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Revised December 2024

## CURRICULUM VITAE

**Saad B. Omer**

Website: [www.saadomer.org](http://www.saadomer.org)

### PROFESSIONAL EXPERIENCE

UT Southwestern Medical Center, Dallas, Texas

**Dean**, Peter O'Donnell Jr. School of Public Health, 06/01/2023-Present

**Professor**, Peter O'Donnell Jr. School of Public Health, 06/01/2023-Present

Yale University, New Haven, Connecticut

**Director**, Yale Institute for Global Health, 07/01/2019-05/31/2023

**Associate Dean (Global Health Research)**, Yale School of Medicine, 07/01/2019-05/31/2023

**Professor of Medicine (Infectious Diseases)**, Yale School of Medicine, 07/01/2019-05/31/2023

**Harvey & Kate Cushing Professor of Epidemiology of Microbial Diseases**, Yale School of Public Health, 01/01/2022-05/31/2023

**Susan Dwight Bliss Professor of Epidemiology of Microbial Diseases**, Yale School of Public Health, 07/01/2019-05/31/2023

**Adjunct Professor**, Yale School of Nursing, 07/01/2019-05/31/2023

**Adjunct Professor (Infectious Diseases)**, Yale School of Medicine, 07/01/2019-06/30/2024

**Fellow**, Berkeley College, Yale University, 2022

Emory University Schools of Public Health & Medicine, Atlanta, Georgia

**Professor - Adjunct**, 07/01/2019-Present

**William H. Foege Endowed Chair in Global Health**, 5/1/2016-06/30/2019

**Professor** (tenured), 11/13/2015-06/30/2019

**Associate Professor** (tenured), 02/08/2013- 11/12/2015

**Assistant Professor** (tenure track), 08/01/2008 - 02/07/2013

Hubert Department of Global Health

Department of Epidemiology

Department of Pediatrics

Emory Vaccine Center

Global Alliance for Vaccines and Immunization (GAVI), Geneva, Switzerland

**Expert Advisor, Vaccine Demand Generation** (Secondee/Consultant), 06/01/2016-02/28/2017

Centers for Disease Control and Prevention, Atlanta, Georgia

**Medical Officer** (IPA-Assignment), 01/21/2015 - 09/30/2018

Kaiser Permanente Center for Health Research, Atlanta, Georgia

**Affiliate Investigator**, 10/01/2010 - 12/08/2014

Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland

**Professor -Adjunct**, 07/01/2016 - Present

**Associate Professor -Adjunct**, 2013 - 06/30/2016

**Assistant Professor -Adjunct**, 08/01/2008 - 2013

**Associate Director - Institute for Vaccine Safety**, 7/24/2003 - 07/31/2008

**Assistant Scientist (faculty position)**, 07/1/2005 - 07/31/2008

**Research Associate (faculty position)**, 12/1/2000 - 06/30/2005

Global Disease Epidemiology and Control Program - Department of International Health

Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland

Institute for Educational Development, The Aga Khan University, Karachi, Pakistan

**Project Coordinator**, 1998 - 1999.

## **EDUCATION**

**Doctor of Philosophy**, 2003 - 2007

Global Disease Epidemiology and Control Program - Department of International Health

