

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

for
Permanent Record
and the
Appointments and Promotions Committee

Date Prepared: January 28th, 2018

Name: L. Gayani Tillekeratne, MD MSc

Primary academic appointment: Department of Medicine

Primary academic department: Department of Medicine

Secondary appointment: Duke Global Health Institute

Present academic rank and title: Assistant Professor

Date and rank of first Duke Faculty appointment: Medical instructor, July 1, 2015

Medical Licensure: North Carolina License # 2012-01294

Date of License: June 27, 2012

Specialty certifications and dates:

American Board of Internal Medicine, August 10, 2010

American Board of Internal Medicine, Infectious Diseases, October 11, 2012

Education:	<u>Institution</u>	<u>Date</u>	<u>Degree</u>
High School	Robert S. Rogers High School	1999	
College	Massachusetts Institute of Technology	2003	B.S.
Professional	Duke University School of Medicine	2007	M.D.
Graduate	Duke University, Global Health	2014	M.Sc.

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
Hospital of the University of Pennsylvania	Intern/resident, Internal Medicine	7/07- 6/10
Hospital of the University of Pennsylvania	Fellow, Infectious Diseases	7/10- 7/12
Duke Global Health Institute	Fellow, Global Health	8/12-6/15

Publications:

Refereed journals

1. **Tillekeratne, LG**, Thielman, NM, Kiwera, RA, Chu, HY, Kaale, L, Morpeth, SC, Mtwewe, SP, Shao, JF, Bartlett, JA, Crump, JA. Morbidity and mortality in a cohort of HIV-infected patients in a community home-based care program in the Kilimanjaro Region, Tanzania, 2003-2005. *Ann Trop Med Parasitol*. Vol 103: 2, 1-11, 2009.
2. **Tillekeratne, LG**, Feng, S, Schimana, W, Johnson, OO, Kinabo, GD, Mmbaga, BT, Msuya, LJ, Shao, JF, Swai, ME, Crump, JA, Cunningham, CK. Identifying HIV-infected children who may benefit from early initiation of antiretrovirals. *Journal of Pediatric Infectious Diseases*. Vol 4: 4, 1-6, 2009.
3. Johnson, OO, Benjamin, DK, Benjamin Jr, DK, Schimana, W, **Tillekeratne, LG**, Crump, JA, Landman, KZ, Kinabo GD, Mmbaga, BT, Msuya, LG, Shao, JF, Swai, ME, & Cunningham, CK. Total lymphocyte count and World Health Organization pediatric clinical stage as markers to assess need to initiate antiretroviral therapy among HIV-infected children in Moshi, Northern Tanzania. *Pediatr Infect Dis J*. Vol 28: 6, 493-497, 2009.
4. **Tillekeratne, LG**, Linkin, DR, Obino, M, Omar, A, Wanjiku, M, Holtzman, D, Cohn, J. A multifaceted intervention to reduce rates of catheter-associated urinary tract infections in a resource-limited setting. *Am J Infect Control*. Vol 42: 1, 12-6, 2014.
5. **Tillekeratne LG**, Bodinayake CK, Nagahawatte, A, Vidanagama, D, Devasiri, V, Kodikara Arachchi, W, Kurukulasooriya, R, De Silva, D, Ostbye, T, Reller ME, Woods, CW. An Under-Recognized Influenza Epidemic Identified by Rapid Influenza Testing, Southern Sri Lanka, 2013. *Am J Trop Med Hyg*. Vol 92: 5, 1023-9, 2015.
6. **Tillekeratne LG**, Bodinayake CK, Nagahawatte, A, Vidanagama, D, Devasiri, V, Kodikara Arachchi, W, Kurukulasooriya, R, De Silva, D, Ostbye, T, Reller ME, Woods, CW. Use of Rapid Influenza Testing to Reduce Antibiotic Prescriptions Among Outpatients with Influenza-Like Illness in Southern Sri Lanka. *Am J Trop Med Hyg*. Aug 17 2015. PMID: 26283748.
7. **Tillekeratne LG***, Vidanagama D*, Tippalagama R, Lewkebandara R, Joyce M, Nicholson BP, Nagahawatte A, Bodinayake C, De Silva AD, Woods, CW. Extended-Spectrum β -Lactamase-Producing *Enterobacteriaceae* as a Common Cause of Urinary Tract Infections, Sri Lanka. *Infect Chemother*. 2016 Sep; 48(3):160-165.
* Co-first authors
8. Bodinayake CK*, **Tillekeratne LG***, Nagahawatte A, Devasiri V, Kodikara Arachchi W, Strouse JJ, Sessions OM, Kurukulasooriya R, Uehara A, Howe S, Ong XM, Tan S, Chow A, Tummalapalli P, De Silva AD, Østbye TO, Woods CW, Gubler DJ, Reller ME. Emergence of Epidemic Dengue-1 Virus in the Southern Province of Sri Lanka. *PLoS Negl Trop Dis*. 2016 Oct 10.
* Co-first authors
9. Dabrera TME, **Tillekeratne LG**, Fernando MSN, Kasturiaratchi STKG, Østbye T. Prevalence and Correlates of Leprosy in a High-risk Community setting in Sri Lanka. *Asia Pac J Public Health*. 2016 Sep 6.
10. Uehara A, Tissera HA, Bodinayake CK, Amarasinghe A, Nagahawatte A, **Tillekeratne LG**, Cui J, Reller ME, Palihawadana P, Gunasena S, Desilva AD, Wilder-Smith A, Gubler DJ, Woods CW, Sessions OM. Analysis of dengue serotype 4 in Sri Lanka during the 2012-2013 dengue epidemic. *Am J Trop Med Hyg*. 2017 Jul; 91(1):130-136.
11. **Tillekeratne LG**, Bodinayake CK, Dabrera T, Nagahawatte A, Arachchi WK, Sooriyaarachchi A, Stewart K, Watt M, Østbye T, Woods CW. Antibiotic overuse for acute respiratory tract infections in Sri Lanka: a qualitative study of outpatients and their physicians. *BMC Fam Pract*. 2017 Mar 16;18(1):37.

