

# CURRICULUM VITAE

**Name:** John Mark S. Velasco, MD, MPH, MSc, DTM&H

**Education:**

Liverpool School of Tropical Medicine	DTM&H	Tropical Medicine & Hygiene (merit)	2015-2015
University of London	MSc	Clinical Trials	2010-2013
University of London (LSHTM)	PgDip	Clinical Trials	2010-2011
University of Iowa, USA	Certificate	Emerging Infectious Disease Epidemiology	2009-2010
University of the Philippines	Masters	Public Health	2007-2010
University of the Philippines	MD	Doctor of Medicine	1999-2004
University of the Philippines	BS	Biology (cum laude)	1995-1999

**Certifications:**

- Philippine Advanced Biorisk Officer Training 2.0 (Q1-Q4) conducted by UP Manila Institutional Biosafety Committee, Philippine Biosafety and Biosecurity Association Inc and US Biosecurity Engagement Programme (2013 – 2014)
- Certified IATA shipper (class 6.2), Transportation Workshop given by International Biological Threat Reduction and Sandia National Laboratories, 31 May 2016, Siem Reap, Cambodia.
- Vaccine Trials: Methods and Best Practices, Johns Hopkins Bloomberg School of Public Health Coursera, October – December 2012.
- International Society for Disease Surveillance (ISDS), Tufts University School of Medicine, and
- Tufts Health Care Institute: An Introduction to Syndromic Surveillance for Clinicians and Public Health Practitioners. Nov 2011.
- US FDA Office of Orphan Products Development and US NIH Office of Rare Diseases
- Research Science of Small Clinical Trials Course, February – March 2010
- International Vaccine Institute Advanced Course on Vaccinology in Asia-Pacific Regions, May 2007

**Work Experience:**

**Regional Clinical Investigator April 2015-present** (Department of Virology (USAMD-AFRIMS))

Responsibilities include:

- oversee and provide support for Department of Virology, USAMD-AFRIMS research projects and project implementation activities across the Asian Region
- facilitation of inter-agency communication and good working relationships with national agencies and international collaborators within the region
- serves as the AFRIMS liaison officer for the US embassy and USAID
- principal investigator and co-investigator of several research projects implemented in the Asian region
- develop protocols for submission and funding
- serve as biosafety officer of the AFPMC-AFRIMS collaborative molecular laboratory in Quezon City, Philippines

**Deputy Head/ Physician Research Coordinator 2006-2015**

Philippines AFRIMS Virology Research Unit Department of Virology, USAMD-AFRIMS

Responsibilities include:

- oversee and provide support for USAMD-AFRIMS research projects and activities in Manila and Cebu which includes human influenza surveillance, fever-based electronic surveillance via SMS, service specimen testing for dengue, Multi-drug resistance organisms surveillance, biosafety and capacity building for Department of Agriculture, Phase 3 dengue vaccine trial
- facilitation of inter-agency communication and good working relationships with national agencies (Department of Health, Department of Agriculture, National Epidemiology Center, National Center for Disease Prevention and Control, Research Institute for Tropical Medicine) and international NGOs based in the Philippines
- member of the Philippines Health Cluster team (composed of local and international NGOs in the Philippines e.g. Red Cross, Merlin, Save the Children, MSF, UNICEF etc) chaired by WHO Country Office and Department of Health Emergency Management Staff
- serves as the AFRIMS liaison officer for the US embassy and USAID
- develop standard operating procedures (SOPs) and study-specific procedures (SSPs)
- performs quality control to ensure that studies are conducted in according with all applicable regulatory requirements
- primary lead in guiding design, construction, equipping and maintaining of BSL-2 molecular labs for influenza PCR, dengue PCR, and multi-drug resistant organism testing in a tertiary hospital in the Philippines
- principal investigator and co-investigator of several research projects implemented in the Philippines which includes national influenza surveillance, Electronic Disease Surveillance in collaboration with Johns Hopkins Applied Physics Lab, Sentinel Surveillance for Emerging Diseases causing Dengue-like or Acute Encephalitis Syndrome in the Philippines, Uses of Geographic Information System to Establish a Community-Based Biosurveillance Infrastructure

**Research Associate National Institutes of Health UP Manila 2004-2006**

Responsibilities include:

- worked under the direct supervision of then Deputy Director and current Director of the National Institutes of Health and Vice Chancellor for Research of the University of the Philippines, Manila

