# ANNEX 1 CURRICLUM VITAE: WONG MEE LIAN (MPH, MBBS, MD, FAMS, FFPH)

#### A. PERSONAL PARTICULARS



Present Appointment: Associate Professor

Saw Swee Hock School of Public Health

National University of Singapore

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#### **B.ACADEMIC AND PROFESSIONAL QUALIFICATIONS**

2004: Doctor of Medicine (MD), National University of Singapore

1983: MPH, University of Malaya1977: MBBS University of Malaya

1996 (July) Participated in Total Quality Management Course

Johns Hopkins School of Public Health

1993: Participated in Health Care Management Course

(June 21 – Aug 13) on managing health programmes in developing countries.

Harvard School of Public Health

## **Membership of Relevant Professional Bodies**

2009 Fellow (through distinction), Faculty of Public Health, Royal Colleges

of Physicians of the United Kingdom

1993 Fellow, Chapter of Public Health & Occupational Physicians

Academy of Medicine, Singapore

## **C.AWARDS AND HONOURS**

#### Awards -International

2018 Lifetime Achievement Award in Health and Medical Sciences

(Health Promotion and Behavioral Change in STI/ Control),

Venus International Foundation, Chennai. India.

2008 Leader of team who was awarded the Wilf Howe Memorial Prize

by the Faculty of Occupational Medicine, Royal College of Physicians, London for research on condom promotion and prevention of sexually

transmitted infections among brothel-based sex workers in Singapore" This award recognizes an outstanding innovation, initiative or intervention which has delivered a demonstrable health

benefit for a defined working population.

## Awards - Regional and Local

2019 Lifetime Achievement Award, College of Public Health and

Occupational Physicians, Academy of Medicine, Singapore

2014 Red Ribbon Award, 9th Singapore Aids Conference.

Presented by Action For Aids Singapore. This award honors

Individuals who have made significant contributions in research and

the fight against HIV.

2009 Distinguished Friend Award, National Skin Centre, Singapore

Recognition for significant contributions to NSC in translational research - instrumental in helping, the Department of STI Control, NSC, achieve its strategic organizational mission and improvement in Healthcare delivery on HIV/STI prevention among brothel-based sex

workers in Singapore.

1996 Award from Southeast Asian Ministers of Education Organization

(SEAMO). Second best research study: "Women and Sexually Transmitted Diseases: A sustainable intervention to increase condom

use and reduce gonorrhea among sex workers in Singapore".

1989 Rockefeller Foundation's (US) Reflections on Development

Fellowship award, (1989) for research on participatory action research in a Berawan community in Sarawak, Malaysia.

1981-1982 Public Service Department Scholar, Malaysia (MPH)

1972-1977 Federal Government Scholar, MBBS, University of

Malaya

## Awards for teaching

2004 Member, SARS online module team, Special Commendation Award

from NUS for the online module "The Nation's Health: Lessons from

SARS". January 2004.

2000-2001 NUS, Faculty of Medicine Teaching Excellence Award

## D. ADMINISTRATIVE LEADERSHIP ROLES

2013-2015 Program Director,

Singapore National Preventive Medicine Residency Program (Led my team of dedicated associate program directors in implementing measures to improve training and supervision of preventive medicine residents eg development and monitoring of Entrustable Professional Activities, accreditation of NUH and other

hospitals as training sites

2016-2020 Member, Faculty Promotion and Tenure Committee

Saw Swee Hock School of Public Health

2009-2013 Chair, Scholarship Committee

MPH program, Saw Swee Hock School of Public Health

2003-2006 Assistant Dean, Education-Preclinical

Yong Loo Lin School of Medicine, National University of Singapore (Led my team in developing the communication skills course and the first OSCE for final year MBBS examination. Yong Loo Lin School of

Medicine)

#### E. CONSULTANCY AND ADVISORY POSITIONS

#### 1. Membership of editorial boards, scientific committees, conference committees

Scientific track co-chair (2019-2020)

Education and training in behavioral medicine track, August 19-22 2020. 16th International Congress of Behavioral Medicine, Glassgow. Scotland

Round table discussant. Wilton Park conference: Building a stronger HIV prevention movement in Asia. March 6-8 2019

Joint Editor (2009- April 2015)

Sexual Health (International journal based in Australia)

Editorial Board (2016-present)

Journal of Epidemiology and Public Health Reviews (Sci Forschen Journals) Sci Forschen Inc.1525 McCarthy Blvd, Suite 1200, Milpitas, CA 95035, USA

SM Journal of Public Health & Epidemiology (SMJPHE):2016-present SM Online Scientific Resources LLC, # 160 Greentree Drive, Suite 101, Dover, DE 19904, USA.

Advisory Editor (2012-2014).

The Blackwell Encyclopedia of Health, Illness, Behavior and Society

Associate Editor (1992-1997)

Asia-Pacific Journal of Public Health

Scientific reviewer, Research Grant Council of Hong Kong (2012- 2015)

Scientific reviewer, clinical epidemiology.

