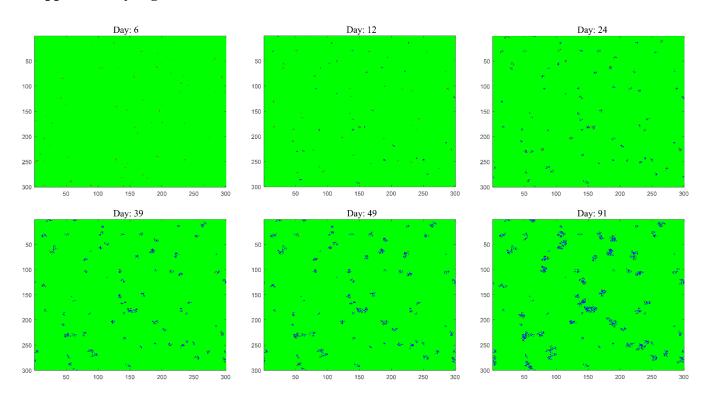


## Supplementary Material

## **Supplementary Figure**



**Figure S1.** The simulation results of the proposed CA during the outbreak of COVID-19 in Heilongjiang province (January 2021).