Curriculum Vitae

Name Long Bao Hoang Email <u>longhoang.hmu@gmail.com</u>

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Summary

My focus is general epidemiology and methodology, and I am also interested in statistical methods to answer clinical research questions. I have considerable experience in research project management, data management, and skills training.

Education

2020–2021 Master of Public Health (MPH)

Johns Hopkins University, Bloomberg School of Public Health, Baltimore, Maryland, US

- Concentration: Epidemiology and Biostatistical Methods for Public Health and Clinical Research
- Capstone project: Center-level variation in getting a living-donor kidney transplant (advisor: Allan Massie, MHS PhD)
- GPA: 3.87/4. Verify here with ID: 21ZF-6MQT-L2GU and Name: L0

2006–2012 Medical Doctor (MD)

Hanoi Medical University, Hanoi, Vietnam

- Specialty: General medicine
- Graduation thesis: Utilization of healthcare services and population needs in healthcare at the primary care level in Hanoi, 2011 (supervisor: Nguyen Thi Tuyet Nhung, MD MSc)

Awards

Fulbright Vietnamese Student Program Scholarship

Awarded by the U.S. Department of State for the Master of Public Health program in 2020–2021. Estimated amount: **\$72,000**.

The Dean Alumni's Advisory Council Scholarship, and the Howard C. and Jane R. Goodman Fund

Awarded by the Johns Hopkins University for the Master of Public Health program in 2020–2021. Total amount: **\$38,000**.

Grants

Vietnamese National Grant for Research (Grant no. KC-4.0-17/19-25)

Project title: Developing an artificial intelligence-integrated system to support the detection of upper gastrointestinal lesions in endoscopy

Awarded by the Vietnam's Ministry of Science and Technology

• Duration: March 2020 to August 2024

• Awarded amount: \$278,000

· Role: Investigator

Vietnamese National Grant for Research (Grant no. ĐTĐLCN.04/20)

Project title: Evaluating motility disorders of upper gastrointestinal tract

Awarded by the Vietnam's Ministry of Science and Technology

• Duration: March 2019 to August 2023

Awarded amount: \$328,000Role: Lead investigator

The Global Challenges Research Fund Networking Grants

Project title: Addressing the Inflammatory Bowel Disease Challenge in Vietnam by Bridging the Basic-Clinical Science Divide in Gastroenterology: A Vietnam-UK Collaborative Network

Awarded by the Academy of Medical Sciences and Global Challenges Research Fund

• Duration: March 2019 to Februrary 2020

• Awarded amount: \$25,000

• Role: Coordinator

The Vietnam Education Foundation Alumni Grants (Award no. SVM30018IN0190)

Project title: Research Advancement Consortium in Health

• Awarded by the Vietnam Education Foundation Alumni Grants, U.S. Department of State

• Duration: May 2018 to December 2019

Awarded amount: \$19,760Role: Content developer

Research Experience

March 2018– present

Lead Research Manager / Lead Epidemiologist

Institute of Gastroenterology and Hepatology, Hanoi, Vietnam

- Leading a team of 20 investigators, coordinators, and research associates to conduct 25 observational studies and 2 randomized trials
- Writing grant applications, developing grant budgets, and compiling grant reports
- Performing data analysis, writing and revising manuscripts
- Developing an electronic system and standard operating procedures to manage the research projects throughout their lifecycle
- Developing automation tools and software for data pooling, cleaning, and analysis using Stata, C#, Python, and R
- Training staff members and students on MS Office for research management, research ethics, epidemiology, and biostatistics

March 2023present

Data Engineer

College of Health Sciences, VinUniversity, Hanoi, Vietnam

- Planning and creating automation tools for data management workflow
- Managing data dictionaries and performing data querying, cleaning, and manipulation tasks
- Maintaining the integrity of data and data management practice via standard operating procedures
- Working with principal investigators and researchers to finalize research questions and provide the most appropriate datasets for analysis
- Performing data analysis, writing and revising manuscripts
- Creating health dashboards to highlight important health indicators of the labor workforce using data visualization and web development tools (HTML, CSS, JavaScript)

