

# Dr. Anuji Gamage - Curriculum Vitae

## Personal Information:

- Name: Dr. Anuji Gamage
- Nationality: Sri Lankan
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## Employment History:

- Senior Lecturer in Community Medicine, Department of Public Health and Family Medicine, Sir John Kotalawela Defense University, Ratmalana. Feb 2020 to date
- Provincial Epidemiologist, Office of the Provincial Director of Health Services, North Central Province. February 2019 to 2020
- Consultant Community Physician, Management, Planning and Development Unit, Ministry of Health, Nutrition and Indigenous Medicine- January 2017 to February 2019 (Obtained Board Certification on 15th December 2015).
- Senior Registrar in Community Medicine in the Nutrition Division, Ministry of Health, Nutrition and Indigenous Medicine - 2012-2015
- Registrar in Community Medicine in the Department of Community Medicine, Faculty of Medicine, University of Colombo. 2010-2012
- Additional Medical Officer of Health – Medical Officer of Health area Maharagama Sri Lanka- 2009-2010
- Medical officer Divisional Hospital- Warakagoda, Sri Lanka-2006-2008
- Relief House Officer-Department of Pathology-Teaching Hospital Karapitiya, Galle, Sri Lanka - 2006 (May- August)
- Intern Medical Officer Medicine- Teaching Hospital Karapitiya, Galle, Sri Lanka -2005/2006
- Intern Medical Officer Gyn and Obs- Teaching hospital Mahamodara, Galle Sri Lanka- 2005 (May - November)

## Education and Continuous Professional Education

- Master of Health Economics and Policy University of Adelaide, Australia - 2016
- Graduate Certificate in Economic University of Adelaide, Australia - 2015
- Doctor of Medicine-Community Medicine Postgraduate Institute of Medicine, Sri Lanka – 2010-2014
- MSc in Community Medicine Postgraduate Institute of Medicine, Sri Lanka – 2008-2009
- M.B.B.S University of Kelaniya, Sri Lanka - 2000-2004

## Registration:

- Registration - Sri Lanka Medical Council -21066
- Board Certification - 2015

## Recognitions:

- Advanced Healthcare Financing sixth WHO Advanced Course on Health Financing for UHC for LMICs. Conducted by the World Health Organization in Geneva, Switzerland.
- Health Financing for Universal Health Coverage, World Health Organization e-learning course. Completed in July 2019.
- “Data to Policy (D2P), Data for Health initiative”, funded by a grant from Bloomberg Philanthropies, Center for Disease Control and Prevention (CDC) which targeted to improve capacity in Ministries of Health to use health data to inform public health policy development.
- Asia Regional Flagship Course on Health System Strengthening and Sustainable Financing - The Challenge of Universal Health Coverage Colombo, Sri Lanka – March 6-10, 2018

- Knowledge Co-creation Programme – “Strengthening Social Health Protection Towards Universal Health Coverage” Funded by JICA- January 2018.
- Australia Awards Scholarship holder 2015-2016 to Study Masters of Health Economics and Policy at University of Adelaide, South Australia. I completed the Graduate Certificate of Health Economics and a Masters of Health Economics and Policy successfully.
- Completed the 43rd Ten-Day International Fellowship on Cardiovascular Disease Epidemiology and Prevention held in Grenada West Indies conducted by the World Heart Federation.
- A trainee of the Asian Collaboration for Excellence in Non-communicable Disease (ASCEND) Research Network- It was an 18-month program which provided research training related to the prevention and control of NCDs, mentoring and leadership skills.
- Training workshop on Health Economics (2 days) - A training organized jointly by the LANKAPHEIN(Collaborative Network of Public Health Education Institutes in Sri Lanka for Strengthening Public Health Capacity) and the Council of Community Physicians of Sri Lanka
- Completed the e-learning course on Basics of Health Economics conducted by the World Bank Institute.
- Fellowship Health Economics Research Methods- 4 weeks- Faculty of Economics, Chulalongkorn University, Thailand. The course included fundamental principles of Health Economic Research. Which mainly focused on hypothesis development, theories in the research process, with the critical review of research design, and methodologies. With a hands-on practice of statistical analysis, software primarily used in economic analysis. E- views, Frontier V4, DEAP version 2.1 and STATA.
- Completed a four-week training course conducted by the Institute of Applied Statistic Sri Lanka on Data analysis using the Statistical Package for Social Science (SPSS)
- Completed Protecting Human Research Participant, which is an NIH ethics course conducted by the NIH office of extramural research.