- conducted and supervised implementation of field research projects which included safety and efficacy studies on schistosomiasis and paragonimiasis (Agusan del Sur and Zamboanga del Norte, Mindanao, Philippines); malaria surveillance and rapid kit testing (Agusan del Norte, Mindanao, Philippines) and prevalence studies of soil transmitted helminths (Northern Luzon, Philippines)
- assisted in specimen collection, development of data entry modules and encoding of clinical and laboratory data

**Scientific and Academic Honors/ Awards and Other Distinctions/ Features:**

- The Outstanding Young Men (TOYM) in the field of Medical Science and Public Health (2014) – given by Philippine Cabinet Secretary Jose Rene Almendras in Malacanang Presidential Palace (3 Feb 2015)  
(<http://newsinfo.inquirer.net/664170/inquirers-dumlao-tan-lead-toym-awardees>)  
(<http://www.philstar.com/headlines/2015/01/14/1412731/2-mayors-engineer-lead-toym-awardees>)
- Outstanding Young Scientist (OYS) in the field of Public Health (2014) awarded by the President of the National Academy of Science and Technology, Department of Science and Technology, Philippines (10 July 2014)  
(<http://newsinfo.inquirer.net/619677/more-outstanding-young-scientists>)
- Commendation by the Philippine Senate - [https://www.senate.gov.ph/16th\\_congress/resolutions/resno73.pdf](https://www.senate.gov.ph/16th_congress/resolutions/resno73.pdf)
- Commendation by the Philippine Congress - ([http://www.congress.gov.ph/download/basic\\_16/HR02324.pdf](http://www.congress.gov.ph/download/basic_16/HR02324.pdf))
- Malihaw Award (2015) (Victorias City award given to exemplary “Victorihanons”)  
(<https://malihaw.wordpress.com/2015/04/26/victorias-city-honors-exemplary-victoriahanons/>)
- University of the Philippines Alumni Association (UPAA) Distinguished Alumni Award for Medical Science Research for 2016  
(<http://www.upalumni.ph/upaa-announces-2016-distinguished-alumni-awardees/>)
- Don Bosco Technical Institute Distinguished Alumni Award for 2016 (6 Feb 2016)
- Alumni Profile feature by London School of Hygiene and Tropical Medicine, University of London  
(<http://blogs.lshtm.ac.uk/alumni/2015/04/02/alumni-profile-dr-john-mark-velasco/>)
- Feature by University of Iowa, USA - (<http://international.uiowa.edu/news/virtual-homecoming-spotlight-john-mark-velasco>)
- Personal feature by Medical Tribune (MIMS) Philippines  
([http://enews.mims.com/landingpages/mt/pdf/Medical\\_Tribune\\_February\\_2013\\_PH.pdf](http://enews.mims.com/landingpages/mt/pdf/Medical_Tribune_February_2013_PH.pdf)) (pp 10-12)
- Personal feature in the 2016-2017 Prospectus of London School of Hygiene and Tropical Medicine, University of London International Programmes - <http://www.londoninternational.ac.uk/sites/default/files/prospectus/lshtm-prospectus.pdf>
- Award in recognition of invaluable and unwavering contributions to the Armed Forces of the Philippines Medical Center (AFPMC) and Armed Forces of the Philippines given by Armed Forces of the Philippines Chief of Staff, General Gregorio Pio Catapang Jr/ Lieutenant General Domingo, Armed Forces of the Philippines Deputy Chief of Staff and Commanding General of AFPMC (3 September 2014)
- Certificate of Meritorious Honor awarded by USAMD-AFRIMS (30 June 2009)

**Committee Memberships:**

- Member of the Philippines National Institutes of Health – Food and Drugs Administrations (NIH-FDA) expert panel which reviews clinical trials for implementation in the Philippines
- Regular member of the National Research Council of the Philippines (NRCP) – Medical Sciences Division
- Regular member of the US embassy Manila Health Security Working Group
- Clinical monitor trained by the WHO-TDR Clinical Coordination and Training Center (CCTC)

