**Zika-Epidemiological Report**

**Guyana**

25 September 2017

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**Figure 1.** Suspected and confirmed Zika cases by epidemiological week (EW). Guyana. EW 47 of 2015 to EW 30 of 2016.

![Graph showing Zika cases by week](image)

Source: Data provided by the Guyana Ministry of Public Health to PAHO/WHO

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**FIRST AUTOCHTHONOUS VECTOR-BORNE CASES**

In epidemiological week (EW) 2 of 2016, the Guyana International Health Regulations (IHR) National Focal Point (NFP) notified PAHO/WHO of the detection of the first case of autochthonous vector-borne transmission of Zika.

**GEOGRAPHIC DISTRIBUTION**

The first confirmed case of Zika virus was a resident of Region 6, Berbice. Information about the trend is only available up to EW 30 of 2016, when the regions with the highest incidence rate of confirmed Zika virus were Region 1 (Barima/Waini) with 11 cases per 100,000 population, followed by Region 2 (Pomeroon/Supenaam) with 10 cases per 100,000 population (Figure 2).

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1 Reported to by the Guyana IHR NFP on 8 December 2016.
**Figure 2.** Confirmed Zika cases by region. Guyana. 2015 to 2016 (up to EW 30).²

![Map of South America showing Zika cases in Guyana](image)

Source: Data provided by the Guyana Ministry of Public Health to PAHO/WHO¹

**TREND**

Since the last information provided by the Guyana health authorities was up to EW 30 of 2016, (Figure 1)¹ the current trend of Zika transmission in Guyana is unknown.

**CIRCULATION OF OTHER ARBOVIRUSES**

Similar to the Zika data, no data is available for dengue and chikungunya cases in 2017. The latest information available is between EW 1 and EW 16 of 2016, when Guyana health authorities detected 303 laboratory-confirmed cases of dengue (38 cases per 100,000 population)³. In 2015, a total of 863 laboratory-confirmed dengue cases were reported up to EW 48 (107 cases per 100,000).⁴

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² Note: Incidence rate calculated using population data from 2012

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Chikungunya was first reported in 2014. By the end of that same year, a total of 76 cases had been confirmed.\textsuperscript{5} The following year a large outbreak of chikungunya was reported with a total of 5,310 suspected and 29 confirmed cases (662 cases per 100,000).\textsuperscript{6} Between EW 1 and EW 16 of 2016, a total of 149 suspected chikungunya cases (19 cases per 100,000) were reported in Guyana.\textsuperscript{7} As of EW 6 of 2017, no cases of chikungunya have been reported.\textsuperscript{8}

**ZIKA VIRUS DISEASE IN PREGNANT WOMEN**

As of EW 35 of 2017, no information on Zika cases in pregnant women in has been reported by Guyana health authorities to PAHO/WHO.

**ZIKA COMPLICATIONS**

**ZIKA-VIRUS-ASSOCIATED GUILLAIN-BARRE SYNDROME (GBS)**

As of EW 35 of 2017, no cases of Zika-virus-associated Guillain-Barré syndrome (GBS) or other neurological syndromes have been reported by Guyana health authorities PAHO/WHO.

**CONGENITAL SYNDROME ASSOCIATED WITH ZIKA VIRUS INFECTION**

As of EW 35 of 2017, no cases of congenital syndrome associated with Zika virus infection have been reported by Guyana health authorities PAHO/WHO.

**DEATHS AMONG ZIKA CASES**

As of EW 35 of 2017, no deaths among Zika cases have been reported by Guyana health authorities PAHO/WHO.

**NATIONAL ZIKA SURVEILLANCE GUIDELINES**

No information is available on national guidelines for Zika surveillance.

**LABORATORY CAPACITY**

The diagnosis of Zika virus is performed at The National Public Health Laboratory from the Ministry of Health of Guyana in Georgetown by molecular detection (real time RT-PCR). The laboratory has also implemented the serology diagnosis based on ELISA IgM detection.

**INFORMATION-SHARING**

The latest information on Zika virus received by PAHO/WHO from the Guyana IHR NFP was from EW 30 of 2016.


\textsuperscript{6} PAHO/WHO. Data, Maps and Statistics, Number of reported cases of Chikungunya Fever in the Americas. EW 52 of 2015. Available at: http://www.paho.org/hq/index.php?option=com_docman&task=doc_download&Itemid=270&gid=33091&lang=en

\textsuperscript{7} PAHO/WHO. Data, Maps and Statistics, Number of reported cases of Chikungunya Fever in the Americas. EW 40 of 2016. Available at: http://www.paho.org/hq/index.php?option=com_topics&view=readall&cid=5927&Itemid=40931&lang=en