

Carmel Salhi

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Northeastern University
Bouvé College of Health Sciences
Department of Health Sciences

EDUCATION

- Harvard School of Public Health** September 2008 - May 2013
Doctor of Science, Global Health and Population
Concentrations: Epidemiology; Anthropology
- Harvard School of Public Health** September 2006 – May 2008
Master of Science, Population and International Health
- University of Michigan, Ann Arbor** September 2001 – May 2005
Bachelor of Arts: Major in Modern Middle East History
Bachelor of Science: Major in Biology, Minor in Mathematics

ACADEMIC APPOINTMENTS

- Assistant Professor (tenure track), Department of Health Sciences**
Bouve College of Health Sciences, Northeastern University; September 2015 to present
- Research Fellow, Department of Cognitive, Linguistic & Psychological Sciences**
Brown University; June 2015 to August 2015
- Post-doctoral Research Fellow, Developmental Medicine Center Laboratories of Cognitive Neuroscience**
Harvard Medical School & Boston Children's Hospital; May 2013 to May 2015

PUBLICATIONS

Reviewed Publications, Accepted/Published (*student/mentee co-author)

1. **Salhi C.**, Azrael D., & Miller M. (2021). Parent and adolescent reports of adolescent access to household firearms in the United States. *JAMA network open*, 4(3), e210989-e210989.
2. Houston AR*, Lincoln AL, Gillespie S*, Da Fonseca T*, Osob I, Ellis H, **Salhi C.** (2021). "You Have to Pay to Live": Somali Young Adult Experiences with the US Healthcare System. *Qualitative Health Research*.
3. **Salhi C.**, Scoglio A., Ellis H., Issa O., Lincoln A. (2021). The relationship of pre- and post-resettlement violence exposure to mental health among refugees: a multi-site panel survey of somalis in the US and Canada. *Social Psychiatry and Psychiatric Epidemiology*, 1-9. DOI: 10.1007/s00127-020-02010-8
4. Lincoln A., Cardeli E., Sideridis G., **Salhi C.**, Miller A. B., Da Fonseca T.*, Issa O., Ellis B. H. (2020). Discrimination, marginalization, belonging, and mental health among Somali immigrants in North America. *American Journal of Orthopsychiatry*.
5. **Salhi C.**, Beatriz E., McBain R., McCoy D., Sheridan M., Fink G. (2020). Physical Discipline, Deprivation, and Differential Risk of Developmental Delay Across 17 Countries. *Journal of the American Academy of Child & Adolescent Psychiatry*.
6. Eyllon M.*, **Salhi C.**, Griffith J. L., Lincoln A. (2020). Exclusionary School Discipline Policies and Mental Health in a National Sample of Adolescents without Histories of Suspension or Expulsion. *Youth & Society*, 0044118X20959591.
7. **Salhi C.**, Azrael D., Miller M. J. (2020). Patterns of gun owner beliefs about firearm risk in relation to firearm storage: a latent class analysis using the 2019 National Firearms Survey.

Injury prevention.