National Healthcare Group's Thematic Grant, Singapore

Reviewer for following international/regional/local journals:

- BMJ open
- Preventive Medicine
- BMC Public Health
- Journal of American Medical Women Association (JAMWA)
- Health Education Research
- Occupational and Environmental Medicine
- Occupational Medicine
- Asia Pacific Journal of Public Health
- Annals, Academy of Medicine
- Singapore Medical Journal

Chairman, Scientific Sub-committee

Singapore Gateway Event, 18<sup>th</sup> World Conference on Health Promotion and Health Education, 2004

Member, Organizing Committee, National AIDS Conference 2000, Singapore

Member, organizing committee

International Conference on Socio-Cultural and Policy Dimensions of Health Care 20-22 Nov 1999

Member, Scientific Committee, IUVDT World STD/AIDS Congress 1995

Honorary Secretary (1994), Chapter of Community & Occupational Physicians Academy of Medicine, Singapore

## 2. Membership of voluntary welfare and non-governmental organizations

Member, Research Panel, Singapore Cancer Society
 Board Member, the Leprosy Mission International
 Member, Technical Reference Panel, Social Science and Medical Anthropology, the Leprosy Mission International
 Member, Board of Trustees of the National Skin Centre Health Endowment Fund

## 3. International and regional consultancy positions

## International

2016-present International Advisory Board, HIV-TB projects on Key populations in

Thailand

March 2013 External Examiner, PhD Thesis, 'Infertility and Marital Well-Being Among

Infertile, Chinese Couples from Hei Longjiang Province in China'. Curtin

University, Australia

May 2013 External Examiner

PhD Thesis on Sexual Health, University of New England, Australia

June 2007 External Examiner

Master of Science thesis. "Liminality and Risk: Beliefs about HIV/AIDS in Myanmar: Implications for HIV prevention". Flinders University, Australia

2001 Short term WHO consultant to Tonga: to review the Non-communicable

Disease Prevention and Health Promotion Program in Tonga

1990 WHO Temporary Advisor at Joint Meeting on Forest Fringe Malaria of the

Steering Committees of the Scientific Working Groups on Applied Field Research in Malaria and Social and Economic Research, Chiengmai,

Thailand

Regional

2014 Advisor, HIV Stigma education steering committee meeting

Vivo Academy Limited, GSK

2014- present HIV expert in the Asean Region. Advise on education and STI/HIV

prevention for sex workers in ASEAN countries

October 2012 External Examiner

PhD thesis on HIV treatment adherence, University of Malaya

April 2007 External Examiner

Degree of Master of Public Health Year 4 Final Examination,

University of Malaya

April 2005 External Examiner

Degree of Master of Public Health Year 4 Final Examination,

University of Malaya

2003-2004 Consultant on Health Promotion to Ministry of Health, Brunei.

April 2001 External Examiner

Degree of Master of Public Health Year 3 and Master of Medical Sciences

in Public Health Examinations, University of Malaya

1996 - 2000	Consultant, Health education/promotion, Leprosy Mission, Southeast Asia
Local	
2019-2021	Visiting Consultant, Ministry of Defence, SAF Medical Corps
2016-2018	Member, Singapore nurture task force to promote health among children and youth,
2016	Member, Public Education and Stakeholder Engagement Workgroup, Diabetes Prevention and Care taskforce, Ministry of Health, Singapore
2012	Chair, Subcommittee on Education, Review of the National HIV Prevention and Education Program, Singapore.
2010	Chairperson, Clinical Competency Committee, Singapore National Preventive Medicine Residency Program
2008-2012	Member, Wellness Steering Committee, NUS Wellness Program
2007	Faculty Member, Primary Care Academy, National Health Group, Singapore
2007	Member, Ministry of Health's Active Health Management Subcommittee.
2007	Consultant, Youth Health Division, Health Promotion Board, Singapore
2006	Member, National Committee on Smoking Control
2005 -2010	Visiting consultant on HV prevention, Communicable Disease Centre, Tan Tock Seng Hospital
2005-2006	Member, Hospital Education and Training Committee, Tan Tock Seng Hospital
2003 – present	Visiting consultant on STD prevention, National Skin Centre
2003	Medical expert, Subordinate Courts' Mediation Panel, Singapore
2002	Member, Review Panel for National Workplace Health Promotion Training Curriculum, Singapore
2002-2005	Member, Sub-committee to accreditate training in Public Health, Singapore
2000	Member, Scientific Workgroup for revision of Dietary Guidelines Ministry of Health, Singapore
2000	Member, Scientific Workgroup for Clinical Practice Guidelines on Smoking Cessation, Ministry of Health, Singapore
2000	Member, Specialist Training Committee for Public Health Medicine
2000	Member, Workgroup for accreditation of health promoting hospitals
1998-2000	Member, Sub-committee on Health Targets Committee on Healthy Lifestyle, Ministry of Health, Singapore
1998-2000	Member, Resource Panel, NTUC Workplace Health Promotion Program Provide consultation on design, research, and implementation of workplace health promotion programs
1998-1999	Member, Changi General Hospital Community Health Outreach Work Provide consultation on health screening/health education programmes

1997 - 1999 Visiting consultant on Total Quality Management Ang Mo Kio Community Hospital, Singapore

1993 - 1994 Consultant, Centre for Healthy Lifestyle, Singapore Polytechnic (Provide consultation on design and implementation of Health Promotion and Weight Control Programs)

#### F. COMMUNITY SERVICE IN PUBLIC HEALTH

2018 Founded Society of Behavioral Health, Singapore with a few colleagues to promote research, training and best practices in behavioral health in Singapore. The Society currently has 180 members comprising researchers. educators, healthcare administrators and healthcare practitioners such as doctors, nurses and allied health professionals from governmental, private and non-governmental organizations.

> Led my committee in organizing a Regional Forum of Leaders in Behavioral Health in collaboration with the International Society of Behavioral Medicine to discuss development and expansion of Behavioral Medicine/Health in the Asia Pacific Region. We also organized the Society's First Scientific Meeting on 29 September 2018 to promote the application of behavioral science in population health research and practice to improve population health in Singapore.

