

CURRICULUM VITAE

DATE: August 10, 2016

NAME: Amy L. Davidow

PRESENT TITLE: Associate Professor with Tenure, Department of Biostatistics,
Rutgers
School of Public Health

OFFICE ADDRESS: Medical Science Building F 596-A, New Jersey Medical School

TELEPHONE NUMBER/E-MAIL ADDRESS: 973-972-4587 davidoal@sph.rutgers.edu

CITIZENSHIP: USA

EDUCATION:

- A. Undergraduate Graduate and Professional
Tufts University, Medford, Massachusetts
B.A. (French) May 1980
- B. Graduate and Professional
New York University, New York, New York
Ph.D. (Mathematics) October 1989

POSTGRADUATE TRAINING:

- A. Internship and Residencies: none
- B. Research Fellowships: see Postdoctoral Appointments.
- C. Postdoctoral Appointments
Aaron Diamond Foundation Postdoctoral Research Fellow in the Biomedical and Social Sciences.
Dept. of Environmental Medicine, New York University School of Medicine, New York, NY.
Epidemiology and Biostatistics
July 1995-June 1998

Postdoctoral Fellow. Cancer Training Grant (National Cancer Institute Training Grant CA09529)
Joseph L. Mailman School of Public Health of Columbia University, Division of Biostatistics, New York, NY.
Biostatistics
July 1994-June 1995

Pew Teacher-Scholar Fellow
Macalester College, St. Paul, MN and University of Chicago, Chicago, IL
Mathematics
September 1989 -June 1991

MILITARY: none

ACADEMIC APPOINTMENTS:

Department of Biostatistics, Rutgers School of Public Health
Associate Professor with Tenure
July 2015-present

Department of Preventive Medicine & Community Health, Rutgers New Jersey Medical School
Division of Quantitative Methods, Rutgers School of Public Health
Associate Professor with Tenure
July 1999-2015

Environmental Medicine
New York University School of Medicine
Assistant Professor
July 1998-June 1999

Mathematics and Computer Science
Macalester College
Assistant Professor
July 1990-June 1994

HOSPITAL APPOINTMENTS: not applicable

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

Visiting Associate Professor, McGill University, Respiratory Epidemiology and Clinical Research Unit, Montreal, Canada. July 2006-December 2006.

PRIVATE PRACTICE: not applicable

LICENSURE: not applicable

DRUG LICENSURE: not applicable

CERTIFICATION: not applicable

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES: International Biometrics Society.

HONORS AND AWARDS: none

BOARDS OF DIRECTORS/TRUSTEES POSITIONS: none

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

2011 Grant review panel. U.S. Civilian Research & Development Foundation (CRDF). CRDF

is a private, nonprofit charitable organization created by the United States Government in 1995 to promote international scientific and technical collaboration. The goals of the CRDF Biomedical Research Competition are to:

- Support high-quality, innovative, basic, and applied research and development by establishing sustainable joint U.S.-International research collaborations; and
- Provide an alternative to emigration for International scientists.

- 2009 Special Emphasis Panel. Centers for Disease Control; Disease, Disability, and Injury Prevention and Control Translating Research to Protect Health through Health Promotion, Prevention and Preparedness (Panel F), CD09-001
- 2008 Grant review panel. U.S. Civilian Research & Development Foundation.
- 2002 Grant review panel. Fundacao para a Ciencia e a Tecnologia (Science and Technology Foundation-Portugal): Evaluation of research projects submitted in the field of Microbiology, Epidemiology and Population Medicine, and Public Health.

SERVICE ON MAJOR COMMITTEES:

A. International

2004-06 International Union against Tuberculosis and Lung Disease/WHO Steering Committee for the Report on Tobacco and Tuberculosis. Member.

B. National

- 2007-2011 National Publications and Presentations Committee Chair, CDC Tuberculosis Epidemiologic Studies Consortium (TBESC)
- 2007-2011 Executive Committee, CDC TBESC
- 2005-2011 Task Order 9 Publications and Presentations Committee Chair, CDC TBESC
- 2002-2007 National Research Agenda Committee Co-chair, CDC TBESC
- 2003-2007 National Publications and Presentations Committee Member, CDC TBESC

C. Medical School/University

- 2013-2015 AAUP Board of Governors. Member.
- 2014-2015 Faculty Investigators Committee. Member.
- 2004-2006; 2013-2014 Faculty Committee on Appointments and Promotions. Member.
- 2012 Annual Foundation of UMDNJ Seed and Collaborative Grants. Member.
- 2011 NJMS Awards Committee. Member.
- 2009-2011 NJMS Bylaws Committee. Member.

