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Cardiac problem because of Zika virus infection: a possibility

To the Editor,

Zika virus infection is the present global concern. The infection can cause acute febrile hemorrhagic fever and congenital defect (1, 2). In cardiology, the interesting question is whether there can be any cardiac problem because of Zika virus infection (3). Based on the recent autopsy report in death fetus, no heart involvement has been observed. However, based on the nanostructural consideration, the viral particle is approximately 40 nm, slightly smaller than dengue virus. Based on the previously published concepts in nanopathology (4), the direct invasion to the cardiac tissue to cause cardiac involvement is possible because the virus is so small that it can pass into the heart. The good evidence is seen in animal model study in the previous reports since 1958 (5). If the cardiac pathology exists, the problems should be similar to those seen in dengue.

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