**Primary author/ co-author of the following international peer- reviewed publications:**

1. Complete genome sequences of Zika Virus strains isolated from the blood of patients in Thailand (2014) and Philippines (2012). Genome Announcements—Viruses.
2. Incidence of Dengue Virus Infection in Adults and Children in a Prospective Longitudinal Cohort in the Philippines. PLOS Neglected Tropical Diseases. February 4, 2016.
3. Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia. PNAS. 20 October 2015.
4. Chikungunya Virus Infections Among Dengue-Like Illness Patients at a Tertiary Care Hospital in the Philippines, 2012–2013. Am J Trop Med Hyg 15-0332; Published online September 28, 2015.
5. Reconstruction of 60 years of chikungunya epidemiology in the Philippines demonstrates episodic and focal transmission. J Infect Dis. 25 Sep 2015. pii: jiv470
6. Diarrheal and respiratory illness surveillance during US-RP Balikatan 2014. MSMR. 2015 Jun;22(6):20-3.
7. High rate of subclinical chikungunya virus infection and association of neutralizing antibody with protection in a prospective cohort in the Philippines. PLoS Negl Trop Dis. 2015 May 7;9(5):e0003764
8. Zika Virus Infection, Philippines, 2012. Emerg Infect Dis. 2015 Apr;21(4):722-4
9. Prediction of High Incidence of Dengue in the Philippines. PLoS Negl Trop Dis 8(4) (2014).
10. Tweeting Fever: Can Twitter Be Used to Monitor the Incidence of Dengue-Like Illness in the Philippines? Johns Hopkins APL Technical Digest, Vol 32 No. 4 (2014).
11. Demographic, Clinical and Laboratory Findings among Adult and Pediatric Patients Hospitalized with Dengue in the Philippines. The Southeast Asian Journal of Tropical Medicine and Public Health. Vol 45 No. 2 March 2014
12. Hospital-Based Surveillance of Japanese Encephalitis at a Tertiary Hospital in Manila. The Southeast Asian Journal of Tropical Medicine and Public Health. Vol 44 No. 5 September 2013.
13. Tweeting Fever: Are Tweet Extracts a Valid Surrogate Data Source for Dengue Fever? ISDS Annual Conference Proceedings 2012.

14. Applications of the ESSENCE Desktop Edition for Outbreak Detection in a Resource-limited Setting. Emerging Health Threats Journal. Jan 2011; Supplement, p. 11101.
15. Applications of PCR (Real Time and MassTag) and ELISA in Diagnosis of Respiratory Infections and Diarrheal Illness Among Deployed US Military Personnel During Exercise Balikatan 2009, Philippines. Military Medicine. Oct 2011; Vol 176: 10; pp 1096-1100(5).
16. Department of Defense influenza and other respiratory disease surveillance during the 2009 pandemic. BMC Public Health. 2011 Mar 4; 11 Suppl 2:S6.
17. Evaluation of QuickVue influenza A+ B rapid test for detection of pandemic influenza A/H1N1 2009. 2010. Journal of Clinical Virology. 48:120–122.
18. Hookworm in the military: a parasitologic survey of military and para-military personnel in a Philippine Military Camp in Northern Luzon. Philipp J Intern Med 2005 Jul-Aug 43(4):169-174

#### **Book Chapter/s:**

Co-author of chapter 4: **Public Health Surveillance System Considerations** of book entitled “Disease Surveillance: Technological Contributions to Global Health Security”. Publisher: Taylor and Francis CRC Press. Editors: David Blazes and Sheri Lewis. February 18, 2016. ISBN 9781482254396 - CAT# K23962

#### **Publications in process or accepted for publication:**

1. Resolution of a Chikungunya Outbreak in a Prospective Cohort over a 2-year Surveillance Period, Cebu, Philippines, 2012-2014. Emerging Infectious Diseases.
2. Retrospective use of Next-generation Sequencing reveals the presence of Enteroviruses in acute Influenza-like Illness respiratory samples captured in South/South-East Asia during 2010-13. Lancet Infectious Diseases.
3. Detection of diarrhea etiology among U.S. military personnel during Exercise Balikatan 2014, Philippines using TaqMan® Array Cards. Military Medicine.

#### **Presentations:**

##### *International Podium Presentations*

1. Applications of the ESSENCE Desktop Edition for Outbreak Detection in a Resource Limited Setting. 10th Annual Conference International Society for Disease Surveillance: Building the Future of Public Health Surveillance. Sheraton Atlanta Hotel, Atlanta, Georgia, USA, 7 December 2011.
2. Applications of the ESSENCE Desktop Edition Software: The Philippines Experience. JHU-APL/ NAMRU-2. Disease Surveillance Workshop. Tara Angkor Hotel, Siem Reap, Cambodia, 12 October 2011.
3. Electronic Disease Surveillance: Application of the JHU-APL SAGES Software in a Developing Country Setting. 21st APMMC. Sydney Hilton Hotel, Sydney, Australia, 5 May 2011.