D. Hospital: None

E. Department: RUBIES Board of Governors and Search Committee. Public Health and Preventive Medicine Grand Rounds Activity Planning Committee; Biostatistics Faculty Search Committee; Rutgers University Biostatistics & Epidemiology Service Administrator Search Committee.

F. Editorial Boards: None

G. *Ad Hoc* Reviewer:

American Journal of Epidemiology, 2013
American Journal of Public Health, 2004, 2007, 2008, 2012, 2014, 2015
American Journal of Rural Health, 2007
American Public Health Association, Epidemiology Section, 2003, 2016
BMC Infectious Diseases, 2008
BMC Public Health, 2010
BMC Health Services Research, 2015
Canadian Medical Association Journal, 2009
Chest, 2013, 2014
Clinical Infectious Diseases 2008, 2009, 2016 (2 articles)
Controlled Clinical Trials, 2001
Emerging Infectious Diseases 2007
Epidemiology & Infection, 2007, 2008, 2013, 2015 (2 articles)
International Journal of TB and Lung Disease, 2004, 2005, 2007, 2009, 2010, 2011
International Journal of Preventive Medicine 2014
Journal of Behavioral Health 2012
Journal of Occupational and Environmental Medicine, 2005
Journal of Urban Health, 2004, 2010
New England Journal of Medicine, 2007, 2010
Pediatrics, 2008, 2013, 2014, 2015, 2016 (2 articles)
PLoS One, 2013
Scandinavian Journal of Infectious Diseases, 2010, 2011
Social Science & Medicine, 2005
Tuberculosis Research and Treatment, 2014

SERVICE ON GRADUATE SCHOOL COMMITTEES: Member, Doctoral Committee, Rutgers School of Public Health. Member, Admissions Committee, Rutgers School of Public Health.

SERVICE ON HOSPITAL COMMITTEES: none

SERVICE TO THE COMMUNITY: none

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE: none

SPONSORSHIP OF POSTDOCTORAL FELLOWS: none

TEACHING RESPONSIBILITIES:

A. Lectures or Course Directorships

Rutgers School of Public Health
Introduction to Biostatistics (Core Course), 2016
45 hours

Rutgers-School of Public Health
Categorical Data Analysis, 2001-2003, 2009-2015
45 hours

Rutgers, New Jersey Medical School. PMCH 9580K (Quantitative Methods for Tuberculosis Epidemiology). This elective course focused on the use of network analysis as applied to epidemiology and public health, including examples from the epidemiology of tuberculosis and obesity, pharmaco-epidemiology and program evaluation.

UMDNJ-New Jersey Medical School, Global TB Institute. Cultural Awareness in TB Control. October 27-28, 2010. Lecture/demonstration “Better tuberculosis epidemiology through data analysis.”

UMDNJ-New Jersey Medical School
UMDNJ-School of Public Health
Linear Models, 2004-2009
45 hours

UMDNJ-School of Public Health
Introduction to Biostatistics (Core Course), 1999-2001
45 hours

Macalester College, St. Paul, Minnesota. 1990-1994. Course director and Instructor for five 3-credit courses per year: Statistics, Calculus, Linear Algebra, Abstract Algebra, Topology.

University of Chicago, Chicago, Illinois. 1989-1990. Course director and Instructor. Knot Theory.

B. Research Training:

Pre Doctoral Students: Debbie Mohammed, Nisha Jani.

Post Doctoral Students: none

CLINICAL RESPONSIBILITIES: not applicable

ADMINISTRATIVE RESPONSIBILITIES: Director, New Jersey Medical School Biostatistics Core Facility, 2011-2015.

GRANT SUPPORT:

1. Principal Investigator

Current

1. Bill & Melinda Gates Foundation. OPP1124529: Maternal pertussis immunization to reduce deaths and severe disease in young infants: Costs and health consequences. Role: Principal Investigator. 12% salary support. *Begins August 28, 2016.*

