HONG KONG PUBLIC HEALTH FORUM 2014

The Role of the Generalist in Public Health - A Tribute to Professor Anthony J Hedley

The Forum will feature some of the most important pillars of Professor Anthony J Hedley’s (Head of our esteemed Department of Community Medicine 1989-2003) research, with keynote speech and plenary discussion by leading scholars and practitioners in the field.

8 December 2014
Monday
2:00 pm - 6:15 pm
Lecture Theatres 3-4, Cheung Kong Hui Conference Centre
William MW Mong Block, Li Ka Shing Faculty of Medicine Building
21 Sassoon Road, Pokfulam, Hong Kong

Guest-of-Honour:

Prof Anthony J Hedley
Emeritus Professor
School of Public Health, HKU

The Anthony J Hedley Lecture
Keynote Speaker:

Prof Gabriel M Leung
Dean
LKS Faculty of Medicine, HKU

Prof Ross Anderson
Professor in Epidemiology & Public Health
King’s College London

Panel Keynote Speakers:

Prof David Simpson
Honorary Professor
Faculty of Public Health and Policy,
London School of Hygiene & Tropical Medicine

Prof Ray Jones
Professor of Health Informatics,
School of Nursing and Midwifery,
Faculty of Health & Human Sciences,
University of Plymouth

2:05 pm - 2:55 pm
AIR POLLUTION
The burden of disease due to air pollution: current knowledge and remedial gaps

Keynote Speaker

Prof Ross Anderson
Professor in Epidemiology & Public Health, King’s College London

Panelists

Prof Peter Brindle
Assistant Dean (Research and Postgraduate Education) and Chair, Chair, Professor of Atmospheric Environment, School of Energy and Environment, City University of Hong Kong
Prof Anthony J Hedley
Emeritus Professor, School of Public Health, HKU
Ma Christina Lin
Undersecretary for the Environment, HKGAP Government
Dr Chi-ming Wong
Associate Professor, School of Public Health, HKU

Moderator

Mr Simon Ng
Chief Research Officer, Civil Exchange

2:55 pm - 3:45 pm
TOBACCO CONTROL
Tobacco use in Hong Kong: the evidence-based tale of yesteryear

Keynote Speaker

Prof David Simpson
Emeritus Professor, Faculty of Public Health and Policy, London School of Hygiene & Tropical Medicine

Panelists

Prof Sophie Chan
Under Secretary for Food and Health, HKGAP Government
Prof Anthony J Hedley
Emeritus Professor, School of Public Health, HKU
Prof Indrich Mackay
Director, Asia Consultancy in Tobacco Control
Prof Allister Woodruff (via Skype)
Professor of Epidemiology and Biostatistics, School of Population Health,
The University of Auckland

Moderator

Prof Tai-chung Lam
Dean Professor, School of Public Health, HKU

4:00 pm - 4:50 pm
HEALTH SERVICES RESEARCH
How should we assess the impact and value of health services research?

Keynote Speaker

Prof Ray Jones
Professor of Health Informatics, School of Nursing and Midwifery, Faculty of Health & Human Sciences, University of Plymouth

Panelists

Prof Anthony J Hedley
Emeritus Professor, School of Public Health, HKU
Dr Awadil Xu
Director of Strategic Planning, Hospital Authority
Prof Sarah McGhee
Honorary Professor, School of Public Health, HKU
Prof Sir David Spiegelhalter (via Skype)
Professor of Risk Understanding at the University of Cambridge

Moderator

Dr Hong Fong
President, Hong Kong College of Community Medicine

5:15 pm - 6:00 pm
THE ANTHONY J HEDLEY LECTURE

Enquiries
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Welcome Messages

Message from the Dean, Li Ka Shing Faculty of Medicine

Welcome to the University of Hong Kong Public Health Forum 2014: The Role of the Generalist in Public Health – A Tribute to Professor Anthony J. Hedley.

The Forum this year focuses on three areas of public health research – air pollution, tobacco control and health services as a tribute to Professor Anthony J. Hedley, Emeritus Professor of The University of Hong Kong and our Head of the erstwhile Department of Community Medicine 1988 - 2000. For his towering achievements in advancing the research, advocacy and education in these fields.

As a renowned generalist in public health, Professor Hedley has set new directions of research on air pollution, tobacco control and health services. His discoveries have informed government policies and community campaigns, making important contributions in building a cleaner environment and a healthier Hong Kong population. Professor Hedley has played a pivotal role in leading the development of the Hedley Environmental Index, which is still being frequently and widely employed by the public as a useful indicator for air quality and the economic costs incurred by different levels of air pollution in Hong Kong.

It is in this academic, public health and the community continues in Professor Hedley's pioneering work to enhance public health. Air pollution remains an issue to our health and well-being, tobacco control is still a public concern, and health services can be continuously improved. I am therefore delighted that this Forum has gathered local and overseas professionals, as well as government officials, to exchange views, share experiences and explore new directions of research. I believe that our collective efforts will contribute to the well-being of the population and the sustainable development of society.

Finally, I would like to thank the Organising Committee for their hard work, and all the speakers and participants for attending this Forum. I hope that you will enjoy a rewarding experience and a memorable tribute to Professor Anthony J. Hedley.

Professor Gabriel Leung

Message from the Dean, Li Ka Shing Faculty of Medicine

The Call for Proposals for the 2014 Public Health Forum encourages practitioners as generalists who have the skills to address the spectrum of health influences. Nowadays where super-specialisms increasingly dominate the health sciences landscape, this is a threatened vision. Yet it has never been more important. Since retirement in 2010, Tony has continued to contribute to the development of public health in Hong Kong through the Trebukel's Environmental Health and its leverages to include a robustly evidenced paradigmatic public health philosophy.