##### *Local Podium Presentations*

1. Dengue in the Philippines: Research Updates. National Dengue Surveillance Stakeholder’s Meeting. Manila Marriott Hotel, Newport, Pasay City, 15 April 2014.
2. Disease Surveillance: It’s More Fun in the Philippines. Annual Program Implementation Review of the Philippine Integrated Disease Surveillance and Response System. East View Hotel, Bacolod City, 14-18 October 2013.
3. AFRIMS Influenza Surveillance in the Philippines. The National Influenza Surveillance of the Philippines: Refocusing Towards Improved Responsiveness, Preparedness and Sustainability. Research Institute for Tropical Medicine, Alabang, Muntinlupa, 19 October 2012.
4. Influenza: the next Pandemic. PWU Medical Technology Week 2012. Philippine Women’s University, Manila, 5 Oct 2012.
5. Electronic Disease Surveillance in a Developing Country Setting: Applications of the ESSENCE Desktop Edition Software in Public Health, Veterinary Medicine and Bioterrorism Surveillance. ASEAN Regional Forum Workshop on Disease Detection and Surveillance – Enhancing Public and Veterinary Health Networks to Combat Infectious Disease and Bioterrorism. Hyatt Hotel, Manila, 13 September 2011.
6. Applications of the Essence Desktop Edition (EDE) at the Regional, Provincial and City Levels in the Philippines. Consultative Conference of Epidemiology and Surveillance Units in Region 6. La Carmela de Boracay, Malay, Aklan, 30 June 2011.
7. Application of the JHU-APL SAGES Software in the Philippines. PIDSR Mid-year Implementation Review and Data Dissemination Workshop. Batis Aramin, Hotel, Lucban, Quezon, 26 May 2011.
8. Electronic Disease Surveillance. NEC Talks 4 U: Information for Utilization. Holiday Inn, Clark Field, Pampanga, Philippines, 8 December 2010.
9. Implementing Effective Biosecurity 57th Anniversary Celebration and Annual Scientific Meeting of the Philippine Association of Military Surgeons Inc. Armed Force of the Philippines Medical Center, V Luna Avenue, Quezon City, 22 January 2010.
10. Dengue: The Search for a Vaccine. Presented in “Nurturing Cognitive Skills and Competence: Towards Achieving Excellence and Quality Medical Laboratory Science Education: Philippine Association of Schools of Medical Technology and Public Health”. Our Lady of Fatima University, Valenzuela City, Philippines, 24 February 2009.
11. Discussion on BSL-3 AFRIMS Experience – Planning To Operation. Biosecurity Engagement Program, BSL-3 Planning, Programming and Operations Symposium. Biosecurity Engagement Program, US Department of State, Sandia National Laboratories and International Biological Threat Reduction. Pan Pacific Hotel, Manila, 14 July 2008.
12. Influenza Surveillance in Cebu City. National Forum on Influenza Pandemic Preparedness and Response. Traders Hotel, Manila, 4 June 2008.

13. Acute Encephalitis Component of the Study Entitled Sentinel Surveillance for Emerging Disease Causing Dengue-Like And Acute Encephalitis-Like Syndromes. Strategic Planning on Japanese Encephalitis Sentinel and Laboratory Surveillance. Bayview Hotel, Manila, 13 June 2007.
14. Dengue Vaccines: Present and Future. Challenges and Strategies in Infectious Diseases. Philippine Society for Microbiology and Infectious Diseases (PSMID) mid-year Convention. Waterfront Cebu City Hotel, Lahug, Cebu City, 8 June 2007.

