Paul M. Lantos, MD, MS-GIS

Professor of Internal Medicine, Pediatrics, and Community and Family Medicine

 Division of General Internal Medicine

Division of Pediatric Infectious Diseases

Division of Occupational and Environmental Medicine

Research Professor of Global Health

Duke University School of Medicine

Duke Global Health Institute

Chair, Duke University Health System IRB

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## EDUCATION

*May 2016* Masters of Science in Geographic Information Systems

Johns Hopkins University, Baltimore, MD

*May 2000* Doctor of Medicine

University of Connecticut School of Medicine, Farmington, CT

*May 1996* Bachelor of Arts in Biochemistry

Correlate Sequence in Medieval and Renaissance Studies

*Cum Laude Generali* (General Honors)

*Cum Laude in Materia Subjecta* (Departmental Honors in Biochemistry)

## Vassar College, Poughkeepsie, NY

*Fall 1994* Undergraduate semester abroad

University of Otago, Dunedin, New Zealand

*June* *1992* Diploma with Honors in Science

Choate Rosemary Hall, Wallingford, CT

**POSTGRADUATE MEDICAL TRAINING**

*7/04-6/07* Fellow in Pediatric Infectious Diseases

Boston Children’s Hospital

Harvard Medical School

Research Fellow, Department of Immunology and Infectious Diseases

Harvard School of Public Health

*7/00-6/04*  Intern and Resident in Internal Medicine and Pediatrics

University of Connecticut School of Medicine, Farmington/Hartford, CT

##### **EMPLOYMENT**

*7/08 – present* Duke University Medical Center and Duke University School of Medicine

*2008-2017 Medical Instructor*

*2017-2018 Assistant Professor*

*2018-2021 Associate Professor*

*2021- Professor*

Dept of Medicine

Division of General Internal Medicine

Dept of Pediatrics

Division of Pediatric Infectious Diseases

Dept of Community and Family Medicine

Division of Occupational and Environmental Medicine

DUHS Institutional Review Board, Chair

Research Professor, Duke Global Health Institute

*9/07 – 6/08* Eagle Hospitalists, Moses Cone Health System, Greensboro, NC

##### **BOARD CERTIFICATIONS and LICENSURE**

*July 2007* Diplomate in Infectious Diseases, American Board of Pediatrics

*October 2004* Diplomate of the American Board of Pediatrics

*August 2004* Diplomate of the American Board of Internal Medicine

*August 2007* North Carolina Medical Board, #2007-01187

*May 2004* Massachusetts Board of Registration in Medicine, #220698 (expired)

##### **ADDITIONAL TRAINING AND CERTIFICATION**

*May 2024* Parenting Coordinator, Cooperative Parenting Institute

*May 2009* Certificate in Travel Health®, International Society of Travel Medicine

##### **HONORS and AWARDS**

*2022* Duke University 2021-2022 Presidential Award

Awarded to Duke COVID response team by President Vincent Price

*2017* Early Career Research Award

Duke University Division of General Internal Medicine

*2014-2017* Duke CTSA KL2 Mentored Clinician Scientist Career Development Award

*2014* Fellow of the Infectious Diseases Society of America (FIDSA)

*2012* Fellow of the American College of Physicians (FACP)

*2007* Fellow of the American Academy of Pediatrics (FAAP)

*2005-2007* American Society of Tropical Medicine and Hygiene / Burroughs-Wellcome Fund Fellowship in Tropical Infectious Diseases

*2004* Allen Soto Award for Excellence in Pediatric Infectious Diseases

University of Connecticut Department of Pediatrics

*2000* Scholar in Pediatrics, University of Connecticut School of Medicine

*2000* Scholar in Internal Medicine, University of Connecticut School of Medicine