I secured funding of \$100.000 from Tote Board to conduct Behavioral Health Community Training Programs over a 3-year period (2019-2021) for practitioners, researchers and students interested in behavioral health.

2018-2019 Member of a volunteer community group led by Professor Roy Chan to look into issues related to HIV prevention in Singapore. I led a sub-committee to identify issues in the evaluation of existing programs on HIV prevention in Singapore. I wrote the sub-section "Recommendations for monitoring and evaluating HIV prevention programs in Singapore, with input from team members, which was incorporated into a blue print on HIV prevention in Singapore. The report has been submitted to Ministry of Health, Singapore for further action.

> Advisor to a non-governmental organization, The Siem Reap Citizens Organization for Health, Educational and Social Issues (SIRCHESI). Help them develop STI/HIV prevention programs for female entertainment workers, married women and heterosexual men. Conducted training to health staff from the Provincial Health Office, Siem Reap, Cambodia on needs assessment, behavioral and health promotion interventions and evaluation of STI/HIV prevention programs for female entertainment workers.

Invited by Professor Ian Lubek, Founder of, SIRCHESI and Professor of Community Psychology, Guelph University, Canada to adapt the successful Singapore HIV/STI and condom promotion program for brothel-based sex workers to indirect sex workers in Siem Reap, Cambodia.

Volunteer, the Leprosy Mission International. Conducted training on Community development, health promotion and quality improvement of Leprosy prevention and control programs for their staff in India, Bangladesh, China and Indonesia.

2001-2017

1994-2003

#### G. TEACHING AND TRAINING EXPERIENCE

30 years' experience in teaching and coordinating modules on health promotion and behavioral interventions at the National University of Singapore. Also taught Health Promotion in the NUS Initiative to Improve Health in Asia (NIHA) Healthcare Leadership Program

# 1. Supervision of Postgraduate/ graduate research students (exclude MPH students) Main supervisor: PhD/M.Sc research students who graduated from SSHSPH

- PhD Raymond: Efficacy of a Health Promotion and Sexually Transmitted Infection (STI) Prevention Program for Entertainment Establishments (EE) in Singapore Awarded Wang Gungwu Medal and Prize for the best PhD thesis in the Social Sciences/Humanities 2018
- 2. PhD Junice Ng. Planning and evaluation of an abstinence and safer sex intervention programfor adolescents attending the public STI Clinic in Singapore, 2016.
- 3. PhD Moy Foong Ming: Promoting healthy lifestyle at the worksite
- 4. PhD Foo Ling Li: Sexual Risk Behaviour and Condom Use: A Study among Heterosexuals in the General Population of Singapore
- 5. MSc Arash Pooya: Health-related knowledge, attitudes and practices among parents of children aged 10 17 years, Singapore.
- 6. MSc Padmini: Community knowledge, beliefs and attitudes on leprosy in Ang Mo Kio, Singapore.
- 7. MSc Thiyagarajan: Health care seeking behavior of patients attending an STI clinic in Singapore
- 8. MSc Sharon: Paying for sex and using condoms: Determinants of inconsistent condom use among clients of female sex workers in Singapore

## Main supervisor: current PhD students

- 9. Guo Huiling: Antibiotic use in the community
- 10. Lim Tian Zhi: Colorectal cancer screening

**Co-supervisor:** Department of Social Work, Faculty of Arts and Social Science. NUS 11. PhD - Ho Lai Peng: Social and health care needs of HIV patients

#### 2. Regional and International experience in training

Conducted training on health promotion, behavior change and HIV/STI prevention to doctors and other health professionals from Ministry of Health, universities, government and non-government agencies in the following countries

- 1. Bangladesh 1994 1996
- 2. Hong Kong -2000.
- 3. Cambodia-2000-2012
- 3. Brunei 2003/2004
- 4. Malaysia -2005
- 5. China 2006, 2008, 2017
- 6. Myanmar 2006
- 7. India -2009

## Contributions to published cases, textbooks, and other teaching materials

My research publications on the application of the PRECEDE PROCEED Health Promotion Framework to prevent HIV/STIs among sex workers were cited as references and resource materials for instructors and researchers in the book "Health Programme Planning: an educational and ecological approach, 4<sup>th</sup> Edition (New York:McGraw-Hill,2005). They have also been cited and published in the following international books:

- Crosby, R. A., DiClemente, R. J., & Salazar, L. F. (Eds.) (2006). Research methods in health promotion. San Francisco: Jossey-Bass.
- Mac MacLachlan (ed). Cultivating Health: Cultural perspectives on promoting Health. Chichester: John Wiley & Sons. 2000: 199-226.
- Burchanan D. Progress in Preventing AIDS? Dogma, Dissent and Innovation: Global Perspectives. New York: Baywood Pub. Co.,1998;

My journal publication on the sustainability of condom promotion programs for vaginal and oral sex among sex workers in Singapore is being used by the University of Michigan School Of Public Health for teaching PhD students in a Research Seminar to illustrate the design and evaluation of STI prevention interventions for sex workers.