Tony had a unique and historical role in the development of the HDI as an index to measure environmental health and its impact on public health. This environmental index has been frequently and widely employed by the public as a useful indicator for air quality and the economic costs incurred by different levels of air pollution in Hong Kong.

As Head of our erstwhile Department of Community Medicine between 1988 - 2000, Tony shaped the development of the Department during this formative stage of its growth. The solid foundation that he established is essential for the continued success and development of the school of public health.

Tony Hedley's achievements are remarkable. His work spanned a wide spectrum of issues ranging from air pollution, tobacco control and life-style interventions, achieving an impressive impact on public health. His legacy stands as a shining example to all of us who practise public health.

As Head of our erstwhile Department of Community Medicine between 1988 - 2000, Tony shaped the development of the Department during this formative stage of its growth. The solid foundation that he established is essential for the continued success and development of the school of public health.

Finally, I would like to thank the Organising Committee for their hard work, and all the speakers and participants for attending this Forum. I hope that you will enjoy a rewarding experience and a memorable tribute to Professor Anthony J. Hedley.

Professor Richard Fielding

Message from the Director, School of Public Health and Chairman of Organizing Committee

Medical doctor, academic, clinician, researcher, policy advocate, writer, musician, eco- lover, photographer, and most importantly, public health crusader – no short description could do justice to Anthony Hedley, a man who has been an iconic figure in academic public health for the past three decades in Hong Kong and much of the world.

As Head of our erstwhile Department of Community Medicine between 1988 - 2000, Tony shaped the development of the Department during this formative stage of its growth. This solid foundation has allowed the Department to grow and expand its research. Under the School of Public Health, to continue to have a significant impact on public health locally and globally. As a renowned innovator in gerontology, in grooming the next generation of leaders. His protégés include Professors Gabriel Leung, Ray Jones and Sarah McGhee, and many other medical and public health practitioners, some of whom we will see at the Forum today. Speaking personally, I am truly grateful to Professor Hedley for his support and encouragement during my academic career.

Professor Hedley's ideas are remarkable. He has pursued a wide spectrum of issues ranging from air pollution, tobacco control and life-style interventions, achieving an impressive impact on public health. His legacy stands as a shining example to all of us who practise public health today.

On behalf of the Organising Committee, we are honored to dedicate today's programme to Tony Hedley, a deeply respected and beloved member of our School. The Hong Kong Public Health Forum 2014 is a tribute to Anthony Hedley, a celebration of all his significant contributions, from our School and University, to the city of Hong Kong and to the art and science of public health globally. With his encouragement, perseverance, zeal and dedication, he has been, and will continue to be, an example to our School and public health practitioners for generations to come.

Professor Richard Fielding
Professor Anthony J Hedley

Guest of Honour

Biography

Emeritus Professor, School of Public Health, The University of Hong Kong

BBS, JP, MBChB, MD (Aberd), MD (Hon) (Khon Kaen), DSoCMed (Edin), FRCP (Edin, Glas, Lond), FFPH (RCP) UK, FHKCCM, FHKAM, FACE, FRACMA

Anthony Hedley has been Chair Professor of Community Medicine at HKU since 1988. He was Head of the Department of Community Medicine from 1988 to 2000, and was formerly Henry Mechan Professor of Public Health at the University of Glasgow from 1983 to 1988. Professor Hedley was trained in the medical schools of Aberdeen (1959-65) and Edinburgh (1972-73) universities. In 1964, he was a Nuffield Scholar in Tropical Medicine in the Fiji Islands, based at the Fiji School of Medicine. He obtained the MD by research, MRCP (UK) in 1972, Diploma in Social Medicine (Edin) in 1973 and FFPH of the Royal College of Physicians (UK) by examination in 1981.

Professor Hedley worked in general medicine, geriatrics, endocrinology and diabetes in Aberdeen, Dundee and Nottingham before moving into the field of epidemiology and public health. He was responsible with others for developing the Scottish Automated Follow-up Register (SAFUR) for thyroid disease in Aberdeen, Dundee, Edinburgh, Glasgow and Inverness, the Trent Region Thyroid Follow-up Register, the Nottingham Diabetes Clinical Information System and the West of Scotland Hypertension Register and Information System. From 1973 to 1975, he was lecturer in Social and Preventive Medicine in the University of Aberdeen and senior registrar in geriatric medicine at Aberdeen Hospitals. From 1976 to 1983, he was senior lecturer in epidemiology in the Nottingham University Department of Community Health, Honorary Consultant in Community Medicine to the Nottingham and Derbyshire Health Authorities and honorary staff member of the endocrine and general medicine clinics.

Between 1977 and 1986, he participated in and conducted international workshops and surveys for the World Health Organization on the risk approach in maternal and child health in Nottingham, Geneva, Kuala Lumpur, Manila, Fiji, Beijing and Hanoi. From 1977 to 1983, he worked on assignments in Khon Kaen, Thailand, for the UK Overseas Development Administration during the development of the new Khon Kaen University Health Sciences Centre. He has been appointed honorary professor in Khon Kaen and the 4th Military Medical School in Xian and Honorary Fellow of the Hong Kong College of Community Medicine. In 1983, he was awarded the honorary degree of MD, presented by King Bhumipol Adulyadej.

From the late 1960s to the present, Professor Hedley has worked on the development of health services research and the application of the informatics approach to patient care between the primary and secondary sectors of the health care system. He was chairman of the Hong Kong Health Services Research Committee Expert Subcommittee on Grant Applications from 1993 to 2003 and chairman of the Physiotherapists Board from 1989 to 2003. His main research and public health advocacy interests in recent years have been in the field of environmental health, including outdoor and indoor air pollution, the prevention of diseases caused by tobacco and assessment of environmental risks from measurement of persistent organic pollutants including dioxins and polychlorobiphenyl compounds in human milk.