*1997* Sigma Xi Scientific Research Society, University of Connecticut Chapter

*1997* Hughes Summer Research Fellowship

University of Connecticut School of Medicine

Grant for clinical research project, Division of Infectious Diseases

*1996* Middlesex County Medical Association Nolan Scholarship

*1991-1994* Hughes Summer Research Fellowship, Wesleyan University

1. Choate Rosemary Hall Award for Outstanding Achievement in Biology

**PUBLICATIONS**

**Peer-Reviewed Scientific Publications**

1. **Lantos PM**, Gantt S, Janko M, Dionne F, Permar SR, Fowler K. A geographically-weighted cost/effectiveness analysis of newborn CMV screening. Open Forum Infectious Diseases [in press]
2. **Lantos PM**, Janko M, Nigrovic LE, Ruffin F, Kobayashi T, Higgins Y, Auwaerter G. Mapping the distribution of Lyme disease at a mid-Atlantic site in the United States using electronic health data. PLoS One (in press).
3. Mohottige D, Davenport CA, Bhavsar N, Schappe T, Lyn MJ, Maxson P, Johnson F, Planey AM, McElroy LM, Wang V, Cabacungan AN, Ephraim P, **Lantos P**, Peskoe S, Lunyera J, Bentley-Edwards K, Diamantidis CJ, Reich B, Boulware LE. Residential Structural Racism and Prevalence of Chronic Health Conditions. JAMA Netw Open. 2023 Dec 1;6(12):e2348914. PMID: 38127347
4. Peipert BJ, Potapragada NR, **Lantos PM**, Harris BS, Reinecke J, Goldman KN. A Geospatial Analysis of Disparities in Access to Oncofertility Services. *JAMA Oncol*. 2023 Aug 10:e232780. PMID: 37561485.
5. Brumwell A, Sutton G, **Lantos PM**, Hoffman K, Ruffin F, Brinkac L, Clarke TH, Adams MD, Fowler VG Jr, Fouts DE, Thaden JT. Escherichia coli ST131 Associated with Increased Mortality in Bloodstream Infections from Urinary Tract Source. *J Clin Microbiol*. 2023 Jul 20;61(7):e0019923. PMID: 37338371.
6. Ruffin F, Dagher M, Park LP, Wanda L, Hill-Rorie J, Mohnasky M, Marshall J, Souli M, **Lantos P**, Sharma-Kuinkel BK, Maskarinec SA, Eichenberger EM, Muiruri C, Broadnax B, Fowler VG. Black and White Patients with Staphylococcus aureus Bacteremia have Similar Outcomes but Different Risk Factors. *Clin Infect Dis*. 2022 Nov 14. PMID: 36373405.
7. Raynor EM, Martin HL, Poehlein E, Lee HJ, **Lantos P**. Impact of maternal cytomegalovirus seroconversion on newborn and childhood hearing loss. *Laryngoscope Investig Otolaryngol*. 2022 Aug 29;7(5):1626-1633. PMID: 36258861.
8. Matulis GA, Altantogtokh D, **Lantos PM**, Jones JH, Wofford RN, Janko M, Tsogbadrakh N, Bayar T, Ganzorig S, Boldbaatar B, Poole-Smith BK, Hertz J, Fiorenzano J, von Fricken ME. Hotspots in a cold land-reported cases of rabies in wildlife and livestock in Mongolia from 2012-2018. *Zoonoses Public Health* 2022 Sep;69(6): 655-662. PMID: 35583250.
9. Pan W, Fernandez D, Tyrovolas S, Gine-Vazquez I, Dasgupta RR, Zaitchik BF, **Lantos PM**, Woods CW. Heterogeneity in the effectiveness of non-pharmaceutical interventions during the first SARS-CoV2 wave in the United States. *Frontiers in Public Health* 2021 Nov 29;9:754696. PMID: 34912768.
10. **Lantos PM**, Balamuth F, Neville D, Garro AC, Levas MN, Bennett J, Thompson AD, Kharbanda AB, Branda JA, Nigrovic LE. Two-tier Lyme disease serology in children with previous Lyme disease. *Vector Borne Zoonotic Dis*. 2021 Oct 4. PMID: 34610255.
11. Raynor E, Holmes C, Crowson M, Peskoe S, Planey A, **Lantos PM**. Loss to follow up of failed hearing screen and missed opportunities to detect congenital cytomegalovirus are better identified with the implementation of a new electronic health record system protocol. *Int J Pediatr Otorhinolaryngol*. 2021 Jun 25. PMID 34198229.
12. Barnes AN, Davaasuren A, Baasandavga1 U, **Lantos PM**, Gonchigoo B, Gray GC. Zoonotic enteric parasites in Mongolian people, animals, and the environment: Using One Health to address shared pathogens. *PLoS Neglected Tropical Diseases* 2021 Jul 8;15(7):e0009543. PMID: 34237083.
13. Noyd DH, Neely NB, Schroeder KM, **Lantos PM**, Power S, Kreissman SG, Oeffinger KC. Integration of cancer registry and electronic health record data to construct a childhood cancer survivorship cohort, facilitate risk stratification for late effects, and assess appropriate follow-up care. *Pediatr Blood Cancer* 2021 Mar 19; e29014. PMID 33742534.