#### H. RESEARCH EXPEREINCE

Citations (google scholar) 4061 H-index 30 i10-index 72

More than 130 publications, with many published in leading international journals such as AIDS, American Journal of Public Health, Pediatrics, Sexually Transmitted Infections, Sexually Transmitted Diseases, 2 monographs, 6 international book chapters

#### **Publications in Peer Reviewed Journals**

- Lim RBT, Wee WK, For WC, Ananthanarayanan JA, Soh YH, Goh LML, Tham DKT, Wong ML. Correlates, facilitators and barriers of physical activity among primary care patients with prediabetes in Singapore - a mixed methods approach. BMC Public Health. 2020 Jan 2;20(1):1. doi: 10.1186/s12889-019-7969-5
- Lim RBT, Wee WK, For WC, Ananthanarayanan JA, Soh YH, Goh LML, Tham DKT, Wong ML.Health education and communication needs among primary care patients with prediabetes in Singapore: A mixed methods approach. Prim Care Diabetes. 2019 Sep 23. pii: S1751-9918(19)30116-0. doi: 10.1016/j.pcd.2019.08.008
- 3. Aw S, Koh GCH, Tan CS, **Wong ML**, Vrijhoef HJM, Harding SC, Geronimo MAB, Hildon ZJL.Exploring the implementation of the Community for Successful Ageing (ComSA)program in Singapore: lessons learnt on program delivery for improving BioPsychoSocial health. BMC Geriatr. 2019 Oct 30;19(1):263. doi: 10.1186/s12877-019-1271-3.
- 4. Aw S, Koh GCH, Tan CS, Wong ML, Vrijhoef HJM, Harding SC, Geronimo MAB, Hildon ZJL.Theory and Design of the Community for successful ageing (ComSA) program in Singapore: connecting BioPsychoSocial health and quality of life experiences of older adults. BMC Geriatr. 2019 Oct 9;19(1):254. doi: 10.1186/s12877-019-1277-x.
- 5. Uijtdewilligen L, Waters CN, Aw S, **Wong ML**, Sia A, Ramiah A, Wong M, Müller Riemenschneider F.The Park Prescription Study: Development of a community-based physical activity intervention for a multi-ethnic Asian population. PLoS One. 2019 Jun 11;14(6):e0218247. doi: 10.1371/journal.pone.0218247.
- 6. Teo AKJ, Prem K, Chen MIC, Roellin A, **Wong ML**, La HH, Cook AR Estimating the size of key populations for HIV in Singapore using the network scale-up method.Sex Transm Infect. 2019 May 9. pii: sextrans-2018-053747. doi: 10.1136/sextrans-2018-053747.
- 7. Lim RBT, Wee WK, For WC, Ananthanarayanan JA, Soh YH, Goh LML, Tham DKT, **Wong ML.\*** Correlates, Facilitators and Barriers of Healthy Eating Among Primary Care Patients with Prediabetes in Singapore-A Mixed Methods Approach. Nutrients. 2019 May 6;11(5). pii: E1014. doi: 10.3390/nu11051014.
- 8. Lim RBT, Tham DKT, Cheung ON, Adaikan PG, **Wong ML**.\*A Public Health Communication Intervention Using Edutainment and Communication Technology to Promote Safer Sex among Heterosexual Men Patronizing Entertainment Establishments. J Health Commun. 2019;24(1):47-64. doi: 10.1080/10810730.2019.1572839. Epub 2019 Jan 30.
- Lim RBT, Cheung ONY, Tham DKT, La HH, Win TT, Chan R, Wong ML\* Using qualitative and community-based engagement approaches to gain access and to develop a culturally appropriate STI prevention intervention for foreign female entertainment workers in Singapore. Global Health. 2018;14(1):36. doi: 10.1186/s12992-018-0358-5.
- Wong ML, Teo AKJ, Tai BC, Ng AMT, Lim RBT, Tham DKT, Kaur N, Tan RKJ, Kros S, Touch S, Chhit M, Lubek I.Trends in unprotected intercourse among heterosexual men before and after brothel ban in Siem Reap, Cambodia: a serial cross-sectional study (2003-2012). BMC Public Health. 2018; 3. 7;18(1):411. doi: 10.1186/s12889-018-5321-0.
- 11. Lau LC, Adaikan PG, Vathsala A, Srilatha B, **Wong ML,** Tan CS, Deng X, Sran HK, Koh LH, Ma V. Clinical Prevalence and Associated Factors of Erectile Dysfunction in Patients Undergoing haemodialysis. Ann Acad Med Singapore. 2018; 47(2):78-81.