He was as member, and later Chairman, of the Hong Kong Council on Smoking and Health from 1994 to 2002. He was a member of the Hong Kong Advisory Council on the Environment and the Environmental Impact Assessment Subcommittee from 1996 to 2002 and a member of the US Health Effects Institute (Boston) International Scientific Oversight Committee (ISOC) from 2003 to 2010. In 2006, he was president of the International Society for the Prevention of Tobacco Induced Disease (ISPTIS). In 1999, he received a WHO medal for outstanding contributions to public health and in 2000 the HKSAR Bronze Bauhinia Star.
One way that HSR has an impact is by education. Good principal investigators involve younger researchers, students, and ‘front-line’ staff in collaborative learning between young people who self-harm and mental health professionals, supporting patients to develop and test apps, patient held records in diabetes in 1978. This work included a series of RCTs on personalised information for patients in cancer, schizophrenia, and helping older people make use of the Internet for health. Now working in a School of Nursing, he has recently encouraged 1,500 nursing students to get involved in the ‘Making better use of technology for health’ project, with support from the Hong Kong government and other organisations.

Keynote speaker of Plenary Session III: Health Services Research

Professor David Simpson

Prof. Simpson was Professor of Health Services Research in the Department of Public Health and Primary Care at the University of Oxford. He is the author of several books on these topics, including the Oxford Textbook of Health Services Research. His recent book, “Global Health Services Research,” is a comprehensive guide to the field. He is known for his work on the long-term health outcomes of interventions and the importance of evidence-based policy making.

Air Pollution

Ross Anderson is a respiratory epidemiologist with a long-standing interest in the epidemiology of asthma and the health effects of air pollution. His current research interest is in investigating the health effects of traffic pollution (air and noise) in London. His early air pollution research was into the effects of indoor biomass burning in Papua New Guinea but over recent decades he has been involved in many studies of the health effects of air pollution around the world. He is currently leading the WHO Cooperative Study on the Global Burden of Disease of Adolescent and Adult Asthma.

Keynote speaker of Plenary Session III: Health Services Research

Professor Ray Jones

Prof. Jones is a well-known expert on tobacco control and has made significant contributions to the field. He is the author of several books on tobacco control, including “Tobacco Wars in Hong Kong: the evidence-based role of academia” and “Policy options for abatement”. He has been involved in many studies of the health effects of tobacco, including the Health Effects of Tobacco Smoke and the Health Effects of Tobacco Smoke in Low-income Countries. He is currently leading the WHO Global Tobacco Control Initiative and has been instrumental in developing the WHO Framework Convention on Tobacco Control.

Keynote speaker of Plenary Session III: Health Services Research

Professor Siu Chak Ray

Prof. Ray is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Tsoi Wai Leung

Prof. Tsoi is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Ng Kuk

Prof. Ng is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Leung Chi On

Prof. Leung is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Thomas Leung

Prof. Thomas is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Lam Wai Yan

Prof. Lam is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.

Keynote speaker of Plenary Session III: Health Services Research

Professor Lam Ka Shi

Prof. Lam is a well-known expert on health services research and has made significant contributions to the field. He is the author of several books on health services research, including “Health Services Research: Principles, Methods and Applications” and “Health Services Research: A Practical Guide”. He has been involved in many studies of the health services, including the Health Services Research in Hong Kong and the Health Services Research in China. He is currently leading the WHO Global Health Services Research Initiative and has been instrumental in developing the WHO Framework Convention on Health Services Research.
## CME/CPD Accreditations

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Professor Peter Brimblecombe
Health Services Research
Dr Su-vui Lo
Tobacco Control

was the Cluster Chief Executive of the New Territories East Cluster and Hospital Chief Executive of the Prince of Wales Hospital at the Hospital
Professor Fung retired from the Hong Kong Hospital Authority in November 2013 after over 30 years of public service. Before retirement, he
of the College from 2010-2013. He leads the development of the subspecialty in Administrative Medicine.

Professor Fung is also the President of the Hong Kong College of Community Medicine since January 2014. Prior to that, he was Chief Censor
Chinese University of Hong Kong. He is the co-director of the Master of Science in Health Services Management programme.

Biography
Professor Sarah McGhee
Research Office at the Food & Health Bureau and Director of Purchasing (Specialist Care Services) with the Cardiff Health Authority of the
portfolio covers specialty service development, workforce planning, capital and facilities planning, and development of primary and
strategies to support the Authority to deliver a modern, high quality health system that responds to patient needs and choices. His work

Panelist of Plenary Session III:

Professor Judith Mackay

Her current position involves supporting the Secretary for Food and Health in the political work involved in the setting of policy objectives and
awarded the Fellow of the American Academy of Nursing (FAAN).

Health (through distinction), Royal College of Physicians of United Kingdom (FFPH (RCP)(UK)), and is the first nurse in Hong Kong being
Professor Chan is one of the leading nurse scientists and she tested and developed effective nurses' interventions to change smokers'
of Public Health at the Harvard School of Public Health, and completed her doctoral studies at the HKU.

Panelist of Plenary Session II:

Professor Sophia Chan

Dr Chit-ming Wong

Biography
Panelist of Plenary Session II:

Professor Alistair Woodward

A medical graduate, with postgraduate qualifications in public health and epidemiology, his research has included
tobacco, environmental health and the social determinants of health. He led the writing of the health section of the 5th assessment report for
University of Adelaide. A medical graduate, with postgraduate qualifications in public health and epidemiology, his research has included

Panelist of Plenary Session I:

Professor Sophia Chan

Mr Simon Ng

Biography
Panelist of Plenary Session I:

Biography

Moderator of Plenary Session I: Air Pollution

Mr Simon Ng


interventions to improve air quality. CM was the first or major author on short term effects of air pollution on hospitalization and mortality in
steered unique and major studies in environmental health incorporating infectious diseases, leading a team of research staff and students in

teaching themes over the past thirty years, which included occupational health, smoking and cancer epidemiology. He has initiated and

Panelist of Plenary Session I: Air Pollution

Professor Peter Brimblecombe

Tails you Win: the Science of Chance

Council on Smoking and Health and Co-Chair of Grant Review Board, Research Council, Health, Welfare and Food Bureau of the Hong Kong
Occupational Medicine, The Hong Kong Academy of Medicine (Community Medicine) and The Royal College of Physicians of Edinburgh.