Johns Hopkins University, Baltimore, Maryland

**Master of Public Health**, 2002 - 2003

Johns Hopkins University, Baltimore, Maryland

**Bachelor of Medicine, Bachelor of Surgery** 1993 - 1998

The Aga Khan University Medical College, Karachi, Pakistan

## **PROFESSIONAL DEVELOPMENT & LEADERSHIP TRAINING**

Yale Global Executive Leadership Program, 2022

Yale School of Management, New Haven, Connecticut

**PEER REVIEWED PUBLICATIONS (Reverse Chronological)**

Student/post-doctoral mentees are indicated by an asterisk

1. Kiti MC, Sacoor C, Aguolu OG, Zelaya A, Chen H, Kim SS, Cavele N, Jamisse E, Tchavana C, Jose A, Macicame I, Joaquim O, Ahmed N, Liu CY, Yildirim I, Nelson K, Jenness SM, Maldonado H, Kazi M, Srinivasan R, Mohan VR, Melegaro A, Malik F, Bardaji A, **Omer SB**, Lopman B. Social Contact Patterns in Rural and Urban Settings, Mozambique, 2021-2022. *Emerg Infect Dis.* 2025 Jan;31(1):94-103. doi: 10.3201/eid3101.240875. PMID: 39714303.
2. Winters M, Christie S, Melchinger H, Arias N, Lirman L, Thomson A, **Omer SB**. Moral foundations messaging to improve vaccine attitudes: An online randomized experiment from Argentina. *PLOS Glob Public Health.* 2024 Nov 15;4(11):e0003276. doi: 10.1371/journal.pgph.0003276. PMID: 39546472; PMCID: PMC11567638.
3. Pischel L, Martini BA, Yu N, Cacesse D, Tracy M, Kharbanda K, Ahmed N, Patel KM, Grimshaw AA, Malik AA, Goshua G, **Omer SB**. Vaccine effectiveness of 3rd generation mpox vaccines against mpox and disease severity: A systematic review and meta-analysis. *Vaccine.* 2024 Nov 14;42(25):126053. doi: 10.1016/j.vaccine.2024.06.021. Epub 2024 Jun 21. PMID: 38906763.
4. Melchinger H, Winters M, Christie S, Arias N, Lirman L, Abeyesekera S, Thomson A, **Omer SB**. Determinants of undervaccination of routine childhood immunization in Argentina: A cross-sectional study. *Vaccine.* 2024 Oct 3;42(23):126235. doi: 10.1016/j.vaccine.2024.126235. Epub 2024 Aug 24. PMID: 39182313.
5. Winters M, Sochoń-Latuszek A, Nurzhynska A, Yoruk K, Kukuła K, Bahruddinov M, Kusek A, Kleszczewska D, Dzielska A, Maciejewski T, Mazur J, Melchinger H, Kinsman J, Kramarz P, Christie S, **Omer SB**. "Vaccinating your child during an emergency is more important than ever": a randomized controlled trial on message framing among Ukrainian refugees in Poland, 2023. *Euro Surveill.* 2024 Sep;29(39). doi: 10.2807/1560-7917.ES.2024.29.39.2400159. PMID: 39328159
6. Campo JJ, Seppo AE, Randall AZ, Pablo J, Hung C, Teng A, Shandling AD, Truong J, Oberai A, Miller J, Iqbal NT, Peñataro Yori P, Kukkonen AK, Kuitunen M, Guterman LB, Morris SK, Pell LG, Al Mahmud A, Ramakrishan G, Heinz E, Kirkpatrick BD, Faruque AS, Haque R, Looney RJ, Kosek MN, Savilahti E, **Omer SB**, Roth DE, Petri WA Jr, Järvinen KM. Human milk antibodies to global pathogens reveal geographic and interindividual variations in IgA and IgG. *J Clin Invest.* 2024 Jun 11;134(15):e168789. doi: 10.1172/JCI168789. PMID: 39087469; PMCID: PMC11290967.

