

CURRICULUM VITAE

Myaing Myaing Nyunt, M.D., M.P.H., Ph.D.

Assistant Professor, Department of Medicine and Institute for Global Health
University of Maryland School of Medicine

Date June 11, 2017

Contact Information

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Education

1993 B.A., Natural Sciences, Bard College at Simon's Rock
2000 M.D., George Washington School of Medicine
2001 M.P.H., International Health, Johns Hopkins Bloomberg School of Public Health
2008 Ph.D., Clinical Investigation, Johns Hopkins Bloomberg School of Public Health
(Thesis advisor: Theresa A. Shapiro MD PhD)

Post Graduate Education and Training

2001 - 2003 Residency, General Medicine, Johns Hopkins Bayview Medical Center
2003 - 2008 Fellowship, Clinical Pharmacology, Johns Hopkins University School of Medicine

Certifications

None

Medical Licensures

Inactive: None
Active: Maryland

Employment History

Academic Appointments

2008 – 2014 Assistant Professor, tenure track, Department of International Health,
Global Disease Epidemiology and Control Program, Johns Hopkins
Bloomberg School of Public Health

2008 – 2014	Assistant Professor, tenure track, Division of Clinical Pharmacology, Departments of Medicine and Pharmacology and Molecular Sciences, Johns Hopkins School of Medicine
2012 – present	Visiting Professor, University of Public Health, Yangon, Myanmar
2014 – present	Assistant Professor, tenure track, University of Maryland School of Medicine
2014 – present	Adjunct Professor, Division of Clinical Pharmacology of the Department of Medicine and the Department of Pharmacology and Molecular Sciences Johns Hopkins University School of Medicine
2016 – present	Visiting Lecturer, University of Medicine I, Yangon, Myanmar

Professional Society Memberships

2002 - present	American Society of Tropical Medicine and Hygiene
2003 - 2015	American Society for Clinical Pharmacology and Therapeutics

Honors and Awards

1993	<u>Magna Cum Laude</u> , Bard College at Simon's Rock
2000	<u>Dean's Special Recognition Award</u> , George Washington University School of Medicine and Health Sciences
2001	<u>Travel Award</u> , The Open Society Institute, New York
2002	<u>Centennial Travel Award</u> , Pfizer Foundation/American Society of Tropical Medicine and Hygiene
2003 – 2005	<u>Fellowship Training Award</u> , "Clinical Pharmacology Training Program T32GM066691," Johns Hopkins University School of Medicine
2005 – 2007	<u>NIH Clinical Research Scholar Award (K12)</u>
2005 – 2007	<u>Postdoctoral Malaria Research Fellowship Award</u> , Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health (awarded but not accepted, in deference to K12)
2007 – 2008	<u>Trainee, "Clinical Pharmacology Training Program T32GM066691"</u> Johns Hopkins University School of Medicine
2009	<u>Faculty Development Award</u> , PhRMA Foundation
2010	<u>Faculty Development Award</u> , Johns Hopkins Center for Global Health
2012	<u>Faculty Award</u> , Johns Hopkins Center for AIDS Research
2015	<u>Faculty Award</u> , student summer research program, University of Maryland School of Medicine

Clinical Activities None

Clinical Expertise N/A

Scope of Clinical Practice N/A

Development of any Clinical Programs N/A

Administrative Service

Institutional Service

Johns Hopkins Bloomberg School of Public Health

- 2009 – 2013 Member, Steering Committee, Johns Hopkins Malaria Research Institute
- 2010 – 2013 Member, Committee on Equity, Diversity & Civility
- 2012 – 2014 Leader & organizer, Johns Hopkins University Initiative on Academic and Research Cooperation with Myanmar Ministry of Health
- 2013 – 2014 Member, Institutional Review Board

University of Maryland School of Medicine

- 2014 – Leader, Malaria programs in Myanmar
- 2015 – Director, Institute for Global Health Myanmar
- 2015 – Member, Working group, Institute for Global Health seminar series

Local and National Service

- 2009 – 2011 Member, Safety Monitoring Committee, NIAID Intramural Research Program
- 2012 – 2013 Member, Data Safety and Monitoring Board, NIAID, NIH
- 2015 Independent reviewer, World Health Organization Evidence Review Group for Malaria in Pregnancy
- 2016 – Advisor, National Health Governance Core Group for development of health strategies for new government in Myanmar
- 2006 – 2016 Member, Benjamin H. Kean Travel Fellowship in Tropical Medicine Committee, American Society of Tropical Medicine & Hygiene
- 2006 – 2016 Member, Scientific Program Committee, American Society of Tropical Medicine & Hygiene
- 2016 – Member, Steering Committee, Women leaders in global health, Stanford University