8. Miller M. J., **Salhi C.**, Barber C., Azrael D., Beatriz E., Berrigan J., Brandspigel S., Betz M. E., Runyan C. (2020). Changes in Firearm and Medication Storage Practices in Homes of Youths at Risk for Suicide: Results of the SAFETY Study, a Clustered, Emergency Department--Based, Multisite, Stepped-Wedge Trial. *Annals of emergency medicine*.
9. Scoglio A. A.*, **Salhi, C.** (2020). Violence exposure and mental health among resettled refugees: a systematic review. *Trauma, Violence, & Abuse*, 1524838020915584.
10. Wertz J*, Azrael D, Berrigan J, Barber C, Nelson E, Hemenway D, **Salhi C**, Miller M. (2020). A Typology of Civilians Shot and Killed by US Police: A Latent Class Analysis of Firearm Legal Intervention Homicide in the 2014–2015 National Violent Death Reporting System. *Journal of Urban Health*, 1-12.
11. **Salhi C.**, Berrigan J.*, Beatriz E.*, Azrael D., Barber C., Runyan C., Miller M. J. (2020). "It's changed how we have these conversations": Emergency Department Clinicians' Experiences Implementing a New Lethal Means Counseling Protocol for Caregivers of Adolescents. *International Review of Psychiatry*. DOI: 10.1080/09540261.2020.1870938
12. Sheridan MA, Shi F, Miller AB*, **Salhi C**, McLaughlin KA. (2019). Network structure reveals clusters of associations between childhood adversities and development outcomes. *Developmental Science*, e12934.
13. Beatriz E* & **Salhi C.** (2019). Child discipline in low-and middle-income countries: Socioeconomic disparities at the household-and country-level. *Child abuse & neglect*, 94, 104023.
14. Amso D, **Salhi C**, & Badre D. (2019). The relationship between cognitive enrichment and cognitive control: A systematic investigation of environmental influences on development through socioeconomic status. *Developmental psychobiology*. 61(2), 159-178.
15. Cuartas J*, McCoy D, Rey-Guerra C, Britto P, Beatriz E*, **Salhi C.** (2019). Early Childhood Exposure to Non-Violent Discipline and Physical and Psychological Aggression in Low- and Middle-Income Countries: National, Regional, and Global Prevalence Estimates. *Child Abuse & Neglect*. 92, 93-105.
16. Beatriz ED*, Molnar BE, Griffith, JL, **Salhi C.** (2018). Urban-rural disparity and urban population growth: A multilevel analysis of under-5 mortality in 30 sub-Saharan African countries. *Health & Place*, 52, 196-204.
17. Azrael D, Cohen J*, **Salhi C**, Miller M. (2018) Firearm storage in gun owning households with children: Results of a 2015 National Survey. *J Urban Health*. 95(3): 295-304.
18. McCoy DC, **Salhi C**, Yoshikawa H, Black M, Britto P, Fink G. (2018). Home-and center-based learning opportunities for preschoolers in low-and middle-income countries. *Children and Youth Services Review*, 88, 44-56.
19. Beatriz ED*, **Salhi C**, Griffith JL, Molnar BE. (2018). Urbanicity matters in self-reported child maltreatment prevalence: findings from a nationally representative study. *Child abuse & neglect*, 79, 371-383.
20. Tallon LA*, Manjourides J, Pun VC*, **Salhi C**, Suh H. (2017). Cognitive impacts of ambient air pollution in the National Social Health and Aging Project (NSHAP) cohort. *Environment International*.
21. Puffer ES, Annan J, Sim AL*, **Salhi C**, Betancourt TS. (2017). The impact of a family skills training intervention among Burmese migrant families in Thailand: A randomized controlled trial. *PLOS ONE*, 12(3), e0172611.

22. Jeong J*, McCoy DC, Yousafzai AK, **Salhi C**, Fink G. (2016). Paternal stimulation and early child development in low-and middle-income countries. *Pediatrics*, e20161357.
23. Salhi B*, **Salhi C**, Stettner E, Shayne P. (2016). The Effects of Gender on the Evaluation of Faculty in Emergency Medicine. *Academic Emergency Medicine*, 22, S365.
24. Annan J, Sim A*, Puffer ES, **Salhi C**, Betancourt TS. (2016). Improving Mental Health Outcomes of Burmese Migrant and Displaced Children in Thailand: a Community-Based Randomized Controlled Trial of a Parenting and Family Skills Intervention. *Prevention Science*, 1-11.
25. McBain RK, **Salhi C**, Hann K., Salomon JA, Kim JJ, Betancourt TS. (2015). Costs and cost-effectiveness of a mental health intervention for war-affected young persons: decision analysis based on a randomized controlled trial. *Health policy and planning*.
26. McBain RK, **Salhi C**, Hann K, Kellie J, Kamara A, Salomon JA, Betancourt TS. (2015). Improving outcomes for caregivers through treatment of young people affected by war: a randomized controlled trial in Sierra Leone. *Bulletin of the World Health Organization*, 93(12), 834.
27. Ramanadhan S, **Salhi C**, Achille E, Baril N, D'Entremont K, Grullon M, et al. (2012) Addressing Cancer Disparities via Community Network Mobilization and Intersectoral Partnerships: A Social Network Analysis. *PLOS ONE*. 7(2), e32130.
28. Betancourt TS, **Salhi C**, Buka S, Leaning J, Dunn G, Earls F. (2012) Connectedness, Social Support and Internalizing Emotional and Behavioral Problems in Adolescents Displaced by the Chechen Conflict. *Disasters*, 36(4), 635-655.
29. McBain R, **Salhi C**, Morris JE, Salomon JA, Betancourt TS. (2012) Burden of disease and mental health systems capacity: A WHO Atlas study of 117 low- and middle-income countries. *British Journal of Psychiatry*. 201(6), 444-450.
30. Smith VC, SteelFisher GK, **Salhi C**, Shen LY. (2012) Coping with the NICU experience: Parent views on strategies and staff support. *Journal of Perinatal and Neonatal Nursing*. 26(4), 343-352.
31. Fan VY, **Salhi C**, Lin SC. A new law for allocation of donor organs in Israel; Correspondence. *The Lancet*, Volume 376, Issue 9737, July 24, 2010-July 30, 2010, pp: 231

