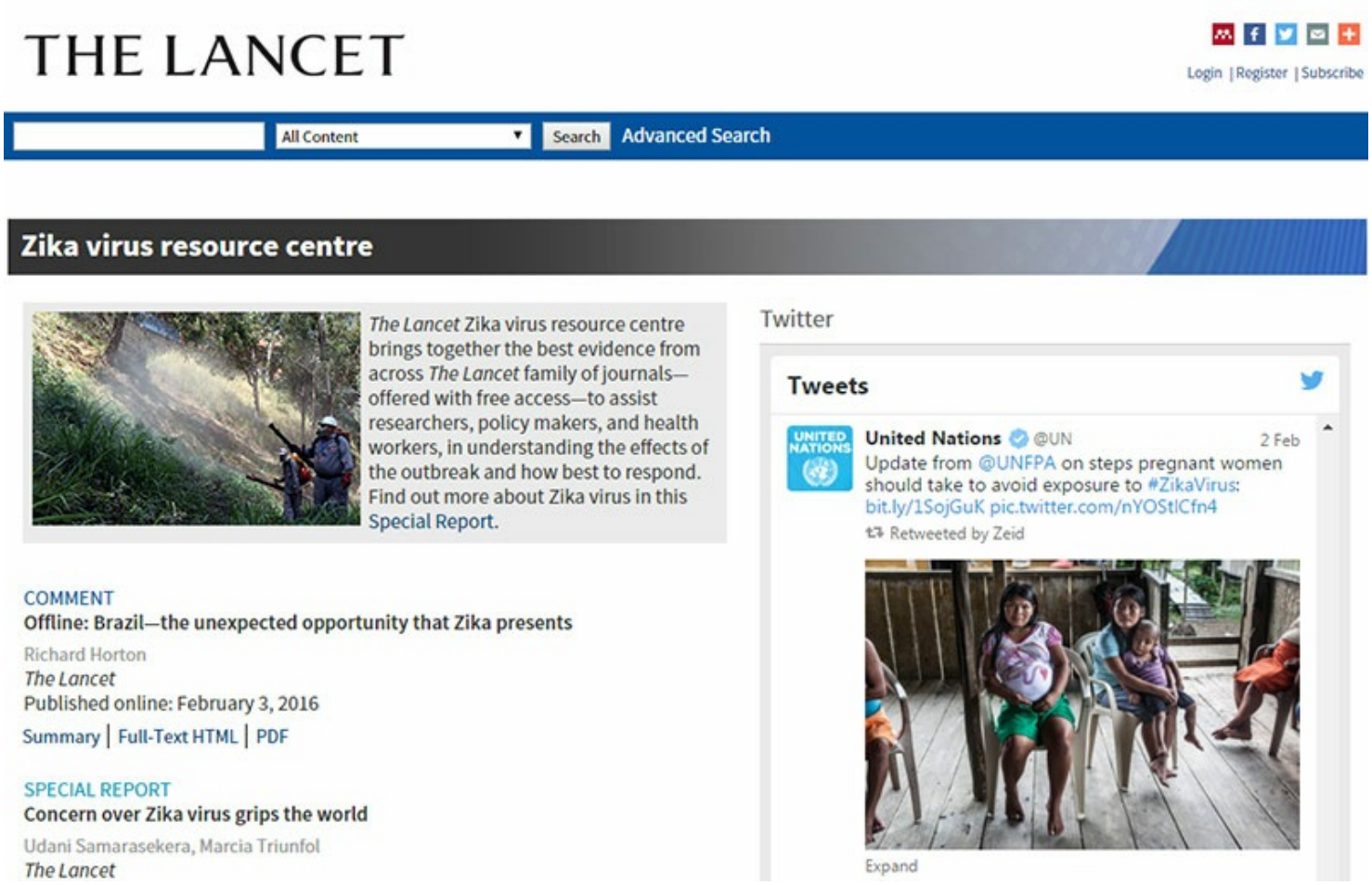
The Zika virus is transmitted by the Aedes species mosquito (A. aegypti and A. albopictus), which also spreads dengue and chikungunya viruses. (Source: Centers for Disease Control) This page will provide continually updated resources from Elsevier's content and experts, including *The Lancet* and world-renowned infectious disease expert Dr. Raphael Dolin. We developed it to give anyone interested in Zika virus – medical professionals, health researchers, policy makers, the media and members of the public – one place where they can access the depth and breadth of information.