Jan 2020– present

Freelance Research Consultant

Hanoi, Vietnam

- Providing consultation in study design and statistical analysis for research groups from prominent health institutions in Vietnam
- Vietnam National Hospital of Obstetrics and Gynecology:
 - Fear-related reasons for avoiding sexual intercourse in early pregnancy (link)
- Tam Anh Hospital:
 - Comparative effects of human Chorionic Gonadotropin and recombinant Luteinizing Hormone supplementation during the late follicular phase (link)
 - Progestin-Primed Ovarian Stimulation versus GnRH Antagonist protocol in patients undergoing ovarian stimulation (ongoing)
- Vietnam National Heart Institute:
 - Distribution and 24-hour transition of SCAI shock stages and their association with 30-day mortality in acute myocardial infarction (link)

March 2014– January 2019

Study Doctor / Lead Coordinator

Oxford University Clinical Research Unit (OUCRU), Hanoi, Vietnam

- Provided research governance and research operation for 20 multicenter observational studies and 3 multicenter randomized trials on infectious diseases, such as:
 - o Itraconazole versus Amphotericin B in treating HIV patients with talaromycosis (link)
 - Effectiveness of Point-of-care C-reactive protein test in reducing antibiotic prescription (link)
- Provided quality management and clinical trial monitoring for multiple studies at OUCRU-Hanoi and OUCRU-Ho Chi Minh
- Performed data cleaning for 3 randomized trials
- Provided training on Good Clinical Practice for more than 500 doctors and nurses

Teaching Experience

October 2023– Course Instructor present College of Health Sci

College of Health Sciences, VinUniversity, Hanoi, Vietnam

- STAT1030 (Integrated Probability, Statistics, and Epidemiology, 3 credits) for 12 third-year nursing students
- CCSC6142 (Medical Research and Evidence-Based Medicine, 2 credits) for 31 first-year resident doctors
- Scholarly activities (2 credits) for 50 fourth-year medical students
- Activities:
 - Developing teaching materials (syllabus, lectures, exercises, and exams) and redesigning Canvas
 - Delivering weekly 3-hour lectures (theory and practice)
 - Grading and providing comments for students' assignments on Canvas
 - Participating in committees to develop longitudinal research programs for nursing students, medical students, and resident doctors

August 2021– present

Freelance Instructor of Epidemiology and Biostatistics Hanoi, Vietnam

- Organizing classes (12–15 weeks) on epidemiology, biostatistics, and R programming for healthcare workers and medical students:
 - BMR.101 (Introduction to Epidemiology and Biostatistics): 4 classes,
 79 students
 - o BMR.301 (R Programming for Data Analysis): 1 class, 21 students
- Activities:
 - Developing teaching materials (syllabus, lectures, exercises, and exams) and designing classes on Google Classroom
 - Recording weekly 1-hour asynchronous lectures and delivering weekly 2-hour lectures (theory and practice)
 - Grading and providing comments for students' assignments on Google Classroom

August 2018– present

Content Developer

Research Advancement Consortium in Health (REACH), Hanoi, Vietnam

- Organized an introductory course on research ethics (Research Ethics 101)
- Activities: developed teaching materials (syllabus, lectures, and exercises)
 and recorded lectures

Other Teaching Experience

- 1. *Data management and analysis in clinical trials*. A training course at Center of Clinical Pharmacology, Hanoi Medical University. June 2018.
- 2. Research management and data management. A training course for 50 medical students at Hanoi Medical University. June 2019.
- 3. Conducting a research study: from A to Z and Random error and bias in medical research. A training course for 100 postgraduate students at Vietnam's National Heart Institute. June 2021.
- 4. *Common pitfalls in medical research*. An invited presentation at the Vietnam National Heart Association Scientific Meeting. November 2021.

- 5. *The process of doing research*. A training course for 80 staff members at Lang Son Provincial Hospital and Lang Son's district health centers. January 2022.
- 6. *Cross-sectional studies*. A 4-session training course for 100 lecturers, doctors, nurses, pharmacists, and students at Phenikaa University. February 2022.
- 7. *The value of P-values*. An invited presentation at the 2022 National Congress of Cardiology. October 2022.
- 8. *Planning and writing the protocol for a clinical study*. A 3-session training course for 40 doctors and nurses at the National Hospital of Dermatology and Venereology. May 2023.
- 9. Research questions and Conducting a research study: from A to Z. A training course for 50 postgraduate students at Vietnam's National Heart Institute. June 2023.

