



## Asian Pacific Journal of Tropical Medicine

journal homepage: [www.apjtm.org](http://www.apjtm.org)



doi: 10.4103/1995-7645.268165

Impact factor: 1.77

# Analysis of 8 970 pregnant women with infectious diseases in Haikou, China

Jie-ying Wang, Zi-hua Tong, Chun-chun Yu, Yu-cheng Li, Yan-qun Xie, Hua Pei<sup>✉</sup>

*The Second Affiliated Hospital of Hainan Medical University, Haikou, Hainan Province, China*

**Objective:** To preliminarily investigate the infection status of the human immunodeficiency virus (HIV), hepatitis B virus (HBV), treponema pallidum and hepatitis C virus (HCV) in pregnant women in Hainan Province, so as to provide evidence for effective prevention and treatment of mother-to-child transmission.

**Methods:** From October 2017 to July 2019, 8 970 pregnant women who came to our hospital for outpatient examination during pregnancy were tested for HIV, treponema pallidum and HCV antibody by ELISA and tested for rapid detection of HBV surface antigen in serum by gold immune-chromatographic assay.

**Results:** The positive rate of HIV, treponema pallidum and HCV antibody was 0.01% (1/8 970), 0.65% (58/8 970) and 0.11% (10/8 970), respectively, and the positive rate of HBV surface antigen was 11.13% (998/8 970).

**Conclusions:** Among the 8 970 pregnant women, the HBV infection rate was the highest (11.13%), significantly higher than that of the other three infectious diseases, followed by the treponema pallidum and HCV positive rate, and the HIV positive rate was the lowest. Therefore, it is suggested that pregnant women should strengthen prenatal examinations to improve the awareness of prevention of infectious diseases, which is conducive to prepotency. Meanwhile, it is urgent to improve the screening and treatment for epidemic infectious disease in Haikou.

**Keywords:** Pregnant women; HIV; HBV; Treponema pallidum; HCV

### Article history:

Received 4 September 2019

Revised 13 September 2019

Accepted 25 September 2019

Available online 7 October 2019

<sup>✉</sup>Corresponding author: Hua Pei, the Second Affiliated Hospital of Hainan Medical University, Haikou, Hainan Province, China.  
E-mail: [phzjh61@aliyun.com](mailto:phzjh61@aliyun.com)

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

**For reprints contact:** [reprints@medknow.com](mailto:reprints@medknow.com)

©2019 Asian Pacific Journal of Tropical Medicine Produced by Wolters Kluwer- Medknow. All rights reserved.

**How to cite this article:** Wang JY, Tong ZH, Yu CC, Li YC, Xie YQ, Pei H. Analysis of 8 970 pregnant women with infectious diseases in Haikou, China. Asian Pac J Trop Med 2019; 12(Suppl 1): 37.