Peer-reviewed Publications Submitted/Under Review (*student/post-doc mentee co-author)

32. **Salhi C**, Azrael D, Miller MJ. (UNDER REVIEW). Parenting behaviors, Adolescent Mental Health and Adolescent Household Firearm Access: A Nationally Representative Survey.
33. **Salhi C**, Azrael D, Miller MJ. (UNDER REVIEW). Gender and firearm ownership gaps in reporting of safe firearm storage: A Nationally Representative Survey.
34. **Salhi C**, Sasmaz A*, Zalloua P, Cammett M. (UNDER REVIEW). Syrian Refugees' Chief Complaints in Primary Care Settings in Lebanon: A Nationally Representative Study.
35. Eyllon M*, **Salhi C**, Arford T*, Morris G*, Lincoln AK. (UNDER REVIEW). "School became messin' with my mental health": Marginalization in school among adults with mental illness.
36. Eyllon M*, **Salhi C**, Griffith J, Lincoln AL. (UNDER REVIEW). The cumulative influence of perceived discrimination on depressive symptoms from Adolescence into young adulthood. **Salhi C.**, Houston A., Ellis H., Issa O., Lincoln A. (IN PREPARATION). The Association of Experiences of Violence with Mental Health, Physical Health and Healthcare Utilization Among Somali Refugees in North America.
37. Houston AR*, Lincoln AL, Osob I, Ellis H, **Salhi C**. (IN PREPARATION). Police Discrimination and Social Marginalization Among Somali Refugees in North America.

38. **Salhi C**, Berrigan J*, Azrael D, Beatriz E*, Houston A*, Barber C, Runyan C, Miller MJ. (IN PREPARATION). Firearm-owning Caregivers' experience with Lethal Means Counseling: A Qualitative Interview Study.

Non-peer reviewed publications

1. Sim A, Annan J, Puffer E, **Salhi C**, Betancourt T. (2014). "Building Happy Families: Impact evaluation of a parenting and family skills intervention for migrant and displaced Burmese families in Thailand." *International Rescue Committee*.
2. Kanter RM, **Salhi C**, Atkinson A, and Sesia A. (2009) "Dr. Benjamin Hooks and Children's Health Forum." *Harvard Business School Case 309-111*.

GRANTS

External Funding (Awarded)

The National Collaborative on Gun Violence Research. Determinants of How Firearms Are Stored in Households with Children: Implications for Interventions to Reduce Firearm Mortality. (\$481,261)

PI: Matthew Miller.