14. **Lantos PM**, Tsao J, Janko M, Arab A, von Fricken ME, Auwaerter PG, Nigrovic LE, Fowler V, Ruffin F, Gaines D, Broyhill J, Swenson J. Environmental correlates of Lyme disease emergence in Southwest Virginia, 2005-2014. *Journal of Medical Entomology* 2021 Apr 7. PMID 33825903.
15. Turner NA, Pan W, Martinez-Bianchi V, Maradiaga-Panayotti G, Planey AM, Woods CW, **Lantos PM**. Racial, Ethnic, and Geographic Disparities in Novel Coronavirus (SARS-CoV-2) Test Positivity in North Carolina. *Open Forum Infectious Diseases*2020 Sep 8;8(1):ofaa413, PMID: 33575416.
16. Cobert J, **Lantos PM**, Janko MM, Williams DGA, Raghunathan K, Krishnamoorthy V, JohnBull EA, Barbeito A, Gulur P.Geospatial Variations and Neighborhood Deprivation in Drug-Related Admissions and Overdoses.. J Urban Health. 2020 May 4, PMID: 32367203.
17. Wang A, Janko M, Buchanan E, Nigrovic LE, Fine AM, **Lantos PM**. A Bayesian spatiotemporal analysis of pediatric group A *Streptococcal* infections. *Open Forum Infectious Diseases* 2019 Dec 10;6(12):ofz524, PMID: 31867406.
18. Mutucuramana CP, Bodinayake CK, Nagahawatte A, Devasiri V, Kurukulasooriya R, Anuradha T, De Silva AD, Janko MM, Østbye R, Gubler DJ, Woods CW, Reller ME, Tillekeratne LG, **Lantos PM**. Geospatial analysis of dengue emergence in rural areas in the Southern Province of Sri Lanka. *Trans Royal Soc Trop Med Hyg* 2019 Dec 24, PMID: 31885050.
19. Meservey A, Sullivan A, Wu C, **Lantos PM**. Sciuri A Case of Staphylococcus scuiri peritonitis in a patient on peritoneal dialysis. *Zoonoses and Public Health* Published online 2019 Nov 26. PMID: 31769606.
20. Kobayashi T, Higgins Y, Samuels R, Moaven A, Sanyal A, Yenokyan G, **Lantos PM**, Melia MT, Auwaerter PG. Misdiagnosis of Lyme disease with unnecessary antimicrobial treatment characterize patients referred to an academic infectious diseases clinic. *Open Forum Infect Dis.* Published online 2019 July 5. PMID: 31363774.
21. Small M, Magriples U, Ghebre R, Bazzett-Matabele L, Ntirushwa D, Kitessa D, Ntasumbumuyange D, **Lantos P**, Ngabonziza E, Hill W, Ruzindana K, Rukundo JD, Moscovitz AN, Bagambe P, Brown H, Rulisa S. Increased Rwandan Access to Obstetrician-Gynecologists Through a U.S.-Rwanda Academic Training Partnership. *Obstet Gynecol*. 2019 Jul;134(1):149-156. PMID: 31188322.
22. Wheeler S, DeNoble A, Wynn C, Weaver K, Swamy G, Janko M, **Lantos P**. Beyond the Window: Patient Characteristics and Geographic Locations Associated with Late Prenatal Care in Women Eligible for 17-P Preterm Birth Prevention. *J Racial Ethn Health Disparities*. 2019 Jan 10 [Epub ahead of print] PMID: 30632084.
23. **Lantos PM,** Maradiaga-Panayotti G, Barber X, Raynor E, Tucci D, Hoffman K, Permar SR, Jackson P, Hughes BL, Kind A, Swamy GK. Geographic and racial disparities in infant hearing loss. *Otolaryngology-Head and Neck Surgery* 2018 Oct 9 [Epub ahead of print] PMID: 30296906.
24. Garro A, Bennett J, Balamuth F, Levas MN, Neville D, Branda JC, Maulden AB, **Lantos PM**, Nigrovic LE. Positive Two-tiered Lyme Disease Serology is Uncommon in Asymptomatic Children Living in Endemic Areas of the U.S. *Pediatric Infectious Disease Journal* 2018 Jul 31 [Epub ahead of print] PMID: 30067595.
25. von Fricken ME, Lkhagvatseren S, Boldbaatar B, Nymadawa P, Weppelmann TA, Beck-Ochir B, Anderson BA, Reller ME, **Lantos PM**, Gray GC. Seroprevalence of *Anaplasma* spp. and spotted fever group *Rickettsia* exposure among herders and livestock in Mongolia. *Acta Tropica* 2018:177;179–185.
26. von Fricken ME, Baigalmaa BO, Dalantai G, Valenzuela L, Tsogbadrakh N, Painter JE, **Lantos PM**. A fatal case of imported malaria in a non-endemic developing country – Mongolia, 2016. *Asian-Pacific Journal of Tropical Disease*. 2017: 7(12).
27. Kobayashi T, Higgins Y, **Lantos P**, Melia MT, Auwaerter P. Not So Common? Late Neuroborreliosis in a Referred Population. *Open Forum Infect Dis*. 2017 Fall; 4(Suppl 1): S588. Published online 2017 Oct 4. PMC5631351.
28. **Lantos PM**, Hoffman K, Permar SR, Jackson P, Hughes BL, Kind A, Swamy G. Neighborhood disadvantage is associated with high cytomegalovirus seroprevalence in pregnancy*. J Racial Ethn Health Disparities*. 2017 Aug 24. doi: 10.1007/s40615-017-0423-4. [Epub ahead of print] PMID:

28840519.

1. **Lantos PM**, Tsao J, Nigrovic LE, Auwaerter PG, Fowler V, Ruffin F, Foster E, Hickling G. Geographic Expansion of Lyme Disease in Michigan, 2000-2014. *Open Forum Infectious Diseases* 2017 Jan 9;4(1):ofw269. PMID: 28480261.
2. Woodworth MH, Horan JL, **Lantos PM**, Cox GM, Stout JE. Increasing *Nocardia* incidence associated with bronchiectasis at a tertiary care center. *Annals of the American Thoracic Society*. 2017 Mar;14(3):347-354. PMID: 28231023.
3. Branda JA, Strle K, Nigrovic LE, **Lantos PM**, Lepore TJ, Damle NS, Ferraro MJ, Steere AC. Evaluation of Modified Two-Tiered Serodiagnostic Testing Algorithms for Early Lyme Disease. *Clinical Infectious Diseases.* 2017 Apr 15;64(8):1074-1080. PMID: 28329259.
4. **Lantos PM**, Hoffman K, Permar S, Jackson P, Hughes B, Swamy GK. Geographic disparities in cytomegalovirus infection during pregnancy. *J Pediatric Infect Dis Soc.* 2017 Feb 14 (*E pub ahead of print*). PMID: 28201739.
5. **Lantos PM**, Hoffman K, Anderson B, Gray GC. Are persons living near industrial swine production facilities at increased risk of influenza? *Clinical Infectious Diseases.* 2016 Dec 15; 63(12):1558-1563. PMID: 27821546.
6. Paydar-Darian N, Kimia AA, **Lantos PM**, Fine AM, Gordon CD, Gordon CR, Landschaft A, Nigrovic LE. Diagnostic Lumbar Puncture Among Children with Facial Palsy in a Lyme Disease Endemic Area. *J Pediatric Infect Dis Soc*. 2016 Jul 15. PMID 27422867.
7. **Lantos PM**, Lipsett SC, Nigrovic LE. False positive Lyme disease IgM immunoblots in children*. J Pediatrics*. 2016 Jul; 174:267-269.e1. Epub 2016 May 4. PMID 27157898.
8. **Lantos PM**, Auwaerter PG, Nelson CA**.** Lyme disease serology.*JAMA.* 2016 Apr 26;315(16):1780-1781. PMID 27115380.
9. **Lantos PM**, Permar SR, Hoffman K, Swamy GK. The excess burden of cytomegalovirus in African-American communities: a geospatial analysis. *Open Forum Infectious Diseases* 2015 Nov 20;2(4):ofv180 PMID 26716106.
10. **Lantos PM**, Nigrovic LE, Auwaerter PG, Fowler VG, Ruffin F, Brinkerhoff RJ, Reber J, Williams C, Broyhill J, Pan WK, Gaines DN. Geographic expansion of Lyme disease in the southeastern United States, 2000-2014. *Open Forum Infectious Diseases*. 2015 Sep 27;2(4):ofv143. PMID 26550580.
11. **Lantos PM**, Branda JA, Boggan JC, Chudgar SM, Wilson EA, Ruffin F, Fowler V, Auwaerter PG, Nigrovic LE. Poor positive predictive value of Lyme disease serodiagnostic testing in an area of low disease incidence. *Clinical Infectious Diseases.* 2015 Nov 1;61(9):1374-80.PMID: 26195017.
12. Lipsett SC, Pollock NR, Branda JA, Gordon CD, Gordon CR, **Lantos PM**, Nigrovic LE. The positive predictive value of Lyme ELISA for the diagnosis of Lyme disease in children. *Pediatric Infectious Disease Journal*. 2015 Nov;34(11):1260-2. PMID: 26222064.
13. **Lantos PM**, Shapiro ED, Auwaerter PG, Baker PJ, Halperin JJ, McSweegan E, Wormser GP. Unorthodox alternative therapies marketed to treat Lyme disease. *Clinical Infectious Diseases*. 2015 Jun 15;60(12):1776-82. PMID: 2582124.
14. **Lantos PM** and Wormser GP. Chronic coinfections in patients diagnosed with chronic Lyme disease: a systematic literature review. *American Journal of Medicine*. 2014 Nov;127(11):1105-10. PMID: 24929022.
15. **Lantos PM,** Maggi R, Ferguson B, Varkey J, Park LP, Breitschwerdt EB, Woods CW. Detection of *Bartonella* species in the blood of veterinarians and veterinary technicians: A newly recognized occupational hazard? *Vector-Borne and Zoonotic Diseases.* 2014 Aug;14(8):563-70. PMID: 25072986.
16. **Lantos PM,** Auwaerter PG, Wormser GP. A systematic review of morphologic variants of *Borrelia burgdorferi* does not support a role in chronic Lyme disease. *Clinical Infectious Diseases.* 2014 Mar;58(5):663-71. PMID: 24336823.
17. **Lantos PM**, Brinkerhoff RJ, Wormser GP, Clemen R. Empiric antibiotic treatment of erythema migrans-like skin lesions as a function of geography: a clinical and cost effectiveness modeling study. *Vector-Borne and Zoonotic Diseases*. E-Pub ahead of print, October 2013.
18. Breitschwerdt EB, Hegarty BC, Maggi RG, **Lantos PM**, Aslett DM, Bradley JM. *Rickettsia rickettsii* transmission by a lone star tick, North Carolina. Emerg Infect Dis. 2011 May;17(5):873-5. PMID: 21529399.
19. Breitschwerdt EB, Maggi RG, **Lantos PM**, Woods CW, Hegarty BC, Bradley JM. *Bartonella vinsonii* subsp. *berkhoffii* and *Bartonella henselae* bacteremia in a father and daughter with neurological disease. *Parasites and Vectors*, 2010 Apr 8;3(1):29. PMID: 20377863.
20. **Lantos PM**, Ahouidi AD, Bei AK, Jennings CV, Sarr O, Ndir O, Wirth DF, Mboup S, Duraisingh MT. Erythrocyte invasion profiles are associated with a common invasion ligand polymorphism in Senegalese isolates of Plasmodium falciparum*.* *Parasitology*, **136**(1): 1-9, 2009.
21. Koutros S, Holford TR, Hahn T, **Lantos PM**, McCarthy PL, Risch HA, Swede H. Excess diagnosis of non-Hodgkin’s lymphoma during spring in the USA. *Leukemia & Lymphoma*, **48**(2): 357-366, 2007.

**Practice Guidelines**

1. **Lantos PM** et al. Clinical Practice Guidelines by the Infectious Diseases Society of America (IDSA), American Academy of Neurology (AAN), and American College of Rheumatology (ACR): 2020 Guidelines for the Prevention, Diagnosis and Treatment of Lyme Disease.
   1. *Clinical Infectious Diseases* 2021 Jan 23;72(1):e1-e48, PMID: 33417672.
   2. *Arthritis and Rheumatology* 2020 Nov 29, PMID: 33251716.
   3. *Arthritis Care Res (Hoboken)* (Hoboken). 2021 Jan;73(1):1-9, PMID: 33251700.
   4. *Neurology* 2021 Feb 9;96(6):262-273, PMID: 33257476.
2. Krause PJ, Auwaerter PA, Bannuru RR, Branda JA, Falck-Ytter YT, **Lantos PM**, Lavergne V, Meissner HC, Osani MC, Rips JG, Sood SK, Vannier E, Vaysbrot EE, Wormser GP. Clinical Practice Guidelines by the Infectious Diseases Society of America (IDSA): 2020 Guideline on Diagnosis and Management of Babesiosis. *Clinical Infectious Diseases* 2021 Jan 27;72(2):185-189, PMID: 33501959.
3. **Lantos PM**, Charini WA, Duray PH, Lantos PM, Medoff G, Moro MH, Mushatt DM, Parsonett J, Sanders JW, Baker CJ*.* **Final Report of the Lyme Disease Review Panel of the Infectious Diseases Society of America (IDSA).** *Clinical Infectious Diseases* 2010 May 26 (Epub ahead of print) 51:1-5. Unabridged report at https://www.idsociety.org/Lyme\_Final\_Report/.

**Review Articles AND EDITORIALS**

1. **Lantos PM**. Chronic Lyme disease. *Infectious Disease Clinics of North America*. 2015; 29(2): 325-40.
2. Willen SM, Thornburg CD, **Lantos PM**. Travelers with sickle cell disease. *Journal of Travel Medicine*. 2014 Sep-Oct;21(5):332-9.
3. Melia MT, **Lantos PM**, and Auwaerter PG. Lyme disease: authentic imitator or wishful imitation? *JAMA Neurology*. 2014 E-pub ahead of press.
4. **Lantos PM** Lyme disease vaccination: Are we ready to try again? *Lancet Infectious Diseases*. 2013 Aug;13(8):643-4.
5. **Lantos, PM** Chronic Lyme Disease: the Science and the Controversy. *Expert Reviews in Anti-Infective Therapy* July, 9(7):787-97, July 2011.
6. Krause P, Daily J, Telford S, Vannier E, **Lantos P**, and Spielman A. Shared features in the pathobiology of babesiosis and malaria. *Trends in Parasitology*, **23**(12): 605-610, Dec 2007.
7. **Lantos P** and Krause PJ. Babesiosis. *Pediatric Annals* **31**(3): 192-197, 2002.
8. **Lantos PM** and Krause PJ. Ehrlichiosis in Children. *Seminars in Pediatric Infectious Diseases* **13**(4): 249-256, 2002.

**Book Chapters**

1. **Lantos PM** and McKinney R. *Rickettsial and Ehrlichial Diseases*. In Cherry JD et. al (eds). **Feigin and Cherry’s Textbook of Pediatric Infectious Diseases, 8h Edition**. *2018.*
2. **Lantos PM** (primary contributor / leading content expert). *Babesiosis*. In: Red Book: 2018 Report of the Committee on Infectious Diseases, 31st Edition. Elk Grove Village, IL: American Academy of Pediatrics.
3. **Lantos PM** (primary contributor / leading content expert). *Lyme Disease*. In: Red Book: 2018 Report of the Committee on Infectious Diseases, 31st Edition. Elk Grove Village, IL: American Academy of Pediatrics.
4. **Lantos PM** (primary contributor / leading content expert). *Borrelia Infections*. In: Red Book: 2015 Report of the Committee on Infectious Diseases, 30th Edition. Elk Grove Village, IL: American Academy of Pediatrics.
5. **Lantos PM** (primary contributor / leading content expert). *Lyme Disease*. In: Red Book: 2015 Report of the Committee on Infectious Diseases, 30th Edition. Elk Grove Village, IL: American Academy of Pediatrics.
6. **Lantos PM** and McKinney R. *Rickettsial and Ehrlichial Diseases*. In Cherry JD et. al (eds). **Feigin and Cherry’s Textbook of Pediatric Infectious Diseases, 7th Edition**. Philadelphia: Elsevier, 2013.
7. **Lantos P** and Krause PJ: *Lyme disease coinfections: Anaplasmosis and Babesiosis*. In Sood S (ed). **Lyme Borreliosis in Europe and North America**. Hoboken, New Jersey: Wiley-Blackwell, 2011, pp 149-158.
8. **Lantos P** and Krause PJ. *Babesiosis*. In DJ Richardson and PJ Krause (eds.), **North American Parasitic Zoonoses**. Norwell, Massachusetts: Kluwer Academic Publishers, 2003, pp 151-164.
9. **Lantos, Paul M**. *Whispers from the Third Generation*, in: Takakuwa K, *ed*. **What I Learned in Medical School: Personal Stories of Young Doctors**. Los Angeles: University of California Press, 2004.