Teaching Service

Medical Student Teaching

- 2008 – 2009 Malaria lecture, Pathophysiology, Lecturer, Johns Hopkins School of Medicine
- 2008 – 2012 Clinical Research small group, Leader, Johns Hopkins School of Medicine
- 2010 – 2015 Malaria, Gene to Society, Lecturer, Johns Hopkins School of Medicine

Workshops/Seminars

Johns Hopkins Bloomberg School of Public Health

- 2008 – 2015 Lecturer, Malaria and co-infections in pregnancy, Malariology
- 2008 – 2009 Leader, Global Disease Epidemiology and Control MHS seminar
- 2009 – 2012 Leader, Global Disease Epidemiology and Control PhD seminar

University of Maryland School of Medicine

2014 – Student Summer Research Programs (Lecturer)

Resident and Fellow Teaching

None

Mentoring – Faculty Advisor

2008 – 2011 Rupak Shivakoti, MHS, Johns Hopkins University
 2009 – 2010 Nathan Miller, Ph.D. candidate, Johns Hopkins University
 2009 – 2011 Xue Wang, MSPH, Johns Hopkins University
 2009 - 2010 Mahmood El-Gasim, Summer Internship, MD, Johns Hopkins University
 2010 – 2011 Rouxi Dai, MPH, Johns Hopkins University
 2010 – 2012 Jodi Liu, MSPH, Johns Hopkins University
 2010 – 2012 Renee Sasha De Leon, MSPH, Johns Hopkins University
 2011 – 2012 Kristin Velej, MPH, Johns Hopkins University
 2011 – 2013 Akshay Gupte, MSPH, Johns Hopkins University
 2011 – 2013 Chen Chen, MSPH, Johns Hopkins University
 2014 – Zayar Han, MBBS, Trainee, UMB-Myanmar focused training program in malaria
 2014 – Hnin Wai Lwin, MBBS, PhD, Trainee, UMB-Myanmar focused training program in malaria
 2014 – Huang Fang, MBBS, PhD, Visiting faculty
 2015 – Khine Zaw Oo, MBBS, PhD, Fogarty Scholar on research ethics, UMB
 2015 – Mo Mo Than, MBBS, Fogarty Scholar on research ethics, UMB
 2015 – Min Wun, MBBS, Fogarty Scholar on research ethics, UMB
 2015 – Zaw Zaw Oo, MBBS, Fogarty Scholar on research ethics, UMB
 2016 – 2017 Boris Tizenberg, MD candidate, Summer Internship, UMB
 2016 – Lindsay Morgan, PhD candidate, UMB
 2016 – Sonia Agarwal, PhD candidate, UMB
 2016 Khin Mar Myint, MBBS, PhD, Fullbright Scholarship on Medical Education Reform in Myanmar

Doctoral Thesis Committee

2010 Christen Fornadale, “Anopheline mosquito foraging behavior in an area with recent insecticide treated bed net introduction in southern Zambia,” Committee member
 2011 Laura Norris, “Effects of insecticide-treated bed net on Anopheline and Culicine mosquito behavior and insecticide resistance in southern Zambia,” Committee member
 2014 – Lindsay Morton, University of Maryland School of Medicine, Committee member, co-mentor
 2014 – Sonia Agrawal, University of Maryland School of Medicine, Committee member, primary faculty mentor

Postdoctoral Fellow Supervisor

2014 – 2017 Kayvan Zainabadi, PhD

2015 – Andrew Pike, PhD
 2016 – Jason Bailey, PhD
 2016 – Janie Anne Zuber, MD

Grant Support

Active Grants:

04/01/2017 – 3/31/2023 (mPI: 30% - mPI: Plowe)
 Myanmar Regional Center of Excellence for Malaria Research
 NIAID 1 U19 AI129386-01
 Total direct costs: \$6,981,489
Role: Direct malaria research and training program in Myanmar; direct & lead study conduct, data analysis and interpretation

06/01/2017 – 05/31/2022 (coPI: 5% - co-PI: Silverman)
 Developing a Master's Degree Program in Research Ethics in Myanmar
 NIH Fogarty International Center 1R25TW010516-01
 Total direct costs: \$1,210,411
Role: Co-lead and direct a training program to initiate graduate degree training program focusing on research ethics

