

CURRICULUM VITAE: BASMATTEE BOODRAM

EDUCATION

08/2009	University of Illinois at Chicago	Ph.D.	(Epidemiology)
06/1997	Connecticut State University	M.P.H.	(Public Health)
06/1995	Yale University	Fellow	(Social Justice)
06/1994	Dartmouth College	B.A.	(History)

PROFESSIONAL EMPLOYMENT

University of Illinois at Chicago, School of Public Health, Chicago, IL

10/2018 –	Associate Professor, Division of Community Health Sciences
01/2011 – 09/2018	Research Assistant Professor, Division of Epidemiology and Biostatistics
04/2008 – 12/2010	Research Specialist/Director of Operations, Community Outreach Intervention Projects

Other Institutions

08/1999 – 05/2002	Epidemiologist, HIV/AIDS Research, New York City Department of Health, New York, NY
08/1997 – 07/1999	Associate Epidemiologist, American Lung Association National Office, New York, NY

HONORS, AWARDS AND FELLOWSHIPS

Research of the Year (Clinical Sciences), Vice Chancellor of Research, University of Illinois at Chicago, 2018
Health Equity and Advocacy Award, University of Illinois Alumni Association, 2015
Diverse Investigators in HIV Behavioral Research Mentee Award, National Institute of Mental Health, 2013
Early Career and Transitional Investigator Mentorship Award, National Centers for AIDS Research, 2012
Delta Omega Honorary Society, University of Illinois at Chicago Chapter, 2010
Provost Research Award, Graduate College, University of Illinois at Chicago, 2008
Dean Scholar Award, Graduate College Fellowship, University of Illinois at Chicago, 2007
Dean's List, Dartmouth College, 1994
Rufus Choate Scholar Award, Dartmouth College, 1994

PEER-REVIEWED PUBLICATIONS

1. Tatara E, Collier N, Gutfraind A, Cotler, S, Dahari H, Major M, **Boodram B**. Multi-objective model exploration of hepatitis C elimination in an agent-based model of people who inject drugs. Proceedings of the 2019 Winter Simulation Conference. N. Mustafee, K.-H.G. Bae, S. Lazarova-Molnar, M. Rabe, C. Szabo, P. Haas, and Y-J. Son, eds.
2. Echevarria D, Gutfraind A, **Boodram B**, Layden J, Ozik J, Page K, Cotler S, Major M, Dahari H. Modeling indicates efficient vaccine-based interventions for the elimination of hepatitis C virus among persons who inject drugs in metropolitan Chicago. *Vaccine*. 2019;1;37(19):2608-2616. doi: 10.1016/j.vaccine.2019.02.081.
3. Wilson D, **Boodram B**, Smith J. Public housing, heroin addiction, and America's industrial suburbs: a planetary urbanist perspective. In: *Massive Suburbanization: (Re)Building the Global Periphery*. Ed. Murat Guney, Roger Keil, Murat Ucoglu. University of Toronto Press. 2019.
4. Mackesy-Amiti M, **Boodram B**, Handanagic S, Paz-Bailey, G, Broz D for the NHBS Group. Latent classes of sexual risk behavior and engagement in outreach, intervention and prevention services among women who inject drugs across 20 U.S. cities. *J Acquir Immune Defic Syndr*. 2018; 9(3):305-314.
5. Major M, Gutfraind A, Qingwen C, Shekhtman L, Kachko A, Cotler S, Hajarizadeh B, Sacks-Davis R, Page K, **Boodram B**, Dahari H. Modeling of patient virus titers suggests that availability of hepatitis C vaccine could reduce hepatitis C transmission among injection drug users. *Sci Transl Med* 2018; 10:eaao4496.
6. Mackesy-Amiti ME, **Boodram B**. Feasibility of ecological momentary assessment to study mood and risk behavior among young people who inject drugs. *Drug Alcohol Depend*. 2018; 87:227-235.
7. Dahari H, **Boodram B**. How to eliminate hepatitis C virus among people who inject drugs in the USA. *Lancet Infect Dis*. 2018; 18(2):134-135.