7. Aguolu OG, Kiti MC, Nelson K, Liu CY, Sundaram M, Gramacho S, Jenness S, Melegaro A, Sacoor C, Bardaji A, Macicame I, Jose A, Cavele N, Amosse F, Uamba M, Jamisse E, Tchavana C, Giovanni Maldonado Briones H, Jarquín C, Ajsivinac M, Pischel L, Ahmed N, Mohan VR, Srinivasan R, Samuel P, John G, Ellington K, Augusto Joaquim O, Zelaya A, Kim S, Chen H, Kazi M, Malik F, Yildirim I, Lopman B, **Omer SB**. Comprehensive profiling of social mixing patterns in resource-poor countries: A mixed methods research protocol. *PLoS One*. 2024 Jun 24;19(6):e0301638. doi: 10.1371/journal.pone.0301638. PMID: 38913670; PMCID: PMC11195963.
8. Pischel L, Martini BA, Yu N, Cacesse D, Tracy M, Kharbanda K, Ahmed N, Patel KM, Grimshaw AA, Malik AA, Goshua G, **Omer SB**. Vaccine effectiveness of 3rd generation mpox vaccines against mpox and disease severity: A systematic review and meta-analysis. *Vaccine*. 2024 Jun 20;S0264-410X(24)00694-7. doi: 10.1016/j.vaccine.2024.06.021. Epub ahead of print. PMID: 38906763.
9. Davies HG, Thorley EV, Al-Bahadili R, Sutton N, Burt J, Hookham L, Karampatsas K, Lambach P, Muñoz F, Cutland CL, **Omer S**, Le Doare K. Defining and reporting adverse events of special interest in comparative maternal vaccine studies: a systematic review. *Vaccine X*. 2024 Feb 23;18:100464. doi: 10.1016/j.jvacx.2024.100464. PMID: 38495929; PMCID: PMC10943481.
10. Ansari N, Kabir F, Khan W, Khalid F, Malik AA, Warren JL, Mehmood U, Kazi AM, Yildirim I, Tanner W, Kalimuddin H, Kanwar S, Aziz F, Memon A, Alam MM, Ikram A, Meschke JS, Jehan F, Omer SB, Nisar MI. Environmental surveillance for COVID-19 using SARS-CoV-2 RNA concentration in wastewater - a study in District East, Karachi, Pakistan. *Lancet Reg Health Southeast Asia*. 2023 Oct 23;20:100299. doi: 10.1016/j.lansea.2023.100299. PMID: 38234701; PMCID: PMC10794106.
11. Ahsan N, Malik FA, Mughis W, Jabeen R, Mehboob S, Allana R, Quratulain S, Jamal S, Paganelli CR, Goco N, Parlberg L, Omer SB, Kazi AM. Postmortem minimally invasive tissue sampling in communities: exploring perceptions of families, funeral workers, religious and community leaders and healthcare providers from Pakistan. *BMC Health Serv Res*. 2023 Dec 13;23(1):1402. doi: 10.1186/s12913-023-10438-2. PMID: 38093318; PMCID: PMC10720140.
12. Brady A, Cabello-Yeves E, Gallego Del Sol F, Chmielowska C, Mancheño-Bonillo J, Zamora-Caballero S, Omer SB, Torres-Puente M, Eldar A, Quiles-Puchalt N, Marina A, Penadés JR. Characterization of a unique repression system present in arbitrium phages of the SPbeta family. *Cell Host Microbe*. 2023 Dec 13;31(12):2023-2037.e8. doi: 10.1016/j.chom.2023.11.003. Epub 2023 Nov 29. PMID: 38035880.
13. Warren JL, Sundaram M, Pitzer VE, **Omer SB**, Weinberger DM. Incorporating Efficacy Data from Initial Trials into Subsequent Evaluations: Application to Vaccines Against Respiratory Syncytial Virus. *Epidemiology*. 2024 Mar 1;35(2):130-136. doi: 10.1097/EDE.0000000000001690. Epub 2023 Nov 14. PMID: 37963353; PMCID: PMC10842163.
14. Kiti MC, Aguolu OG, Zelaya A, Chen HY, Ahmed N, Batross J, Liu CY, Nelson KN, Jenness SM, Melegaro A, Ahmed F, Malik F, Omer SB, Lopman BA. Changing social contact patterns