Completed

1. Centers for Disease Control & Prevention (CDC). RFA-TP13-001. Preparedness and Response Research to Aid Recovery from Hurricane Sandy. Characterization of the morbidity and mortality among the at-risk and general population impacted by Hurricane Sandy. \$480,202. 09/30/2013 - 09/29/2015.
 2. Foundation of UMDNJ, Feb. 2011-January 2012. Tuberculosis Testing in a Multi-Ethnic Inner City Population of High-Risk Pregnant Women. \$35,000.
 3. CDC Tuberculosis Epidemiologic Studies Consortium, 2001-2011. \$1,216,412. Solicitation No. 2001-N-00073. National Institutes of Health, 2005-2007. \$33,035. Antibody profiles characteristic of tuberculosis state. R21 AI63246-011A1.
 4. CDC Tuberculosis Epidemiologic Studies Consortium, Task Order 9. 2003-2007. \$177,700. Contract Number 200-2001-00077. Enhanced surveillance to identify missed opportunities for TB prevention in foreign-born populations in the United States and Canada.
 5. CDC Tuberculosis Epidemiologic Studies Consortium, Task Order 8. 2003-2008. \$7,600. Contract Number 200-2001-00077. A national genotyping registry for a molecular epidemiological analysis of multidrug-resistant *M. tuberculosis*, USA and/or Canada.
 6. CDC Tuberculosis Epidemiologic Studies Consortium, Task Order 13. Oct.-Dec. 2003. \$5,504. Contract Number 200-2001-00077. Factors associated with acceptance of adherence to and toxicity from treatment for latent tuberculosis infection (TLTBI) and pilot study of TLTBI effectiveness. Phases 1 and 2.
 7. Roche Vitamins, 2004-2005. \$8,333. Asthma Study in the Belvedere/White Township Area.
 8. National Institutes of Health/National Eye Institute, 2001-2004. \$222,257. Grant Number R03 EY 13270-01. Longitudinal statistical methods for ophthalmology
 9. National Institutes of Health, 1998-2000. \$115,500. Grant Number 1 R21 AI42521-01. Tuberculosis incidence and transmission in the AIDS era.
 10. The Aaron Diamond Foundation, 1995-1999. \$204,000. A mathematical investigation of reasons for the decline in TB morbidity in 1993.
2. Co-Investigator

Current

1. NIH STTR. 1R41NS089140-01A1. Shawn Degrees, Seneb Biosciences PI with Robert Ledeen, Ph.D. New Jersey Medical School. Neurotrophic agent for treating Parkinson's disease. Role: Biostatistics Consultant.
2. NIH. 1 R01 AI106125-03. Patricia Bocarsly-Fitzgerald, Ph.D. Principal Investigator. Contribution of plasmacytoid DCs to immune senescence in HIV infection. 5% salary support.
3. NIH. R01HD077982-01. Theresa Chang, Ph.D. Modulation of Innate Immunity, Microbiome, and HIV transmission by Depo-Provera. 9/1/2013 – 8/31/18. 5% salary support.
4. NIH. 1R01AI104615-01. Maria Laura Gennaro, M.D. FISH-Flow platform for host-based tuberculosis diagnostics. 4/1/2013 – 3/31/2018. 10% salary support.

Completed

5. NJ Autism Center of Excellence (NJ ACE) Clinical Research Grant Program. Harumi Jyonouchi, M.D. A role of food allergy (FA) in autism spectrum disorders (ASD); a myth or true clinical entity? 6/28/13 - 6/27/15. 4% salary support.
6. NJ Autism Center of Excellence (NJ ACE) Clinical Research Grant Program. Walter Zahorodny, Ph.D. Perinatal Risk Factors and their Influence on ASD Prevalence. 6/28/13 - 6/27/15. 5% salary support.