12. Tharindra H, Brown GD, Stankevitz K, Schoenfisch A, Amarasinghe S, De Silva V, **Tillekeratne LG**, Østbye T. Depressive Symptoms and Perceived Stress among Estate Rubber Tappers in Southern Sri Lanka (Accepted, Asia Pac J Public Health 2017)
13. Shapiro D, Bodinayake CK, Nagahawatte A, Devasiri V, Kurukulasooriya R, Hsiang J, Nicholson B, De Silva AD, Ostbye T, Reller ME, Woods CW, **Tillekeratne LG**. Burden and Seasonality of Viral Acute Respiratory Tract Infections Among Outpatients in Southern Sri Lanka. *Am J Trop Med*. 2017 Jul; 97(1): 88-96.
14. Dabrera TME, Pathmeswaran A, Kasturirathna A, **Tillekeratne G**, Østbye T. A Randomized Controlled Trial to Reduce Lifestyle Related Risk Factors for Non-Communicable Diseases through Funeral Societies in Sri Lanka. *Getao & Sociedade*. 2018; 12 (31).
15. Bodinayake CK*, **Tillekeratne LG***, Nagahawatte A, Devasiri V, Kodikara Arachichi W, Strouse JJ, Sessions OM, Kurukulasooriya R, Uehara A, Howe S, Ong XM, Tan S, Chow A, Tummalapalli P, De Silva AD, Østbye TO, Woods CW, Gubler DJ, Reller ME. Evaluation of the WHO 2009 Dengue Classification for diagnosis of Acute Dengue in a Cohort of Adults and Children in Sri Lanka during a Dengue-1 Epidemic. *PLoS Negl Trop Dis*. Accepted January 2018.
* Co-first authors

Chapters in books

1. **Tillekeratne, G**, Dunlevy, H, Cohn, J. Hemorrhagic Fevers: Epidemiology, pathophysiology and clinical features. In *Hemostasis and Thrombosis: Basic Principles and Clinical Practice*, 6th edition, edited by V.J. Marder, W.C. Aird, J.S. Bennett, S. Schulman, and G.C. White II. Lippincott Williams & Wilkins, November 2012.