04/01/2017 – 03/31/2018 (PI: 1.5%)
 New tool for seroepidemiology of malaria: US-Myanmar collaborative study
 U.S.-Japan Cooperative Medical Sciences Program, CRDF Global
 Total direct costs: \$41,200
Role: Direct & lead study conduct, data analysis and interpretation

10/29/2014 – 10/31/2017 (PI: 58%)
 Evidence and action for malaria elimination in Myanmar
 Bill & Melinda Gates Foundation, OPP1109551
 Total costs: \$5,138,467
Role: Direct malaria program in Myanmar; direct & lead study conduct, data analysis and interpretation

02/01/2017 – 1/31/2018 (PI: 2%)
 Malaria elimination effort among mobile migrant plantation workers in Cambodia and Myanmar
 Population Services International/Bill and Melinda Gates Foundation, OPP1132753
 Total costs: \$199,982
Role: Direct research conduct, direct & lead data analysis and interpretation

02/03/2017 – 01/31/2022 (Co-investigator:14% -PI: Harrison)

Identification and validation of molecular markers of piperazine resistance

NIAID R01AI125579

Total direct costs: \$196,101

Role: Direct research conduct, direct & lead data analysis and interpretation

07/01/2016 – 12/31/2017

(Co-Investigator: 20% - PI: CV Plowe)

Eliminating border-based malaria

Community Partners International ICC_CPI-001_00090794

Total costs: \$380,748

Role: Direct research conduct, direct & lead data analysis and interpretation

05/15/2017 – 05/14/2019
(Agreement ongoing)

(PI: 5%)

Defeat Malaria Initiative Myanmar

University Research Corporation/President's Malaria Initiative,

USAID RFA-482-A-16-00001

Total costs: \$596,348

Role: Technical assistance, direct & lead sample and data analysis and interpretation

Pending Grants:

04/01/2017 – 03/31/2021

(PI: 57%)

Evidence and action for malaria elimination in Myanmar

Bill & Melinda Gates Foundation

Total costs: \$7,500,000

Role: Direct and led research and training program, study conducts, data analysis, interpretation

04/01/2018 – 03/31/2023

(co-PI: xx% - co-PI: Plowe)

Global Infectious Disease Research Training Program (D43)

Fogarty International Center, PAR-17-057

Total costs: \$230,000 per year

Role: Co-direct and provide training

Completed Grants

07/01/15 – 04/30/16

(Co-investigator: 1% - PI: CV Plowe)

Malaria indicator survey in Myanmar

Malaria Consortium

Total Direct Costs: \$26,273

07/01/2016 – 12/31/2017

(Co-Investigator: 20% - PI: CV Plowe)

Eliminating border-based malaria

Community Partners International ICC_CPI-001_00090794

Total Direct Costs: \$599,697

04/01/13 – 03/31/15

(PI: 30%)

Malaria and Bioethics: Common ground for public health actions in Myanmar
Open Society Foundations, OR-2013-04097
Total Direct Costs: \$397,871

12/01/12 – 11/30/15 (Co-investigator: 4%; PI - C. Plowe)
Pilot studies of the molecular epidemiology of drug-resistant malaria in Myanmar
NIAID, R03 AI101680
Total Direct Costs: \$10,000

12/6/12 – 12/5/15 (PI: 20%)
Burden of malaria and co-infections in pregnant women in Myanmar
NIH/NIAID fund via Johns Hopkins Center for AIDS Research
1P30AI094189-01A1
Total Direct Costs: \$50,000

12/23/10 – 12/22/15 (Co-PI: Protocol vice-Chair, 7%; PI - F. Aweeka)
Antimalarial pharmacology in HIV co-infected children and pregnant women in Uganda
NICHD, 1R01HD068174-01
Total Direct Costs: \$15,448, 7%

01/01/10 – 12/31/13 (PI: 15%)
Efficacy and safety of quinine in the treatment of falciparum malaria in HIV-infected pregnant women in Mali
Johns Hopkins Center for Global Health / Bloomberg Family Foundation
Total Direct Costs: \$50,000

06/30/12 – 03/31/14 (PI: 60%)
Malaria and Bioethics: Common ground for public health actions in Myanmar
Open Society Foundations
Total Direct Costs: \$284,506

03/01/10 – 02/28/12 (PI: 20%)
Pharmacokinetics of quinine in HIV-infected pregnant women
Johns Hopkins Malarial Research Institute and Bloomberg Family Foundation
Total Direct Costs: \$75,000

