

Centre for Disease Modelling Canada-China Distinguished Lecture Mathematics and COVID-19

Evolving epidemiology of COVID-19 in different regions of China



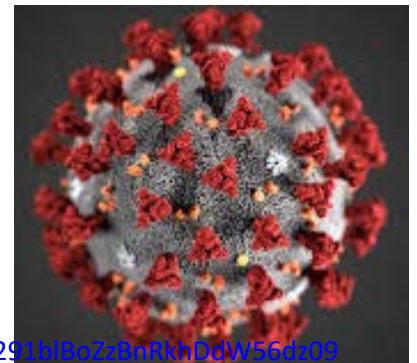
With

Dr. Hongjie Yu

School of Public Health
Fudan University

Friday June 26, 2020

8:30 pm – 9:30 pm (Eastern Time)



Webinar: Connect at <https://yorku.zoom.us/j/98615589444?pwd=S1JYcVA0R291blBoZzBnRkhhDdV5SGdx09>

Also see announcement at cdm.yorku.ca

Abstract: We collected individual information and contact tracing data from various locations in China. We estimate the incubation period and serial interval of COVID-19, the susceptibility of children, and determine the effectiveness of social distancing/school closure. Results suggest early peak of infectiousness, with possible transmission before the symptom onset. Results also indicate that, as the epidemic progresses, infectious individuals were isolated more quickly, reducing community transmission. Finally, we find that social distancing alone is sufficient to control COVID-19, while proactive school closures can reduce peak incidence and delay the epidemic. Overall, our findings indicate that strict containment measures, movement restrictions, and increased awareness of the population can interrupt transmission of SARS-CoV-2 in China.

Hongjie Yu's research interests include transmission dynamics, epidemiological parameters, disease burden, evaluation of interventions, clinical research to understand pathogen-immune interactions, as well as vaccine efficacy, safety, and cost effectiveness for infectious diseases with public health importance, e.g. COVID-19, zoonoses, influenza, hand-foot-mouth disease, dengue, rabies, pneumococcus and Hib.

Panelists: J. Arino (UManitoba), J. Belair (UMontreal), J. Cui (BeijingUCivilEng&Archit), M. Fan (NENormalU), J. Heffernan (YorkU), Z. Jin (ShanxiU), M. Li (UALberta), W. Lin (FudanU), W. Wang (SouthwestU), J. Watmough (UNewBrunswick), Y. Xiao (XianJiaotong U), H. Zhu (YorkU)

Organizers: Centre for Disease Modeling (CDM), Chinese Society for Mathematical Biology (CSMB)



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