8. **Boodram B**, Hotton A, Shekhtman L, Gutfraind A, Dahari H. High-risk geographic mobility patterns among young urban and suburban persons who inject drugs and their injection network members. *J Urban Health*. 2018; 95 (1): 71-82.
9. Mackesy-Amiti M, **Boodram B**, Spiller MW, Paz-Bailey G, Prachand N, Broz D. Injection-related risk behavior and engagement in outreach, intervention and prevention services across 20 U.S. cities. *J Acquir Immune Defic Syndr*. 2017; 75 (Supplement: 3):S316-S24.
10. Hotton A, **Boodram B**. Gender, transience, network partnerships and risky sexual practices among young persons who inject drugs. *AIDS Behav*. 2017; 21(4):982-993
11. Gutfraind A*, **Boodram B***, Prachand N, Hailegiorgis A, Dahari H, Major M. Agent-based model forecasts aging of the population of people who inject drugs in metropolitan Chicago and changing prevalence of hepatitis C infections. *PLoS One*. 2015;10(9):e0137993. ***Co-first authors.**
12. **Boodram B**, Mackesy-Amiti ME, Latkin C. The role of social networks and geography on risky injection behaviors of young persons who inject drugs. *Drug Alcohol Depend*. 2015;154:229-35.
13. Echevarria D, Gutfraind A, **Boodram B**, Major M, Del Valle S, Cotler S, Dahari H. Mathematical modeling of hepatitis C prevalence reduction with antiviral treatment scale-up in persons who inject drugs in metropolitan Chicago. *PLoS One*. 2015;10(8):e0135901.
14. Latkin CA, Davey-Rothwell MA, Knowlton AR, Alexander KA, Williams CT, **Boodram B**. Social network approaches to recruitment, HIV prevention, medical care, and medication adherence. *J Acquir Immun Defic Syndr*. 2013;63 Suppl 1:S54-8.
15. **Boodram B**, Williams CT. Collecting whole network data for human immunodeficiency virus prevention: a review of current strategies. *J. AIDS HIV Res*. 2013;5(4):114-26.
16. Mackesy-Amiti M, **Boodram B**, Williams CT, Broz D. Sexual risk behavior associated with transition to injection among young non-injecting heroin users. *AIDS Behav*. 2013;17(7):2459-66.
17. **Boodram B**, Hershow RC, Cotler SJ, Ouellet LJ. Chronic hepatitis C virus infection and increases in viral load in a prospective cohort of young, HIV-uninfected injection drug users. *Drug Alcohol Depend*. 2011;119(3):166-71.
18. **Boodram B**, Hershow RC, Klinzman D, Stapleton JT. GB virus C infection among young, HIV-negative injection drug users with and without hepatitis C virus infection. *J. Viral. Hepat*. 2011;18(4):e153-9.
19. **Boodram B**, Golub ET, Ouellet LJ. Socio-behavioral and geographic correlates of prevalent hepatitis virus infection among young injection drug users in metropolitan Baltimore and Chicago. *Drug Alcohol Depend*. 2010;111(1-2):136-45.
20. **Boodram B**, Plankey MW, Cox C, Tien PC, Cohen MH, Anastos K, Karim R, Hyman C, Hershow RC. Prevalence and correlates of elevated body mass index among HIV-positive and HIV-negative women in the Women's Interagency HIV Study. *AIDS Patient Care STDs*. 2009; 23(12):1009-1016.
21. Wang JH, Zheng X, Ke X, Dorak MT, Shen J, **Boodram B**, O'Gorman M, Beaman K, Cotler SJ, Hershow, Rong L. Ethnic and geographical differences in HLA associations with the outcome of hepatitis C virus infection. *Virology*. 2009; 6:46.
22. **Boodram B**, Torian L, Thomas P, Wilt S, Pollock DA, Bell M, Budnitz D. Rapid assessment of injuries among survivors of the terrorist attack on the World Trade Center—New York City, Sept 2001. *MMWR*. 2002; 51(1):1-5. Reprinted in *JAMA*. 2002; 287(7):835-838.
23. Rappaport S, **Boodram B**, the Centers for Disease Control and Prevention. Forecasted state-specific estimates of self-reported asthma prevalence—United States, 1998. *MMWR*. 1998;47(47):1022-1025.