<sup>\*</sup>Senior/correspondence author

- 12. Tan KK, Lopez V, **Wong ML**, Koh GC. Uncovering the barriers to undergoing screening among first degree relatives of colorectal cancer patients: a review of qualitative literature. J Gastrointest Oncol. 2018 Jun;9(3):579-588. doi: 10.21037/jgo.2018.03.
- 13. Tan KK, Lim TZ, Chew E, Chow WM, Luo N, **Wong ML**, Koh GC .Screening in spouses of colorectal cancer patients: a missed opportunity. Int J Colorectal Dis. 2018 Feb 15. doi: 10.1007/s00384-018-2975-0.
- 14. Raymond B T Lim, Olive N Y Cheung, Bee Choo Tai, Mark I-C Chen, Roy K W Chan,, Mee Lian Wong.\* Efficacy of multicomponent culturally tailored HIV/STI prevention interventions targeting foreign female entertainment workers: a quasi-experimental trial Sex Transm Infect 2018;0:1–8. doi:10.1136/sextrans-2017-053203
- Junice Ng, Roy KWC, Martin TWC, Raymond LBT, David K, Mee Lian Wong\*, An abstinence and safer sex intervention for adolescents attending the public STI clinic in Singapore: 12-month randomized controlled trial. Journal of Adolescent Health 2018 Apr 13. pii: S1054-139X(18)30009-0. doi: 1016/j.jadohealth.2017.12.014.
- Aw S, Koh G, Oh YJ, Wong ML, Vrijhoef HJM, Harding SC, Geronimo MAB, Lai CYF, Hildon ZJL. Explaining the continuum of social participation among older adults in Singapore: from 'closed doors' to active ageing in multi-ethnic community settings. J Aging Stud. 2017; 42:46-55. doi: 10.1016/j.jaging.2017.07.002.
- 17. Cook AR, Hartman M, Luo N, Sng J, Fong NP, Lim WY, Chen MI, **Wong ML**, Rajaraman N, Lee JJ, Koh GC. Using peer review to distribute group work marks equitably between medical students. BMC Med Educ. 2017 20;17:172. doi: 10.1186/s12909-017-0987-z.
- 18. **Wong ML**, Y S Ng J, K W Chan R, T W Chio M, B T Lim R, Koh D. Randomized controlled trial of abstinence and safer sex intervention for adolescents in Singapore: 6-month follow-up. Health Educ Res. 2017 Jun 1;32(3):233-243.
- 19. Lim RBT, Tham DKT, Tai BC, Adaikan PG, **Wong ML\***. Efficacy of Human Immunodeficiency Virus/Sexually Transmitted Infection Trial on Condom Use Among Heterosexual Men Patronizing Entertainment Establishments Who Engaged in Casual or Paid Sex in Singapore. Sex Transm Dis. 2017 Sep;44(9):539-546.
- Ng JYS, Wong ML\*. Risky sexual behaviors among Malay adolescents: a comparison with Chinese adolescents in Singapore. Ethn Health. 2017 Jul 1:1-10. doi:10.1080/13557858.2017.1346185.
- 21. Lim RBT, Tham DKT, Müller-Riemenschneider F, **Wong ML\***. Are University Students in Singapore Meeting the International and National Recommended Daily Servings of Fruits and Vegetables? Asia Pac J Public Health. 2017 Apr;29(3):199-210.
- 22. Tan KK, Lim TZ, Chan DKH, Chew E, Chow WM, Luo N, Wong ML, Koh GC. Getting the first degree relatives to screen for colorectal cancer is harder than it seemspatients' and their first degree relatives' perspectives. Int J Colorectal Dis. 2017;32(7):1065-1068.
- 23. Lim RB, Tham DK, Cheung ON, **Wong ML\***. Efficacy of Human Immunodeficiency Virus/Sexually Transmitted Infection Prevention Interventions Targeting Female Entertainment Workers: A Systematic Review and Meta-analysis. AIDS Behav. 2017; 21:2341-2361. doi: 10.1007/s10461-016-1600-x.
- 24. Lim RB, Wong ML\*, Cheung ON, Tham DK, Tai BC, Chan R. Factors associated with consistent condom use and STIs among foreign female entertainment workers: results from a cross-sectional survey in Singapore. Sex Transm Infect. 2017 Mar; 93:118-124. doi: 10.1136/sextrans-2015-052530.
- 25. Lim RB, Tham DK, Cheung ON, Tai BC, Chan R, **Wong ML\*** What are the factors associated with human immunodeficiency virus/sexually transmitted infection screening behaviour among heterosexual men patronising entertainment establishments who engaged in casual or paid sex? Results from a cross-sectional survey in an Asian urban setting. BMC Infect Dis. 2016 Dec 19;16(1):763.
- 26. Ng JY, **Wong ML**\* Determinants of Heterosexual Adolescents Having Sex with Female Sex Workers in Singapore. PLoS One. 2016 Jan 25;11(1):e0147110. doi: 10.1371.
- 27. Lim RB, **Wong ML\***, Tan PH, Govender M. Heterosexual men who patronise entertainment establishments versus brothels in an Asian urban setting which group practises riskier sexual behaviours? BMC Public Health. 2015 Aug 14;15(1):1-7. doi: 10.1186/s12889-015-2132-46.