Co-I: Carmel Salhi; 12% FTE (July 1, 2019 - June 30, 2021)

NIMHD R21. Exploring Pathways Among Discrimination and Health Among Somali Young Adults. (\$260,588)

Co-PI: Alisa Lincoln, Heidi Ellis

Co-I: Carmel Salhi; 13% FTE (September 2017-August 2019)

American Foundation for Suicide Prevention: An ED-based Randomized Clinical Trial of Lethal Means Counseling for Parents of At-Risk Youth. (\$1,478,000)

PI: Matthew Miller

Co-I: Carmel Salhi; 28% FTE (October 2016-December 2019)

Harvard Weatherhead Center Incubation Grant: Community Participation and the Performance of Primary Health Care Providers in Morocco. \$30,000. Project Costs Only.

PI's: Carmel Salhi, Melani Cammett, Ellen Lust. (January 1, 2016-December 31, 2016.)

NIMH R01: Role of Experience in Development of Cognitive Control and Frontal Cortex

PI's: David Badre, Dima Amso

Sub-contract PI: Carmel Salhi; 17% FTE (September 2015-August 2016)

Internal Funding (Awarded)

Institute on Health Equity and Social Justice Research Pilot Grant. \$7,500.

PI: Carmel Salhi. (June 2018-May 2020)

Northeastern University Humanities Center Faculty in Residence Fellowship

Faculty fellow: Carmel Salhi; 17% FTE (September 2017-May 2018)

Harvard Catalyst Pilot Grant: Iraqi Refugee Family Study. \$25,000. Project Costs.

PI: Carmel Salhi, September 2010 - May 2011

HONORS AND DISTINCTIONS

Faculty Scholar

Institute for Health Equity and Social Justice Research, Northeastern University, September 2018-May 2020

Humanities Center Faculty in Residence

Northeastern University, September 2017-April 2018

Global Health Department Award

Global Health and Population, Harvard School of Public Health, September 2010-May 2011

Julius B. Richmond Fellowship

Center on the Developing Child, Harvard University, September 2009 - June 2010

Taplin Fellowship

Harvard School of Public Health, September 2008 - July 2010

PRESENTATIONS (*student/mentee first author or presenter)

Arielle Scoglio*, **Carmel Salhi. (Oral Presentation)**. A Systematic Review of Violence and Resettled Refugee's Mental Health. American Public Health Association Annual Conference. October 24, 2020.

Magdalena Pankowska*, **Carmel Salhi**, Aderonke Ilegbusi*, Michael Williams*, Danielle F. Haley. (Oral Presentation) Availability of HIV and Hepatitis C testing at drug and alcohol treatment facilities offering medications for opioid use disorder. American Public Health Association Annual Meeting. October 24, 2020.

Carmel Salhi, Deb Azrael, Matthew J. Miller. (Oral Presentation) Parent and child report of adolescent access to loaded firearms: Results from a nationally representative survey. Firearm Safety Among Children Annual Symposium. FACTS Consortium. Virtual Conference. September 23, 2020.

Carmel Salhi. (Invited Oral Presentation). Using Mixed Methods and Multiple Informants in Research on Adolescent Mental Health. RAND. April 2020. Boston, MA. CANCELLED DUE TO COVID-19

Carmel Salhi. (Invited Oral Presentation). Medication and Firearm Safety Counseling in Pediatric Emergency Departments: Using Mixed Methods Across Multiple Informants. Boston College School of Social Work. April 2020. Boston, MA. CANCELLED DUE TO COVID-19

Carmel Salhi. (Oral Presentation). Parent and Adolescent Report of Adolescent Household Firearm Access: A Nationally Representative Survey. Northeastern University Gun Violence Prevention Conference. April 2020. Boston, MA. CANCELLED DUE TO COVID-19

Carmel Salhi, Deborah Azrael, Elizabeth Beatriz, Catherine Barber, Carol Runyan, Marian Betz, Sara Brandspigel, Matthew Miller, (Oral Presentation). Medication and Firearm Safety Counseling in Pediatric Emergency Departments: A Controlled Trial. SRCD Biennial Meeting. March 2020. San Diego, CA. CANCELLED DUE TO COVID-19

Carmel Salhi, Deborah Azrael, Matthew Miller. (Oral Presentation). Parent and Adolescent Report of Adolescent Household Firearm Access: A Nationally Representative Survey, SRCD Biennial Meeting. March 2020. San Diego, CA. CANCELLED DUE TO COVID-19

Carmel Salhi, Matthew Miller. (Invited Plenary Session). An ED-based Approach to Reducing Youth Suicide: Rationale for and Preliminary Findings from a Multi-site Trial. Emory School of Medicine Grand Rounds. December 2019. Atlanta, Georgia.