7. HRSA. Health Resources and Services Administration. Baburao Koneru, M.D. Remote ischemic pre-conditioning in neurological death organ donors. 12.5% salary support. 2011-2013.
8. Project FIND. Foundation for Innovative Diagnostics. Maria Laura Gennaro, M.D., identifying A Diagnostic Bar-Code For Active Tuberculosis By Whole-Proteome Microarray Chip Technology. Public Health Research Institute.
9. CDC Tuberculosis Epidemiologic Studies Consortium, Task Order 32. Economic study of TB costs in urban areas of the US. 5% salary support.
10. Project FIND: Foundation for Innovative Diagnostics. Maria Laura Gennaro, M.D., UMDNJ-Public Health Research Institute, Principal Investigator. Identification of antibody responses to Mycobacterium tuberculosis via protein micro-array technology.
11. Institute for the Elimination of Health Disparities. \$15,000. 2004. Vitamin D, weather race, and pediatric lead poisoning. John Bogden, Ph.D. Principal Investigator.
12. National Institutes of Health. \$466,500. 2002-2004. Grant Number NIH R21 AI53501-01. Assessment of Smallpox Specific Long Lasting Immune Responses. Thomas Denny, M.S., Principal Investigator.
13. CDC Asthma and Hazardous Substances Applied Research and Development. \$30,251 in year 1. 2002-2005. Grant Number CDC U50-ATU 272289-01. Effective point-source emissions on school absenteeism in Warren County. Stanley Weiss, M.D. and Clifford Weisel, Ph.D. Principal Investigators.
14. CDC Tuberculosis Epidemiologic Studies Consortium, Task Order 2. Contract Number 200-2001-00077. Prospective Evaluation of Immunogenetic and Immunologic Markers for Susceptibility to Tuberculosis Infection and Progression from M. Tuberculosis Infection to Active TB. April 2002-October 2002. \$111,835. Bonita Mangura, M.D., Principal Investigator.
15. U.S. Army, 2001-03. \$202,470. Grant Number DAMD17-01-1-0343. The Roles of FGF-2, TGF- β , and TGF- β receptor 2 in Breast Cancer Dormancy. 2001-2003. Robert Wieder, M.D., Ph.D., Principal Investigator.
16. National Institute of Dental Research, 2000-01. \$422,307. Grant Number P50 DE10592-09. Northeastern Minority Oral Health Research Center. Daniel Fine, D.M.D., Principal Investigator.
17. Dept. of Veterans Affairs HSR&D, 2000-01. \$645,000. Grant Number DIB 99-001. The Effect of a Quality Management Intervention upon Foot Care Outcomes in the Veterans Administration. Leonard Pogach, M.D., Principal Investigator.
18. National Institutes of Health, 1994-98. \$142,161. Grant Number 5 RO1 HL51517-04. Tuberculosis in a multi-ethnic inner city population. Michael Marmor, Ph.D., Principal Investigator.
19. UMDNJ School of Public Health Exploratory Research Funding. \$17,050.00. Racial disparities in lethal violent crimes committed among adolescents and young adults in New Jersey's 21 counties. R. Najem, M.D., Principal Investigator.

PUBLICATIONS:

A. Refereed Original Article in Journals

1. Govindasamy K, Jebiwott S, Jaijyan DK, **Davidow A**, Ojo KK, Van Voorhis WC, Brochet M, Billker O, Bhanot P. Invasion of hepatocytes by Plasmodium sporozoites requires cGMP-dependent protein kinase and calcium dependent protein kinase 4. *Molecular Microbiology*. Accepted Article, doi: 10.1111/mmi.13466.