2010 – 2012 (Consultant: 0%; PI – C. Plowe)
Molecular surveillance of drug resistant malaria in the Greater Mekong Sub-Region
USAID (AID-486-C-09-00004)
Total Direct Costs: \$1,165,136
Role: Helped coordinate, communicate and training, study design and data analysis

07/01/09 – 12/31/11	(PI: 75%) Clinical Pharmacology, safety and efficacy of antimalarial drugs in pregnant women with HIV PhRMA Foundation Total Direct Costs: \$222,222
01/01/09 – 12/31/12	(Co-investigator: 4%; PI - Sullivan/Sack/Khan) Mapping malaria epidemiology in Bangladesh Johns Hopkins Malaria Research Institute and Bloomberg Family Foundation Total Direct Costs: \$500,000 <i>Role: co-led protocol development, study conduct, data analysis, manuscript development and publication</i>
09/01/10 – 08/31/12	(PI: 20%) Malaria treatment outcomes and pharmacokinetics in HIV-infected pregnant women NIAID (1R34AI090122-01) Total Direct Costs: \$150,000
2008–2010	(PI: 0%) Effects of long term administration of lopinavir/ritonavir on the pharmacokinetics of quinine in healthy volunteers Johns Hopkins Malaria Research Institute and Bloomberg Family Foundation Total Direct Costs: \$75,000

Publications

Peer-reviewed journal articles

1. **Nyunt M**, Pisciotta J, Feldman AB, Thuma P, Scholl PF, Demirev PA, Lin JS, Shi L, Kumar N, Sullivan DJ Jr. Detection of *Plasmodium falciparum* in pregnancy by Laser Desorption Mass Spectrometry. *American Journal of Tropical Medicine and Hygiene*. 2005; 73(3): 485-490.
2. **Nyunt MM**, Becker S, MacFarland RT, Chee P, Scarborough R, Everts S, Calandra GB, Hendrix CW. Pharmacokinetic Interaction between AMD11070 and substrates of CYP3A4 and 2D6 enzymes in healthy volunteers. *JAIDS*. 2008; 47(5): 559-65.
3. **Nyunt MM**, Hendrix CW, Bakshi RP, Kumar N, Shapiro TA. Phase I/II evaluation of the prophylactic antimalarial activity of pafuramidine in healthy volunteers challenged with *Plasmodium falciparum* sporozoites. *American Journal of Tropical Medicine and Hygiene*. 2009; 80(4): 528-31.
4. **Nyunt MM**, Adam I, Kayentao K, van Dijk J, Thuma P, Mauff K, Little F, Cassam Y, Guirou E, Traore B, Doumbo O, Sullivan D, Smith P, Barnes KI. Pharmacokinetics of sulfadoxine and pyrimethamine in Intermittent Preventive Treatment of malaria in pregnancy. *Clinical Pharmacology and Therapeutics*. 2010; 87(2):226-34.