Selected abstracts

1. **Tillekeratne, LG**, Thielman, NM, Kiwera, RA, Chu, HY, Kaale, L, Morpeth, SC, Mtwewe, S, Shao, JF, Bartlett, JA, Crump, JA. High mortality rate in a cohort of HIV-infected patients receiving home-based care in the Kilimanjaro Region, Tanzania, 2003-2005. XVI International AIDS Conference, August 2006.
2. Johnson, OJ, Benjamin, DK, Benjamin Jr, DK, Schimana, W, **Tillekeratne, LG**, Crump, JA, Landman, KZ, Mmbaga, BT, Kinabo, GD, Msuya, LJ, Shao, JF, Swai, ME, Cunningham, CK. Absolute Lymphocyte Count and WHO pediatric clinical stage as markers to assess need to initiate antiretroviral therapy among HIV-infected children in Northern Tanzania. XVI International AIDS Conference, August 2006.
3. **Tillekeratne, LG**, Feng, S, Schimana, W, Johnson, OJ, Shao, JF, Kinabo, GD, Mmbaga, BT, Msuya, LJ, Cunningham, CK. Use of clinical markers to identify pediatric HIV-infected patients who may benefit from early initiation of antiretrovirals in Northern Tanzania. 14th Conference on Retroviruses and Opportunistic Infections (CROI), February 2007.
4. Huang, W-T, Walton, K, **Tillekeratne, G**, McNeil, M, Duderstadt, S, Iskander, J. Unintentional injury following vaccination- a hypothesis generating study using the Vaccine Adverse Event Reporting System (VAERS). 43rd National Immunization Conference, March 2009.
5. Surrey, LF, **Tillekeratne, LG**, Edelstein, PH. *Mycobacterium bovis*- Bacille Calmette-Guerin Strain: A Rare Cause of Miliary Lung Infection. College of American Pathologists, September 2012.
6. **Tillekeratne, LG**, Linkin, DR, Obino, M, Omar, A, Wanjiku, M, Holtzman, D, Cohn, J. A Multi-faceted intervention to reduce rates of catheter-associated urinary tract infections in a resource-limited setting. 52nd ICAAC, September 2012.

