Imposing lockdown in Indonesia:

How long will it take to achieve resistance to SARS-CoV-2 in Indonesia?

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Discussion Summary

Continuing to our [previous data set publication](#) and from various sources available on the internet, we summed some key identifications :

1. The trajectory of the first wave of Thailand and the second wave of Thailand appear to be the same with Indonesia today (see Graph 1).
2. Thailand's lag phase is long after the first wave (starting in January), most probably that Thailand's first wave related to the first plague of the Wuhan epicentre, which has been tightly locked down since the beginning. The second wave of Thailand (starting in March) may be related to the current plague which takes Europe as the picentre ^{a, b, c}.
3. Thailand has entered the second wave after one month of success in reducing the first wave (see Graph 1).
4. There is a possibility that immunity formed after two months of exposure to SARS-CoV-2 ^f. It is also possible that there are indeed two strains that are very similar ^d. The first strain may be present in a lower frequency, but the second strain may be present in higher frequency. However, the markers of the two strains may have very high similarities ⁱ.
5. In the first wave, Thailand implemented road disinfection in congested areas such as trade zones, transportation stations, ports and airports, educational facilities, parks, and community places in Bangkok. While national lockdown has not been enforced in the first wave, now the Thai government goes beyond, enacting the closure of two areas of night entertainment and other entertainment venues for the coming of the second wave of the plague ^h. **Just now, the Thai government declares emergency to stop the spread of SARS-CoV-2 ^j.**
6. There is another analysis of why COVID-19 is so deadly in Italy. It is nothing but a secondary infection, which is not easy to be dealt with. Italy is a country with the highest antimicrobial resistance in Europe ^e, risking the failure level of COVID-19 treatment to high, even leading to death with a high percentage.
7. Wuhan's experience shows that resistance formed around 48 days ^f. This can be assumed as two-fold of a 14-day cycle or 28 days equivalent for each strain.

8. The next wave of COVID-19 positive cases in Indonesia is predicted on March 30-31 if the community fails the campaign to stay at home and work from home (see Graph 2). The graph is produced from various literatures^{k-aa}.

Conclusion

In order to overcome the COVID-19 outbreak, the government should approve an emergency response regarding stay at home and work from home agreements of at least 48 days.

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Graph 1. Trajectory of COVID-19 positive cases in Indonesia and Thailand

Graph 2. Wave of COVID-19 positive cases in Indonesia