5. Khan WA, Sack DA, Ahmed S, Prue CS, Alam MS, Haque R, Khyang J, Ram M, Akter J, **Nyunt MM**, Norris D, Glass G, Shields T, Haq MZ, Cravioto A, Sullivan DJ Jr. Mapping hypoendemic, seasonal malaria in rural Bandarban, Bangladesh: a prospective surveillance. *Malaria Journal*. 2012; 10:124. doi: 10.1186/1475-2875-10-124.
6. **Nyunt MM**, Lu Y, El-Gasim M, Parsons TL, Petty BG, Hendrix CW. Effects of ritonavir-boosted lopinavir on the pharmacokinetics of quinine. *Nature Publishing Clinical Pharmacology and Therapeutics*. 2012;91(5):889-95.
7. Prue CS, Shannon KL, Khyang J, Edwards LJ, Ahmed S, Ram M, Shields T, Hossain MS, Glass GE, **Nyunt MM**, Sack DA, Sullivan DJ Jr, Khan WA. Mobile phones improve case detection and management of malaria in rural Bangladesh. *Malaria Journal* 2013; 12:48. doi: 10.1186/1475-2875-12-48.
8. Kyaw MP, Nyunt MH, Chit K, Aye MM, Aye KH, Aye MM, Lindegardh N, Tarning J, Imwong M, Jacob CG, Rasmussen C, Perin J, Ringwald P, **Nyunt MM**. Reduced susceptibility of *Plasmodium falciparum* to artesunate in southern Myanmar. 2013; *PLoS One* 2013; 8:e57689.
9. Ahmed S, Galagan S, Scobie H, Khyang J, Prue CS, Khan WA, Ram M, Alam MS, Haq MZ, Akter J, Glass G, Norris DE, **Nyunt MM**, Shields T, Sullivan DJ, Sack DA. Malaria hotspots drive hypoendemic transmission in the Chittagong Hill Tracts of Bangladesh. *PLoS One* 2013; 8:e69713.
10. Kayentao K, Guirou EA, Doumbo OK, Venkatesan M, Plowe CV, Parsons TL, Hendrix CW, **Nyunt MM**. Preliminary study of quinine pharmacokinetics in pregnant women with malaria-HIV co-infection. *Am J Trop Med Hyg*. 2014; 90(3):530-4.
11. Khan WA, Galagan SR, Prue CS, Khyang J, Ahmed S, Ram M, Alam MS, Haq MZ, Akter J, Glass G, Norris DE, Shields T, Sack DA, Sullivan DJ Jr, **Nyunt MM**. Asymptomatic *Plasmodium falciparum* malaria in pregnant women in the Chittagong Hill Districts of Bangladesh. *PLoS One* 2014; 9(5):e98442. doi: 10.1371/journal.pone.0098442.
12. Takala-Harrison S, Jacob CG, Arze C, Cummings MP, Silva JC, Dondorp AM, Fukuda MM, Hien TT, Mayxay M, Noedl H, Nosten F, Kyaw MP, Nhien NT, Imwong M, Bethell D, Se Y, Lon C, Tyner SD, Saunders DL, Ariey F, Mercereau-Puijalon O, Menard D, Newton PN, Khanthavong M, Hongvanthong B, Starzengruber P, Fuehrer HP, Swoboda P, Khan WA, Phyo AP, **Nyunt MM**, Nyunt MH, Brown TS, Adams M, Pepin CS, Bailey J, Tan JC, Ferdig MT, Clark TG, Miotto O, MacInnis B, Kwiatkowski DP, White NJ, Ringwald P, Plowe CV. Independent Emergence of Artemisinin Resistance Mutations Among *Plasmodium falciparum* in Southeast Asia. *J Infect Dis*. 2015;Mar 1;211(5):670-9. doi: 10.1093/infdis/jiu491. Epub 2014 Sep 1.
13. Galagan SR, Prue CS, Khyang J, Khan WA, Ahmed S, Ram M, Alam MS, Haq MZ, Akter J, Streatfield PK, Glass G, Norris DE, **Nyunt MM**, Shields T, Sullivan DJ, Sack DA. The practice of jhum cultivation and its relationship to *Plasmodium falciparum* infection in the Chittagong Hill Districts of Bangladesh. *Am J Trop Med Hyg*. 2014; 91(2):374-83.
14. Brown TS, Jacob CG, Silva JC, Takala-Harrison S, Djimdé A, Dondorp AM, Fukuda M, Noedl H, **Nyunt MM**, Kyaw MP, Mayxay M, Hien TT, Plowe CV, Cummings MP. *Plasmodium falciparum* field isolates from areas of repeated emergence of drug resistant malaria show no evidence of hypermutator phenotype. *Infect Genet Evol*. 2014 Dec 13. pii: S1567-1348.