**CORRESPONDENCE**

1. **Lantos PM**, Charini WA, Duray PH, Lantos PM, Medoff G, Moro MH, Mushatt DM, Parsonett J, Sanders JW, Baker CJ. Response to Johnson and Stricker (correspondance). *Clinical Infectious Diseases* 2010 Nov 1. 51(9):1109.
2. **Lantos PM**. Safety concerns and the future of Lyme disease vaccination. *Lancet Infectious Diseases* 2014 Jan;14(1):13.
3. Melia MT, **Lantos PM**, Auwaerter PG. Laboratory testing for lyme neuroborreliosis-reply. *JAMA Neurology*. 2015 Jan 1;72(1):126.

**Grants**

*2022-2024* Getting to Zero: Satellite Informed System to Eliminate Malaria in the Americas

Funding source: NASA

PI: Dr. Bill Pan

Role: coinvestigator

*2018* National CMV Foundation Early Career Research Award ($10,000)

PI: Dr. Paul Lantos

*Geostatistically-guided decision modeling to reduce health disparities from congenital cytomegalovirus*

*2017* Duke Children’s Caring for the Complex Patient Grant ($25,000)

PI: Dr. Vicky Parente

*The Duke Children’s “CARE” (CAring for the Region’s Exceptional children) network: identifying community needs for children with medical complexity and high resource utilization.*

*2016-2020* Duke Education and Research Initiatives in China grant ($20,000)

PI: Dr. Paul Lantos

*GIS training workshop for Global Health students at Duke-Kunshan University and public health workers in Mongolia.*

*2014-2017* KL2 Mentored Clinician Scientist Career Development Award

Duke University CTSA

National Center for Advancing Translational Sciences of the NIH

*Improving the diagnosis of Lyme disease in the Southeastern United States: Integrating Bayesian methodology into diagnostic testing and surveillance*

*2005-2007* American Society of Tropical Medicine and Hygeine / Burroughs-Wellcome Fund Fellowship in Tropical Infectious Diseases

*Erythrocyte invasion pathways in Plasmodium falciparum*

**Invited Presentations**

*July 28, 2020 Lyme Disease in the Southeast*

Pediatric Grand Rounds: Duke University

Durham, NC

*Sept 23, 2019 Graduate Seminar: GIS and Spatial Tools for Disease Mapping*

Global Health Program

Duke-Kunshan University

Kunshan, China

*Sept 18, 2019 Keynote Address: GIS and Spatial Tools for Disease Mapping*

*6th International Conference on One Health*

Ulaanbataar, Mongolia

*Jan 7, 2019 GIS and Spatial Tools for Infectious Diseases Mapping*

Duke University Infectious Diseases Grand Rounds

Durham, NC

*Oct 4, 2018 Lyme disease testing and uncertainty* (Pediatric ID Clinic Session)

*Update on the IDSA-AAN-ACR Lyme disease Guideline* (Guideline Session)

Infectious Diseases Society of America meeting

San Francisco, CA

*May 10, 2018 Lyme Disease and Spatial Uncertainty in Ireland*

Keynote Address: Infectious Diseases Society of Ireland

Galway, Ireland

*Mar 24, 2017 1. Spatial Uncertainty and Clinical Decision Making for Lyme Disease*

*2. Shared Features in the Pathogenesis of Babesiosis and Malaria*

German Borreliosis Society

Erfurt, Germany

*Feb 8, 2017 GIS and Spatial Tools for Infectious Diseases Mapping*

Duke University Informatics Seminar

Durham, NC

*Feb 1, 2017 GIS and Spatial Tools for Infectious Diseases Mapping*

FHI360

Durham, NC

*Jan 25, 2017 Patients in Space: Geographic Information Systems and Clinical Research*

Pediatric Grand Rounds

Yale University School of Medicine

New Haven, CT

*Nov 16, 2016 GIS and Spatial Tools for Infectious Diseases Mapping*

Duke-Kunshan University

Kunshan, China

*Sept 23, 2016 GIS and Spatial Tools for Infectious Diseases Mapping*

Pediatric Grand Rounds

Georgetown University

Washington, DC

*July 28, 2016 Lyme Disease in the Southeast*

Pediatric Medical Grand Rounds

University of Alabama, Birmingham

*July 12, 2016 GIS and Spatial Tools for Infectious Diseases Mapping*

Special Seminar, Division of Infectious Diseases

Boston Children’s Hospital

Boston, MA

*June 14, 2016 Early peaking of influenza near industrial swine sites during the H1N1 pandemic, 2009-2011*