Elsevier's resources span scientific and medical journals and textbooks, educational products and a variety of other content. We have also asked our clinicians to provide original commentary. Our goal is to provide these resources for free as the Zika crisis continues. If you have any question or suggestions, we welcome you to leave them in the comment section.

## Online Resources

### The Lancet Zika virus resource centre

*The Lancet* Zika virus resource centre brings together the best evidence and reporting from across The Lancet family of journals to assist researchers, policy makers and healthcare workers in understanding the effects of the outbreak and how best to respond. The centre will also feature selected content from across Elsevier journals, providing a comprehensive resource of the latest research, analysis and commentary as developments unfold. All content in the resource centre has been made freely available.




## Insight from experts

### What you should know about Zika virus

**By Raphael Dolin, MD |** 8 February 2016

Raphael Dolin, MD, is a leading infectious disease expert, a professor at Harvard Medical school, and an editor of *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 8th Edition* (Elsevier 2015)
Zika virus is a mosquito-transmitted flavivirus which has been known to cause outbreaks of disease in Africa, Southeast Asia and the Pacific Islands prior to 2015. In 2015, widespread Zika virus outbreaks were detected in South and Central America; and as of January 2016, Zika outbreaks involve 18 countries and territories in the Americas. Generally, Zika virus is a mild self-limited disease consisting of fever, maculopapular rash, arthralgias and conjunctivitis. Illness generally lasts from a few days up to a week. Approximately 80 percent of Zika infections are estimated to be subclinical (without symptoms).

In the current outbreaks, Zika has been associated with neurological illnesses and postnatal complications. The neurological illness most frequently seen has been Guillain-Barré Syndrome, a reversible illness that causes tingling and sometimes severe weakness. The postnatal complications that have been observed are microcephaly and intracranial calcifications.These devastating birth defects have given rise to much of the recent public concern about Zika. In Brazil, these occurred significantly more frequently in areas that had Zika outbreaks than would have ordinarily been

expected in areas without outbreaks. Read more.

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## Zika Cases Confirmed in North America: Time to Panic?

**By Rodney E. Rohde, PhD, for InfectionControl.tips |** 14 January 2016

Rodney E. Rohde, PhD, is Chair of the Clinical Laboratory Science Program at Texas State University. He is an infectious disease specialist, and his research focuses on public health microbiology.
Zika has arrived in North America. If you live in Texas where a case was confirmed, you have no doubt read the headlines and have read of the dangers of the disease and its link to birth defects. However, the truth is that the recent confirmed case was contracted in Latin America, not Texas; and the correlation between Zika and birth defects is being studied for causation, but has not been confirmed.

The media may be exaggerating the threat of Zika to garner the attention of their audience, but such tactics are not helpful and may put undue stress on the public health system. Read more.

## Insights into research

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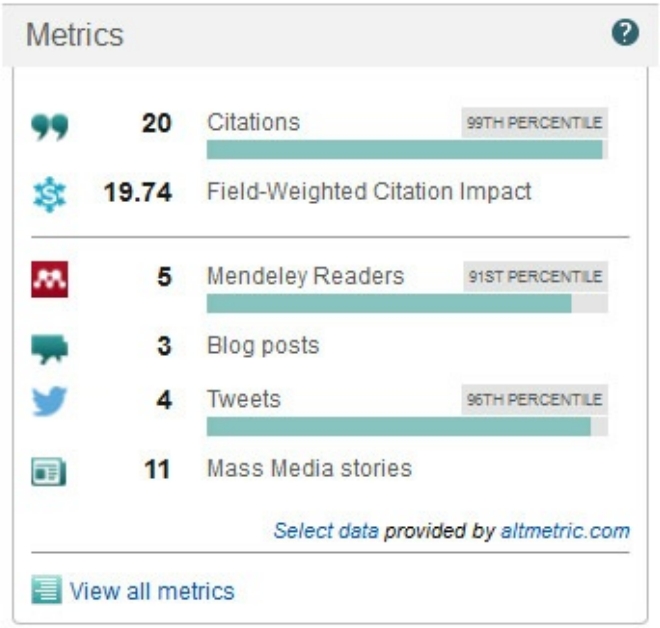
### Scopus for Zika research and collaboration