2. Kolomeyer A, Tu Y, Miserocchi E, Rajan M, **Davidow A**, Chu D. Chronic non-infectious uveitis in patients with juvenile idiopathic arthritis. *Ocular Immunology and Inflammation*. Published online: 22 Feb 2016.
3. Werneke MW, Edmond S, Deutscher D, Ward J, Grigsby D, Young M, McClenahan B, **Davidow A**, Weinberg J. Effect of Adding McKenzie Syndrome, Centralization, Directional Preference, and Psychosocial Classification Variables to a Risk-Adjusted Model Predicting Functional Status Outcomes for Patients With Lumbar Impairments. *J Orthop Sports Phys Ther*:1-46. Epub 31 Jul 2016. doi:10.2519/jospt.2016.6266 31 Jul 2016.
4. Lingaraju S, Rigouts L, Gupta A, Lee JS, Umubyeyi A, **Davidow A**, German S, Cho EJ, Lee J, Cho S-N, Kim CT, Alland D, Safi H. Geographic Differences in the Contribution of ubiA Mutations to High-Level Ethambutol Resistance in Mycobacterium tuberculosis. *Antimicrobial Agents and Chemotherapy*. July 2016; 60:7 4101-4105. Posted online 2 May 2016doi:10.1128/AAC.03002-15.
5. **Davidow AL**, Thomas P, Kim S, Passannante M, Tsai S, Tan C. Access to care in New Jersey in the aftermath of Hurricane Sandy, October 2012. *Disaster Medicine & Public Health Preparedness*. Volume 10 / Special Issue 03 / June 2016, pp 485-491 DOI: <http://dx.doi.org/10.1017/dmp.2016.79>, Published online: 13 May 2016.
6. Roche NE, Abdul-Hakeem F, **Davidow AL**, Thomas P, Kruse L. The Epidemiology of Infant Mortality in the Greater Newark, New Jersey Area: A New Look at an Old Problem. *Journal of the National Medical Association*. 2016; 108 (1):45-53.
7. Vir P, Arrigucci R, Lakehal K, **Davidow AL**, Pine R, et al. Single-Cell Cytokine Gene Expression in Peripheral Blood Cells Correlates with Latent Tuberculosis Status. *PLoS One*. 2015; 10(12):e0144904.
8. Pagaoa M, Royce R, Chen M, Golub J, **Davidow A**, Hirsch-Moverman Y, Marks SM, Teeter LD, Thickstun P, Katz D. risk factors for transmission of tuberculosis among United States-born African Americans and whites. *International Journal of TB and Lung Disease*. 2015; 19(12):1485-92.
9. **Davidow AL**. Davidow responds. (Letter) *American Journal of Public Health*. 2015; 105(12):e3-4.
10. **Davidow AL**, Katz D, Ghosh S, Blumberg HM, Tamhane A, Sevilla A, Reves R. Preventing infectious pulmonary tuberculosis among foreign-born residents of the United States. *American Journal of Public Health*. Published online ahead of print July 16, 2015: e1–e8. doi:10.2105/AJPH.2015.
11. Ren W, Ma Y, Yang LL, Gettie A, Salas J, Russell K, Blanchard J, **Davidow A**, Pei Z, Chang TL, Cheng-Mayer C. Fast disease progression in SHIV infected female macaques is accompanied by a robust local inflammatory innate immune and microbial response. *AIDS*. 2015; 29(10): F1-8. PMID: PMC4542014
12. Hadaczek P, Wu G, Sharma N, Ciesielska A, Bankiewicz K, **Davidow AL**, Lub Z-H, Forsayeth J, Ledeen RW. GDNF signaling implemented by GM1 ganglioside; failure in Parkinson's disease and GM1-deficient murine model. *Experimental Neurology* 263 (2015) 177–189.
13. Jyonouchi J, Geng L, **Davidow A**. Changes in cytokine profiles by peripheral blood monocytes associated with changes in behavioral symptoms following immune insults in a subset of ASD subjects: an inflammatory subtype. *Journal of Neuroinflammation*. 11:187. 27 October 2014. doi:10.1186/s12974-014-0187-2.
14. Fluet GG, Merians AS Qiu Q, **Davidow A**, Adamovich SV. Comparing integrated training of the hand and arm with isolated training of the same effectors in persons with stroke using haptically rendered virtual environments, a randomized clinical trial. *Journal of NeuroEngineering and Rehabilitation* August 2014, 11:126 doi:10.1186/1743-0003-11-126.
15. Pang J, Teeter L, Katz D, **Davidow AL**, Miranda W, Wall K, Ghosh S, Stein-Hart T, Restrepo BI, Reves R, Graviss EA, on behalf of the Tuberculosis Epidemiology Studies