- among US workers during the COVID-19 pandemic: April 2020 to December 2021. *Epidemics*. 2023 Dec;45:100727. doi: 10.1016/j.epidem.2023.100727. Epub 2023 Nov 7. PMID: 37948925; PMCID: PMC10730080.
15. Zissette S, Kiti MC, Bennett BW, Liu CY, Nelson KN, Zelaya A, Kellogg JT, Johnson Ii TM, Clayton P, Fridkin SK, **Omer SB**, Lopman BA, Adams C. Social contact patterns among employees in U.S. long-term care facilities during the COVID-19 pandemic, December 2020 to June 2021. *BMC Res Notes*. 2023 Oct 26;16(1):294. doi: 10.1186/s13104-023-06563-0. PMID: 37884967; PMCID: PMC10604856.
  16. O'Marr JM, Raoul A, James EK, Winters M, Amin AB, Bednarczyk RA, Graham J, Huntsinger JR, **Omer SB**. Moral foundations and HPV vaccine acceptance in the United States: State, parental, and individual factors. *Soc Sci Med*. 2023 Nov;336:116257. doi: 10.1016/j.socscimed.2023.116257. Epub 2023 Sep 22. PMID: 37801941.
  17. Delamater PL, Bутtenheim AM, Salmon DA, Schwartz JL, **Omer SB**. Kindergarten Vaccination Status in California After Changes to Medical Exemption Policy. *JAMA*. 2023 Oct 24;330(16):1585-1587. doi: 10.1001/jama.2023.16995. PMID: 37782512; PMCID: PMC10546290.
  18. Winters M, Christie S, Lepage C, Malik AA, Bokemper S, Abeyesekera S, Boye B, Moini M, Jamil Z, Tariq T, Beresh T, Kazymyrova G, Palamar L, Paintsil E, Faller A, Seusan A, Bonnevie E, Smyser J, Khan K, Gulaid M, Francis S, Warren JL, Thomson A, **Omer SB**. Persuasive COVID-19 vaccination campaigns on Facebook and nationwide vaccination coverage in Ukraine, India, and Pakistan. *PLOS Glob Public Health*. 2023 Sep 27;3(9):e0002357. doi: 10.1371/journal.pgph.0002357. PMID: 37756298; PMCID: PMC10529538.
  19. Klein J, Wood J, Jaycox JR, Dhodapkar RM, Lu P, Gehlhausen JR, Tabachnikova A, Greene K, Tabacof L, Malik AA, Silva Monteiro V, Silva J, Kamath K, Zhang M, Dhal A, Ott IM, Valle G, Peña-Hernández M, Mao T, Bhattacharjee B, Takahashi T, Lucas C, Song E, McCarthy D, Breyman E, Tosto-Mancuso J, Dai Y, Perotti E, Akduman K, Tzeng TJ, Xu L, Geraghty AC, Monje M, Yildirim I, Shon J, Medzhitov R, Lutchmansingh D, Possick JD, Kaminski N, **Omer SB**, Krumholz HM, Guan L, Dela Cruz CS, van Dijk D, Ring AM, Putrino D, Iwasaki A. Distinguishing features of long COVID identified through immune profiling. *Nature*. 2023 Nov;623(7985):139-148. doi: 10.1038/s41586-023-06651-y. Epub 2023 Sep 25. PMID: 37748514; PMCID: PMC1062009
  20. Malik AA, Ahmed N, Shafiq M, Elharake JA, James E, Nyhan K, Paintsil E, Melchinger HC, Team YBI, Malik FA, **Omer SB**. Behavioral interventions for vaccination uptake: A systematic review and meta-analysis. *Health Policy*. 2023 Nov;137:104894. doi: 10.1016/j.healthpol.2023.104894. Epub 2023 Sep 4. PMID: 37714082
  21. Butt AA, Yan P, Shaikh OS, Talisa VB, **Omer SB**, Mayr FB. Nirmatrelvir/ritonavir Use and Hospitalizations or Death in Previously Uninfected Non-hospitalized High-risk Population with COVID-19: A matched cohort study. *J Infect Dis*. 2023 Sep 15;jiad393. doi: 10.1093/infdis/jiad393. Epub ahead of print. PMID: 37711076.