Jorge Cuartas Ricaurte*, Dana McCoy, Maria Rey Guerra, Pia Britto, Elizabeth Beatriz, **Carmel Salhi.** (Oral Presentation) Early Childhood Exposure to Non-Violent Discipline and Physical and Psychological Aggression in Low- and Middle-Income Countries, SRCD Biennial Meeting. March 2019. Baltimore, MD.

Carmel Salhi, Lauren Hudak, Matthew Miller, Deborah Azrael, Bisan Salhi. (Oral Presentation). "Reliability of Suicide Assessments between Emergency Department Nurses." Society of Academic Emergency Medicine Annual Meeting. May 2019. Las Vegas, NV.

Michael Cole, Rama Salhi, **Carmel Salhi**, Joel Purkiss, Hani Stoklosa, Daphne Morri. (Workshop). "Questions about Questions? Designing Surveys for Research and Education That Reviewers Won't Ridicule." Society of Academic Emergency Medicine Annual Meeting. May 2019. Las Vegas, NV.

Jorge Cuartas Ricaurte*, Dana McCoy, Maria Rey Guerra, Pia Britto, Elizabeth Beatriz, **Carmel Salhi.** (Panel Presentation) "Early Childhood Exposure to Non-Violent Discipline and Physical and Psychological Aggression in Low- and Middle-Income Countries." *Society for Research on Child Development Biennial Meeting*. March 2019. Baltimore, MD.

Margaret Sheridan, Feng Shi*, Adam Miller, **Carmel Salhi**, Katie McLaughlin. (Panel Presentation) "Using network structure to better understand associations between adversities and child development outcomes." *Society for Research on Child Development Biennial Meeting*. March 2019. Baltimore, MD.

Carmel Salhi. (Panel Presentation) "Parenting practices and differential developmental delay across 17 countries." *DEVSEC Society for Research on Child Development Special Topic Meeting*. Phoenix, AZ. October 2018.

Corey Covell*, **Carmel Salhi**. (Poster) Analysis of Employment, Median Income, and Minimum Wage as Predictors of Academic Achievement. *RISE: 2018, Northeastern University*. Boston, MA. April, 2018.

Elizabeth Beatriz*, Beth Molnar, John Griffith, **Carmel Salhi**. (Poster) "Urban-rural disparity in the context of urban population growth: A multilevel analysis of under-five mortality in 30 sub-Saharan African Countries". *American Public Health Association Annual Meeting*. Atlanta, GA. November 2017.

Elizabeth Beatriz*, **Carmel Salhi**, John Griffith, Beth Molnar. (Poster) "Urban-rural disparities in childhood experiences of maltreatment: Findings from a nationally representative study". *American Public Health Association Annual Meeting*. Atlanta, GA. November 2017.

Elizabeth Beatriz*, Beth Molnar, John Griffith, **Carmel Salhi**. (Oral Presentation) Urban-Rural disparity in the context of urban population growth: A multilevel analysis of under-five mortality in 30 sub-Saharan African countries. *14th International Conference on Urban Health*. September 2017.

Carmel Salhi. (Panel Presentation) Ecological approaches to intervention development for vulnerable and displaced populations in low resource/ high conflict settings across the globe. *Society for Community Research and Action Biennial Conference*. June 2017.

Carmel Salhi, David Badre, Dima Amso. (Panel Presentation) The Unique Role of Cognitive Enrichment in the Development of Rule-Guided Behavior. *Society for Research in Child Development Biennial Meeting*, April 8, 2017.

Bisan Salhi*, **Carmel Salhi**, Edward Stettner, Philip Shayne. (Oral Presentation) The Effects of Gender on the Evaluation of Faculty in Emergency Medicine. *Society for Academic Emergency Medicine*. May 12, 2015.