Professor Brimblecombe

Tobacco Control

Air Pollution
The Anthony J. Hedley Lecture on "The Last Great Public Health Polymath?" was held in December 2014. The theme of the Forum is on the role of the generalist in public health – a tribute to Professor Anthony J Hedley.

Professor Malik Peiris, a Public Health Giant, discussed "The Last Great Public Health Polymath?". His talk was followed by plenary discussions by panelists including Professor Richard Fielding, Professor Lam Tai-hing, Dr Lo Su-vui, Professor Sarah McGhee, Professor Wong Chit-ming, Professor Sophia Chan, Professor Judith Mackay, Professor Peter Brimblecombe, Mr Mok Wai-cheun, Dr Dr Wani, and Professor Ray Jones.

The keynote speeches were followed by plenary discussions by panelists, including Professor Richard Fielding, Professor Lam Tai-hing, Dr Lo Su-vui, Professor Sarah McGhee, Professor Wong Chit-ming, Professor Sophia Chan, Professor Judith Mackay, Professor Peter Brimblecombe, Mr Mok Wai-cheun, Dr Dr Wani, and Professor Ray Jones.

More than 350 guests, including HKU Council Chairman Dr The Honorable Leong Che-hung, Emeritus Professor Rosie Young, Professor Sophia Chan, Under Secretary for Food and Health, Dr Fung Hong, President of Hong Kong College of Community Medicine, Dr PY Lam, former Director of Health and many other public health practitioners, scholars and advocates graced the occasion. Many colleagues, associates, trainees, students and friends of Professor Hedley from all over the world have gathered at the Forum in celebration of his significant achievements and contributions to public health, rekindling fond memories of Professor Hedley at the University and in the city of Hong Kong.

Emeritus Professor Anthony J Hedley has been Head of the Department of Community Medicine, predecessor of the School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong (HKU) from 1988 to 2000, and as Chair Professor of Community Medicine at the University until his retirement in 2010. In recognition of his outstanding contributions to public health, Professor Hedley received a World Health Organization Medal and the HKSAR Bronze Bauhinia Star in 1999 and 2000 respectively.

The HKU School of Public Health has a long and distinguished history in public health education and high impact research. With world leading research in infectious diseases as well as on non-communicable diseases of both local and global importance, the School has made significant contributions through its research and advocacy to improve the health of populations and individuals, both locally and globally. The School is a leading research and teaching hub in public health on influenza and other emerging viruses, control of infectious and non-communicable diseases, tobacco control, air pollution, psycho-oncology, behavioral sciences, life-course epidemiology, and health economics, health services planning and management. This work has informed international (e.g. the World Health Organization, Food and Agriculture Organisation of the United Nations), national and local public health policies.
Contact Us

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Address: 5/F, William MW Mong Block, Li Ka Shing Faculty of Medicine Building, 21 Sassoon Road, Pokfulam, Hong Kong
Keynote Speakers and Abstracts

Professor Gabriel M Leung
The Anthony J Hedley Lecture

Professor Ross Anderson
Air Pollution

Professor David Simpson
Tobacco Control

Professor Ray Jones
Health Services Research

Professor Gabriel M Leung

Keynote speaker of The Anthony J Hedley Lecture

Biography

Dean, Li Ka Shing Faculty of Medicine, The University of Hong Kong

Gabriel Leung became the fortieth Dean of the Li Ka Shing Faculty of Medicine at the University of Hong Kong in 2013. Leung, a clinician and a respected public health authority, is also Chair Professor of Public Health Medicine in the School of Public Health, HKU. Previously he was Professor and Head of Community Medicine at the University and served as Hong Kong’s first Under Secretary for Food and Health and fifth Director of the Chief Executive’s Office in government.

Born in Hong Kong, Professor Leung received his early education locally and in the UK. He read medicine at Western Ontario and completed family medicine residency training in Toronto. He earned his master’s from Harvard and research doctorate from HKU.

Professor Leung is one of Asia’s leading epidemiologists, having authored more than 350 scholarly papers and edited numerous journals. His research defined the epidemiology of two novel viral epidemics, namely SARS-CoV in 2003 and influenza A(H7N9) in 2013. While in government, he led Hong Kong’s policy response against the 2009 influenza A(H1N1) pandemic. Non-communicable disease work from Leung’s group has proposed novel insights into the fundamental biologic pathways leading to population-level origins of cardiovascular disease and Type II diabetes with global health relevance.

From 2010, Professor Leung has been inaugural Chair of the Asia Pacific Observatory on Health Systems and Policies, a multipartite partnership of governments, development agencies and the research community. He regularly advises national and international agencies including the World Health Organisation, World Bank and the Chinese Center for Disease Control and Prevention. He was Vice President and Censor in Public Health Medicine of the Hong Kong College of Community Medicine, and is an elected Council member of the Hong Kong Academy of Medicine. He is a member of the Hospital Authority Board and of the University Grants Committee, respectively a statutory agency responsible for all public health care services and an advisory body on the development and funding requirements of the higher education sector in Hong Kong.