22. Lind ML, Dorion M, Houde AJ, Lansing M, Lapidus S, Thomas R, Yildirim I, **Omer SB**, Schulz WL, Andrews JR, Hitchings MDT, Kennedy BS, Richeson RP, Cummings DAT, Ko AI. Evidence of leaky protection following COVID-19 vaccination and SARS-CoV-2 infection in an incarcerated population. *Nat Commun.* 2023 Aug 19;14(1):5055. doi: 10.1038/s41467-023-40750-8. PMID: 37598213; PMCID: PMC10439918.
23. Chiavenna C, Leone LP, Melegaro A, Rotesi T, Bokemper SE, Paintsil EE, Malik AA, Huber GA, **Omer SB**, Cucciniello M, Pin P. Personal risk or societal benefit? Investigating adults' support for COVID-19 childhood vaccination. *Vaccine.* 2023 Jun 7;41(25):3683-3687. doi: 10.1016/j.vaccine.2023.05.017. Epub 2023 May 9. PMID: 37198020; PMCID: PMC10167374.
24. Barmada A, Klein J, Ramaswamy A, Brodsky NN, Jaycox JR, Sheikha H, Jones KM, Habet V, Campbell M, Sumida TS, Kontorovich A, Bogunovic D, Oliveira CR, Steele J, Hall EK, Pena-Hernandez M, Monteiro V, Lucas C, Ring AM, **Omer SB**, Iwasaki A, Yildirim I, Lucas CL. Cytokinopathy with aberrant cytotoxic lymphocytes and profibrotic myeloid response in SARS-CoV-2 mRNA vaccine-associated myocarditis. *Sci Immunol.* 2023 May 12;8(83):eadh3455. doi: 10.1126/sciimmunol.adh3455. Epub 2023 May 5. PMID: 37146127; PMCID: PMC10468758.
25. Ellingson MK, **Omer SB**, Sevdalis N, Thomson A. Validation of the Vaccination Trust Indicator (VTI) in a multi-country survey of adult vaccination attitudes. *PLOS Glob Public Health.* 2023 Apr 12;3(4):e0001820. doi: 10.1371/journal.pgph.0001820. PMID: 37043441; PMCID: PMC10096184.
26. Petrone ME, Lucas C, Menasche B, Breban MI, Yildirim I, Campbell M, **Omer SB**, Holmes EC, Ko AI, Grubaugh ND, Iwasaki A, Wilen CB, Vogels CBF, Fauver JR. Nonsystematic Reporting Biases of the SARS-CoV-2 Variant Mu Could Impact Our Understanding of the Epidemiological Dynamics of Emerging Variants. *Genome Biol Evol.* 2023 Apr 5;15(4):evad052. doi: 10.1093/gbe/evad052. PMID: 36974986; PMCID: PMC10113931.
27. Jaycox JR, Lucas C, Yildirim I, Dai Y, Wang EY, Monteiro V, Lord S, Carlin J, Kita M, Buckner JH, Ma S, Campbell M, Ko A, **Omer S**, Lucas CL, Speake C, Iwasaki A, Ring AM. SARS-CoV-2 mRNA vaccines decouple anti-viral immunity from humoral autoimmunity. *Nat Commun.* 2023 Mar 9;14(1):1299. doi: 10.1038/s41467-023-36686-8. PMID: 36894554; PMCID: PMC9996559.
28. Carpiano RM, Callaghan T, DiResta R, Brewer NT, Clinton C, Galvani AP, Lakshmanan R, Parmet WE, **Omer SB**, Bутtenheim AM, Benjamin RM, Caplan A, Elharake JA, Flowers LC, Maldonado YA, Mello MM, Opel DJ, Salmon DA, Schwartz JL, Sharfstein JM, Hotez PJ. Confronting the evolution and expansion of anti-vaccine activism in the USA in the COVID-19 era. *Lancet.* 2023 Mar 18;401(10380):967-970. doi: 10.1016/S0140-6736(23)00136-8. Epub 2023 Mar 2. PMID: 36871571; PMCID: PMC9981160.
29. Zerbo O, Ray GT, Fireman B, Layefsky E, Goddard K, Lewis E, Ross P, **Omer S**, Greenberg M, Klein NP. Maternal SARS-CoV-2 vaccination and infant protection against SARS-CoV-2 during the first six months of life. *Nat Commun.* 2023 Feb 28;14(1):894. doi: 10.1038/s41467-023-36547-4. PMID: 36854660; PMCID: PMC9974935.