Skills and Expertise

- 1. Project management: professional proficiency
- 2. Data entry tools (EpiData, REDCap, KoboToolbox): professional proficiency
- 3. Data analysis (Stata, Python, R): advanced proficiency
- 4. Programming (Python, C#): advanced proficiency
- 5. Microsoft Office: professional proficiency

Publications

Select works in which I was responsible for study design and/or data analysis.

- Pham HM, Van HD, Hoang LB, Phan PD, Tran VH. Distribution and 24-hour transition of SCAI shock stages and their association with 30-day mortality in acute myocardial infarction. Medicine. 2023;102(37):e34689. doi:10.1097/MD.000000000034689
- 2. Dao HV, Dao QV, Lam HN, **Hoang LB**, et al. Effectiveness of using a patient education mobile application to improve the quality of bowel preparation: a randomised controlled trial. BMJ Open Gastroenterol. 2023;10(1):e001107. doi:10.1136/bmjgast-2023-001107
- 3. Le TD, **Hoang LB**, Tham DC, Vu MAT, et al. Comparative Effects of Human Chorionic Gonadotropin and Recombinant Luteinizing Hormone Supplementation during the Late Follicular Phase. Obstetrics and Gynecology Research. 2023;06(02):143-151. doi:10.26502/ogr0124
- 4. Dao HV, **Hoang LB**, Luu MHT, Nguyen HL, et al. High prevalence of esophagitis in patients with severe ineffective esophageal motility: need for a new diagnostic cutoff. Ann Gastroenterol. 2022;35(5):483. doi:10.20524/aog.2022.0733v
- 5. Phan TC, **Hoang LB**, Tran TK, Pham TTT, et al. Fear-Related Reasons for Avoiding Sexual Intercourse in Early Pregnancy: A Cross-Sectional Study. Sex Med. 2021;9(6):100430-100430. doi:10.1016/j.esxm.2021.100430

For a full list of publications, please see the Appendix.

Conferences

1. **Long B. Hoang**, Linh P. Bui, Tung T. Pham, Tri M. Phan, Carolyn Taylor, Huong T.T. Tran, PhuongThao D. Le. *Assessing quality of life with the SF-12: a comparison between three methods*. 24th IPOS World Congress of Psycho-Oncology, August 2023, Milan, Italy. <u>See booklet of abstracts</u>.