- Consortium. The Impact of Global Immigration on Tuberculosis in Children Younger than 5 Years of Age within the United States. *Pediatrics* (Epub 2014 Feb 10. doi: 10.1542/peds.2008-1536).
16. Lai L, Yan L, Gao S, Hu CL, Ge H, **Davidow A**, Park M, Bravo C, Iwatsubo K, Ishikawa Y, Auwerx J, Sinclair DA, Vatner SF, Vatner DE. Type 5 adenylyl cyclase increases oxidative stress by transcriptional regulation of manganese superoxide dismutase via the SIRT1/FoxO3a pathway. *Circulation*. 2013 April 23;127(16):1692-701. doi: 10.1161/CIRCULATIONAHA.112.001212. Epub 2013 Mar 27.
 17. Colson PW, Couzens G, Royce RA, Kline T, Chavez-Lindell T, Welbel S, Pang J, **Davidow A**, Hirsch-Moverman Y. Examining the impact of patient characteristics and symptomology on knowledge, attitudes, and beliefs among foreign-born tuberculosis cases in the US and Canada. *J Immigrant and Minority Health* February 2013; doi 10.1007/s10903-013-9787-7
 18. Olson NA, **Davidow AL**, Winston CA, Chen MP, Gazmararian JA, Katz DJ. A national study of socioeconomic status and tuberculosis rates by country of birth, United States, 1996-2005. *BMC Public Health* 2012, 12:365 doi:10.1186/1471-2458-12-365.
 19. Kunnath-Velayudhan S, **Davidow AL**, Wang HY, Molina DM, Huynh VT, Salamon H, Pine R, Michel G, Perkins MD, Xiaowu L, Felgner PL, Flynn JL, Catanzaro A, Gennaro ML. Dynamic changes of proteome-scale antibody responses with outcome of M. tuberculosis infection and disease in humans and in non-human primates. *Journal of Infectious Diseases* 2012. doi 10.1093/infdis/jis421. First published online: June 25, 2012.
 20. Blakemore R, Nabeta P, **Davidow AL**, Vadwai V, Tahirli R, Munsamy V, Nicol M, Jones M, Persing DH, Hillemann D, Ruesch-Gerdes S, Leisegang F, Zamudio C, Rodrigues C, Boehme CC, Perkins MD, Alland D. A multisite assessment of the quantitative capabilities of the Xpert MTB/RIF assay. *American Journal of Respiratory & Critical Care Medicine*. 184(9):1076-84, 2011.
 21. Merians AS, Fluet GG, Qiu Q, Saleh S, Lafond I, **Davidow A**, Adamovich SV. Robotically facilitated virtual rehabilitation of arm transport integrated with finger movement in persons with hemiparesis. *J Neuroeng Rehabil*. 8:27, 2011.
 22. Kunnath-Velayudhan S, Salamon H, Wang H, **Davidow A**, Molina DM, Aris V, Cirillo D, Talbot E, Perkins M, Michel G, Felgner PL, Liang X, Gennaro ML. Dynamic antibody responses to the *Mycobacterium tuberculosis* proteome. *Proceedings of the National Academy of Sciences*. 107(33):14703-14708, 2010.
 23. **Davidow AL**. Interferon-gamma release assay test characteristics depend upon the prevalence of active tuberculosis. *International Journal of Tuberculosis and Lung Disease*. 13(11): 1411-1415, 2009.
 24. **Davidow AL**, Katz DJ, Reves R, Bethel J, Ngong L. Meeting the challenge of multi-site epidemiologic studies in diverse populations: design and implementation of a 22-site study of tuberculosis in foreign-born persons. *Public Health Reports* 124(3): 391-399, 2009.
 25. **Davidow AL**, Affouf M. Making sense of agreement among multiple diagnostic tests, with applications to interferon-gamma release assays and tuberculosis skin-testing. *International Journal of Tuberculosis and Lung Disease*. 12(2):152-159, 2008.
 26. Salas-Lopez D, Soto-Greene M, Mouzon DM, **Davidow A**, Reteguiz J, McLaughlin C, Natale-Pereira A. Evaluation of a cultural competency curriculum in third-year medicine clerkship. *Journal of the Association for Academic Minority Physicians*. Summer 2006:54-60, 2006.
 27. Davies PDO, Yew WW, Ganguly D, **Davidow AL**, Reichman LB, Dheda K, Rook GA. Smoking and tuberculosis: the epidemiological association and immuno-pathogenesis. *Journal of the Royal Society of Tropical Med and Hygiene*. 100(4), 291-298, 2006.
 28. Hazbon MH, del Valle MB, Guerrero MI, Varma-Basil M, Filliol I, Magali Cavatorel, Roberto Colangeli, Hassan Safi, Helen Billman-Jacobe, Caroline Lavender, Janet Fyfe, Lourdes Garcia-García, **Davidow AL**, et al. The role of embB306 mutations in