30. Filardi BA, Monteiro VS, Schwartzmann PV, do Prado Martins V, Zucca LER, Baiocchi GC, Malik AA, Silva J, Hahn AM, Chen NFG, Pham K, Pérez-Then E, Miric M, Brache V, Cochon L, Larocca RA, Mendez RDR, Bardini Silveira D, Pinto AR, Croda J, Yildirim I, **Omer SB**, Ko AI, Vermund SH, Grubaugh ND, Iwasaki A, Lucas C; Yale SARS-CoV-2 Genomic Surveillance Initiative; Vogels CBF, Breban M, Koch TR, Chaguza C, Tikhonova I, Castaldi C, Mane S, De Kumar B, Ferguson D, Kerantzas N, Peaper D, Landry ML, Schulz W. Age-dependent impairment in antibody responses elicited by a homologous CoronaVac booster dose. *Sci Transl Med*. 2023 Feb 15;15(683):eade6023. doi: 10.1126/scitranslmed.ade6023. Epub 2023 Feb 15. PMID: 36791210.
31. Youssef NJ, Tfaily NK, Moumneh MBM, Boutros CF, Elharake JA, Malik AA, McFadden SM, Galal B, Yildirim I, Khoshnood K, **Omer SB**, Memish ZA, Dbaibo GS. COVID-19 Vaccine Acceptance and Hesitancy Among Health Care Workers in Lebanon. *J Epidemiol Glob Health*. 2023 Mar;13(1):55-66. doi: 10.1007/s44197-023-00086-4. Epub 2023 Feb 3. PMID: 36735184; PMCID: PMC9896451.
32. Nisar MI, Ansari N, Malik AA, Shahid S, Lalani KRA, Chandna MA, Younus AM, Hasan Z, Khan U, Khalid F, Mahesar M, Farrukh Qazi M, Yildirim I, Jehan F, **Omer SB**. Assessing the effectiveness of COVID-19 vaccines in Pakistan: A test-negative case-control study. *J Infect*. 2023 May;86(5):e144-e147. doi: 10.1016/j.jinf.2023.01.016. Epub 2023 Jan 25. PMID: 36708775; PMCID: PMC9876011.
33. Dudley MZ, Barnett EE, Paulenich A, **Omer SB**, Schuh H, Proveaux TM, Bottenheim AM, Klein NP, Delamater P, McFadden SM, Patel KM, Salmon DA. Characterization of parental intention to vaccinate elementary school aged children in the state of California. *Vaccine*. 2023 Jan 16;41(3):630-635. doi: 10.1016/j.vaccine.2022.12.030. Epub 2022 Dec 19. PMID: 36543683; PMCID: PMC9762501.
34. Jalloh MF, Zeebari Z, Nur SA, Prybylski D, Nur AA, Hakim AJ, Winters M, Steinhardt LC, Gatei W, **Omer SB**, Brewer NT, Nordenstedt H. Drivers of COVID-19 policy stringency in 175 countries and territories: COVID-19 cases and deaths, gross domestic products per capita, and health expenditures. *J Glob Health*. 2022 Dec 17;12:05049. doi: 10.7189/jogh.12.05049. PMID: 36527269; PMCID: PMC9758449.
35. Löwensteyn YN, Willemsen JE, Mazur NI, Scheltema NM, van Haastregt NCJ, Buuren AAAT, van Roessel I, Scheepmaker D, Nair H, van de Ven PM, Bont LJ; on behalf of **the RSV GOLD Study Group**. Nosocomial RSV-related In-hospital Mortality in Children <5 Years: A Global Case Series. *Pediatr Infect Dis J*. 2023 Jan 1;42(1):1-7. doi: 10.1097/INF.0000000000003747. Epub 2022 Nov 8. PMID: 36476518; PMCID: PMC9891274.
36. Winters M, Malik AA, **Omer SB**. Attitudes towards Monkeypox vaccination and predictors of vaccination intentions among the US general public. *PLoS One*. 2022 Dec 1;17(12):e0278622. doi: 10.1371/journal.pone.0278622. PMID: 36454991; PMCID: PMC9714903.