In a Scopus search for "zika virus" Didier Musso is the most cited researcher.
Scopus is the world's largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Scopus has tools that enable researchers to track, analyze and visualize research. Researchers working on developing a vaccine for the Zika virus can use Scopus to find both the latest and top-cited research, identify researchers to collaborate with, and find journals to publish in.

For example, the most cited researcher when searching for “zika virus” is Dr. Didier Musso from the Institut Louis Malarde, Pôle de Recherche et de Veille sur les Maladies Infectieuses Émergentes in French Polynesia. When looking at Dr. Musso’s Scopus author profile, we can see that many of his recent – and most highly cited – papers are in open access journals. For example, the article “Zika virus, French Polynesia, South Pacific, 2013” was published in 2014 by the CDC journal Emerging Infectious Diseases. In addition to its 20 citations, it is interesting to see, when looking at the article-level metrics, that it has most recently been cited in a post from Harvard’s Health blog titled “What you need to know about the Zika virus."

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## Mendeley's Zika Virus Research Group

Mendeley has created a Zika Virus Research Group to share references to articles related to the Zika virus in support of the research community's work in finding a vaccine. Anyone registered for Mendeley can share papers (references only) and join discussions. Mendeley is a free global reference management and research collaboration tool. Mendeley's desktop, mobile and web applications help people to organize and share their work, generate awareness of their publications and gain insight into how their publications are consumed by other researchers.

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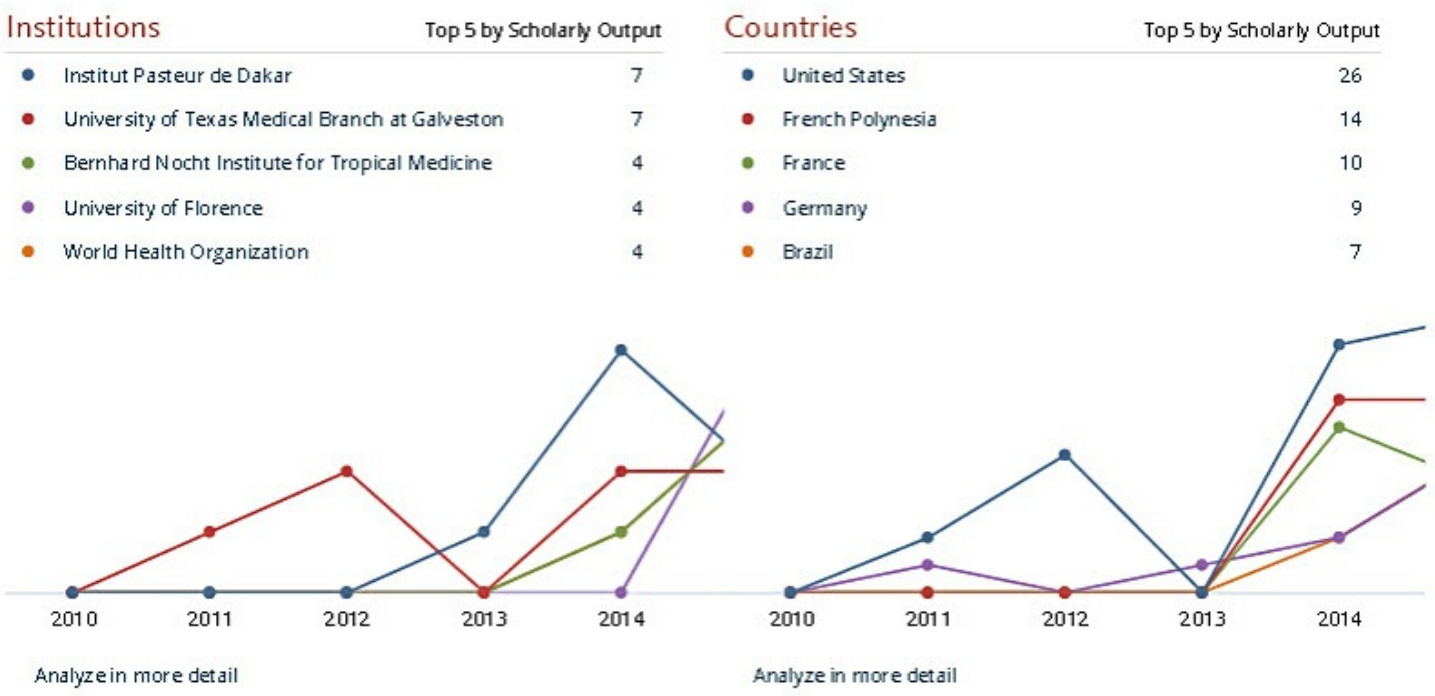
## SciVal analysis of global Zika research