- Mycobacterium tuberculosis revisited: A novel association with any drug resistance and clustering rather than ethambutol resistance. *Antimicrobial Agents and Chemotherapy*. 49(9):3794-802, 2005.
29. **Davidow A**, Kanaujia GV, Shi L, Kaviar J, Guo X, Sung N, Kaplan G, Menzies D, and Gennaro ML. Antibody profiles characteristic of tuberculosis state. *Infection and Immunity* 73(10):6846-6851, 2005.
 30. Fennelly K, **Davidow AL**, Connell N, Ellner JJ. Modeling airborne infection with bacillus anthracis: from mills to mail. *Emerging Infectious Diseases* 10:996-1001, 2004.
 31. Najem GR, Aslam S, **Davidow AL**, Elliot N. Youth homicide racial disparities: gender, years and cause. *Journal of the National Medical Association* 96:558-566, 2004.
 32. **Davidow AL**, Mangura BT, Wolman MS, Bur S, Reves R, Thompson V, Ford J, Reichler MR. Workplace contact investigations in the United States. *The International Journal of Tuberculosis and Lung Disease* 7(12):S446-S452, 2003.
 33. Torrens JI, Skurnick J, **Davidow AL**, Korenman SG, Santoro N, Soto-Greene M, Lasser N, Weiss G. Ethnic differences in insulin sensitivity and Beta-cell function among non-Hispanic white, African American, Japanese, Chinese and non-Mexican American Latino pre- or early perimenopausal women without diabetes. *Diabetes Care* 27: 354-361, 2004.
 34. Li W, Han S, Gregg TR, Kemp FW, **Davidow AL**, Louria DB, Siegel A, Bogden JD. Lead exposure potentiates predatory attack behavior in the cat. *Environmental Research* 92:197-206, 2003.
 35. **Davidow AL**, Mangura BT, Napolitano EC, Reichman LB. Rethinking the socio-economics and geography of tuberculosis among foreign-born residents of New Jersey, 1994-1999. *American Journal of Public Health* 93:1007-1012, 2003.
 36. Gardner JP, Yang X-Y, Skurnick J, Wilson PD, Aviv H, Patel S, **Davidow AL**, Gutkin M, Aviv A. Loss of chromosome 16 from renal epithelial cells in humans. *Hypertension* 40:928-933, 2002.
 37. Reteguiz J, **Davidow AL**, Miller M, Johanson WG Jr. Clerkship timing and disparity in performance of racial-ethnic minorities in the medicine clerkship. *Journal of the National Medical Association* 94:779-788, 2002.
 38. Sands S, Kellie SJ, **Davidow AL**, et al. Long-term quality of life and neuropsychological functioning from the first international cooperative trial for CNS germ cell tumors. *Neuro-Oncology* 3:174-183, 2001.
 39. Mann S, Sripathy R, Siegler EL, **Davidow AL**, Lipkin M, Roter DL. The medical interview: Differences between adult and geriatric outpatients. *Journal of the American Geriatric Society* 49:65-71, 2001.
 40. **Davidow AL**, Alcabes P, Marmor M. The contribution of recently acquired Mycobacterium tuberculosis infection to the New York City tuberculosis epidemic, 1989-1993: an analysis using mathematical modeling. *Epidemiology* 11:394-401, 2000.
 41. Sandman L, Schluger NW, **Davidow AL**, Bonk S. Risk factors for rifampin-monoresistant tuberculosis. A case-control study. *American Journal of Respiratory and Critical Care Medicine* 159:468-472, 1999.
 42. Epstein MD, Schluger NW, **Davidow AL**, Bonk S, Rom WN, Hanna B. Time to detection of M. Tuberculosis in sputum culture correlates with outcome in patients receiving treatment for pulmonary tuberculosis. *Chest* 113:379-386, 1998.
 43. **Davidow AL**, Marmor M, Alcabes PG. Geographic diversity in tuberculosis trends and directly observed therapy, New York City, 1991 to 1994. *The American Journal of Respiratory and Critical Care Medicine*, 156:1495-1500, 1997.
 44. **Davidow AL**, Neugut AI, Jacobson JS, Ahsan H, Garbowski GC, Forde KA, Treat MR, Wayne JD. Recurrent adenomatous polyps and body mass index. *Cancer Epidemiology, Biomarkers & Prevention*, 5:313-315, 1996.
 45. **Davidow AL**, Hutchinson JP, Huneke JP. Planar and toroidal graphs with homeomorphically

- irreducible spanning trees. *Graph Theory, Combinatorics, and Applications: Proceedings of the Seventh Quadrennial International Conference on the Theory and Applications of Graphs*, 1:265-276, 1995.
46. **Davidow AL**. Casson's invariant and twisted double knots, *Topology and its Applications*, 58:93-101, 1994.
47. **Davidow AL**. Casson's invariant for branched cyclic covers over iterated torus knots. *Proceedings of the International Conference on Knot Theory and Related Topics*; held in Osaka (Japan), Walter de Gruyter & Company, 51-16, 1992.
- B. Books, Monographs and Chapters.
None
- C. Patents Held
None
- D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications
None
- E. Abstracts (partial list)
1. Kulkarni PA, Gu H, Tsai S, O'Dowd K, Passannante M, Kim S, Thomas PA, Tan CG, **Davidow A**. Characterization of Evacuations as a Result of Hurricane Sandy — New Jersey, October–November 2012. 2015 Northeast Epidemiology Conference. *Accepted*.
 2. Rajan M, Thomas P, **Davidow A**, Tan C. Emergency department (ED) and hospitalization use for chronic obstructive pulmonary disease (COPD) or Asthma in older adults following Hurricane Sandy, New Jersey, 2012. 2015 Northeast Epidemiology Conference. *Accepted for oral presentation at Chronic Disease Session, October 1, 2015*.
 3. German S, Thomas P, **Davidow A**, Marcus S, Ruck B. Use of New Jersey Poison Information and Education System (NJPIES) during Hurricane Sandy. 2015 Northeast Epidemiology Conference. *Accepted for presentation at Occupational / Environmental Health Session*.
 4. Marx SM, Katz DJ, Pagaoa MA, **Davidow AL**, Graviss EA, Teeter LD. Characteristics and Outcomes of U.S.-born Black and White TB Patients with HIV Infection. 2015 National HIV Prevention Conference, Atlanta, Georgia. *Accepted for poster presentation*.
 5. **Davidow AL**, Lardizabal A, Sinha A, Gittens-Williams L, Koneru S. Tuberculosis among the foreign-born in the U.S. - a reflection of a global epidemic. Rutgers Global Health Research Symposium June 2015. *Poster presentation*.
 6. Bongu A, Washburn W, Oliver J, Nespral J, **Davidow A**, et al. Remote ischemic preconditioning increases transplantation of abdominal organs in standard criteria neurological death donors. 2015 American Transplant Congress. *Oral Presentation*.
 7. Oliver JB, **Davidow AL**, et al. The Impact of Chronic Liver Disease on Surgical Morbidity and Mortality Utilizing ACS NSQIP. 2014 American College of Surgeons National Surgical Quality Improvement Program National Conference. New York. *Oral Presentation*.
 8. Tovmasian LT, Gittens-Williams L, **Davidow A**. The effect of prenatal care on short term neonatal outcomes in singleton late preterm births. Annual Clinical Meeting. American College of Obstetrics & Gynecology: 2011.