Appendix

Full list of publications

Roles: † Study design; ‡ Data analysis; § Research management

- Ho NT, Tran MT, Tran CTD, Vanderbloemen L, Pham TT, Hoang LB, Nguyen Q V., Dorn J, Trevisan M, Shu XO, Le LC. Prevalence of metabolic syndrome among Vietnamese adult employees. Nutrition, Metabolism and Cardiovascular Diseases. Published online October 2023. doi:10.1016/j.numecd.2023.10.002[‡]
- 2. Truong TN, Pham TND, **Hoang LB**, Nguyen VT, Dao HV, Dao DVB, Alessy S, Pham HB, Pham TTT, Nguyen LDD, Nguyen K, Abaalkhail F, Manal M, Mawardi M, AlZahrani M, Alswat K, Alghamdi H, Sanai FM, Siddiqui MA, Nguyen NH, Vaidya D, Phan HT, Johnson PJ, Alqahtani SA, Dao DY. Surveillance and treatment of primary hepatocellular carcinoma (aka. STOP HCC): protocol for a prospective cohort study of high-risk patients for HCC using GALAD-score. BMC Cancer. 2023;23(1):875. doi:10.1186/s12885-023-11167-9[†]
- 3. Pham HM, Van HD, **Hoang LB**, Phan PD, Tran VH. Distribution and 24-hour transition of SCAI shock stages and their association with 30-day mortality in acute myocardial infarction. Medicine. 2023;102(37):e34689. doi:10.1097/MD.0000000000034689[‡]
- 4. Dao HV, Dao QV, Lam HN, **Hoang LB**, Nguyen VT, Nguyen TT, Vu DQ, Pokorny CS, Nguyen HL, Allison J, Goldberg RJ, Dao ATM, Do TTT, Dao L Van. Effectiveness of using a patient education mobile application to improve the quality of bowel preparation: a randomised controlled trial. BMJ Open Gastroenterol. 2023;10(1):e001107. doi:10.1136/bmjgast-2023-001107^{†‡}
- Tran HTT, Nguyen YH, Vuong TD, Bui L Van, Doan HT, Le HTT, Cong Le T, Nguyen TQ, Do SN, Nguyen PD, Luong CQ, Vu TS, Tran SN, Doan NB, Hoang LB, Nguyen T Van. High Prevalence of Post-Traumatic Stress Disorder and Psychological Distress Among Healthcare Workers in COVID-19 Field Hospitals: A Cross-Sectional Study from Vietnam. Psychol Res Behav Manag. 2023;Volume 16:1663-1675. doi:10.2147/PRBM.S407583‡
- 6. Ngo DM, Doan NB, Tran SN, Hoang LB, **Nguyen HB**, Nguyen VD. Practice regarding tuberculosis care among physicians at private facilities: A cross-sectional study from Vietnam. Pillay Y, ed. PLoS One. 2023;18(4):e0284603. doi:10.1371/journal.pone.0284603‡
- 7. Dao HV, **Hoang LB**, Nguyen BP, Nguyen HL, Goldberg R, Allison J, Dao TMA, Matsumura T, Dao L Van. Esophageal Mucosal Admittance: A New Technique to Diagnose Gastroesophageal Reflux Disease Is It Feasible? Clin Exp Gastroenterol. 2023;Volume 16:45-54. doi:10.2147/CEG.S399764[‡]
- 8. Pham MH, Hoi LT, Beale MA, Khokhar FA, Hoa NT, Musicha P, Blackwell GA, **Long HB**, Huong DT, Binh NG, Co DX, Giang T, Bui C, Tran HN, Bryan J, Herrick A, Feltwell T, Nadjm B, Parkhill J, van Doorn HR, Trung NV, Van Kinh N, Török ME, Thomson NR. Evidence of widespread endemic populations of highly multidrug resistant Klebsiella pneumoniae in hospital settings in Hanoi, Vietnam: a prospective cohort study. Lancet Microbe. 2023;4(4):e255-e263. doi:10.1016/S2666-5247(22)00338-X§
- 9. Dinh Trieu Ngo V, Bui LP, **Hoang LB**, Tran MTT, Nguyen HVQ, Tran LM, Pham TT. Associated factors with Premenstrual syndrome and Premenstrual dysphoric disorder among female medical students: A cross-sectional study. Garitano Gutierrez I, ed. PLoS One. 2023;18(1):e0278702. doi:10.1371/journal.pone.0278702
- 10. Le TD, **Hoang LB**, Tham DC, Vu MAT, Nguyen TLT, Nguyen HP, Thi MPG, Nguyen LHT, Le H, Hugues JN. Comparative Effects of Human Chorionic Gonadotropin and Recombinant Luteinizing Hormone Supplementation during the Late Follicular Phase. Obstetrics and Gynecology Research. 2023;06(02):143-151. doi:10.26502/ogr0124[‡]
- 11. Brindle HE, Nadjm B, Choisy M, Christley R, Griffiths M, Baker S, Bryant JE, Campbell JI, Nguyen VVC, Nguyen TND, Vu TTH, Nguyen VH, **Hoang BL**, Le XL, Pham HM, Ta TDN, Ho DTN, Tran TN, Nguyen THN, Tran MP, Pham THP, Le VT, Nguyen DT, Hau TTT, Nguyen NV, Wertheim HFL, Thwaites GE, van Doorn HR. Aetiology and Potential Animal Exposure in Central Nervous System Infections in Vietnam. Ecohealth. 2022;19(4):463-474. doi:10.1007/s10393-022-01611-w
- 12. Roberts LW, Hoi LT, Khokhar FA, Hoa NT, Giang T Van, Bui C, Ninh TH, Co DX, Binh NG, **Long HB**, Huong DT, Bryan JE, Herrick A, Feltwell T, Nadjm B, van Doorn HR, Parkhill J, Trung NV, Kinh N Van, Iqbal Z, Török ME. Genomic characterisation of multidrug-resistant Escherichia coli, Klebsiella pneumoniae, and Acinetobacter baumannii in two intensive care units in Hanoi, Viet Nam: a