Carmel Salhi, Christopher Blattman, Julian Jamison, Margaret Sheridan. (Panel Presentation) Adversity and Cognitive Functioning Among Marginalized Youth: The Effects of Acute and Early Adversity in Liberian Males. *Society for Research in Child Development 2015 Biennial Meeting*. March 20, 2015

Carmel Salhi. (Oral Presentation) Consequences of War and Comorbidity among Refugees. *American Anthropological Association Annual Conference*, December 2, 2014.

Carmel Salhi. (Oral Presentation) Iraqi Refugee Families: Linking Challenges in Employment and Mental Health. *Worcester Legislators and Researchers Breakfast*. December 6, 2013.

Carmel Salhi. (Poster) Sources of Re-traumatization and Resilience among Iraqi Refugees. *Global Health and Population@50 Symposium*. April 25, 2013.

Carmel Salhi. (Poster) Mental health of resettled Iraqi youth: Implications of shifting family dynamics. *Community Engagement and Research Symposium. University of Massachusetts Medical School*. November 30, 2012.

Carmel Salhi, Pratima Patil, et al. (*joint first authorship*) (Oral Presentation) Assessing a novel mobile mammography intervention in a medically underserved community: A community-based participatory approach. *American Public Health Association 138th annual meeting*. November 8th, 2010.

Carmel Salhi, Pratima Patil. (Poster) India and AIDS Orphans: The Question of Orphanages and Community-Based Care. *Harvard University Center for AIDS Research Conference*. June 24, 2009.

TEACHING

Introduction to Global Health (PHTH 5230; Undergraduate and Graduate; New preparation). Spring 2021.

Social Epidemiology (PHTH 5224; Graduate; New preparation). Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020.

Global Perspectives on Discrimination & Health (PHTH 4120; Undergraduate; New preparation). Spring 2017, Fall 2017, Fall 2020.

Race, Ethnicity and Health (PHTH 5120; Undergraduate; New preparation). Spring 2016.

Field Research Methods in Humanitarian Crisis (Lecturer; Graduate; New preparation). Harvard School of Public Health. Spring 2015.

Applied Qualitative Methods for Global Health Research (Head Teaching Assistant; Graduate). Harvard School of Public Health. Spring semester, 2009 - 2012.

ADVISING

Doctoral Adviser: Lindsay Tallon (Graduated May 2017); Elizabeth Beatriz (Graduated December 2017); Mara Eyllon (Graduated August 2018); Renee Wurth (Dissertation Proposal Committee, March 2018); Megan Zelinsky (AY 2017-18); Sonia Alves (2016 to 2021)

Masters' Adviser: Donna Appiah; Magdalena Pankowska; Hayley Geiselman; Christine Luong; Rebecca Shanks; Hao Trieu; Elisa Tristan-Cheever; D'Janapha Fortune; Leslie Fowle; Natasha Martinez; Jennifer Pamphile; Candice Quarella; Marina Atlas; Meredith Pineau; Fadi Youkhana

Undergraduate Capstone Adviser: Corey Covell (Spring, 2018)

SERVICE

Departmental Service

PhD Committee, Admissions, AY 2018-19

PhD Committee, Lead on Epidemiology Comprehensive Exam, AY 2018-19

Global Health Minor development, Spring 2017

MPH Graduation Reception, May 2017

Health Sciences Senior Luncheon, May 2017

Faculty Search Committee, AY 2016-17 (Member)

PhD Committee, AY 2016-17 (Member)

Health Sciences PhD Admissions & Recruitment Committee, AY 2015-16 (Member), AY 2016-17 (Member)

Health Sciences Welcome Day, April 2015.

College and University Service

Commencement, Spring 2018.

Tier 1 Grant Reviewer, Spring 2018.

Phonathon, Fall 2015, Fall 2016, Fall 2017.

Health Sciences Day, November 2015.

Service to Profession

Reviewer for *Pediatrics, Social Science & Medicine, Epidemiology*

Pro bono methodological consultant for International Rescue Committee, UNICEF, and HOME Project