15. Shannon KL, Ahmed S, Rahman H, Prue CS, Khyang J, Ram M, Haq MZ, Chowdhury A, Akter J, Glass GE, Shields T, **Nyunt MM**, Khan WA, Sack DA, Sullivan DJ Jr. Hemoglobin E and Glucose-6-Phosphate Dehydrogenase Deficiency and Plasmodium falciparum Malaria in the Chittagong Hill Districts of Bangladesh. *Am J Trop Med Hyg.* 2015; 93(2): 281-6.
16. Travassos MA, Coulibaly D, Bailey JA, Niangaly A, Adams M, **Nyunt MM**, Ouattara A, Lyke KE, Laurens MB, Pablo J, Jasinskas A, Nakajima R, Berry AA, Takala-Harrison S, Kone AK, Kouriba B, Rowe JA, Doumbo OK, Thera MA, Laufer MK, Felgner PL, Plowe CV. Differential recognition of terminal extracellular Plasmodium falciparum VAR2CSA domains by sera from multigravid, malaria-exposed Malian women. *Am J Trop Med Hyg.* 2015; 92(6):1190-4.
17. Huang F, Takala-Harrison S, Jacob CG, Liu H, Sun X, Yang H, **Nyunt MM**, Adams M, Zhou S, Xia Z, Ringwald P, Bustos MD, Tang L, Plowe CV. A Single Mutation in K13 Predominates in Southern China and Is Associated With Delayed Clearance of Plasmodium falciparum Following Artemisinin Treatment. *J Infect Dis.* 2015; 212(10):1629-35. doi: 10.1093/infdis/jiv249. Epub 2015 Apr 24. PMID: 25910630
18. Adams M, Joshi SN, Mbambo G, Mu AZ, Roemmich SM, Shrestha B, Strauss KA, Johnson NE, Oo KZ, Hlaing TM, Han ZY, Han KT, Thura S, Richards AK, Huang F, **Nyunt MM**, Plowe CV. An ultrasensitive reverse transcription polymerase chain reaction assay to detect asymptomatic low-density Plasmodium falciparum and Plasmodium vivax infections in small volume blood samples. *Malar J.* 2015 Dec 23;14:520. doi: 10.1186/s12936-015-1038-z.
19. **Nyunt MM**, Nguyen VK, Kajubi R, Huang L, Ssebuliba J, Kiconco S, Mwima MW, Achan J, Aweeka F, Parikh S, Mwebaza N. Artemether-Lumefantrine Pharmacokinetics and Clinical Response Are Minimally Altered in Pregnant Ugandan Women Treated for Uncomplicated Falciparum Malaria. *Antimicrob Agents Chemother.* 2015 Dec 14;60(3):1274-82. doi:10.1128/AAC.01605-15.
20. Kajubi R, Huang L, Were M, Kiconco S, Li F, Marzan F, Gingrich D, **Nyunt MM**, Ssebuliba J, Mwebaza N, Aweeka FT, Parikh S. Parasite Clearance and Artemether Pharmacokinetics Parameters Over the Course of Artemether-Lumefantrine Treatment for Malaria in Human Immunodeficiency Virus (HIV)-Infected and HIV-Uninfected Ugandan Children. *Open Forum Infect Dis.* 2016 Dec 15;3(4):ofw217. doi: 10.1093/ofid/ofw217. PMID: 28018925
21. Shannon KL, Khan WA, Sack DA, Alam MS, Ahmed S, Prue CS, Khyang J, Ram M, Haq MZ, Akter J, Glass GE, Shields TM, Galagan SR, **Nyunt MM**, Sullivan DJ Jr. Subclinical Plasmodium falciparum infections act as year-round reservoir for malaria in the hypoendemic Chittagong Hill districts of Bangladesh. *Int J Infect Dis.* 2016 Aug;49:161-9. doi: 10.1016/j.ijid.2016.06.019.
22. Kajubi R, Huang L, Were M, Kiconco S, Li F, Marzan F, Gingrich D, **Nyunt MM**, Ssebuliba J, Mwebaza N, Aweeka FT, Parikh S. Parasite Clearance and Artemether Pharmacokinetics Parameters Over the Course of Artemether-Lumefantrine Treatment for Malaria in Human Immunodeficiency Virus (HIV)-Infected and HIV-Uninfected Ugandan Children. *Open Forum Infect Dis.* 2016 Dec;15;3(4):ofw217. doi: 10.1093/ofid/ofw217.
23. de Kock M, Tarning J, Workman L, **Nyunt MM**, Adam I, Barnes KI, Denti P. Pharmacokinetics of Sulfadoxine and Pyrimethamine for Intermittent Preventive Treatment of

Malaria During Pregnancy and After Delivery. *CPT Pharmacometrics Syst Pharmacol*. 2017 Jun 9. doi: 10.1002/psp4.12181.

24. Fang H, Takala-Harrison S, Liu H, Xu J, Yang H, Adams M, Shrestha B, Mbambo G, Rybock D, Zhou S, Xia Z, Zhou X, Plowe CV, **Nyunt MM**. Prevalence of clinical and subclinical *P. falciparum* and *P. vivax* malaria in two remote rural communities on the China-Myanmar border. Accepted in *Am J Trop Med Hyg*. 04 April 2017.
25. Zainabadi K, Adams M, Han ZY, Lwin HW, Han KT, Ouattara A, Thura S, Plowe CV, **Nyunt MM**. A novel nuclei acid extraction method for *Plasmodium falciparum* and *P. vivax* from dried blood spots for ultrasensitive detection of low-density malaria infections. Accepted in *Malaria J*. 12 June 2017.
26. Rasmusse C, Nyunt MM, Ringwald P. Caution needed before declaring artemisinin resistance emergence in Africa? Accepted in *New Eng J Med* 11 June, 2017.