SciVal

In support of the research community's efforts to develop a vaccine for the Zika virus, Elsevier has compiled SciVal analysis related to the Zika virus, Flavivirus (genus of the Zika virus) and Aedes mosquitoes (transmitter of the Zika virus). It is available here as a free PDF download along with the full Excel data export. Elsevier's SciVal offers quick and easy access to the research performance of 7,000 research institutions and 220 nations. SciVal aggregates Scopus data to give meaningful insights to help researchers find collaboration partners, locate research hubs of excellence and identify rising stars.




Download the full SciVal analysis of zika virus research here.

## Journal articles

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### Cell Press

**Cell Press statement on data sharing in public health emergencies**

The Cell Press family of journals is committed to the sharing of data relevant to public health emergencies. To this end, and in alignment with other publishers and funders, we agree that, in the context of a public health emergency of international concern, there is an imperative on all parties to make rapidly available any information that might have value in combatting the crisis. We are committed to working in partnership to ensure that the global response to public health emergencies is informed by the best available research evidence and data, and as such:

- We will make all content concerning the Zika virus free to access.
- We will work in partnership with reviewers to fast-track review all submissions concerning Zika.
- We will adapt the editorial criteria that we apply to Zika submissions by asking reviewers to evaluate only if the research methods are sound and support the conclusions and if the work will contribute in some way towards resolving the immediate challenges. We will expedite publication of papers that meet these two criteria. Read more.

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### *Microbes and Infection*

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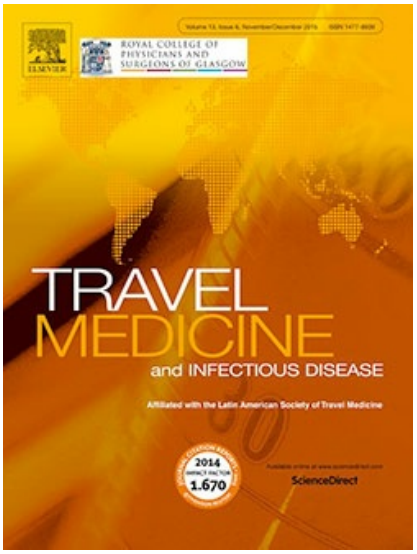
### *Travel Medicine and Infectious Disease*




- Zika and Microcephaly in Latin America: an emerging threat for pregnant travelers? (Article in press)
- Aedes and the triple threat of DENV, CHIKV, ZIKV – arboviral risks and prevention at the 2016 Rio Olympic games (Article in press)
- Zika virus and the risk of imported infection in returned travelers: Implications for clinical care (Article in press)
- Dengue, chikungunya and Zika and mass gatherings: What happened in Brazil (2014)
- Healthcare students and workers' knowledge about transmission, epidemiology and symptoms of Zika fever in four cities of Colombia (Article in press)
- Entry routes for Zika virus in Brazil after 2014 world cup: New possibilities (Article in press)
- A bibliometric analysis of global Zika research (Article in press)