#### **Professional Involvement:**

- As a Consultant Community Physician, it is my responsibility to act as the public health technical manager and provide technical guidance to the organizations while maintaining technical independence based on evidence. Also due to my experience and qualification in Health Economics, I can conduct Economic Evaluations of Health Technologies and provide technical guidance on healthcare financing.
- Involved in Postgraduate and undergraduate training in Health Economics and Policy and supervision of Masters level dissertation.
- I have worked with several National and International collaborative research teams as a Principal investigator/co-investigator, through which I gained expertise in conceptualizing, planning & setting up new public health and health economics related research.
- I have supervised undergraduate research during my registrar period at the Department of Community Medicine and also mentored International research through the International Society of Hypertension
- I have worked with the community particularly in relation to health promotion and disease prevention and has initiated preventive programs which were successfully implemented and carried out.
- As a Medical officer was involved as a family physician at the Out Patient Department, promoting community health, Outbreak investigation, and treatment of illnesses. This experience helps me in innovative thinking on the current healthcare reform suggested by the GoSL. Resource utilization was not optimal at these institutions driving to inefficiency. These institutions could be improved to cater to a defined population, with basic facilities and monitoring and evaluation to minimize the waste of resources.

#### **Previous and Current Grant Funding**

- National Science Foundation Grant to participate in Health Economics Research Methods course- 4 weeks- Faculty of Economics, Chulalongkorn University, Thailand

- Funding from the Non-Communicable Disease Unit, Ministry of Health Sri Lanka for the study "Prevalence and correlates of hypertension and its economic impact among selected categories of government Public Administration officers in the district of Colombo."
- Funding from Education Training and Research( ET & R) Unit, Ministry of Health Sri Lanka for the study Knowledge of selected Non-communicable Diseases and their primary prevention practices among school going, adolescents
- World Bank funding for the project " **Household Economic Burden and Lost Earnings due to NCDs- World Bank Innovation Grant**

## Publications

- Kavita Singh Ambalam M Chandra Sekaran, Soumyadeep Bhaumik, Malini Aisola, Kaushik Chattopadhyay , **Anuji U Gamage**, Padmal de Silva, Sakthivel Selvaraj, Ambuj Roy, Dorairaj Prabhakaran, Nikhil Tandon. Cost-effectiveness of interventions to control cardiovascular diseases and type 2 diabetes mellitus in South Asia: protocol for a systematic review. *BMJ Open* 2015;5:e007205 doi:10.1136/bmjopen-2014-007205.
- **Anuji Gamage**, Rohini Seneviratne. Perceived Job Stress and Presence of Hypertension Among Administrative Officers in Sri Lanka. *Asia Pacific Journal of Public Health*. DOI: 10.1177/1010539515598834. saph.sagepub
- **Gamage, A.**, De Alwis Seneviratne, R. & Hanna, F. 2016. The Effort–Reward Imbalance Questionnaire in Sinhalese: Translation, Validation and Psychometric Properties in Administrators. *Psychological Studies*, 61, 96-102.
- K. Singh, A.M. Chandra Sekaran, S. Bhaumik, K. Chattopadhyay, **A.U. Gamage**, P.D. Silva, A. Roy, N. Tandon, D. Prabhakaran. PM034 Evidence on Cost-Effectiveness of Interventions to Control Cardiovascular Diseases and Diabetes Mellitus in South Asia: A Systematic Review. *Global Heart*, Volume 11, Issue 2, e76 - e77
- **Gamage, A.**, De Alwis Seneviratne, R. & Hanna, F. Salt Intake, Blood Pressure, and Socioeconomic Disparities Among Government Employees in Sri Lanka: A Cross-Sectional Study. *J Public Health Policy* 38 (3), 327-344. 8 2017.
- **GAMAGE, Anuji Upekshika**; PEARSON, Dess; HANNA, Fahad. A review of climate change in South East Asian Countries and human health: Impacts, vulnerability, adaptation, and mitigation. *South East Asia Journal of Public Health*, [S.l.], v. 6, n. 2, p. 3-10, apr. 2017. ISSN 2313-531X. Available at: <<https://www.banglajol.info/index.php/SEAJPH/article/view/31829>>. Date accessed: 15 Sep. 2017. doi:<http://dx.doi.org/10.3329/seajph.v6i2.31829>.
- **Gamage AU**, Jayawardana PL. Knowledge of non-communicable diseases and practices related to healthy lifestyles among adolescents, in state schools of a selected educational division in Sri Lanka. *BMC Public Health*. 2017;18(1):64.
- Karnon, J., Haghghi, B. M., Sajjad, B., Yem, S., **Gamage, A.**, & Thorpe, A. (2018). COST-UTILITY ANALYSIS OF PRIVATE CONTRACTING TO REDUCE PUBLIC WAITING TIMES FOR JOINT REPLACEMENT SURGERY. *International Journal of Technology Assessment in Health Care*, 1–9. Cambridge University Press.
- Kavita Singh Ambalam M Chandra Sekaran, Soumyadeep Bhaumik, Malini Aisola, Kaushik Chattopadhyay , **Anuji U Gamage**, Padmal de Silva, Sakthivel Selvaraj, Ambuj Roy, Dorairaj Prabhakaran, Nikhil Tandon.
- Cost-effectiveness of interventions to control cardiovascular diseases and diabetes mellitus in South Asia: a systematic review . Accepted in February 2018. *BMJ Open*
- **Gamage A U**, Abeyseena C A. DAG: Method for Causal Modeling in Epidemiological research. *JCCPSL* 2017, 23 (4)
- Garner-Purkis A, Hine P, **Gamage A**, Perera S, Gulliford MC. Tuberculosis screening for prospective migrants to high-income countries: systematic review of policies. *Public health*. 2019;168:142-7.

- **Gamage, A.**, 2019. The hidden facets of hypertension among workers. *Journal of the College of Community Physicians of Sri Lanka*, 25(2), pp.47–54. DOI: <http://doi.org/10.4038/jccpsl.v25i2.8213>
- Mekala Fernando<sup>1</sup>, Dilini Mataraarachchi<sup>1</sup>, DA Nathaniel<sup>2</sup>, Rima Niyas<sup>1</sup>, Monika Wijeratne<sup>3</sup>, **Anuji Upekshika Gamage**<sup>4</sup> 2020 \* Testing of SARS-CoV-2 in the fight against COVID-19 pandemic. *Journal of the College of Community Physicians of Sri Lanka*, 26(special), pp.88. DOI: <https://doi.org/10.4038/jccpsl.v26i0.8346>
- **Anuji Gamage**<sup>\*</sup>, Nayana Fernando, Aindralal Balasuriya 2020. Hospital-based pandemic preparedness and response: institutional outbreak management and strategies adhered to prevent a surge. *Journal of the College of Community Physicians of Sri Lanka*, 26(special), pp 226. DOI: <https://doi.org/10.4038/jccpsl.v26i0.8326>
- **Anuji Gamage**<sup>1\*</sup> & Amala de Silva<sup>2</sup> 2020. Public health interventions and economic implications due to COVID-19. *Journal of the College of Community Physicians of Sri Lanka*, 26(special), pp 272. DOI: DOI: <https://doi.org/10.4038/jccpsl.v26i0.8355>

### Oral Communication

- **A U Gamage**, P Jayawardena Knowledge, and practices on selected non-communicable diseases among GCE Advanced Level students in state schools, Maharagama -Annual Sessions, College of Community Physician Sri Lanka, 2009, September.
- **A U Gamage**, P Jayawardena Knowledge, and practices on selected non-communicable diseases among GCE Advanced Level students in state schools, Maharagama - 10<sup>th</sup> South East Asia Regional Scientific Meeting of the International Epidemiological Association Conference, Colombo Sri Lanka. May 2010.
- **A U Gamage**, S Sivayogan Knowledge, and practices related to feeding among mothers of infants aged 6-12 months in the Medical Officer of Health Area Maharagama - NIHS scientific sessions Sri Lanka 2011 April.
- **A U Gamage**, P Jayawardena -Lifestyle practices and associated factors related to prevention of non-communicable diseases among GCE Advanced Level Students in State Schools, Maharagama. Annual Sessions, College of Community Physician Sri Lanka, 2012, September for which **best oral presentation award** was received in the NCD forum
- SHP de Silva, **A. U. Gamage**, RBBS Ramachandra, Simon Barraclough. Tobacco packaging regulations of Sri Lanka and Australia: lessons to be learned from the Australian regulations International Conference on Public Health Innovations- Kalutara Sri Lanka -2013 **A. U. Gamage**, R. De. A. Seneviratne Adaptation and Validation of Effort Rewards Imbalance model to assess Occupational stress among Sri-Lankan Administrators. Annual Sessions, College of Community Physician Sri Lanka, 2013, September
- **Anuji Gamage**, Fahad Hanna and Rohini Seneviratne. Prevalence and patterns of occupational stress among administrative officers attached to Public Administration offices in Sri Lanka. *International Commission on Occupational Health (ICOH)*, Adelaide, Australia. 2014
- **Anuji Gamage**, Fahad Hanna and Rohini Seneviratne . Worksite Health Promotion Score: To Assess A Health Promotional Worker Setting. Hypertension Seoul 2016 (26th Scientific Meeting of the ISH), **South Korea (won a travel grant award offered by the International Society of Hypertension (ISH)).**
- **A. U Gamage**<sup>1\*</sup>, S. C. Athukorale<sup>1</sup>, E. Undurraga<sup>2</sup>, C. Fabrizio<sup>3</sup>. Determinants of out-of-pocket health care expenditure in Sri Lanka. International Epidemiological Association regional group meeting 2019.