Papers submitted or in preparation

1. Zainabadi K, Smithius F, Dhorda M, Dondorp A, Adams M, Han ZY, Lwin HW, Han KT, Plowe CV, **Nyunt MM**. Comparison of ultrasensitive methods for the detection of asymptomatic malaria: Results from a cross-sectional survey in Myanmar. Submitted to *Am J Trop Hyg* July 2017.
2. Han KT, Lin K, Myint MK, Thi A, Aye KH, Han ZY, Moe M, Bustos MD, Ringwald P, Plowe CV, **Nyunt MM**. Therapeutic efficacy of artemisinin-based combination therapy for *Plasmodium falciparum* and Kelch 13 gene mutations in Myanmar. To be submitted to *PlosONE*.
3. Han KT, Thi A, Lin Z, Kyaw MP, Wai KT, Aye KH, Aung PP, Adams M, Takala-Harrison S, Plowe CV, **Nyunt MM**. Heterogeneous prevalence of asymptomatic malaria and low prevalence of HIV in pregnant women in Myanmar. To be submitted to *PlosONE*.
4. Thura S, Morton L, Maung PM, Khaing AA, Zainabadi K, Adams M, Han KT, Thi A, Plowe CV, **Nyunt MM**. Evaluation of targeted mass treatment of malaria in Tanintharyi Region, Myanmar. To be submitted to *J Infect Dis*.
5. Wai KT, Myint SL, Maung TM, **Nyunt MM**. Assessment of knowledge, attitude and practice in seeking care to prevent maternal death: A cross-sectional study in a remote region of Myanmar. To be submitted to *PlosONE*.
6. Zuber JA, Nyunt MM, Takala-Harrison S. Mass drug administration in the context of multidrug resistant malaria. To be submitted to *Infection and Drug Resistance in Aug 2017*.

Reviews (peer-reviewed)

1. **Nyunt MM**, Plowe CV. Pharmacologic advances in the global control and treatment of malaria: Combination therapy and resistance. *Clinical Pharmacology and Therapeutics*

2007; 82 (5): 601-605.

2. MalERA consultative group on Drugs. Plowe CV. A Research Agenda for Malaria Eradication: Drugs. *PLoS Medicine*. 2011; 8:e1000402.

Book Chapters

1. **Myaing M. Nyunt**. Public health problems on Burma Frontiers: A window into a nation in crisis. In *Surgery and healing in the developing world*. Geelhoed (ed.). 2005. Landes Bioscience, Georgetown, TX.
2. **Nyunt MM**, Plowe CV. Malaria. In *Pharmacology and Therapeutics: Principles to Practice*. Waldman and Terzic (ed.). 2008. Elsevier, Philadelphia, PA.
3. Andrea Berry, Myaing **M. Nyunt** and Christopher V. Plowe. Malaria: Clinical and Epidemiological Aspects. In *Immunology of Infectious Diseases*. Kaufmann S, Rouse B, Sacks D (ed.). 2010. ASM Press, Washington DC.

Editorials

1. **Nyunt MM** and Plowe C. Malaria as a Catalyst for Change in Myanmar [Commentary]. Roll Call, August 18, 2015.
2. **Nyunt MM** and Plowe C. Pursuing disease diplomacy in Myanmar [Op-Ed]. The Los Angeles Times, December 14, 2015.

Published Online Media

1. Nyunt, Myaing Myaing. Building an Open Burma Through Medical Ethics [Video, Web]. Grantee Spotlight, Open Society Foundation, December 19, 2014, by Sebastian Krueger.
2. "Student activist returns home to fight malaria" Science Magazine [featured article], April 21, 2016, by Leslie Roberts <http://www.sciencemag.org/news/2016/04/student-activist-returns-home-fight-malaria>

Major Invited Lectures/Panels

Local

1. Phase I/II evaluation of the causal prophylactic activity of pafuramidine in healthy volunteers challenged with *Plasmodium falciparum*. Baltimore-Washington Malaria Meeting, Johns Hopkins Bloomberg School of Public Health, 2008
2. Pharmacokinetics of sulfadoxine and pyrimethamine in pregnancy. Malaria Interest Group, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, 2008
3. Antimalarial Drug Efficacy and Safety in Pregnancy: the role of understanding drug behavior.

