

## Biography

My research focuses on synthesising best, current evidence for high-impact public health issues in Hong Kong and other East Asian populations. An interdisciplinary character underpins this research programme drawing on methods from clinical medicine, epidemiology, decision science and health economics.

Currently funded projects include:- 1) extending and integrating paediatric epidemiology with lifecourse epidemiology in the rapidly transitioning populations of Hong Kong and Guangzhou; 2) developing a focused research programme in infectious disease epidemiology with particular reference to influenza and SARS; 3) understanding secular changes in breast and cervical cancer rates through statistical modelling and evaluating associated screening strategies through cost-effectiveness analyses; 4) maintaining Hong Kong's Domestic Health Accounts, projecting total health expenditure in the medium term and examining vertical and horizontal equity in health care financing and utilisation.

I believe strongly in underpinning public health practice and advocacy by original research. I translate and apply findings from my research programme through cross appointments at the Department of Health and Hospital Authority as well as serving on a number of advisory committees at the Health, Welfare and Food Bureau, Centre for Health Protection and the Hong Kong College of Community Medicine.

As a Fulbright Scholar, I trained in health policy and management at Harvard University and returned on sabbatical in 2005 as Takemi Fellow in International Health. I earned a higher research doctorate from the University of Hong Kong, majoring in paediatric epidemiology and health services research. I am a medical graduate of the University of Western Ontario and completed specialty residency in family medicine at the University of Toronto.

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## Postgraduate Modules

CMED6400 - Evidence-based practice: an introduction to clinical epidemiology and decision analysis

CMED6401- Advanced clinical epidemiology and decision analysis

CMED6900 - Health care systems and policy

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## Select Publications

Leung GM, Bacon-Shone J (eds). Hong Kong's health system – reflections, perspectives and visions. Hong Kong: Hong Kong University Press; 2006. (568 pp.) ISBN 962-209-804-5

### Paediatric and lifecourse epidemiology (Full list and PDF of papers)

1. **Leung GM**, Lam TH, Ho LM, Lau YL. Health consequences of breastfeeding: doctors' visits and hospitalisations during the first 18 months of life in Hong Kong Chinese infants. *Epidemiology*. 2005;16:328-35.
2. **Leung GM**, Ho LM, Lam TH. Secondhand smoke exposure, smoking hygiene, and hospitalization in the first 18 months of life. *Arch Pediatr Adolesc Med*. 2004; 158:687-93.
3. **Leung GM**, Ho LM, Lam TH. The economic burden of environmental tobacco smoke in the first year of life. *Arch Dis Child*. 2003;88:767-71.

### Infectious disease epidemiology (Full list and PDF of papers)

1. **Leung GM**, Ho LM, Chan SKK, Ho SY, Bacon-Shone J, Choy R, Hedley AJ, Lam TH, Fielding R. Longitudinal assessment of community psycho-behavioral responses during the 2003 SARS outbreak in Hong Kong. *Clin Infect Dis*. 2005; 40:1713-20.
2. **Leung GM**, Hedley AJ, Ho LM, Chau P, Wong IOL, Thach TQ, Ghani AC, Donnelly CA, Fraser C, Riley S, Ferguson NM, Anderson RM, Tsang T, Leung PY, V Wong, J Chan, Lo SV, Lam TH. The epidemiology of severe acute respiratory syndrome (SARS) in the 2003 Hong Kong epidemic: analysis of all 1,755 patients. *Ann Intern Med*. 2004;141:662-73.
3. **Leung GM**, Rainer TH, Lau FL, Wong IOL, Tong A, Wong TW, Kong J, Hedley AJ, Lam TH for Hospital Authority SARS Collaborative Group. A clinical prediction rule to identify persons who present to an emergency department with severe acute respiratory syndrome during an outbreak. *Ann Intern Med*. 2004;141:333-42.
4. **Leung GM**, Chung PH, Tsang T, Lim W, Chan SKK, Chau P, Donnelly CA, Ghani AC, Fraser C, Riley S, Ferguson NM, Anderson RM, Law YL, Mok T, Ng T, Fu A, Leung PY, Peiris JSM, Lam TH, Hedley AJ. SARS-CoV antibody prevalence in all Hong Kong patient contacts. *Emerg Infect Dis*. 2004;10:1653-6.

### Cancer epidemiology (Full list and PDF of papers)

1. **Leung GM**, Thach TQ, Chan E, Fielding R, Lam WWT, Foo W, Meng O, Hedley AJ, Wong CM, Lam TH. Short-, medium-, long-term and lifetime risks of developing and dying of breast cancer in a westernised

Chinese population: evidence from Hong Kong between 1976 and 2000. *Cancer*. 2004;103:501-8.

2. **Leung GM**, Thach TQ, Lam TH, Hedley AJ, Foo W, Fielding R, Yip PSF, Lau EMC, Wong CM. Trends in breast cancer incidence in Hong Kong between 1973 and 1999: an age-period-cohort analysis. *Br J Cancer*. 2002;87:982-8.

3. **Leung GM**, Lam TH, Thach TQ, Hedley AJ. Will screening mammography in the East do more harm than good? *Am J Public Health*. 2002;92:1841-6.

**Health services and policy research (Full list and PDF of papers)**

1. **Leung GM**, Yeung RYT, Wong IOL, Castan-Cameo S, Johnston JM. Time costs of waiting, doctor-shopping and private-public sector imbalance: microdata evidence from Hong Kong. *Health Policy*. 2005.

2. **Leung GM**, Wong IOL, Chan WS, Choi S, Lo SV on behalf of the Health Care Financing Study Group. The ecology of health care in Hong Kong. *Soc Sci Med*. 2005; 61:577-90

3. **Leung GM**, Castan-Cameo S, McGhee SM, Wong IOL, Johnston JM. Waiting time, doctor-shopping and non-attendance at specialist outpatient clinics: case-control study of 6,495 individuals in Hong Kong. *Med Care*. 2003;41:1293-300.

4. **Leung GM**, Yu PLH, Wong IOL, Johnston JM, Tin KYK. Incentives and barriers that influence clinical computerization in Hong Kong : a population-based physician survey. *J Am Med Inform Assoc*. 2003;10:202-13.

**Evidence-based practice / Medical education (Full list and PDF of papers)**

1. **Leung GM**, Johnston JM, Tin KYK, Wong IOL, Lam WWT, Ho LM, Lam TH. A randomised-controlled trial of clinical decision support tools to improve evidence-based medicine learning in medical students. *BMJ*. 2003;327:1090-3.

2. **Leung GM**, Fielding R, Chan MF, Lee A, Cheng YH, Yu C, Lam TH. The development and evaluation of an integrated community-based, patient-centred learning activity at the University of Hong Kong. *Med Educ*. 2002;36:992-5.

3. **Leung GM**, Lam TH, Hedley AJ. Problem-based public health learning from the classroom to the community. *Med Educ*. 2001;35:1071-2.