A firm believer in the importance of teaching and learning, Professor Leung has always maintained a substantial commitment in the undergraduate medical and postgraduate public health curricula. His paedagogy has been recognised by the award of the University Teaching Fellowship and the Faculty Teaching Medal, respectively the highest honour for teaching achievements conferred by the University and the medical school.
Keynote Speakers and Abstracts

Professor Gabriel M Leung
The Anthony J Hedley Lecture

Professor David Simpson
Tobacco Control

Professor Ross Anderson
Air Pollution

Professor Ray Jones
Health Services Research

Professor Ross Anderson

Keynote speaker of Plenary Session I: Air Pollution

Biography

Ross Anderson is a respiratory epidemiologist with a long-standing interest in the epidemiology of asthma and the health effects of air pollution. His early air pollution research was into the effects of indoor biomass burning in Papua New Guinea but over recent decades he has been mainly concerned with outdoor air pollution.

The body of his air pollution research in this area has been concerned with time-series studies in the UK, Europe and Hong Kong and systematic reviews and meta-analyses of time-series studies. More recently he has been investigating the effects of long term exposure to air pollution. His current research interest is in investigating the health effects of traffic pollution (air and noise) in London.

He is currently serving on the UK Committee on the Medical Effects of Air Pollution (COMEAP) and the Core Analytic Group for ambient air pollution for the Global Burden of Diseases, Injuries and Risk Factors (Institute for Health Metrics and Evaluation, University of Washington).

Until recently, he has taken up various roles in the international committees concerned inclusive of the WHO Scientific Advisory Committee for the Review of Evidence of Health Aspects of Air Pollution (REVIHAAP), WHO Scientific Advisory Committee for estimating the Health Risks of Air Pollution in Europe (HRAPIE), Co-chair of Expert Group for outdoor air pollution for the Global Burden of Disease, 2010, US Health Effects Institute Review Committee, Steering Committee of the International Study of Asthma and Allergies in Childhood (ISAAC), etc.

Abstract

"The burden of disease due to air pollution: current knowledge and important gaps"

Most air pollution is produced by the combustion of carbonaceous fuels in order to generate energy for a range of industrial, transport and domestic purposes. It is generally accepted that air pollution is associated with a range of adverse health outcomes including reduced life expectancy. Estimating "burden" helps policy-makers to prioritise air pollution in relation to other factors affecting health and to evaluate abatement strategies using cost-effectiveness and cost-benefit approaches.

The elements of health burden estimation comprise: (1) population pollution exposure; (2) concentration-response functions for pollutant-health outcome pairs; and (3) baseline rates for the health outcome, all of which present difficulties in practice. The Global Burden of Disease Comparative Risk Assessment is an ambitious attempt to quantify, in terms of loss of healthy life expectancy, the relative impacts of a large range of risk factors including indoor and outdoor pollution, at global, national and regional levels and at intervals of time. The results are not subject to local bias due to advocacy or other pressures.

The recent WHO Health Risks of Air Pollution in Europe project was designed to provide input into an integrated model to evaluate various policy options for abatement. These projects will be described briefly with a view to examining their limitations and future directions.
Keynote Speakers and Abstracts

Professor Gabriel M Leung
The Anthony J Hedley Lecture

Professor Ross Anderson
Air Pollution

Professor David Simpson
Tobacco Control

Professor Ray Jones
Health Services Research

Professor David Simpson

Keynote speaker of Plenary Session II: Tobacco Control

Biography

Honorary Professor, Faculty of Public Health and Policy, London School of Hygiene & Tropical Medicine

David Simpson has worked in tobacco control for 35 years, both in the UK and internationally, first as Director of Action on Smoking and Health (ASH - 1979-90) and was appointed OBE in 1989. In 1982 he visited Hong Kong for the first time, advising the then Secretary for Health on actions to be taken on tobacco control, all of which was later implemented. In 1990, he founded the International Agency on Tobacco and Health (IATH) to support tobacco-control colleagues in countries with low resources or minimal history/experience of tobacco control, providing them with ongoing information and strategic advice. Since 2000, he has been an honorary professor at the London School of Hygiene and Tropical Medicine where he teaches regularly. Before joining ASH, he was Scottish Director of Shelter, the campaign against homelessness and bad housing (1972-74), and Amnesty International's British National Section (1974-79). He broadcast and published frequently on behalf of each organisation. His work on tobacco control has taken him to around thirty countries around the world, including numerous visits to Hong Kong. He originally trained and qualified as a Chartered Accountant.

Abstract

"Tobacco Wars in Hong Kong: the evidence-based role of academia"

Tobacco is unique as a public health problem in Hong Kong, China and worldwide. The scale of harm caused, any level of consumption always being highly dangerous, and addictiveness, all compound the difficulties of achieving a solution. But in addition, unlike, for example, communicable diseases or road traffic accidents, the tobacco pandemic has a highly organised, well-resourced vector. For more than half a century, the transnational tobacco companies have vigorously opposed efforts to reduce consumption, which is essential to reduce subsequent morbidity and mortality. Hence the unfortunate analogy of warfare; the tobacco industry and its allies actively fight effective public health measures.

In this ongoing conflict, the ammunition of public health is information. It must be applied at every level, from encouraging and supporting individuals to quit smoking, through protecting the public from recruitment and exposure to second and third-hand smoke, to explaining to policy-makers the urgent need for tougher policy, and alerting them to anti-health activities, often subversive, intended to thwart effective action and derail public health policy. Such information, often contending with public relations offensives and misleading counter-information, must be firmly based on evidence, making independent, academic research crucial to the solution.

Hong Kong has been working towards comprehensive tobacco control policy for around three decades. The arrival of Professor Anthony J Hedley (AJH) at the Department of Community Medicine of HKU in 1988 was timely, as early government and civil society efforts ran into increasing opposition from the industry, incensed that such measures could happen in such a world-renowned and influential free trade territory and be used as a model for the rest of Asia.

In the following twenty seven years, and still ongoing, research by AJH and colleagues, especially Professor TH Lam, on key areas such as smoking cessation, environmental tobacco smoke, and taxation as a tool to reduce consumption while boosting government revenue, has played a vital role in fostering progressive action.