37. Dudley MZ, **Omer SB**, O'Leary ST, Limaye RJ, Ellingson MK, Spina CI, Brewer SE, Bednarczyk RA, Chamberlain AT, Malik F, Frew PM, Church-Balin C, Riley LE, Ault KA, Orenstein WA, Halsey NA, Salmon DA. MomsTalkShots, tailored educational app, improves vaccine attitudes: a randomized controlled trial. *BMC Public Health*. 2022 Nov 21;22(1):2134. doi: 10.1186/s12889-022-14498-7. PMID: 36411403; PMCID: PMC9676851.
38. Malik AA, Gandhi NR, Marcy O, Walters E, Tejiokem M, Chau GD, **Omer SB**, Lash TL, Becerra MC, Njuguna IN, LaCourse SM, Maleche-Obimbo E, Wamalwa D, John-Stewart GC, Cranmer LM. Development of a Clinical Prediction Score Including Monocyte-to-Lymphocyte Ratio to Inform Tuberculosis Treatment Among Children With HIV: A Multicountry Study. *Open Forum Infect Dis*. 2022 Oct 14;9(11):ofac548. doi: 10.1093/ofid/ofac548. PMID: 36381621; PMCID: PMC9645646.
39. Opel DJ, Brewer NT, Bутtenheim AM, Callaghan T, Carpiano RM, Clinton C, Elharake JA, Flowers LC, Galvani AP, Hotez PJ, Schwartz JL, Benjamin RM, Caplan A, DiResta R, Lakshmanan R, Maldonado YA, Mello MM, Parmet WE, Salmon DA, Sharfstein JM, **Omer SB**. The legacy of the COVID-19 pandemic for childhood vaccination in the USA. *Lancet*. 2022 Oct 26:S0140-6736(22)01693-2. doi: 10.1016/S0140-6736(22)01693-2. Online ahead of print. PMID: 36309017
40. Castro AD, Mayr FB, Talisa VB, Shaikh OS, **Omer SB**, Yende S, Butt AA. Variation in Clinical Treatment and Outcomes by Race Among US Veterans Hospitalized With COVID-19. *JAMA Netw Open*. 2022 Oct 3;5(10):e2238507. doi: 10.1001/jamanetworkopen.2022.38507. PMID: 36282499
41. Oddleifson DA, Kayani J, Shrivastava R, Tan J, Winters M, Forman H, **Omer SB**. Assessment of the COVID-19 vaccine market landscape in 2021 relative to challenges in low- and middle-income countries. *Hum Vaccin Immunother*. 2022 Oct 21:2124781. doi: 10.1080/21645515.2022.2124781. Online ahead of print. PMID: 36269944
42. Elharake JA \*, Shafiq M, Cobanoglu A, Malik AA, Klotz M, Humphries JE, Murray T, Patel KM \*, Wilkinson D, Yildirim I, Diaz R, Rojas R, Kuperwajs Cohen A, Lee A, **Omer SB**, Gilliam WS. Prevalence of Chronic Diseases, Depression, and Stress Among US Childcare Professionals During the COVID-19 Pandemic. *Prev Chronic Dis*. 2022 Sep 22;19:E61. doi: 10.5888/pcd19.220132. PMID: 36137183
43. Aguolu OG, Willebrand K, Elharake JA \*, Qureshi HM, Kiti MC, Liu CY, Restrepo Mesa A, Nelson K, Jenness S, Melegaro A, Ahmed F, Yildirim I, Malik FA, Lopman B, **Omer SB**. Factors influencing the decision to receive seasonal influenza vaccination among US corporate non-healthcare workers. *Hum Vaccin Immunother*. 2022 Sep 22:2122379. doi: 10.1080/21645515.2022.2122379. Online ahead of print. PMID: 36136345
44. Elharake JA, **Omer SB**, Schwartz JL. Country immunization policies for refugees across 20 low-middle income and 20 high-income countries. *Vaccine*. 2022 Sep 16:S0264-410X(22)01128-8. doi: 10.1016/j.vaccine.2022.09.032. Online ahead of print. PMID: 36123257



45. Aguolu OG, Malik AA, Ahmed N, **Omer SB**. Overcoming Vaccine Hesitancy for Future COVID-19 and HIV Vaccines: Lessons from Measles and HPV Vaccines. *Curr HIV/AIDS Rep*. 2022 Sep 17. doi: 10.1007/s11904-022-00622-0. Online ahead of print. PMID: 36114951
46. Mayr FB, Talisa VB, Shaikh OS, **Omer SB**, Butt AA, Yende S. Comparative COVID-19 Vaccine Effectiveness Over Time in Veterans. *Open Forum Infect Dis*. 2022 Jun 24;9(7):ofac311. doi: 10.1093/ofid/ofac311. eCollection 2022 Jul. PMID: 35880233
47. