

## Accepted Manuscript

Title: Unsynchronized influenza epidemics between two neighboring subtropical cities

Authors: Xiujuan Tang, Shisong Fang, Alice P.Y. Chiu, Qianying Lin, Edwin Yiu Nam Tang, Xin Wang, Daihai He



PII: S1201-9712(18)30055-9  
DOI: <https://doi.org/10.1016/j.ijid.2018.02.019>  
Reference: IJID 3184

To appear in: *International Journal of Infectious Diseases*

Received date: 2-12-2017  
Revised date: 21-2-2018  
Accepted date: 22-2-2018

Please cite this article as: Tang Xiujuan, Fang Shisong, Chiu Alice PY, Lin Qianying, Tang Edwin Yiu Nam, Wang Xin, He Daihai. Unsynchronized influenza epidemics between two neighboring subtropical cities. *International Journal of Infectious Diseases* <https://doi.org/10.1016/j.ijid.2018.02.019>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Unsynchronized influenza epidemics between two neighboring subtropical cities

Xiujuan Tang<sup>1,\*</sup>, Shisong Fang<sup>1,\*</sup>, Alice PY Chiu<sup>2,\*</sup>, Qianying Lin<sup>2</sup>, Edwin Yiu Nam Tang<sup>3</sup>, Xin Wang<sup>1</sup>, and Daihai He<sup>2</sup>

<sup>1</sup> Shenzhen Center for Disease Control and Prevention, Shenzhen, China.

<sup>2</sup> Department of Applied Mathematics, Hong Kong Polytechnic University, Hong Kong SAR, China

<sup>3</sup> St. Paul's Co-educational College, Hong Kong (SAR) China

\* equally contributed

Correspondence to XW szwxin@163.com and DH daihai.he@polyu.edu.hk and

### Highlights

- We studied influenza data from 2006–2016 in Hong Kong and Shenzhen.
- Influenza epidemics appeared unsynchronized between Hong Kong and Shenzhen.
- Unsynchronized influenza epidemics could be due to their different age structure.

### Abstract

#### Objective

This study aims to examine the synchrony of influenza epidemics between Hong Kong and Shenzhen, two neighboring subtropical cities in South China.

#### Methods

Laboratory-confirmed influenza data from January 2006 to December 2016 were obtained from the Shenzhen Center for Disease Control and Prevention and the Department of Health in Hong Kong. The population data were retrieved from the 2011 population censuses. The weekly rate of laboratory-confirmed influenza cases were compared between Shenzhen and Hong Kong.

Download English Version:

<https://daneshyari.com/en/article/8739033>

Download Persian Version:

<https://daneshyari.com/article/8739033>

[Daneshyari.com](https://daneshyari.com)