Equally important, the vigilance of AJH in recognising aggressive industry-backed initiatives, educating others, including university and government officials, to be alert for them, and forging effective relationships with NGOs, especially the Council on Smoking and Health, has helped prevent Hong Kong from losing ground in the tobacco war. His legacy clearly shows how continuous, wide-ranging work by academics is essential for effective tobacco control – and how much more still needs to be done.
Keynote Speakers and Abstracts

Professor Gabriel M Leung
The Anthony J Hedley Lecture

Professor Ross Anderson
Air Pollution

Professor David Simpson
Tobacco Control

Professor Ray Jones
Health Services Research

Professor Ray Jones
Keynote speaker of Plenary Session III: Health Services Research

Biography

Ray Jones is Professor of Health Informatics at Plymouth University and leads a programme of research focusing mainly on the implementation and evaluation of e-health and e-learning.

In 1978, he was employed by (then Dr) AJ Hedley as a Research Associate at Nottingham University to develop and evaluate a clinical information system for diabetes. This project also became Ray’s PhD with AJH as supervisor. In 1984, Ray followed AJH to Glasgow University becoming Lecturer, then Senior Lecturer, in Health Informatics in the Department of Public Health. His work in Glasgow with AJH, Sarah McGhee, and others included health services research into the impact of clinical information systems. He was fortunate to be able to visit Hong Kong several times in the early 1990s to contribute to AJH’s work on clinical systems for long term conditions.

During his time in Glasgow (1984-2001), Ray increasingly focused on patients’ use of the internet, an interest planted by AJH with the idea of patient held records in diabetes in 1978. This work included a series of RCTs on personalised information for patients in cancer, schizophrenia, medical-dental care, and depression.

He took his current post in 2002. He has continued a public health approach to researching patients’ use of the internet including online collaborative learning between young people who self-harm and mental health professionals, supporting patients to develop and test apps, and helping older people make use of the Internet for health. Now working in a School of Nursing, he has recently encouraged 1,500 nursing students onto Twitter to engage with professionals and the public in health service debate.

Abstract

"How should we assess the value or impact of health service research"

In Health Service Research (HSR) most researchers want to ‘make a difference’, motivated by the desire to see improvements in the short to medium term, as well as adding to our understanding. This often means ‘getting their hands dirty’ and becoming involved in local issues to get improvement implemented. The context of HSR is important and may make generalisation to other contexts difficult. So how can we judge the value of HSR? National review panels often use metrics such as citations; these have a role but because HSR may be ‘context specific’, excellent regional impact may not always achieve high citation.

On the other hand, working in public health we often encounter ‘quick and dirty’ studies that on closer examination are ‘too quick and too dirty’, often going under the ‘ethics committee radar’, termed as service evaluation. At the other extreme, some large expensive studies get cited - but because they are slow and often not very innovative, have no major impact on the trajectory of service improvement.

One way that HSR has an impact is by education. Good principal investigators involve younger researchers, students, and ‘front-line’ staff in their work. Their HSR may change attitudes, understanding and policies, but this is often difficult to prove. Even though policy makers may have been influenced by HSR, they are often poor at citing their sources. HSR impact may also be diluted by constant health service reorganisation based on political dogma rather than research evidence. With constant change we have health service organisations with ‘no memory’. As HSR researchers, we perhaps need to spend more time on educating and involving the public and professionals to maintain longer term knowledge of good practice. However, getting the balance right between research, implementation, publication, and education is difficult, as is ‘proving’ that HSR has made a difference.
Panelists and Moderators

Professor Peter Brimblecombe  
Air Pollution

Ms Christine Loh  
Air Pollution

Dr Chit-ming Wong  
Air Pollution

Mr Simon Ng  
Air Pollution (Moderator)

Professor Sophia Chan  
Tobacco Control

Professor Judith Mackay  
Tobacco Control

Professor Alistair Woodward  
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Prof Tai-hing Lam  
Tobacco Control (Moderator)

Dr Su-vui Lo  
Health Services Research

Professor Sarah McGhee  
Health Services Research

Professor Sir David Spiegelhalter  
Health Services Research

Dr Hong Fung  
Health Services Research (Moderator)

Professor Peter Brimblecombe

Panelist of Plenary Session I: Air Pollution

Biography

Associate Dean (Research and Postgraduate Education) and Chair Professor of Atmospheric Environment, School of Energy and Environment, City University of Hong Kong

Peter Brimblecombe was born in Australia, but went to University in Auckland, New Zealand where his PhD concerned atmospheric chemistry of sulphur dioxide. His studies of long-term changes in urban air pollution and its effects on health and building damage are also an important activity; the historical aspects of this subject resulted in his book, The Big Smoke. This encouraged an interest in the relationship between air pollution and architecture, literature and even cinema. His research on material damage by air pollutants has not been restricted to outdoor environments and he has worked on the museum atmosphere with a continuing interest in the process of damage to cultural materials by air pollutants and climate. His current interest in air pollution relates to human exposure in the urban environment especially Hong Kong. In 2005, he received a gold medal from the Italian Chemical Society for his contributions in environmental and heritage chemistry. He is currently Associate Dean and Chair Professor in the School of Energy and Environment at City University of Hong Kong and an Emeritus Professor to the School of Environmental Sciences of the University of East Anglia.
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Professor Sophia Chan
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Dr Chit-ming Wong
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Prof Tai-hing Lam
Tobacco Control (Moderator)

Professor Sarah McGhee
Health Services Research

Professor Sir David Spiegelhalter
Health Services Research

Dr Hong Fung
Health Services Research (Moderator)

Ms Christine Loh
Panelist of Plenary Session I: Air Pollution

Biography

Under Secretary for the Environment, HKSAR Government

Christine Loh was the Chief Executive Officer of the non-profit public policy think tank Civic Exchange prior to joining the HKSAR Government in September 2012. Prior to founding Civic Exchange in 2000, Ms Loh had spent nearly a decade as a politician and member of the Legislative Council (1992-97 and 1998-2000). Before joining the Legislative Council, Ms Loh held senior regional positions in commodities trading, as well as in project negotiation. Having been very active in public affairs since 1980, she had founded or served on boards of a wide range of non-governmental organisations in Hong Kong and overseas concerning a variety of issues including environmental protection, urban planning and design, and equal opportunity. Ms Loh is a lawyer by training.
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**Dr Chit-ming Wong**

Panelist of Plenary Session I: Air Pollution

**Biography**

**Associate Professor, School of Public Health, The University of Hong Kong**

CM is a research designer and biostatistician with special interest in environmental health, contributing to a wide range of research and teaching themes over the past thirty years, which included occupational health, smoking and cancer epidemiology. He has initiated and steered unique and major studies in environmental health incorporating infectious diseases, leading a team of research staff and students in the assessment and quantification of health effects of air pollution and influenza, and health benefits of government and private sector interventions to improve air quality. CM was the first or major author on short term effects of air pollution on hospitalization and mortality in Hong Kong and London, and on effects of air quality intervention that have been adopted by the WHO in setting the revised Global Air Quality Guidelines 2005.
# Panelists and Moderators

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## Mr Simon Ng

**Moderator of Plenary Session I: Air Pollution**

### Biography

**Chief Research Officer, Civic Exchange**

Simon has collaborated with Civic Exchange since 2001, and worked full-time as a Project Manager between 2003 and 2005. After a six-year stint at the Institute for the Environment of the Hong Kong University of Science and Technology, Simon rejoined Civic Exchange in 2012 as Head of Transport and Sustainability Research. Simon’s major research areas include sustainable transportation, liveable cities, air quality management, energy issues, and local community planning. He is known for his work on ship emissions inventory and control policy in Hong Kong and the Pearl River Delta. Simon holds a Bachelor of Arts and a Master of Philosophy degrees from the University of Hong Kong.
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Air Pollution

Ms Christine Loh
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Dr Chit-ming Wong
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Mr Simon Ng
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Professor Sophia Chan
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Professor Judith Mackay
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Professor Alistair Woodward
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Prof Tai-hing Lam
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Dr Su-vui Lo
Health Services Research

Professor Sarah McGhee
Health Services Research

Professor Sir David Spiegelhalter
Health Services Research

Dr Hong Fung
Health Services Research (Moderator)

Professor Sophia Chan

Panelist of Plenary Session II: Tobacco Control

Biography

Sophia Chan is Under Secretary for Food and Health in Hong Kong. Before joining the Government, Professor Chan was a Professor in Nursing, Head of the School of Nursing and Director of Research at the University of Hong Kong (HKU).

Having trained in and practised paediatric nursing in Hong Kong and London, Professor Chan subsequently specialized in health promotion with a particular focus on the management of tobacco dependency. She read her Master of Education at the University of Manchester, Master of Public Health at the Harvard School of Public Health, and completed her doctoral studies at the HKU.

Professor Chan is one of the leading nurse scientists and she tested and developed effective nurses’ interventions to change smokers’ behaviour, and to protect children from exposure to secondhand smoke. Professor Chan’s research is internationally recognised; she was one of the top funded nursing researchers in Hong Kong, and she consults widely nationally and internationally, and has been invited by the World Health Organisation to provide advice and leadership on their tobacco control initiatives. She is awarded a Fellow of the Faculty of Public Health (through distinction), Royal College of Physicians of United Kingdom (FFPH (RCP)(UK)), and is the first nurse in Hong Kong being awarded the Fellow of the American Academy of Nursing (FAAN).

Her current position involves supporting the Secretary for Food and Health in the political work involved in the setting of policy objectives and legislative initiatives.
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Professor Sir David Spiegelhalter
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Dr Hong Fung
Health Services Research (Moderator)

Professor Judith Mackay
Panelist of Plenary Session II: Tobacco Control

Biography

Director, Asian Consultancy on Tobacco Control

Judith Mackay is a British medical doctor, who has lived in Hong Kong since 1967, initially working as a hospital physician, then since 1984 concentrating on public health.

She is Senior Advisor, World Lung Foundation/Bloomberg Initiative to Reduce Tobacco Use, and also to the Bill and Melinda Gates Foundation; Director of the Asian Consultancy on Tobacco Control; and Senior Policy Advisor to World Health Organisation. She is an Honorary Professor at the School of Public Health, the University of Hong Kong.

She has authored several atlases on health, cancer, cardiovascular disease, tobacco, surveillance and oral health.

In addition to many international awards, ranging from the WHO Commemorative Medal and the TIME 100 award to the first BMJ Group Lifetime Achievement Award, she has been identified by the tobacco industry as one of the three most dangerous people in the world.
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Professor Sir David Spiegelhalter  
Health Services Research

Dr Hong Fung  
Health Services Research (Moderator)

Professor Alistair Woodward

Panelist of Plenary Session II: Tobacco Control

Biography

Professor of Epidemiology and Biostatistics, School of Population Health, The University of Auckland

Alistair Woodward is Professor of Epidemiology and Biostatistics at the University of Auckland. He was Head of the School of Population Health at Auckland from 2004-2012. Previously he was head of departments of public health at the University of Otago Wellington, and the University of Adelaide. A medical graduate, with postgraduate qualifications in public health and epidemiology, his research has included tobacco, environmental health and the social determinants of health. He led the writing of the health section of the 5th assessment report for the Intergovernmental Panel on Climate Change; is presently engaged in several intervention studies to test the effects of street changes on levels of active transport, and has just published a book on the history of human life expectancy.
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Professor Sir David Spiegelhalter
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Dr Hong Fung
Health Services Research (Moderator)

Prof Tai-hing Lam
Moderator of Plenary Session II: Tobacco Control

Biography

Chair Professor, School of Public Health, The University of Hong Kong

Professor TH Lam was Head of the Department of Community Medicine, Director of the School of Public Health and Director of Public Health Research Centre at HKU in 2000-12, 2009-13 and 2004-13 respectively. He is Chair Professor in Community Medicine since 2000 and was appointed Sir Robert Kotewall Professorship in Public Health, at HKU in December 2007.