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### *Acta Tropica*

Dave D. Chadee, Raymond Martinez: Aedes aegypti (L.) in Latin American and Caribbean region: With growing evidence for vector adaptation to climate change? *Acta Tropica* (April 2016)

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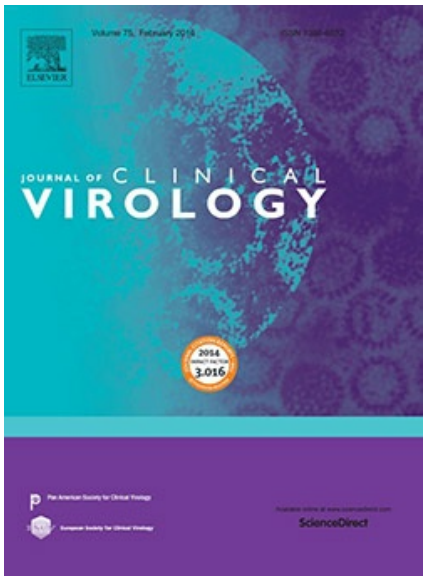
*Journal of Clinical Virology*

## Patient and traveler information



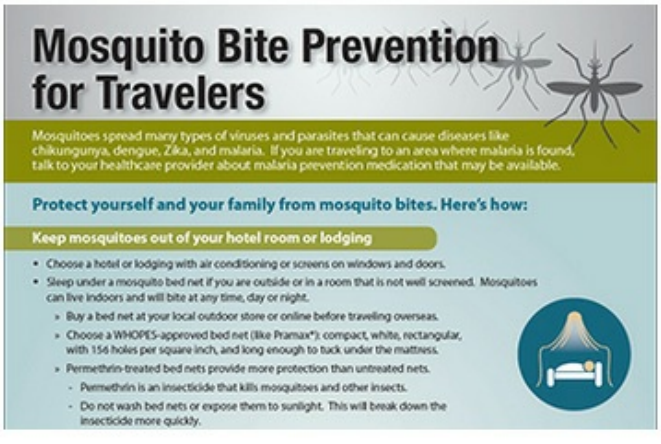

### Zika virus information sheet

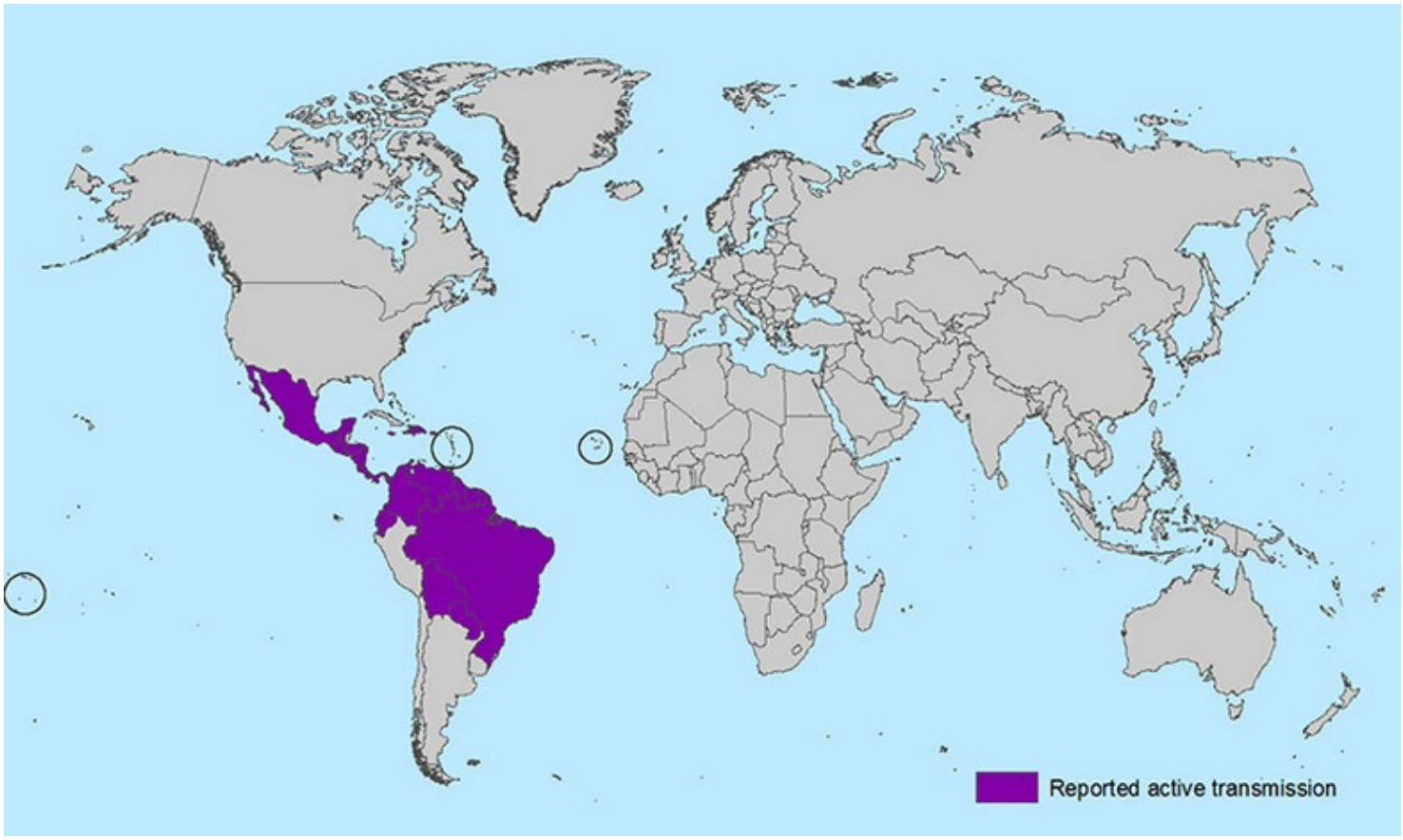
Based on new recommendations from the Center for Disease Control, Elsevier's Patient Engagement group developed a Zika Virus Disease Information document for patients who are traveling or know family or friends traveling in and out of countries where there are known cases of the Zika virus. The purpose is to provide up-to-date information for patients on the causes, symptoms and risks associated with the Zika virus. This is an example of the patient information we provide to customers in all healthcare settings. — Julibeth Lauren, PhD, APRN, CNS, VP/Editor in Chief, Elsevier Patient Engagement

## Other resources

### The Centers for Disease Control

The CDC has continually updated information and resources on its Zika Virus page, including posters and fact sheets you can download:




Zika outbreaks are occurring in many countries, and the virus is expected to spread further. (Source: Centers for Disease Control)

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### The Pan American Health Organization and WHO