CONFERENCE PRESENTATIONS (Selected from >50)

1. **Boodram B**, Hotton A. Large syringe-sharing injection networks of young persons who inject drugs. Sunbelt XXXVIII Conference, International Network for Social Network Analysis, Utrecht, Netherlands, June 26-July 1, 2018. *Plenary*.
2. **Boodram B**, Dahari H, Ozik J. Modeling hepatitis C elimination among persons who inject drugs. Annual Meeting of the Models of Infectious Disease Agents Network, National Institutes of Health, Bethesda, Maryland, April 2-5, 2018. *Invited*.

3. **Boodram B**, Kaufmann M, Aronsohn A, Kim K, Wolf J, Hamlsh T, Johnson D, Rodriguez I. A novel hepatitis C case management and capacity building program to enhance treatment linkage and completion in a large metropolitan area. 145th Annual Meeting of the American Public Health Association, Atlanta, Georgia, November 4-8, 2017. *Plenary*.
4. **Boodram B**, Mackesy-Amiti M, Latkin C. Geographic mobility, social networks and syringe sharing among young persons who inject drugs from metropolitan Chicago. National HIV Prevention Conference, Atlanta, Georgia, December 6-9, 2015. *Plenary*.
5. Wilson D, **Boodram B**, Lalomio J. The new reality of heroin addiction in Chicago. A discussion in special session "Spatializing shattered subjects: geographies of trauma". Annual Meeting of the Association of American Geographers, Los Angeles, California, April 9-13, 2013.
6. Ouellet LJ, **Boodram B**, Broz D. Prescription opioid misuse and heroin initiation by young urban and suburban non-injecting heroin users in Chicago. 140th Annual Meeting of the American Public Health Association, San Francisco, California, October 27-31, 2012.
7. **Boodram B**, Redman S, Williams CT. Strategies used to sample, recruit, and collect sociometric data for HIV prevention. 5th National Scientific Meeting of the Social and Behavioral Sciences Research Network, Centers for AIDS Research, Atlanta, Georgia, October 7-8, 2010.
8. **Boodram B**, Ouellet L, Golub E, Hudson S, Kapadia F, Hagan H, Garfein R. Prevalence and correlates of human immunodeficiency virus, hepatitis B and hepatitis C virus co-infection among young injection drug users: Collaborative Injection Drug Users Study III/Drug User Intervention Trial, 2002-2004. XVII International AIDS Conference, Mexico City, Mexico, August 3-8, 2008.
9. Wang JH, Ke X, **Boodram B**, Hershov RC, Cotler S. Association of HLA-C and Class II genes and their influence on hepatitis C infection. 13th Annual International Meeting on Hepatitis C Virus & Related Viruses, Cairns, Australia, August 27-31, 2006.
10. **Boodram B**, Hershov RC, Ouellet, LJ. Barriers to seeking medical treatment for chronic hepatitis C infection among young injecting drug users in metropolitan Chicago. 133rd Meeting of the American Public Health Association, Philadelphia, Pennsylvania, December 10-14, 2005.