Professor Lam is a fellow of the Australasian Faculty of Occupational Medicine, the UK Faculty of Public Health, The London Faculty of Occupational Medicine, The Hong Kong Academy of Medicine (Community Medicine) and The Royal College of Physicians of Edinburgh. Professor Lam was President of the Hong Kong College of Community Medicine from 1997 to 2001. He was Vice-Chairman of Hong Kong Council on Smoking and Health and Co-Chair of Grant Review Board, Research Council, Health, Welfare and Food Bureau of the Hong Kong SAR Government. He was conferred Honorary Fellowship of Hong Kong College of Community Medicine in 2008.

He has been appointed by the World Health Organization as short-term consultant, temporary advisor or expert participant for more than ten occasions. He was awarded a WHO medal on tobacco control in 1998, appointed Justice of Peace in 2005 and awarded Bronze Bauhinia Star in 2012 by the HKSAR Government. Since 2002 (to present), he is Member of Cancer Coordinating Committee and Chairman of Expert Working Group on Cancer Prevention and Screening, Food and Health Bureau.
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Health Services Research (Moderator)

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**Dr Su-vui Lo**

**Panelist of Plenary Session III: Health Services Research**

**Biography**

**Director of Strategy and Planning, Hospital Authority**

S V Lo is Director of Strategy & Planning of the Hong Kong Hospital Authority. He is responsible for formulating corporate-wide planning and strategies to support the Authority to deliver a modern, high quality health system that responds to patient needs and choices. His work portfolio covers specialty service development, workforce planning, capital and facilities planning, and development of primary and community care.

Prior to this current appointment, Dr Lo has held a number of senior positions both locally and overseas. These included his role as Head of Research Office at the Food & Health Bureau and Director of Purchasing (Specialist Care Services) with the Cardiff Health Authority of the National Health Service in the United Kingdom.

Professionally, Dr Lo is a specialist practitioner in Public Health & Administrative Medicine. He has served as a Part I and II examiner of the Faculty of Public Health, and censor and examiner of the Royal Australasian College of Medical Administrators.
Panelists and Moderators

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Dr Su-vui Lo  
Health Services Research

Professor Sarah McGhee  
Health Services Research

Professor Sir David Spiegelhalter  
Health Services Research

Dr Hong Fung  
Health Services Research (Moderator)

Professor Sarah McGhee

Panelist of Plenary Session III: Health Services Research

Biography

Honorary Professor, School of Public Health, The University of Hong Kong

Sarah McGhee’s principal research interests lie in the application of epidemiological and economic techniques to answering questions that are related to health care. After moving to the Department of Community Medicine, HKU from the Department of Public Health at the University of Glasgow in 1994, she formed the Health Services Research Group (HSRG), which brought together the Department’s activities in health services research, economics and informatics. The HSRG’s activities were integrated with those of the Department’s Epidemiology and Public Health and Biostatistics groups. The HSRG has henceforth investigated the cost of risk factors such as smoking, passive smoking and air pollution and the cost-effectiveness of screening for cervical cancer and child and adult vaccination programmes. The group has also examined the burden of disease due to obesity, development of locally-based quality weights to allow the calculation of quality-adjusted life years in economic studies, estimation of the loss of quality of life due to smoking and the impact of smoke-free laws in workplaces.
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Dr Su-vui Lo
Health Services Research

Professor Sarah McGhee
Health Services Research

Professor Sir David Spiegelhalter
Health Services Research

Dr Hong Fung
Health Services Research (Moderator)

Professor Sir David Spiegelhalter

Panelist of Plenary Session III: Health Services Research

Biography

Winton Professor of the Public Understanding of Risk, University of Cambridge

David Spiegelhalter is Winton Professor for the Public Understanding of Risk and Professor of Biostatistics at Cambridge University. He leads a small team (UnderstandingUncertainty.org) that attempts to improve the way in which risk and uncertainty are taught and discussed in society. He gives many presentations to schools and others, advises organisations on risk communication, and is a regular commentator on risk issues. In 2012, he presented the BBC4 documentary 'Tails you Win: the Science of Chance'. He was elected FRS in 2005, awarded an OBE in 2006, and was knighted in 2014 for services to medical statistics. In 2011, he came 7th in an episode of Winter Wipeout (a BBC gameshow).
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Health Services Research

Dr Hong Fung  
Health Services Research (Moderator)

Dr Hong Fung
Moderator of Plenary Session III: Health Services Research

Biography

President of Hong Kong College of Community Medicine

Hong Fung is currently Professor of Practice in Health Services Management at the Jockey Club School of Public Health & Primary Care, The Chinese University of Hong Kong. He is the co-director of the Master of Science in Health Services Management programme.

Professor Fung is also the President of the Hong Kong College of Community Medicine since January 2014. Prior to that, he was Chief Censor of the College from 2010-2013. He leads the development of the subspecialty in Administrative Medicine.

Professor Fung retired from the Hong Kong Hospital Authority in November 2013 after over 30 years of public service. Before retirement, he was the Cluster Chief Executive of the New Territories East Cluster and Hospital Chief Executive of the Prince of Wales Hospital at the Hospital Authority (HA), a position he took since 2002.

Professor Fung is well recognized for his expertise in hospital planning and health informatics. Prior to his appointment as the Cluster Chief Executive, he worked in the HA Head Office and was responsible for the planning and development of the public hospital services and facilities for over a decade. He spearheaded the development of HA’s Clinical Management System and electronic patient records.