### Oration

- Dr. F A Wickramasinghe Oration , College of Community Physicians Sri Lanka. **Hidden Facets of hypertension among workers.** August 2018.

## Poster Presentation

- RJMKA Jayasundara, TAAOT Jayaweera, SD Jayawickrema, **A U Gamage** Knowledge on menstruation and menstrual practices among grade 10 students of government girls' schools Sri Lanka Medical Association annual sessions 2012
- RJMKA Jayasundara, TAAOT Jayaweera, SD Jayawickrema, **A U Gamage** Knowledge of menstruation and menstrual practices among grade 10 students of government girls' schools 44<sup>th</sup> Asia Pacific Academic Consortium For Public Health 2012
- RJMKA Jayasundara, TAAOT Jayaweera, SD Jayawickrema, **A U Gamage** Knowledge of menstruation and menstrual practices among grade 10 students of government girls' schools Student Scientific Sessions Faculty of Medicine Colombo 2012( **Best poster presentation**) **A U Gamage, P Jayawardena** Lifestyle practices and associated factors related to prevention of non-communicable diseases among GCE Advanced Level Students in State Schools, Maharagama. 44<sup>th</sup> Asia-Pacific Academic Consortium for Public Health (APACPH) 2012
- **A U Gamage, R. De. A. Seneviratne** Adaptation and Validation of Efforts Rewards Imbalance Model among administrators: Evidence from Sri Lanka. 45<sup>th</sup> Asia-Pacific Academic Consortium for Public Health (APACPH) 2013
- **A U Gamage, R. De. A. Seneviratne.** Salt Consumption pattern estimated by 24 hour Urinary Sodium Excretion among employees of government administration offices in Sri Lanka. 45<sup>th</sup> Asia-Pacific Academic Consortium for Public Health (APACPH) 2013
- **Anuji Gamage, Rohini Seneviratne and Amala De Silva.** Government Level losses (GDP) and Lost earnings due to hypertension among employees in Sri Lanka. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea**
- **Anuji Gamage,** and Rohini Seneviratne Hypertensive disease in pregnancy and hypertension in later life: A cross-sectional analytical study. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea**
- **Anuji Gamage,** Fahad Hanna and Rohini Seneviratne Physical Inactivity as a Predictor of Hypertension among employees in Sri Lanka: A Cross-Sectional Study. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea**
- **Anuji Gamage,** and Rohini Seneviratne Prevalence, awareness, treatment, and control of hypertension among administrators in Sri Lanka: a cross-sectional study. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea**
- **Anuji Gamage,** and Rohini Seneviratne. Perceived Job stress and presence of hypertension among administrative officers in Sri Lanka. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea**
- **Anuji Gamage,** and Rohini Seneviratne. Association between 24-hour urinary sodium excretion and blood pressure among adults: A Cross-Sectional study among employees in Sri Lanka. Hypertension Seoul 2016 (26<sup>th</sup> Scientific Meeting of the ISH), **South Korea.**
- **A. U Gamage** Health Technology Assesment: A narrative review. International Epidemiological Association regional group meeting 2019.

## **Experience as a reviewer**

- Editorial Committee member Journal of College of Community Medicine Sri Lanka
- Research Management committee member Education Training and Research ( ET & R) Ministry of Health Nutrition and Indigenous Medicine in which reviewing of research proposals for research allowance is done
- Reviewed abstracts for many local conferences i.e Annual Academic sessions, college of Community Medicine, Sri Lanka Association for the Advancement of Science, National Health Research Symposium and International conferences: Asia Pacific Consortium for Public Health , Australia Epidemiological Association, International Epidemiological Association
- Reviewer for International Journals- BMC Public Health

### Ongoing Research projects

- **Co-investigator** – Sri Lanka Adult Health Survey conducted by Institute of Health Policy, Sri Lanka.
- **Co- investigator** - An RCT of a novel brief intervention, enhanced structured care against 'treatment as usual' for management of medically unexplained symptoms, Keele University , UK.
- **Co-investigator** - Developing and Testing a Personalised Intervention Based on Cognitive and Behavioural Principles to Achieve Better Glycaemic Control in Type 2 Diabetes (DiaCog), Keele University, UK.
- **Principal Investigator** - Household Economic Burden and Lost Earnings due to NCDs- World Bank Innovation Grant
- **Principal Investigator** - Anabolic Steroids and other drug usage among gym users in Colombo district.
  
- **Supervisor – 1.** The Economic Burden of Diabetes Mellitus among patients attending Out-Patient Clinics at the Army Hospital Sri Lanka 2. The household economic burden of Chronic Kidney Disease (CKD) patients managed at Provincial General Hospital Kurunegala.3. Wheat consumption pattern among type 2 diabetes patients attending the medical clinic in Avissawella base hospital.