- 28. Raymond BT Lim., **Wong ML\***, Alex Richard Cook, Cyrille B, Roy KW Chan, Priya Sen, Martin Chio. Determinants of chlamydia, gonorrhea and co-infection in heterosexual adolescents attending the national public sexually transmitted infection clinic in Singapore Sexually Transmitted Diseases 2015 Aug;42(8):450-6.
- 29. Junice YS Ng, **Wong ML\***, Roy KW Chan, Priya Sen, Martin TWC, D Koh. Gender differences in factors associated with anal intercourse among heterosexual adolescents in Singapore. AIDS Edu and Prev 2015. 27(4):373-85.
- Wong ML, Koh TT, Tjahjadi S, Govender M. Men seeking sex online practise riskier sexual behaviours than men frequenting brothels: survey findings from Singapore. Sex Transm Infect. 2014 Aug;90(5):401-7.
- 31. Reuben K. Wong, **Wong ML**\* Yiong H. Chan, Zhu Feng, Chun Tao Wai, Khay Guan Yeoh, Barriers, Misconceptions and the Lack of Physicians Recommendation Account for Poor Screening Uptake in Colorectal Compared With Cervical Cancer: Findings of a National Population Representative Survey. Gastroenterology 2014; 146: 5: S-162
- 32. Koh YH, **Wong ML**, Jeannette Lee. Medical students' reflective writing about a task based learning experience on public health communication. Medical Teacher 2014; 36 (2):121-9.
- 33. Lubek I, Lee H, Kros S, **Wong ML**, Van Merode T, Liu J, McCreanor T, Idema R, Campbell C. HIV/AIDS, beersellers and critical community health psychology in Cambodia: a case study.J Health Psychol 2014; 19 (1):110-6.
- 34. Peltzer K, Pengpid S, Samuels TA, Özcan NK, Mantilla C, Rahamefy OH, **Wong ML**, Gasparishvili A. Prevalence of overweight/obesity and its associated factors among university students from 22 countries.Int J Environ Res Public Health. 2014 Jul 21;11(7):7425-41. doi: 10.3390/ijerph110707425.
- 35. Lee W, Neo A, Tan S, Cook AR, **Wong ML**, Tan J, Sayampanathan A, Lim D, Tang SY, Goh WL, Chen MI, Ho C. Health-seeking behaviour of male foreign migrant workers living in a dormitory in Singapore.BMC Health Serv Res. 2014 Jul 10;14:300. doi: 10.1186/1472-6963-14-300.
- 36. Seetoh T, Siew WF, Koh A, Liau WF, Koh GCh, Lee JJ, **Wong ML**, Seow A. Overcoming Barriers to Mammography Screening: A Quasi-randomised Pragmatic Trial in a Community-based Primary Care Setting. Ann Acad Med Singapore. 2014 Dec;43(12):588-94.
- 37. Chua AC, Chen MI, Cavailler P, Jiang L, Abdullah MR, Ng OT, Chio M, Koe S, Tay J, Wong ML, Chan R. Challenges of respondent driven sampling to assess sexual behaviour and estimate the prevalence of human immunodeficiency virus (HIV) and syphilis in men who have sex with men (MSM) in Singapore. Ann Acad Med Singapore. 2013;42:350-3.
- 38. **Wong ML,** Chan RK, Tan HH, Sen P, Chio M, Koh D. Gender Differences in Partner Influences and Barriers to Condom Use Among Heterosexual Adolescents Attending a Public Sexually Transmitted Infection Clinic in Singapore. J Pediatr 2013;162:574-80
- 39. Wong RK, **Wong ML**, Chan YH, Feng Z, Wai CT, Yeoh KG. Gender differences in predictors of colorectal cancer screening uptake: a national cross sectional study based on the health belief model BMC Public Health. 2013 Jul 23;13:677.
- 40. Hu Yun, **Wong ML**, Prema V, Wong ML, Fong NP, Tsai FF, Vijaya K. Do parents talk to their adolescent children about sex?-Findings from a community survey in Singapore. Ann Acad Med Singapore 2012: 41:239-46.
- Wong ML, Priya Sen, CM Wong, Sylvia Tjahjadi, Mandy Govender Koh TT, Zarina Yusof, Chew L, Avin Tan Vijaya K Human Immunodeficiency Virus (HIV) Prevention Education in Singapore: Challenges for the Future Ann Acad Med Singapore 2012;41:602-9.
- 42. **Wong ML**, Roy Chan KW, Tan HH, Eunice Yong, Lionel Lee, Jeffrey Cutter, Joanne Tay, David Koh. Sex work and risky sexual behaviors among foreign entertainment workers in urban Singapore: findings from mystery client survey. Journal of Urban Health 2012; 89:1031-1044.
- 43. Gwee KA, Siah KT, Wong RK, Wee S, **Wong ML**, Png DJ. Prevalence of disturbed bowel functions and its association with disturbed bladder and sexual functions in the male population. J Gastroenterol Hepatol. 2012 Nov;27(11):1738-44.
- 44. Lee H, Pollock G, Lubek I, Niemi S, O'Brien K, Green M, Bashir S, Braun E, Kros S, Huot V, Ma V, Griffiths N, Dickson B, Pring N, Sohkurt Huon-Ribeil K, Lim N, Turner J, Winkler C, **Wong ML**, Van Merode T, Dy BC, Prem S, Idema R. Creating new career pathways to reduce poverty, illiteracy and health risks, while transforming and

- empowering Cambodian women's lives. J Health Psychol. 2010 Oct;15(7):982-92. Epub 2010 Jul 8.
- 45. Mohamad Rosman, Wong TY, Wong WL, **Wong ML**, Saw SM. Knowledge and Beliefs Associated with Refractive Errors and Undercorrection: The Singapore Malay Eye Study. British Journal of Ophthalmology 2009; 93:4-10.
- 46. Marian Pitts, Anthony Smith, Samantha Croy, Anthony Lyons, Richard Ryall], Suzanne Garland, **Mee Lian Wong**, Tay Eng Hseon. Singaporean men's knowledge of cervical cancer and human papillomavirus (HPV) and their attitudes towards HPV vaccination. Vaccine 2009; 27:2989-2993.
- 47. Pitts M, Smith A, Croy S, Lyons A, Ryall R, Garland S, **Wong ML**, Tay EH. Singaporean women's knowledge of human papillomavirus (HPV) and attitudes toward HPV vaccination. Women Health. 2009 Jun;49(4):334-51.
- 48. **Wong ML**, Chan RKW, D Koh, Tan HH, Lim FS, Emmanuel S, Bishop G. Premarital sexual intercourse among adolescents in an Asian country: multilevel ecological factors. Pediatrics 2009; 124(1):e44-52.
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#### Monographs

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- 2. Wong ML, R Chan, Koh DSQ, J Lee. SEAMEO Jasper Fellowship Monograph: Sustainable Intervention to increase condom use and reduce gonorrhoea among sex workers in Singapore .SEAMEO Jasper Fellowship Monograph, Series 3&4. Bangkok: Southeast Asian Ministers of Education Secretariat, 1997. 17 pp.

