

47th World Congress on Microbiology

September 10-11, 2018 | London, UK

Long-term active surveillance increased the imported malaria cases at point of entry (PoE), China

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In order to implement the elimination programme, we reviewed the epidemiologic characteristics of the cases reported at PoE from 2010 to 2017, so as to provide suggestions to prevent the imported cases away from domestic spreading in China. Symptom-based surveillance was carried out on travellers at the PoE of China, those who have fever and/or from the malaria endemic areas were actively monitored by infrared temperature monitoring or medical inspected by travel health experts. Rapid detect test (RDT), molecular or microscopically detect method was used to diagnose the malaria. Information relating to travel, demographics and others were recorded. During the implementation of the NMEP from 2010 to 2017 in China, the indigenous cases declined continuously. However, the imported cases diagnosed at PoE increased annually. From 2010 to 2017, a total of 1564 cases were reported at PoE, the average age was 39.1 ± 10 (ranged from 4 to 69) years old and male accounted for 95.3% (985/1053). A total of 981 cases are from China, distributed in Angola, Guinea, Nigeria, Ghana and other countries. Among 627 cases detected by typing methods, *Plasmodium falciparum* was the predominant, accounting 82.5%, then was *Plasmodium vivax* of 15.5%, *Plasmodium malariae* and *Plasmodium ovale* were the least of 1.4% and 0.6%, respectively. The implementation of active surveillance at PoE has successfully increased the number of reported malaria cases annually, although the indigenous cases have dramatically declined since 2010. The reason may be due to the implementation of China NMEP, as well as more strict measurements carried out at PoE when MERS, Ebola, Zika and Yellow fever spread globally, partly due to more sensitive methods used in the detection.

Biography

Liu Lijuan has completed her Ph.D at the age of 35 years from Harbin Medical University and postdoctoral studies from Beijing Institute of Microbiology and Epidemiology. She is the senior researcher of Chinese Academy of Inspection and Quarantine. She has published more than 20 papers in reputed journals.

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