The Pan American Health Organization has a continually updated Zika virus information page, which includes a Q&A on Zika and pregnancy. Founded in 1902, the Pan American Health Organization (PAHO) is the world's oldest international public health agency. It serves as the regional office for the Americas of the World Health Organization (WHO). Both are part of the United Nations.

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### The American Medical Association

The AMA's online Zika Virus Resource Center has information from the CDC and other public health groups. Resources cover:

- Understanding the virus
- Managing and reporting Zika virus infections
- Caring for pregnant women during a Zika virus outbreak
- Evaluating and testing infants

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### Medscape

The Medscape Zika Virus site features news, journal articles and advice for clinicians, including:

- A Zika Q&A for Ob/Gyns
- Zika in Newborns: A Q&A for Clinicians

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### Research4Life

Elsevier is a founding member of Research4Life, a public-private partnership of over 200 academic publishers, four UN agencies, Yale and Cornell universities and the International Association of Scientific, Technical & Medical Publishers (STM). With the support of technology partner Microsoft, the program provides free or low-cost online access to nearly 30,000 peer-reviewed journals, books and databases to over 6,000 institutions in more than 100 developing countries and territories. Learn more.

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The medical content advisor for this resource center is Dr. Jonathan Teich, Chief Medical Informatics Officer at Elsevier, a professor at Harvard University, at an attending physician in emergency medicine at Brigham and Women's Hospital in Boston.