

An effective method to eliminate coronavirus

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When a community gets coronavirus, it means the coronavirus has been circulated in the community. Due to long incubation period, people do not know where the viruses are, and the viruses are constantly spreading at speed of 1 to n. If $n=2$ (every day one infects other 2), in 8 days, there will be 6561 covid infected people in the community.

If a virus is spreading among animals, what we will do, is that isolating all animals and burning them out, so that all viruses have been eliminated. However, we can not do this way for human.

The best and effective method to eliminate coronavirus is that to have a very restricted short period lockdown entire community, everyone gets a covid test. Therefore the results tell us where the viruses are, then unlock whole community, and put the infected people into centre isolation units which are away from community. Infected people are managed by medical specialists, and can not leave to any community until it is safe to do so.

By using this method whenever coronavirus has found in the community, the virus will be isolated. The lockdown is very short, people who have no covid have more freedom, the damages to economy is minimised, the social impacts, such as, mental illness, are limited, the stress to hospitals is reduced, and save massive contact tracing resources.

To achieve this, governments need prepare massive testing facilities, need getting test results very quickly, and build centre isolation facilities, which are away from communities.

Comparing to the other methods, such as, semi-lockdown and soft-lockdown, the weakness of those methods is that the success of elimination the virus is depended on everyone's compliance to the rules. This is very hard to achieve. And also it locks massive people who have no covid, which cause social and economic problems.

Success = $S_1 \times S_2 \times S_3 \dots \times S_n$ (where $S_1, S_2, \dots S_n$ is individual success)

Failure = $F_1 + F_2 + F_3 \dots + F_n$ (where $F_1, F_2, \dots F_n$ is individual Failure)

To be success every one has to be success. To be failure, as long as one is failure.

Contact tracing is very hard to achieve, if someone has forgotten where she/he has been in last 10 days; or an infected person goes to a shopping centre buy foods; or someone does not follow travel restrictions, etc, one of them will lead elimination failure and have to extend lockdown period.

Vaccine reduces the severeness, but it does not stop people carry the virus. Remove travel restrictions after having high vaccine rate will let virus spreads everywhere, causes stress to hospital, cause death to the people who have underlying health problems, and other social problems.

Vaccinated people feel safer, therefore people have more movements. Although vaccinated people carry less virus, which reduces spreading rate, however, the virus can duplicate itself to large amount within a short period of the time. The virus can damage human organs and cause health problems. World covid daily data has shown that covid infected number has no correlation with vaccine rate.

Therefore, to fight with coronavirus war and save life, even a community has high vaccine rate, we still need to use this effective method to eliminate the virus.