CURRENT RESEARCH AND INTERVENTION GRANTS

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| 2017-2022 | R01DA043484 | National Institute of Drug Abuse, NIH |
| <i>Contextual Risk Factors for Hepatitis C among Young Persons Who Inject Drugs</i> | | |
| A longitudinal study of 420 young persons who inject drugs and 1,156 of their drug injection network partners to examine the role of social networks, social geography, drug use social norms, and drug use stigma on (a) hepatitis C risk and drug overdose. The research project will elucidate key contextual and structural factors to inform the development of innovative strategies (e.g., network interventions) to reduce hepatitis C incidence and overdose among young people who misuse drugs. | | |
| Role: Principal Investigator | | Total Cost=\$3,561,443 |
| 2017-2022 | R01GM121600 | National Institute of General Medical Sciences, NIH |
| <i>Computational Discovery of Effective Hepatitis C Intervention Strategies</i> | | |
| Study aims to develop the <i>first</i> comprehensive, empirical data-driven agent-based computational model for a U.S.-based population of persons who inject drugs to enable policy makers to identify the most effective intervention strategies for elimination of hepatitis C in the United States, which was deemed feasible for the U.S. by 2030 by the World Health Organization. | | |
| Role: Principal Investigator | | Total Cost=\$2,011,599 |
| 2014-2019 | 1US1PS004607 | Centers for Disease Control and Prevention |
| <i>The Hepatitis C Community Alliance to Test and Treat (HepCCATT) in Chicago Program</i> | | |
| This intervention project aims to strengthen health-care capacity to diagnose and cure hepatitis C (HCV) through implementation of a package of HCV-related services in Chicago populations with HCV-related health disparities, including individuals born between 1945 and 1965, African-Americans, and persons who inject drugs. | | |
| Role: Principal Investigator (Multi-site) | | Total Cost (UIC)=\$1,716,855 |

COMPLETED RESEARCH AND INTERVENTION GRANTS

- 2017-2018** **Pilot Grant** **University of Illinois at Chicago**
Feasibility of Recruiting Suburban Opioid Users for Studies on HCV Prevention
Study examines transitions from non-injection to injection opioid/heroin use, overdose awareness, hepatitis C knowledge, and barriers to hepatitis C testing and treatment uptake among young suburban opioid users.
Role: Co-Investigator (PI: Mackesy-Amiti) **Total Cost=\$24,299**
- 2015-2018** **R21DA039010** **National Institute of Drug Abuse, NIH**
Emotion Dysregulation and Risky Behavior among People Who Inject Drugs
This study tested the acceptability and feasibility of using ecological momentary assessment to study mood and behavior in young people who inject drugs.
Role: Co-Investigator (PI: Mackesy-Amiti) **Total Cost=\$443,513**
- 2015-2016** **Pilot Grant** **University of Illinois at Chicago**
Social Geography of Risk among Persons Who Inject Drugs
This study collected real-time data to examine risk behavior among young suburban persons who inject drugs.
Role: Co-Investigator (PI: Mackesy-Amiti) **Total Cost=\$28,777**
- 2010-2015** **R01DA030796** **National Institute of Drug Abuse, NIH**
Seek, Test, Treat: An Integrated Jail-Prison-Community Model for Illinois
The study created a system-wide approach to identifying and treating HIV infections in correctional settings.
Role: Project Director (PI: Ouellet) **Total Cost=\$5,515,080**
- 2012-2014** **PS12-1209** **Centers for Disease Control and Prevention**
Hepatitis C Testing, Case Management and Linkage to Care among Persons Who Inject Drugs
This intervention project tested persons who inject drugs for hepatitis C (HCV), developed and evaluated an intensive HCV-focused case management program, and linked HCV-infected participants to medical care.
Role: Principal Investigator **Total Cost=\$299,693**
- 2012-2013** **Pilot Grant** **Chicago Developmental Center for AIDS Research**
Social & Geographic Risk Factors for HIV & Hepatitis C Infection among Young Persons Who Inject Drugs
The study simultaneously evaluated the relationship between individual level-behavior, social networks, and geographic risk factors for hepatitis C and HIV infection risk among young persons who inject drugs.
Role: Principal Investigator **Total Cost=\$49,190**
- 2012-2013** **Areas of Excellence** **University of Illinois at Chicago**
Multi-scale Models of Hepatitis C Infection: Design of Vaccine Trials and Intervention Programs
The study developed a computational tool to simulate biological and population level dynamics to forecast hepatitis C epidemiology and to facilitate the design and evaluation of hepatitis C vaccine trials.
Role: Principal Investigator **Total Cost=\$75,000**
- 2012-13** **Illinois Department of Human Services**
DASA HIV Testing and Counseling
This intervention program provided HIV testing and outreach prevention services to access high-risk populations.
Role: Principal Investigator **Total Cost=\$499,008**
- 2003-2010** **U01DA017378** **National Institute of Drug Abuse, NIH**
HIV and the Sexual Networks of Injection Drug Users and Drug-Using Men Who Have Sex with Men
This study examined the sexual diffusion of HIV within drug-using and to non-drug using populations.
Role: Project Director (PI: Ouellet) **Total Cost=\$4,237,200**
- 2002-2006** **R01DA13765** **National Institute of Drug Abuse, NIH**
Early Natural History of HCV Infection among Injection Drug Users
This prospective cohort study examined the biological and clinical characteristics of early-stage chronic hepatitis C infection among young injection persons who inject drugs.
Role: Project Director (PI: Hershov) **Total Cost=\$1,503,783**

