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Research Interests:

- Antimicrobial resistance
- Infection prevention and control
- Infectious disease surveillance and epidemiology
- Socio-behavioral and Implementation research
- Population health

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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 Epidemiology and Preventive 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, socio-behavioral and implementation research, and population health.

Selected Publications

- **Chow A**, Aithal S, Guo H, Lwin MO, Hildon ZJ. Using social influencers for public health education on antibiotic use and antimicrobial resistance: protocol for a quasi-experimental study. BMC Public Health. 2025 Sep 24;25(1):3120.
- Guo H, Hildon ZJ, Chua T, Teo BH, **Chow A**. An exploratory mixed methods study on shared decision-making and antibiotic prescribing for pet cats and dogs in Singapore veterinary clinics. Sci Rep. 2025 Jul 2;15(1):23135.
- Aithal S*, Toh G*, Guo H, Hildon ZJL, Teo BH, Chua T, **Chow A**. Knowledge, Attitudes, and Practices of Antibiotic Use and Antimicrobial Resistance for Pet Cats and Dogs in Singapore: A Cross-sectional Study. Int J Antimicrob Agents 2025; 66(3):107489.
- Guo H, Hildon ZJ, Wong LH, Chua T, Teo BH, **Chow A**. The VALUE of antibiotic stewardship for companion animals: Understanding appropriate antibiotic prescribing for pet cats and dogs in veterinary clinics in Singapore. One Health. 2025 Feb 11;20:100994.
- Aithal S, Guo H, Teo BH, Chua T, Hildon ZJL, **Chow A**. Pet Owners' Knowledge of Antibiotic Use and Antimicrobial Resistance and Their Antibiotic Practices: Comparison Between Contexts of Self and Pet. Antibiotics 2025; 14(2):158.
- **Chow A**, Aithal SK, Guo H, Chua T, Teo BH, Hildon ZJL. Factors influencing antibiotic use in pets: Insight into pet owners' knowledge and personal antibiotic use suggests a benefit to cross-sectoral education to combat inappropriate antimicrobial use. Clin Microbiol Infect 2025; 31(2):293-295.
- Aithal S, Guo H, Teo BH, Chua T, Hildon ZJ-L, **Chow A**. Expectation of antibiotics amongst owners of dogs and/or cats during non-routine visits to veterinary clinics in Singapore: a cross-sectional study. Front. Vet. Sci. 2024; 11:1491054.
- **Chow A**, Guo H, Ho A, Ng TM, Lye DC-B, Empowered Hospitalised Patients are involved in Shared Decision Making on Antibiotic Therapy: A Quantitative Analysis. J Hosp Infect 2024; 151:109-115.
- Guo H, Lye DC, Ng TM, Somani J, Kwa ALH, Chung SJ and **Chow A**. Hospitalised patients as stewards of their own antibiotic therapy: a qualitative analysis informing the strategic design of interventions to encourage shared decision-making in tertiary hospital settings in Singapore. Front. Public Health 2024; 12:1347764.

- Huang Z, Lim HY-F, Ow JT, Sun SH-L, **Chow A**. Doctors' perception on the ethical use of AI-enabled clinical decision support systems for antibiotic prescribing recommendations in Singapore. Front. Public Health 2024; 12:1420032.
- Tang YW, Hon PY, Tan J, Poh BF, Ang B, **Chow A**. Octenidine exposure was not associated with reduced octenidine susceptibility of meticillin-resistant Staphylococcus aureus in an extended-care facility in Singapore. J Hosp Infect 2024; 149: 104-107.
- Ong LS, Aung AH, **Chow A**. Remaining agile–post-pandemic prevention of SARS-CoV-2 nosocomial transmission. J Hosp Infect. 2024; 143:224-226.

Notable Research Awards & Grants from Past 5 Years

| 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 |

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| 2 | "Share a bed with your fur kid? Here's what you should know about antibiotic-resistant bacteria" | The Straits Times | 1 May 2025 |
| 3 | "More studies being done to help Singapore residents take charge of their health" | The Straits Times | 14 Jun 2025 |