HOW TO MONITOR THE EPIDEMIC EFFICIENTLY

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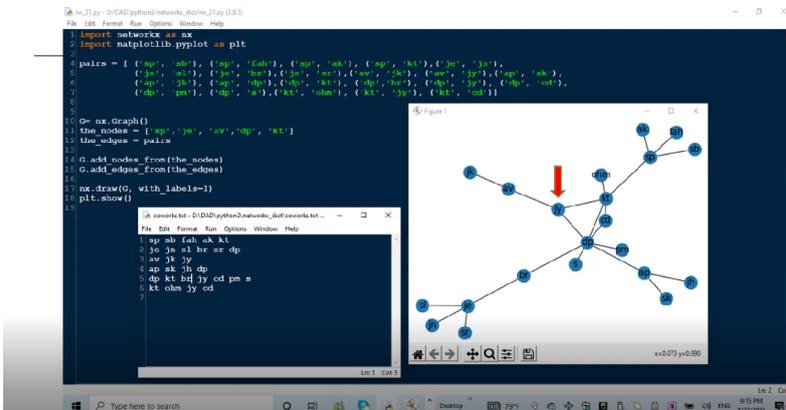

The first virtual TEA meeting

29 JULY 2021

#1: MONITOR THE EPIDEMIC

- **Notifiable diseases surveillance** (passive surveillance)
  -provide the baseline of epidemic burden
  -less useful for widespread at a community level and laboratory capacity.
- **Sentinel surveillance**
  -reduce the size of the disease burden
  -good for small clusters or scattering outbreaks such as a hospital, school, factory.
- **Cluster investigation:**
  -the effectiveness may be based on the different sizes of the COVID-19 outbreak.

#2: CONTACT TRACING

Practical contact tracing such as fencing approach would be good to be implemented at the household level but we must be aware of the variant of concerns, especially for the Delta variant of COVID-19. Manpower and interpretation of contact tracing data may be the crucial determinant to provide productive and practical contact tracing during the surge of COVID-19 pandemic and community transmission.

Contacts networking
Python scripts – network visualization

"If we could interpret the result of network analysis created by the Python program from person to farm/school/factor, it was really beneficial to implement the control measure."

SURVEY RESULTS

Issues	The countries response
How to practically monitor COVID epidemic using field surveillance methodology? (43% response rate)	Integrated surveillance which having at least 3 types of surveillance system may be practical to monitor the COVID-19 pandemic recently and soon and must be adjusted suitably.
What is the practical management of contact tracing? (36% response rate)	Integrated information technology into contact tracing procedure, contact tracing application, could reduce the workload. Prospective contract tracing might be suitable in the area where no therapeutic medicines, insufficient vaccines supply, and limited/small outbreak. Nevertheless, it may be difficult to apply with asymptomatic cases post-vaccination. Public acceptance of technology is essential.

Thank you for your support
& make a better public health

We welcome any questions, suggestions and comments
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