9. Wolman M, Lardizabal A, **Davidow A**, Sevilla A. Recorded Discordance Between Foreign and Domestic TST Results in Recently Arrived Class B2 Immigrants. 2010 National TB Conference, June 21-24, 2010.
10. **Davidow A**. Specificity of Interferon-Gamma Release Assays for Latent TB Infection Depends Upon Sensitivity to Active TB. 2nd Global Symposium on Interferon Gamma Release Assays. Dubrovnik, Croatia 2009.
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34. Sandman L, **Davidow AL**, Bonk S, Schluger NW. Risk factors for rifampin monoresistance in M. Tuberculosis. Annual meeting of the American Thoracic Society, Chicago, IL, May 1998. American Journal of Respiratory and Critical Care Medicine (Supplement) 1998; Volume 157, No. 3, Part 2.
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F. Reports
None

PRESENTATIONS:

A. Scientific (*Basic Science*):

Davidow AL. International Biometrics Society IBC Victoria 2016. Contributed oral program. ID#(2473630). Quantifying the effect of spectrum bias in diagnostic accuracy studies. July 2016.

Davidow A. Diagnostic Accuracy Studies, Spectrum Bias and Tuberculosis. New Jersey Institute of Technology. Department of Mathematical Sciences and Center for Applied Mathematics and Statistics. Statistics Seminar Series. February 16, 2012.

Davidow A. The epidemiology of tuberculosis: Data, methods and challenges. Montclair State University. Department of Mathematics. March 7, 2012

Davidow AL. Update from the CDC's TB Epidemiologic Studies Consortium: Opportunities for Prevention of TB among the Foreign-Born. *Oral presentation.* Centers for Disease Control session at the American Thoracic Society Annual Meeting, Denver, Colorado, May 18, 2011.

Davidow A, Sevilla A, Katz D, Reves R, and the Tuberculosis Epidemiologic Studies Consortium. Prevention of tuberculosis in older, foreign-born residents of the US. *Am J Respir. Crit. Care Med* 2010; 181: A5381. Oral presentation at American Thoracic Society, May 2010.

Davidow AL and Reichman LB. Tuberculosis and smoking: the American experience. Symposium on tuberculosis and smoking. *Invited talk.* 34th International Union against Tuberculosis and Lung Disease World Conference on Lung Health, Paris, France. Oct. 29 – Nov. 2, 2003.

B. Professional (*Clinical*):

Davidow AL. Using the Behavioral Risk Factor Survey to study the impact of Hurricane Sandy in New Jersey. Community Resilience Research Coalition Webinar. January 20, 2016. Sponsored by Assistant Secretary for Preparedness and Response (ASPR); Health and Human Services.

Davidow AL. Networks in public health and epidemiology. New York University, Faculty Resource Network, Network Summer 2013. June 10, 2013.

Davidow AL. Making lemonade from lemons: using the kappa statistic to understand the relationship between multiple diagnostic tests for latent TB infection. University of Texas Health Sciences, Brownsville, Texas. May 9, 2008.

Davidow AL. Bio2010: From Epidemics to Epidemiology – Tuberculosis: a Returning Threat. New York University, Faculty Resource Network, Network Summer 2007.