*5th* International Conference on One Health

Ulaanbataar, Mongolia

*May 14, 2016 Geographic Uncertainty and Clinical Decision Making for Lyme Disease*

MGH Lyme Disease Conference

Massachusetts General Hospital, Boston, MA

*Oct 9, 2015 Geographic Uncertainty and Clinical Decision Making for Lyme Disease*

Invited Symposium: Tick-Borne Diseases

Speaker and session moderator

Infectious Diseases Society of America annual meeting

San Diego, CA

*Sept 27, 2015* Poster presentations:

* *Unorthodox alternative therapies marketed to patients with Lyme disease*
* *Poor positive predictive value of Lyme disease serodiagnostic testing in an area of low disease incidence*
* *Geographic expansion of Lyme disease in the southeastern United States, 2000-2014*
* *The positive predictive value of Lyme ELISA for the diagnosis of Lyme disease in children*
* *Lyme Disease Consultations at a Mid-Atlantic Referral Center, 2000-2013*

International Conference on Lyme Borreliosis

Vienna, Austria

*May 26, 2015* 1. *Methods, data, and analytic strategies for geospatial analysis*

(Keynote address)

2. G*IS and Human Health Data*

Geospatial Tools for Research and Public Policy in Environmental Health

Mongolian National University School of Public Health

Ulaanbataar, Mongolia

*Jan 9, 2014 The Challenge of Lyme Disease in the Southeast*

Pediatric Grand Rounds: UNC Chapel Hill School of Medicine

Chapel Hill, NC

*Sept 8, 2013 The Challenge of Lyme Disease in the Southeast*

Infectious Diseases Grand Rounds: Johns Hopkins Medical Institutions

Baltimore, MD

*March 13, 2013 Chronic Lyme Disease: Fact or Fiction?*

Pediatric Grand Rounds: Hackensack University Medical Center

Hackensack, NJ

*July 24, 2012 The Challenge of Lyme Disease in the South*

North Carolina One Health Collaborative Intellectual Exchange Group

Cary, NC

*June 20, 2012 Tick-borne Diseases in North Carolina*

Pediatric Grand Rounds: Moses Cone Health System

Greensboro, NC

*April 23, 2012 Burning Tick-borne Disease Questions in North Carolina*

Katz-Wilfert Update Course in Pediatric Infectious Diseases

Durham, NC

*Dec 8, 2010 Lyme Disease*

North Carolina One Medicine Symposium

Durham, NC

*Nov 22,2010 Lyme Disease: When to Worry and What to Do*

Infe ctious Diseases in Children Symposium

New York, NY

*Nov 21, 2010 Tick-borne disease*

American Academy of Pediatrics

Pediatric Review and Education Program podcast

*Sept 14, 2010 Lyme Disease: A Pediatric Perspective*

Pediatric Grand Rounds: NC State University Student Health

Raleigh, NC

*Sept 8, 2010 Lyme Disease: A Pediatric Perspective*

Pediatric Grand Rounds: Moses Cone Health System

Greensboro, NC

*August 3, 2010 Lyme Disease: A Pediatric Perspective*

Pediatric Grand Rounds: Duke University Medical Center

Durham, NC

*July 16, 2010 Lyme Disease in the Spotlight*

Medical Grand Rounds: Duke University Medical Center

Durham, NC

*May 21, 2010 Findings of the IDSA Lyme Disease Review Panel*

NC Department of Public Health Vector-Borne Disease Working Group

Raleigh, NC

*May 12, 2010 Rocky Mountain Spotted Fever, Ehrlichiosis, and Lyme Disease*

Pediatric Grand Rounds: Rex Hospital

Raleigh, NC

*April 24, 2010 Preventing Malaria in Travelers*

Katz-Wilfert Update Course in Pediatric Infectious Diseases

Durham, NC

*Nov 4, 2006* *Avoiding pitfalls in imported malaria*

Harvard / Boston University Infectious Diseases CME course

Cambridge, MA

*Nov 13, 2006 An invasion ligand polymorphism alters erythrocyte invasion in Senegalese isolates of* Plasmodium falciparum

American Society of Tropical Medicine and Hygiene Annual Meeting

Atlanta, GA

*Oct 2006 Preventing Malaria in Travelers*

Current Concepts in Infectious Diseases CME Course

Harvard Medical School and Boston University School of Medicine

Cambridge, MA

*June 2005 Update on the Prevention of Rheumatic Fever*

Harvard Combined Infectious Diseases Conference

Boston, MA

*Feb 2005 Granulomatous Infections in Patients on TNF-alpha Inhibitors*

Harvard Combined Infectious Diseases Conference

Boston, MA

*Jan 2005*  *Atypical mycobacterial disease in a patient on a TNF-alpha Inhibitor*