## **Book chapters**

- Wong ML. The Berawans in Sarawak, Malaysia. In Osteria T (ed) Women in Community Development. Singapore: Institute of Southeast Asian Studies, 1991: 10-31
- Wong ML, Chan R, Koh D, Wong CM. Theory and action for effective condom promotion. Illustrations from a behaviour intervention project for sex workers in Singapore. In Burchanan D and Cernada G (eds) Progress in Preventing AIDS? Dogma, Dissent and Innovation: Global Perspectives. New York: Baywood Pub. Co.,1998: 243-258.
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- 4. Bishop GD and **Wong ML**. Designing sustainable health promotion: STD and HIV Prevention in Singapore In Mac MacLachlan (ed). Cultivating Health: Cultural perspectives on promoting Health. Chichester: John Wiley & Sons. 2000: 199-226.
- 5. Lubek I, **Wong ML**. Sites, camera, action: Contemplating the relations among theory, Lewinian "action research" and a community health intervention while touring the Angkor Wat temples. In N. Stephenson, L. Radtke, R. Jorna and H. Stam (Eds). Issues in Theoretical Psychology. Toronto: Captus Press. 2003: 348-357.
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## Invitation to speak at international conferences, 2018

Invited speaker, University of Iowa, USA

Colloquium Series Seminar "Breast Cancer Meanings: Journeys across Asia" 23 April 18 Qualitative study on Breast Cancer Screening among Malay women in Singapore: Implications for Public Health Approaches to Promote Screening

Plenary speaker, Vancouver, Canada.

World Conference on STIs/STDs and HIV/AIDS, 26 -27 July 17,

HIV/STI prevention interventions for sex workers in Singapore: impact, challenges and lessons learned from 2 decades of research

Symposium speaker, Singapore

2nd Singapore International Public Health Conference, 29-30 Sep 16

Promoting Adolescent Sexual Health: Impact of a 12-month Randomized Controlled Trial in Singapore

## I. LIST OF RESEARCH GRANTS

	PROJECT TITLE	Sources NMRC/WBS NO.	TOTAL VALUE (S\$) Project date		
AS	AS PRINCIPAL INVESTIGATOR: \$1,913,694.58				
1	Promoting breast cancer screening in Malay- Muslim Women in Singapore: a needs assessment community-based survey and a cluster- randomized community trial	Asian Breast Cancer Research Fund R-608-000-004-720	\$100,000 June 18 to Dec 21		
2.	Qualitative study on health seeking behavior for breast cancer and breast cancer screening among Malay women in Singapore	Asian Breast Cancer Research Fund R-608-000-004-720	\$11,300 Sep 17-Sep19		
3	Efficacy of a Health Promotion and STI Prevention Program for Entertainment Establishments in Singapore	MOH Communicable Disease Public Health Research Grant R_608-000-092-511	\$ 566,830 Sep 13 – Sep 17		
4	STI/HIV/AIDS Risks related to Heterosexual Behaviours of Singaporean Men	Health Promotion Board R-186-000-135-490	\$128,300 Mar 11- Mar 13		
5	A Randomized Controlled Trial of an STI/HIV/AIDS Prevention Intervention for Adolescents Attending a Public STI Clinic in Singapore	National Medical Research Council Singapore R-186-000-110-213	\$582,400 Nov 08 –Dec 2014		
6	HIV risks, condom use and health-seeking behaviour among indirect sex workers based in non-brothel entertainment establishments in Singapore	Ministry of Health/ Department of STI Control (DSC) R 186-000-101-592	\$66,600 Jan – Dec 08		
7	Health-related perceptions, attitudes and practices among parents of children aged 4-17.	Health Promotion Board 186-000-100-495	\$140,461.58 April 08 - Mar 09		

8	Sexually transmitted infections and high risk sexual behaviors among adolescents in Singapore	NMRC/1013/2005 R 186-000-081-213	\$66,053 Mar 06 to Feb 08		
9	A Qualitative Study of Attitudes and Risk- Reduction Behaviours of Women With HIV- Positive Partners	Association of Women for Action and Research R 186-000 -082-592	\$16,250 Aug 06 -08		
10	Sexually transmitted diseases and their associated risk behaviours among clients of female sex workers in Singapore	NMRC R 186-000-047-213	\$72,700 Jan 01 - Dec 03		
11	Cost-effectiveness and sustainability of a peer- led intervention to increase condom use among brothel-based commercial sex workers in Singapore	NMRC RP 3960359/N	\$100,000 Jan 97 - Mar 2000		
11	Health Promotion among the elderly in Singapore'	NMRC RP 3960358/N	\$43,000 Jan 97 - 99		
12	Developing condom negotiation skills among prostitutes'	Action for AIDS, Singapore	\$19,800. Aug 93 - 94		
		TOTAL	\$1,913,694.58		
AS	AS MENTOR				
1	Lifestyle behavioural risk assessment, health education and health communication needs of pre-diabetics seeking care at polyclinics PI: Lim Boon Tar (my PhD student)	Saw Swee Hock School of Public Health	\$100,000 Aug 16 – Feb 18		
AS	AS CO-INVESTIGATOR: \$2,048,037				

