

Angela Chow



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Research Interests:

- Antimicrobial resistance
- Infection Prevention and Control
- Infectious disease surveillance and epidemiology
- Socio-behavioral and Implementation research

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Biography

Dr Angela Chow graduated in Medicine from the National University of Singapore, was trained as a Public Health specialist, and obtained a PhD in Epidemiology at the University of California, Los Angeles. Dr Chow had assumed various positions at the Ministry of Health Singapore where she developed national communicable disease surveillance systems and strategies, influenza pandemic preparedness plans, health services development programmes and non-communicable disease interventions.

She is a Senior Consultant at the Department of Preventive and Population Medicine at the Office of Clinical Epidemiology, Analytics, and kNowledge (OCEAN) and currently the Clinical Director of OCEAN and the Chief Data Officer, at Tan Tock Seng Hospital. She also holds joint and adjunct appointments as Associate Professor at the Lee Kong Chian School of Medicine and Saw Swee Hock School of Public Health respectively. Dr Chow is actively involved with epidemiological surveillance and the prevention and control of healthcare-associated infections and emerging infectious diseases including COVID-19, monkeypox, avian and pandemic influenza. Her research interests include antimicrobial resistance and stewardship; infection prevention and control; infectious disease surveillance and epidemiology, and socio-behavioral and implementation research.

Selected Publications

- Sadarangani SP, Young BE, Lian W, Phua HP, Chen M I-C, Barr I, Yeo TW, Dalan R, **Chow A**. DYNAMIC cohort study evaluating metabolic predictors of influenza vaccine immune response in older adults. *npj Vaccines* 2022; 7:135 (IF=7.344).
- Khanna R, Htun HL, Li AL, Kyaw WM, Ang H, Ang B, **Chow A**. Staff and patient surveillance in hospitals: good sentinels for the emergence of new SARS-CoV-2 variants. *J Infect.* 2022 Jul 7:S0163-4453(22)00411-X. doi:10.1016/j.jinf.2022.07.002 (IF 38.637).
- Guo H, Hildon ZJ-L **Chow A**. “Antibiotics are for everyone, our past and our future generations, right? If antibiotics are dead, we will be in big trouble”: Building on community values for public engagement on appropriate use of antibiotics in Singapore. *Front. Public Health* 2022; 10:1001282 (IF=6.461).
- Huang Z, Weng Y, Ang H, **Chow A**. Determinants of antibiotic over-prescribing for upper respiratory tract infections in an emergency department with good primary care access: a quantitative analysis. *J Hosp Infect.* 2021 Apr 21;113:71-76. doi: 10.1016/j.jhin.2021.04.016 (IF 8.944).
- Lim RHF, Htun HL, Li AL, Guo H, Kyaw WM, Hein AA, Ang B, **Chow A**. Fending off Delta–Hospital measures to reduce nosocomial transmission of COVID-19. *Int J Infect Dis* 2022 Apr;117:139-145. doi: 10.1016/j.ijid.2022.01.069 (IF 12.074).
- Huang Z, Guo H, Lim HYF, **Chow A**. Awareness, acceptance, and adoption of the national digital contact tracing tool post COVID-19 lockdown among visitors of a public hospital in Singapore. *Clin Microbiol Infect* 2021 Jan 19;S1198-743X(21)00033-1. doi:10.1016/j.cmi.2021.01.007 (IF 13.310).
- **Chow A**, Htun HL, Kyaw WM, Lee LT, Ang B. Asymptomatic health-care worker screening during the COVID-19 pandemic. *Lancet.* 2020 Oct 31;396(10260):1393-1394 (IF 202.731).
- Ho HJ, Zhang ZX, Huang Z, Aung AH, Lim WY, **Chow A**. Use of a Real-Time Locating System for Contact Tracing of Health Care Workers During the COVID-19 Pandemic at an Infectious Disease Center in Singapore: Validation Study. *J Med Internet Res.* 2020 May 26;22(5):e19437. doi: 10.2196/19437 (IF 7.08).
- Htun HL, Lim DW, Kyaw WM, Loh WNJ, Lee LT, Ang B, **Chow A**. Responding to the COVID-19 outbreak in Singapore: Staff Protection and Staff Temperature and Sickness Surveillance Systems. *Clin Infect Dis.* 2020 Nov 5;71(8):1947-1952. doi: 10.1093/cid/ciaa468 (IF 9.079)

- **Chow A**, Htun HL, Hon PY, Ang B, Kanagasabai K, Koh J, Holden MTG, Hsu LY. Comparative epidemiology and factors associated with major healthcare-associated methicillin-resistant *Staphylococcus aureus* clones among interconnected acute-, intermediate- and long-term healthcare facilities in Singapore. *Clin Microbiol Infect.* 2020 Jul 29:S1198-743X(20)30442-0. doi: 10.1016/j.cmi.2020.07.034 (IF 13.310).

Notable Research Awards & Grants

Name of Awards & Grants	Year Obtained
NMRC Clinician Scientist Award Patient, Physician, and Organizational Factors Influencing Decision-making for Antibiotic Use, and N-of-1 Trials of Interventions to Improve the Decision-making	2019
ALIVE Serious Games Grant (SGG) Antibiotic SteWARDs	2020
One Health Antimicrobial Resistance Research Programme The VALUE of Companion SteWARDs: Understanding the facilitators and barriers to appropriate antibiotic prescribing in veterinary clinics for companion animals in Singapore	2021
NMRC Clinician Scientist Award Different strokes for different folks - Leveraging on community social networks for public health education on antibiotic use and antimicrobial resistance	2023

Translating Research Into Healthcare

S/N	Title of Media Report	Media Source	Publishing Date
1	“Move to let patients get flu, pneumococcal jabs at their designated TTSH specialist outpatient clinic” “TTSH expands scheme for seniors to get flu vaccines without booking or prescription in bid to drive take-up”	The Straits Times, Lianhe Zao Bao, Today Online	15 Dec 2022