- prospective observational cohort study. Lancet Microbe. 2022;3(11):e857-e866. doi:10.1016/S2666-5247(22)00181-1
- 13. Dao HV, **Hoang LB**, Luu HTM, Nguyen HL, Goldberg RJ, Allison J, Dao ATM, Van Nguyen HT, Matsumura T, Van Dao L. Clinical symptoms, endoscopic findings, and lower esophageal sphincter characteristics in patients with absent contractility. Medicine. 2022;101(43):e31428. doi:10.1097/MD.000000000031428‡
- 14. Huy LD, Tung PT, Nhu LNQ, Linh NT, Tra DT, Thao NVP, Tien TX, Hai HH, Khoa V Van, Anh Phuong NT, **Long HB**, Linh BP. The willingness to perform first aid among high school students and associated factors in Hue, Vietnam. Vishnumolakala VR, ed. PLoS One. 2022;17(7):e0271567. doi:10.1371/journal.pone.0271567
- 15. Dat VQ, Minh Yen L, Thi Loan H, Dinh Phu V, Thien Binh N, Geskus RB, Khanh Trinh DH, Hoang Mai NT, Hoan Phu N, Huong Lan NP, Phuong Thuy T, Vu Trung N, Trung Cap N, Tuyet Trinh D, Thi Hoa N, Thi Thu Van N, Luan VTT, Quynh Nhu TT, **Bao Long H**, Thanh Ha NT, Thi Thanh Van N, Campbell J, Ahmadnia E, Kestelyn E, Wyncoll D, Thwaites GE, Van Hao N, Chien LT, Van Kinh N, Vinh Chau N Van, van Doorn HR, Thwaites CL, Nadjm B. Effectiveness of Continuous Endotracheal Cuff Pressure Control for the Prevention of Ventilator-Associated Respiratory Infections: An Open-Label Randomized, Controlled Trial. Clinical Infectious Diseases. 2022;74(10):1795-1803. doi:10.1093/cid/ciab724§
- Dao HV, Hoang LB, Le NNH, Tran TTT, Nguyen HM, Dao L Van, Le NT. Changes in the Proportion of Gastrointestinal Emergency Endoscopy and Peptic Ulcer Disease During the COVID-19 Pandemic: A Local Retrospective Observational Study From Vietnam. Front Public Health. 2022;10:699321. doi:10.3389/fpubh.2022.699321^{†‡}
- 17. Dao HV, **Hoang LB**, Luu MHT, Nguyen HL, Goldberg R, Allison J, Dao MAT, Matsumura T, Dao L Van. High prevalence of esophagitis in patients with severe ineffective esophageal motility: need for a new diagnostic cutoff. Ann Gastroenterol. 2022;35(5):483. doi:10.20524/aog.2022.0733^{†‡}
- 18. Phan TC, **Hoang LB**, Tran TK, Pham TTT, Bui A V, Dao HT, Ngo T V, Tran CD. Fear-Related Reasons for Avoiding Sexual Intercourse in Early Pregnancy: A Cross-Sectional Study. Sex Med. 2021;9(6):100430-100430. doi:10.1016/j.esxm.2021.100430^{†‡}
- 19. Dao L Van, Dao HV, Nguyen HT, Vu VT, Tran ATN, Dat VQ, **Hoang LB**, Nguyen HT Van, Nguyen TD. Helicobacter pylori infection and eradication outcomes among Vietnamese patients in the same households: Findings from a non-randomized study. Karunasagar I, ed. PLoS One. 2021;16(11):e0260454. doi:10.1371/journal.pone.0260454‡
- 20. Dao VH, **Hoang LB**, Trinh TO, Tran TTT, Dao VL. Psychobiotics for Patients with Chronic Gastrointestinal Disorders Having Anxiety or Depression Symptoms. J Multidiscip Healthc. 2021;Volume 14:1395-1402. doi:10.2147/JMDH.S312316^{†‡}
- 21. Vu TLH, Vu QD, **Hoang BL**, Nguyen TCT, Ta TDN, Nadjm B, van Doorn HR. Factors influencing choices of empirical antibiotic treatment for bacterial infections in a scenario-based survey in Vietnam. JAC Antimicrob Resist. 2020;2(4):dlaa087. doi:10.1093/jacamr/dlaa087[†]
- 22. Nguyen Minh V, Tran Hau K, Takashi M, Nguyen Ha V, **Hoang Bao L**, Le Huyen M, Le Huu D, Nguyen Van T, Gandolfi M, Satolli F, Feliciani C, Tirant M, Vojvodic A, Lotti T. Efficacy of BAFF in Monitoring Treatment Response in Early Vietnamese Systemic Sclerosis Patients. Open Access Maced J Med Sci. 2019;7(2):264-268. doi:10.3889/oamjms.2019.070‡
- 23. Dat VQ, Geskus RB, Wolbers M, Loan HT, Yen LM, Binh NT, Chien LT, Mai NTH, Phu NH, Lan NPH, Hao N Van, **Long HB**, Thuy TP, Kinh N Van, Trung NV, Phu VD, Cap NT, Trinh DT, Campbell J, Kestelyn E, Wertheim HFL, Wyncoll D, Thwaites GE, van Doorn HR, Thwaites CL, Nadjm B. Continuous versus intermittent endotracheal cuff pressure control for the prevention of ventilator-associated respiratory infections in Vietnam: study protocol for a randomised controlled trial. Trials. 2018;19(1):217. doi:10.1186/s13063-018-2587-6
- 24. Lubell Y, Do NTT, Nguyen K V, Ta NTD, Tran NTH, Than HM, **Hoang LB**, Shrestha P, van Doorn RH, Nadjm B, Wertheim HFL. C-reactive protein point of care testing in the management of acute respiratory infections in the Vietnamese primary healthcare setting a cost benefit analysis. Antimicrob Resist Infect Control. 2018;7(1):119. doi:10.1186/s13756-018-0414-1
- 25. Huong VTL, **Long HB**, Kinh N V., Ngan TTD, Dung VTV, Nadjm B, van Doorn HR, Hoa NT, Horby P, Wertheim HFL. Long-term outcomes of patients with Streptococcus suis infection in Viet Nam: A case-control study. Journal of Infection. 2018;76(2):159-167. doi:10.1016/j.jinf.2017.09.019§
- 26. Dat VQ, Vu HN, Nguyen The H, Nguyen HT, **Hoang LB**, Vu Tien Viet D, Bui CL, Van Nguyen K, Nguyen TV, Trinh DT, Torre A, van Doorn HR, Nadjm B, Wertheim HFL. Bacterial bloodstream infections in a tertiary infectious diseases hospital in Northern Vietnam: aetiology, drug resistance,

