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Estimated number of local transmission cases of Zika virus infection imported from Brazil to France

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Dear editor,

The Zika virus infection becomes the present public health threat and the control of this disease needs international collaboration. An important problem is the international travel that promotes the importation of Zika virus disease to the new setting [1]. The local transmission of the imported infection is the big problem. The situation of emerging imported Zika virus infection in Europe is the good example [2]. Of several European countries, France is the country with the highest expected imported cases [2] and there have already been imported cases since 2015 [3]. Based on the available data on published articles for the situation in 2015 [2,4,5], in this letter, the authors estimated the number of local transmission cases, by both mosquito borne and sexually transmitted modes, of Zika virus infection imported from Brazil to France.

To calculate the estimated number, the authors used the data available from published article by Massad *et al.* [2], the report by Nah *et al.* [4] and the report by Gao *et al.* [5] as basic templates for further manipulation. In this work, the estimated number of local transmission cases of Zika virus infection imported from Brazil to France is equal to 'expected number of local transmission of imported case by mosquito borne mode + expected number of local transmission of imported case by sexually transmitted mode'.

Based on this study, the calculated cases of local transmission of Zika virus infection imported from Brazil to France are between 37 and 129 cases; between 33 and 117 cases and between 3 and 12 cases for local transmission by mosquito borne mode and sexually transmitted mode, respectively.

Based on this study, it can be seen that the Zika virus might already settled and locally transmitted in France. The reason for no observation might be the fact that most cases of Zika virus infection have mild or asymptomatic clinical presentation [6].

Conflict of interest statement

We declare that we have no conflict of interest.

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