Community grid management is an important measure to contain the spread of novel coronavirus pneumonia (COVID-19)

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Abstract

The outbreak of novel coronavirus pneumonia (coronavirus disease 2019 (COVID-19)), declared as a ‘global pandemic’ by the World Health Organization (WHO), is a public health emergency of international concern (PHEIC). The outbreak in multiple locations shows a trend of accelerating spread around the world. China has taken a series of powerful measures to contain the spread of the novel coronavirus. In response to the COVID-19 pandemic, in addition to actively finding effective treatment drugs and developing vaccines, it is more important to identify the source of infection at the community level as soon as possible to block the transmission path of the virus to prevent the spread of the pandemic. The implementation of grid management in the community and the adoption of precise management and control measures to reduce unnecessary personnel movement can effectively reduce the risk of pandemic spread. This paper mainly describes that the grid management mode can promote the refinement and comprehensiveness of community management. As a management system with potential to improve the governance ability of community affairs, it may be helpful to strengthen the prevention and control of the epidemic in the community.

Introduction

Since the outbreak of novel coronavirus pneumonia (coronavirus disease 2019 (COVID-19)), the community is the most important place to prevent the spread of the epidemic[1, 2]. Community grid management is a new grass-roots management mode that divides urban communities into several responsibility grids, integrates dynamic community information into specific grids and completes community information collection and comprehensive governance in a comprehensive and rapid manner by virtue of the modern information technology platforms. In 2004, Beijing took the lead in implementing the community grid management mode, which achieved good results in community affairs processing, and was subsequently popularised and applied in other regions of China. During the epidemic prevention and control period, China strictly implements the community grid management mode and makes full use of modern information technology to promote the refined management of community epidemic prevention and control and contain the spread of the epidemic in the community through active intervention measures. In this paper, we shall discuss how community grid management can be utilised to build epidemic prevention and control systems, so as to fight COVID-19 and its associated challenges.

Challenges faced by community-level epidemic prevention and control

The identities of community members are complex and the mobility of personnel is high, so there are many uncertainties. It is difficult to implement various prevention and control measures in the traditional and decentralised community management mode. The novel coronavirus pneumonia has the characteristics of long incubation period and diversified infectious pathways [3]. At present, studies have proved that patients infected with novel coronavirus are highly infectious in the early stage of infection [4]. Therefore, efficient and rapid identification of the source of infection in the community population and blocking the path of virus transmission are the decisive factors to prevent the spread of the epidemic.

Implementation of community grid management

The community grid management is to divide the urban area into several community unit grids according to the scientific standards such as geographical layout, convenient management and integrity of management objects, and each community unit grid is divided into sub-grids again depending on the community-level information platform. Using the electronic
Several suggestions for community grid management implementation

At the community level, the knowledge and measures of epidemic prevention and control should be publicised to obtain support and cooperation from residents, and all residents in the community should be fully mobilised to implement various measures of community grid management. It is suggested that the community grid prevention and control personnel be divided into several prevention and control groups, such as the entrance and exit control group, the material assurance group, the disinfection group, the grid inspection group etc. The staff of the grid inspection group are responsible for the evacuation of the community. The disinfection group are responsible for regular disinfection in public places and places with high risk of virus transmission (such as handrails and elevator buttons). The staff of the disinfection group are responsible for the evacuation of people gathering in the community grid unit.

During the epidemic prevention and control period, relying on the big data information platform, information data is shared with disease control departments, medical institutions and anti-epidemic departments to improve prevention and control efficiency. Emergency patients in urgent need of medical treatment shall be transferred to medical institutions by specially assigned persons to reduce the risk of epidemic spread caused by residents’ going out for medical treatment.

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References