Malaria in Pregnancy Panel, Global Health Council. Washington DC, 2009

4. Balancing family and Career in International Health. Fogarty International Clinical Research Training for Scholars and Fellows Program, Fogarty International Center, NIH. Bethesda, MD, 2011
5. Clinical studies of antimalarial and antiretroviral drugs in pregnant women: Issues in Clinical Research: Enrolling pregnant women. Discussion Panel. Office of Research on Women's Health, NICHD, Bethesda, MD, 2011
6. Impact of pregnancy on antimalarial pharmacokinetics. World Malaria Day, Johns Hopkins Malaria Research Institute, Bloomberg School of Public Health, Baltimore, MD, 2012
7. Determinants of antimalarial drug efficacy: More to the story than drug resistance. Armed Forces Health Surveillance Center, Division of Global Emerging Infections Surveillance and Response. Silver Spring, MD, 2012
8. Malaria and Bioethics: Common ground for public health actions in Myanmar. Johns Hopkins Center for Health and Human Rights, Baltimore, MD, 2012

International

1. Drugs in Malaria Eradication: Lessons from the Past. Malaria Eradication Research Agenda. Bill and Melinda Gates Foundation, Bangkok, Thailand, 2010
2. Malaria and antimalarial drugs in pregnant women. 13th Annual Scientific Conference Malaria sub-meeting, ICDDR,B, Dhaka, Bangladesh, 2011
3. Role of Pharmacokinetics in Understanding Artemisinin-based Combination Therapy: Host, Parasites and Drug Interaction. Department of Medical Research, Myanmar Ministry of Health, Yangon, Myanmar, 2012
4. Factors influencing drug treatment outcomes. Annual Myanmar National Health Congress. Yangon, Myanmar, Myanmar Ministry of Health, 2013
5. International research collaboration and collateral benefits in community capacity development in Myanmar. 5th International Conference on public health among countries of greater Mekong sub-Region. World Health Organization, Geneva, Switzerland?, 2013
6. Report from Myanmar: Delaying artemisinin resistance in India consultation. The Public Foundation of India and National Institute of Malaria Research, New Delhi, India. Department of International Development, UK, 2014
7. Malaria research and capacity building in support of malaria elimination in Myanmar. E-Asia Research Collaboration opportunities in emerging infectious diseases and cancer priorities in southeast Asia and the Pacific rim, Yangon Myanmar, 2015
8. Malaria as a catalyst: Working together towards malaria elimination. Myanmar Military Medical Conference. Directorates of Medical Services. Yangon, Myanmar, 2016
9. International collaboration in global health: Malaria as a model. Conference on acute care and emergency medicine. Mandalay, Myanmar, 2016

10. Engaging diverse communities in Myanmar. Eliminate Partners & Malaria Modelling Consortium. The Bill & Melinda Gates Foundation, London, UK, 2016

Conference Organizer, Session Chair

17-20 September, 2012	National Workshop on the Promotion of Bioethics, Yangon, Myanmar, World Health Organization, Co-director
12-16 November, 2012	Workshop on academic cooperation between Johns Hopkins University and Myanmar Ministry of Health, Yangon, Myanmar, Open Society Foundations, Director
21-25 January, 2013	Clinical and laboratory quality management in malaria research and surveillance, Yangon, Myanmar, NIH Fogarty International Center, Co-director
25-26 January, 2014	Optimization of Ethic Review Committee, Defense Services Medical Research Center, Myanmar, Open Society Foundations, Director
27-29 January, 2014	Faculty development in bioethics and professionalism, Universities of Medicine, Myanmar, Open Society Foundations, Director
1-2 February, 2014	Introduction of professionalism in medical education, Universities of Medicine and Myanmar Medical Association, Open Society Foundations, Director
2-4 August, 2015	Malaria elimination Conference, Center for Strategic and International Studies, Washington DC, Co-Director
21 February, 2017	Data review conference for malaria mass drug administration, Nay Pyi Taw, Myanmar

Consultantship

2012 – 2013	Consultant & Liaison, Academic Cooperation between the Johns Hopkins University and Myanmar Ministry of Health
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Research program building/Leadership

2012 –	Intellectual capacity building and community participation in medical research in Myanmar, Principle Investigator
2012 –	Malaria and bioethics: Common ground for Public Health Actions in Myanmar, Principle Investigator
2014 –	Research Ethics Training Initiative in Myanmar, Co-Director
2015 –	Institute for Global Health Myanmar, Director