7. Bodinayake, CK, **Tillekeratne, LG**, Nagahawatte, A, Devasiri, V, Kodikara Arachchi, W, Vidanagama, D, Ostbye, T, Gubler, DJ, Woods, CW, Reller, ME. Accuracy of Clinical Diagnosis of Dengue Fever in Southern Sri Lanka, 2012- 2013. 24th European Congress of Clinical Microbiology and Infectious Diseases, May 2014.
8. Bodinayake, CK, **Tillekeratne, LG**, Nagahawatte, A, Devasiri, V, Kodikara Arachchi, W, Kurukulasooriya, R, De Silva, D, Ostbye, T, Gubler, DJ, Woods, CW, Reller, ME. Patient Costs Associated with Healthcare Utilization and Decreased Productivity Due to Undifferentiated Acute Febrile Illness in Southern Sri Lanka. 2nd International Conference on Global Public Health, July 2014.
9. **Tillekeratne, LG**, Bodinayake, CK, Nagahawatte, A, Vidanagama, D, Devasiri, V, Kodikara Arachchi, W, Kurukulasooriya, R, De Silva, D, Ostbye, T, Reller, ME, Woods, CW. High Rate of Antibiotic Prescriptions for Outpatients with Influenza-Like Illness in Southern Sri Lanka. ID Week, October 2014.
10. Uehara A, Woods CW, Gubler DJ, Sessions OM, **Tillekeratne LG**, Reller ME, Bodinayake C, Nagahawatte A, De Silva D. Molecular and Epidemiologic Assessment of Dengue Fever in Southern Sri Lanka in 2012. American Society of Tropical Medicine and Hygiene, Nov 2014.
11. **Tillekeratne LG**, Bodinayake CK, Nagahawatte A, Vidanagama D, Devasiri V, Kodikara Arachchi W, Kurukulasooriya R, De Silva D, Ostbye T, Reller ME, Woods CW. Use of Rapid Influenza Testing to Reduce Antibiotic Use Among Outpatients with Influenza-Like Illness, Southern Sri Lanka, 2013- 2014. 25th European Congress of Clinical Microbiology and Infectious Diseases, April 2015.
12. **Tillekeratne LG**, Vidanagama D, Tippalagama R, Lewkebandara R, Joyce M, Nicholson B, Nagahawatte A, Bodinayake C, De Silva D, Woods CW. High prevalence of community-acquired urinary tract infections due to extended-spectrum β -lactamase- producing Enterobacteriaceae in southern Sri Lanka. American Society for Microbiology, May 2015.
13. Chao CC, Zhang Z, Belinskaya T, Woods C, Nicholson BP, **Tillekeratne LG**, Sessions OM, Hsiang J, Lewis M, Reller M, Bodinayake CK, Nagahawatte A, Devasiri V, Kodikara-Arachichi W, De Silva AD, Kurukulasooriya R, Ostbye T, Gubler DJ, and Ching W-M. Scrub typhus as a major cause of illness for patients with unknown fever origin in Galle, Sri Lanka. American Society of Tropical Medicine and Hygiene, November 2016.
14. Ching W-M, Chao CC, Zhang Z, Belinskaya T, Chen H-W, Woods C, Nicholson BP, **Tillekeratne LG**, Sessions OM, Hsiang J, Lewis M, Reller M, Bodinayake CK, Nagahawatte A, Devasiri V, Kodikara-Arachichi W, De Silva AD, Kurukulasooriya R, Ostbye T, Gubler DJ. Leptospirosis is one of the major diseases for patients with unknown fever origin in Galle, Sri Lanka. American Society of Tropical Medicine and Hygiene, November 2016.
15. Kurukulasooriya R, **Tillekeratne LG**, Wijayarathne WMDGB, Bodinayake CB, Rajapakshe MD, Umesha BG, Abewickrama TD, Anuradha KVT, De Silva AD, Nicholson BP, Østbye T, Woods CW, Nagahawatte A. High prevalence of suspected nosocomial colonization with methicillin-resistant Staphylococcus aureus at a tertiary care hospital in southern Sri Lanka. American Society of Tropical Medicine and Hygiene, November 2017.
16. Mutucumarana CP, Bodinayake CK, Nagahawatte A, Devasiri V, Kurukulasooriya R, Anuradha T, De Silva AD, Østbye T, Woods CW, Reller ME, **Tillekeratne LG**, Lantos PM. Geospatial Analysis of Dengue Emergence in Rural Areas in the Southern Province of Sri Lanka: 2012-2013. American Society of Tropical Medicine and Hygiene, November 2017.
17. Bodinayake CK, **Tillekeratne LG**, Nagahawatte A, Mutucumarana C, Devasiri V, Kurukulasooriya R, Ostbye T, Reller ME, Woods CW. The 2009 World Health Organization dengue classification over-estimates dengue disease severity in Sri Lanka. American Society of Tropical Medicine and Hygiene, November 2017.
18. Tharindra H, Brown GD, Stankevitz K, Schoenfisch A, Amarasinghe S, De Silva V, **Tillekeratne LG**, Østbye T. Depressive Symptoms and Perceived Stress among Estate Rubber Tappers in Southern Sri Lanka.

International Mental Health Conference, February 2018.

Professional awards and special recognitions:

1998, Research Science Institute, Center for Excellence in Education, Massachusetts Institute of Technology
1998, General Mills “Challenge U” Scholarship recipient
2000, American Heart Association Fellowship, Medical College of Ohio
2002, Breast Cancer Summer Undergraduate Research Program, Albany Medical School
2006, Charles Watts Travel Award, Duke University School of Medicine
2007, Young Investigator Award, Conference on Retroviruses and Opportunistic Infections
2007, Epidemiology Elective Program, Centers for Disease Control and Prevention
2008- 2010, Global Health Track member, Internal Medicine Residency, University of Pennsylvania
2011, Mary E. Groff Fellowship in Clinical Research Methods, University of Pennsylvania
2013, Fogarty Global Health Fellowship Award
2015, European Congress of Clinical Microbiology and Infectious Diseases Travel Award
2016, Hubert-Yeargan Center for Global Health, Career Development Award
2015-2017, Department of Medicine Career Development Bridge Funding Award, Duke University

Organizations and participation:

Infectious Diseases Society of America, member
International Society for Infectious Diseases, member
American Society of Tropical Medicine and Hygiene, member
American Society for Microbiology, member
European Society of Clinical Microbiology & Infectious Diseases, member
North Carolina Medical Society, member

