26/3/2020



#### Format: Abstract -

- 1 item was added to the Clipboard.
- Clipboard items will be lost after eight hours of inactivity. The maximum number of Clipboard items is 500.

Zhonghua Liu Xing Bing Xue Za Zhi. 2020 Mar 5;41(4):485-488. doi: 10.3760/cma.j.cn112338-20200221-00144. [Epub ahead of print]

# [Potential false-positive rate among the 'asymptomatic infected individuals' in close contacts of COVID-19 patients].

[Article in Chinese; Abstract available in Chinese from the publisher] Zhuang GH<sup>1</sup>, Shen MW, Zeng LX, Mi BB, Chen FY, Liu WJ, Pei LL, Qi X, Li C.

### Author information

### Abstract in English, Chinese

**Objective:** As the prevention and control of COVID-19continues to advance, the active nucleic acid test screening in the close contacts of the patients has been carrying out in many parts of China. However, the false-positive rate of positive results in the screening has not been reported up to now. But to clearify the false-positive rate during screening is important in COVID-

19 control and prevention. **Methods:** Point values and reasonable ranges of the indicators which impact the false-positive rate of positive results were estimated based on the information available to us at present. The false-positive rate of positive results in the active screening was deduced, and univariate and multivariate-probabilistic sensitivity analyses were performed to understand the robustness of the findings. **Results:** When the infection rate of the close contacts and the sensitivity and specificity of reported results were taken as the point estimates, the positive predictive value of the active screening was only 19.67%, in contrast, the false-positive rate of positive results was 80.33%. The multivariate-probabilistic sensitivity analysis results supported the base-case findings, with a 75% probability for the false-positive rate of positive results over 47%. **Conclusions:** In the close contacts of COVID-19 patients, nearly half or even more of the 'asymptomatic infected individuals' reported in the active nucleic acid test screening might be false positives.

26/3/2020

[Potential false-positive rate among the 'asymptomatic infected individuals' in close contacts of COVID-19 patients]. - PubMed - NCBI

KEYWORDS: COVID-19; Close contacts; False-positive; Nucleic acid test; Screening

PMID: 32133832 DOI: 10.3760/cma.j.cn112338-20200221-00144

## f 🎐 🏹

Publication type, Grant support

LinkOut - more resources