Beyond surviving colorectal cancer: how cancer survivors can influence the attitudes of their family members towards screening and play a role to support those with cancer family  PI: Tan Ker Kan, Department of Surgery, NUHS, NUS.  Co-investigators	NMRC	\$1,900,000 May 17 –May 20
Size Estimation of Key Populations for HIV in Singapore PI: Dr Hanh La	Health Promotion Board	\$28,037 Feb –July 2017
Clinical prevalence and associated factors of erectile dysfunction in uremia PI: Adaikan Ganesan	Venerable Yen Pei- NKF Research Fund	\$50,000 Jan 11-June 2013
Confronting HIV/AIDS in Siem Reap, Cambodia:Co-ordinating a multi-sectoral approach between a local Cambodian NGO (SiRCHESI) and Canadians.  PI: Professor Ian Lubek, Department of Psychology University of Guelph University, Canada	M.A.C. AIDS Fund	\$50,000 Dec 03 Nov, 2004
Confronting HIV/AIDS in Siem Reap, Cambodia A multi-sectoral approach	Elton John AIDS Foundation	\$20,000 Jan 2001- June 2002
	TOTAL	\$2,048,037

#### J. RESEARCH COLLABORATION WITH INTERNATIONAL UNIVERSITIES

2013-2016 Invited by the University of Limpopo, South Africa to participate in a 23-

country study on the health behaviors of undergraduate university students in low and middle income countries. The study has been completed and a

number of papers have been published.

2000-2016 Collaborated with a community psychologist from Guelph University and his

multidisciplinary team from Staffordshire University, UK, University of Maastricht, Netherlands and University of Wellington, New Zealand to develop and evaluate HIV prevention interventions for sex workers and other

high risk groups in Cambodia.

#### K. IMPACT OF MY RESEARCH: 1990-2019

## 1. HIV/STI prevention for sex workers

Research by me and my team on STI prevention for brothel-based sex workers in Singapore between 1990 and 1994 led to a sustained increase in condom use of more than 95% and a corresponding marked decline in sexually transmitted infections. This project was scaled up to all brothel-based sex workers in Singapore in 1995. The effects were sustained, and from 1996 till now, no HIV case has been reported among the sex workers.

My research on this target group has been recognized in a number of awards, including the Red Ribbon award by Action for AIDS, Singapore, 2014; Wilf Howe Memorial Prize 2008, Royal College of Physicians, London, for outstanding innovative intervention in HIV/STI prevention with a demonstrable health benefit, the SEAMEO-JASPER fellowship award for second best research on women and health, and a citation in the UN AIDS 2006 Report of the global AIDS epidemic as an example of a successful HIV prevention intervention program. I have also been consulted by programmes in Cambodia, India and China to provide training and consultation on HIV/STI prevention for sex workers.

Recently, my team and I had developed and implemented interventions for female entertainment workers. It led to an increase in condom use for both casual and transactional sex and a reduction in acute STIs by 58%. The intervention developed by us for heterosexual men patronizing entertainment establishments also increased condom use for both casual and transactional sex. The findings were presented to MOH Senior Management and to the panel of the Public Health Research Grant for Infectious Diseases. Plans to conduct surveillance of these entertainment workers are being discussed.

## 2.STI prevention among adolescents

Findings from my research on adolescent sexual health were used by the Curriculum Development and Child Guidance Unit, Ministry of Education (MOE) in 2012 to plan and justify for a new comprehensive school sexuality education program. I was also invited by MOE to present my research findings to the Board of Governors and Principals of Catholic Schools and religious leaders from different faiths, to persuade them and gain their acceptance of the refreshed sexuality education program for schools

My 1-year RCT of a behavioral intervention in sexually active adolescents in Singapore was the first trial to be conducted in a clinic setting in Asia, and the first to report an almost 2-fold increase in secondary abstinence with a 40% overall decrease in STIs. Harbin School of Public Health, China invited me to help them implement a similar project in schools and universities in Harbin Province.

## 3. Media coverage of my research

调查: 糖尿病前期患者中 已婚人士更注重饮食健康 (Study: Married individuals among prediabetic patients pay more attention to dietary health), Lianhe Zaobao, 1 January 2020

http://www.straitstimes.com/singapore/counselling-dissuades-young-men-from-sex-study The Sunday Times June, 18, 2017

https://www.straitstimes.com/singapore/more-teenage-boys-paying-for-sex-study More teenage boys paying for sex: Study. The Sunday Times, April; 10, 2016

https://www.straitstimes.com/singapore/allure-of-paid-sex-for-teenage-boys

The Sunday Times, April, 10, 2016

The media coverage generated high awareness and raised concerns among doctors, social workers, parents, religious groups and family-related organizations e.g. Singapore Children's Society, Family Life Society of the need for sexuality education for teenagers and parent –child communication on values and sexuality

https://today.mims.com/topic/sexually-transmitted-infections-amongst-singaporean-teenagers

https://ifonlysingaporeans.blogspot.com/2014/12/world-aids-day-2014.html AT THE FRONT LINE. Promoting condom use among sex workers

The Sunday Times, 30 Nov 2014

http://newshub.nus.edu.sg//news/1211/PDF/RISKY-st-18nov-p10.pdf
Young, educated and engaging in risky sex, Straits Times, 18 November 2012

http://newshub.nus.edu.sg//news/1211/PDF/SEX-lhzb-18nov-p12.pdf
Safe sex awareness low for men seeking sex online, Lianhe Zaobao, 18 Nov 2012

Premarital Sexual Intercourse among Adolescents in an Asian Country: Multilevel Ecological Factors. News Clipping aired on Channel U and Channel 8.

https://www.todayonline.com/voices/married-women-also-risk-hivaids Married women also at risk of HIV/AIDS., TODAY, 7 December 2013