#### **Poster Presentations**

##### ***International Poster Presentations***

1. Multi-Drug Resistant Bacteria in Wound Infections and Tuberculosis Surveillance in a Philippine Tertiary Hospital. American Society for Microbiology Annual Conference 2016, Boston, Massachusetts, 17 June 2016.
2. Emergence of Vancomycin Resistant *S. aureus* in the Philippines. American Society for Microbiology Annual Conference 2015, New Orleans, Louisiana, 31 May 2015.
3. Infectious Disease Surveillance and Capacity Building with the Armed Forces of the Philippines, American Society for Microbiology Biodefense and Emerging Diseases Research Meeting, Washington, D.C., 28 January 2014.
4. Using Social Media to Enhance Disease Surveillance. National Defense Industry Association meeting Biosurveillance Conference, Washington Court Hotel, Washington DC, 28 Aug 2012.
5. Implementation of SMS Fever Surveillance in the Philippines. 15th International Congress on Infectious Diseases. Centara Grand & Bangkok Convention Centre at Central World. Bangkok, Thailand, 15 June 2012.
6. A study on the accuracy of Clinical Case Definition, QuickVue Influenza A+B Test, and combined clinical case definition and QuickVue™ against Influenza virus RT-PCR in diagnosing viral influenza infection among pediatric patients seen at the AFPMC. 22nd Asia Pacific Military Medicine Conference. Amari Watergate Hotel, Bangkok, Thailand, 2 May 2012.
7. Applications of the ESSENCE Desktop Software in the Analysis of Philippine National Dengue Data. American Society of Tropical Medicine and Hygiene 60h Annual Meeting. Philadelphia Marriott Downtown, Philadelphia, Pennsylvania, USA, 5 December 2011.
8. Pandemic H1N1 2009 Influenza Virus Detection by the AFRIMS Influenza Surveillance Network. 21st APMMC. Sydney Hilton Hotel, Sydney, Australia, 5 May 2011.
9. AFRIMS Contributions to Influenza Surveillance in South and Southeast Asia. 21st APMMC. Sydney Hilton Hotel, Sydney, Australia, 5 May 2011.
10. Dengue Surveillance in a Tertiary Hospital in Cebu City, Philippines. American Society of Tropical Medicine and Hygiene 57h Annual Meeting. Marriott Wardman Park, Washington DC, USA, 21 November 2009.
11. Dengue SMS Surveillance Project in the Philippines. American Society of Tropical Medicine and Hygiene 57h Annual Meeting. Marriott Wardman Park, Washington DC, USA, 21 November 2009.
12. Japanese Encephalitis in the Philippines. American Society of Tropical Medicine and Hygiene 57h Annual Meeting. Marriott Wardman Park, Washington DC, USA, 20 November 2009.
13. Dengue SMS Surveillance Project in the Philippines. Centers for Disease Control and Prevention Public Health Information Network (PHIN) Conference 2009. Informatics: Investment for the Future. Hyatt Regency Hotel, Atlanta, Georgia, USA, 1 September 2009.
14. Armed Forces Research Institute of Medical Sciences (AFRIMS) Influenza Surveillance Programs in Asia. XI International Symposium on Respiratory Viral Infections. Bangkok, Thailand, 22 February 2009.
15. Surveillance of Emerging Disease in Resource Limited Settings. American Society of Tropical Medicine and Hygiene 57h Annual Meeting. Sheraton New Orleans, New Orleans, Louisiana, USA, 7-11 December 2008.
16. Clinical and Laboratory Parameters of Dengue in Manila, Philippines American Society of Tropical Medicine and Hygiene 56th Annual Meeting, Philadelphia Marriot Downtown, Philadelphia, Pennsylvania USA, 4-8 November 2007.
17. Ethical Issues on Research in School Children. FERCAP/SIDCER. International Conference on Defining the Roles, Responsibilities, and Relations between National Health Authorities and Ethics Committees in Health Research. Pattaya, Thailand, 12-14 December 2005

#### **Professional Memberships:**

American Society of Tropical Medicine and Hygiene

American Society for Microbiology

World Health Organization-Tropical Disease Research Clinical Coordination and Training Center - Clinical Monitor

National Research Council of the Philippines (Medical Sciences Division) – regular member

Biological Risk Association of the Philippines (BRAP) – Vice-President

Armed Forces of the Philippines Medical Center/ V. Luna General Hospital Ethics Review Board - resource person/ consultant

Department of Research and Training V. Luna General Hospital - resource person/ consultant

Skin and Cancer Foundation Ethics Review Board member and guest lecturer

#### **(Other):**

##### **Scientific Peer Reviewer of the following journals/ organizations:**

UK Medical Research Council (MRC)

Emerging Infectious Diseases Journal (US CDC)

Journal of Clinical Epidemiology

Journal of Virological Methods

Pan American Journal of Public Health

NIH-FDA (Philippines) expert panel on clinical trials