- and treatment outcome. BMC Infect Dis. 2017;17(1):493. doi:10.1186/s12879-017-2582-7§
- 27. Le T, Kinh N Van, Cuc NTK, Tung NLN, Lam NT, Thuy PTT, Cuong DD, Phuc PTH, Vinh VH, Hanh DTH, Tam V Van, Thanh NT, Thuy TP, Hang NT, **Long HB**, Nhan HT, Wertheim HFL, Merson L, Shikuma C, Day JN, Chau NVV, Farrar J, Thwaites G, Wolbers M. A Trial of Itraconazole or Amphotericin B for HIV-Associated Talaromycosis. New England Journal of Medicine. 2017;376(24):2329-2340. doi:10.1056/NEJMoa1613306§
- 28. Do NTT, Ta NTD, Tran NTH, Than HM, Vu BTN, **Hoang LB**, van Doorn HR, Vu DT V, Cals JWL, Chandna A, Lubell Y, Nadjm B, Thwaites G, Wolbers M, Nguyen K V, Wertheim HFL. Point-of-care C-reactive protein testing to reduce inappropriate use of antibiotics for non-severe acute respiratory infections in Vietnamese primary health care: a randomised controlled trial. Lancet Glob Health. 2016;4(9):e633-e641. doi:10.1016/S2214-109X(16)30142-5§
- 29. Rabaa MA, Tue NT, Phuc TM, Carrique-Mas J, Saylors K, Cotten M, Bryant JE, Nghia HDT, Cuong N Van, Pham HA, Berto A, Phat VV, Dung TTN, **Bao LH**, Hoa NT, Wertheim H, Nadjm B, Monagin C, van Doorn HR, Rahman M, Tra MPV, Campbell JI, Boni MF, Tam PTT, van der Hoek L, Simmonds P, Rambaut A, Toan TK, Van Vinh Chau N, Hien TT, Wolfe N, Farrar JJ, Thwaites G, Kellam P, Woolhouse MEJ, Baker S. The Vietnam Initiative on Zoonotic Infections (VIZIONS): A Strategic Approach to Studying Emerging Zoonotic Infectious Diseases. Ecohealth. 2015;12(4):726-735. doi:10.1007/s10393-015-1061-0