American Journal of Tropical Medicine and Hygiene, reviewer
BMC Urology, reviewer
PLOS One, reviewer
Influenza and Other Respiratory Viruses, reviewer
Microbial Drug Resistance, reviewer
South African Medical Journal, reviewer
Research and Reports in Urology, reviewer
Therapeutics and Clinical Risk Management, reviewer

Teaching responsibilities including continuing education:

2011, Introduction to Clinical Medicine, University of Pennsylvania
2011-2012, Infectious Diseases Lectures to students rotating on service, University of Pennsylvania
2015- 2018, Infectious Disease Epidemiology in Global Settings- Surveillance, Prevention and Control; 3-credit Elective Course for Master of Science in Global Health; Duke University

Areas of research interests (basic and applied):

Global health
Antimicrobial resistance
Antibiotic stewardship
Infectious diseases diagnostics

External support:

a) Current:

- 1K23AI125677-01A1 Tillekeratne (PI) 2/2017- 1/2022
NIAID/NIH
Novel Diagnostics to Improve Antimicrobial Stewardship for Acute Respiratory Tract Infections in Resource-Limited Settings
To develop genomics-based diagnostics for use in resource-limited settings to improve antimicrobial stewardship.
- N/A Tillekeratne (PI) 6/2017- 5/2018
Duke Global Health Institute Pilot Grant
Improving Antimicrobial Use in Resource-Limited Settings: A Mixed-Methods Assessment of Need and Feasibility
To determine prevalence and indications for antibiotic use at three tertiary care hospitals in Sri Lanka, Kenya, and Tanzania and perform a baseline assessment of antibiotic stewardship at these sites.
- N/A Nagahawatte (PI) Tillekeratne (Co-I) 1/2017- 12/2019
National Science Foundation, Sri Lanka
Developing an effective epidemiological surveillance system for dengue in Southern Province of Sri Lanka
To develop a clinical and laboratory-based surveillance system for severe dengue in the Southern Province of Sri Lanka.
- N/A DiGiulio (PI) Tillekeratne (Co-I) 1/2017- 12/2017
Duke Global Health Institute
Chemical mixture toxicity of well water: investigating the potential role of pollutant mixtures in well water as a root cause for chronic kidney disease in Sri Lanka
To identify pollutants in well water as a cause of chronic kidney disease in the Anuradhapura District in Sri Lanka.
- N/A Tillekeratne (PI) 12/2015- 12/2016
Triangle Center for Evolutionary Medicine (TriCEM)
A One Health approach to antibiotic-resistant Enterobacteriaceae in South Asia
To determine the transmission and phylogenetic relationships of β -lactamases in Enterobacteriaceae in antenatal women, their infants, and animal and environmental sources.
- N/A Nagahawatte (PI) Tillekeratne (Co-I) 7/2016- 6/2018
University Grants Commission, Sri Lanka
Baseline colonization and in-hospital transmission of methicillin-resistant *Staphylococcus aureus* among surgical patients at Teaching Hospital Karapitiya.
- Online Duke Tillekeratne (co-PI) 2016- 2017
Infectious Disease Epidemiology in Global Settings
To continue development of the Duke Global Health Institute's first online class by including evaluation, instructional design, and media production support.
- NIAID/NIH Tillekeratne (PI) 9/2016- 8/2018
NIH Loan Repayment Program
The NIH Loan Repayment Programs (LRPs) are a set of programs established by Congress and designed to

recruit and retain highly qualified health professionals into biomedical or biobehavioral research careers.

a) Past:

R25 TW009337Vermund 4/4/2012-2/28/2017 1 calendar year
Vanderbilt-Emory-Cornell-Duke Consortium for Global Health Fellows (VECDor)
The Vanderbilt-Emory-Cornell-Duke Consortium (VECDor) trains global health researchers through a collaborative training program with overseas research institutions from low and middle-income countries with which our universities have worked for decades.
Role: Fellow awardee

Clinical activity:

Infectious Diseases Consult Service, Durham VA Medical Center, 6- 8 weeks per year
General Medicine, Durham VA Medical Center, 2 weeks per year
HIV and general infectious diseases clinic, Durham VA Medical Center, one half day per week

Participation in academic and administrative activities:

Antibiotic Decision Support Team, Durham VA Medical Center
Antibiotic Resistance Leadership Group, Antibiotic Stewardship Committee