Infectious Disease Grand Rounds, Boston Medical Center

Boston, MA

*Nov 2004 Current Issues in the Prevention of Pertussis*

Harvard Combined Infectious Diseases Conference

Boston, MA

*Feb 2004 A Bad Day at the Lab: A Case of Arsenic Poisoning*

Medical Grand Rounds: University of Connecticut Health Center

Farmington, CT

*Oct 31, 2003 Imported hydatid cyst disease: report of two cases*

Poster session: CT Chapter ACP Scientific Meeting

Southington, CT

*Oct 16, 2003 Gastroparesis in an adult with cystic fibrosis*

Physicians’ Grand Rounds: North American Cystic Fibrosis Conference Anaheim, CA

**PROFESSIONAL ACTIVITIES**

**Leadership Activities and Committees**

# *2019-2021* Programs and Meetings Committee

Pediatric Infectious Diseases Society

# *2014-2020* Co-Chair, IDSA-AAN-ACR Lyme Disease Practice Guidelines

Infectious Diseases Society of America

*2014*-*2020* Co-Chair, Babesiosis Practice Guidelines

Infectious Diseases Society of America

# *2009-2012* Standards and Practice Guidelines Committee

Infectious Diseases Society of America

# *2009-2010* Lyme Disease Guidelines Review Panel

# Infectious Diseases Society of America

**Professional Organizations**

*2009-present* International Society of Travel Medicine (ISTM)

*2004-present* Pediatric Infectious Diseases Society (PIDS)

*2004-present* Infectious Diseases Society of America (IDSA)

*2003-present* American Society of Tropical Medicine and Hygiene (ASTMH)

*2002-present* American College of Physicians (ACP-ASIM)

*2000-present* American Academy of Pediatrics (AAP)

**International and Volunteer Experience**

*Sept 2019* GIS Training Workshop

National Center for Public Health, Ulaanbataar, Mongolia

*Sept 2019* GIS Training Workshop

Duke-Kunshan University, Kunshan, China

*Nov 2016* GIS Training Workshop

Duke-Kunshan University, Kunshan, China

*June 2016*GIS Training Workshop

Field Epidemiology Training Program

National Center for Communicable Diseases, Ulaanbataar, Mongolia

# *Mar 2011* Mvomero District, Tanzania

Preliminary data collection for a malaria larviciding and rapid diagnostic testing trial in 24 rural Tanzanian villages

# *Nov-Dec 2005* Universite Cheikh Anta Diop, Dakar, Senegal

# Laboratory-based malaria field research in West Africa

# *Aug 2002* Aninwah Medical Centre, Kumasi, Ghana

# Outpatient consultation and inpatient care at an urban West African hospital

# *Aug 2001* Amazon Medical Project, Amazon Rainforest, Loreto Region, Peru

# Comprehensive outpatient medical care at a remote jungle clinic

*Jan-Feb 2000* Medical Research Council, Fajara, The Gambia

Hospital and clinical research facility in West Africa

Clinical research project with malnourished pediatric inpatients

###### *Oct 1999* Alaska Native Tribal Health Consortium, Juneau, Alaska

Urban family practice serving Alaska Natives and Native Americans

*1996-2000* Salvation Army Marshall House Shelter, Hartford, CT

Shelter for homeless children and mothers

Clinic manager (1999-2000) and frequent volunteer

*1999* Migrant Farmworkers Outreach Project, Hartford, CT

Clinic for Latin American migrant workers on Hartford-area farms

**Invited Peer-Reviews**

JAMA BMC Infectious Diseases

Clinical Infectious Diseases American J of Tropical Medicine and Hygiene

Applied Geography PLOS One

Canadian Journal of Infectious Diseases Diagnostic Microbiology and Infectious Diseases

Bulletin of Mathematical Biology Lancet

Lancet Infectious Diseases Cleveland Clinic Journal of Medicine

Emerging Infectious Diseases International Journal of Infectious Diseases

International Medical Case Reports Journal Journal of Pediatric Infectious Diseases

Journal of Medical Entomology Ticks and Tick-borne Diseases

Journal of Clinical and Translational Science Future Microbiology

Women’s Health Issues Vector-Borne and Zoonotic Diseases

Functional Foods

**Educational Activities**

*2019* GIS Workshop, Duke-Kunshan University, Kunshan, China

*2019* GIS Workshop, National Centre for Public Health, Ulaanbataar, Mongolia

*2016* GIS Workshop, Duke-Kunshan University, China

*2016* GIS Workshop, Field Epidemiology Training Program, Ulaanbataar, Mongolia

*2008-2010* American Board of Pediatrics, Infectious Disease Sub-Board

Question writer for certification exam in Pediatric Infectious Diseases

*Spring 2007* Faculty

HMS1 Immunology, Microbiology, and Pathology course

Small group facilitator for first year medical students

Harvard Medical School

Boston, MA

*Fall, 2005-2007* Guest faculty: Malaria, Yellow Fever, and Mosquito-borne diseases

Freshman seminar: Infectious Diseases and Society

Harvard College, Cambridge, MA

##### **Foreign Languages**

Spanish (proficient)