TEACHING/MENTORING (UNIVERSITY OF ILLINOIS, SCHOOL OF PUBLIC HEALTH)

2011- Instructor, *Public Health and the Study of Disease and Epidemics*, Undergraduate Program

PROFESSIONAL ACTIVITIES

National Institute of Health (NIH) Review Panels

- (1) Mechanism of Disparities in Chronic Liver Diseases and Cancer, National Institute on Minority Health and Health Disparities/National Cancer Institute/National Institute on Alcohol Abuse and Alcoholism, July 2019
- (2) Special Emphasis Panel, National Institute of General Medical Sciences, NIH, June 2017 and July 2018
- (3) Special Emphasis Panel, National Institute of Drug Abuse (NIDA), NIH, July 2016 and November 2017

Peer-Reviewed Journals (in alphabetical order)

- (1) *Addiction*, (2) *AIDS and Behavior*, (3) *American Journal of Public Health*, (4) *British Medical Journal*, (5) *BMC Infectious Diseases*, (6) *BMC Public Health*, (7) *Clinical Infectious Diseases*, (8) *Drug and Alcohol Dependence*, (8) *Harm Reduction Journal*, (9) *Hepatology*, (10) *International Journal of Drug Policy*, (11) *Journal of Acquired Immune Deficiency Syndromes*, (12) *Journal of the American Medical Association*, (13) *Journal of Infection and Public Health*, (14) *Lancet Gastroenterology and Hepatology*, (15) *PLoS One*, (16) *Social Science and Medicine*, (17) *Substance Use and Misuse*, (18) *Substance Abuse Treatment, Prevention, and Policy*

University of Illinois at Chicago, School of Public Committees & Services

- (1) Opioid Task Force (University-wide) (2018-), (2) Oversight Committee/Curriculum Development Group, Public Health Baccalaureate Program (2010-2017), (3) Committee on Research (2015-17), (3) Research Advisory Board (2013-15), (4) Consortium for Modeling and Analysis of Treatments and Interventions (2012-)

Illinois Community Board Memberships

- (1) Hepatitis C Elimination Task Force (2017-), (2) Hepatitis C Community Alliance to Test and Treat (2014-), (3) HIV Advisory Work Group, Illinois Department of Human Services (2009-16), (4) Illinois Coalition of Harm Reduction Providers (2009-16), (5) Service Providers Council, AIDS Foundation of Chicago (2009-12), (6) Hepatitis Prevention Committee, Illinois Department of Public Health (2004-11), (7) Viral Hepatitis Task Force, Chicago Department of Public Health (2002-12)

Professional Society Memberships (in alphabetical order)

- (1) American Association for the Study of Liver Diseases, (2) American College of Epidemiology, (3) American Public Health Association, (4) International AIDS Society, (5) International Network of Social Network Analysis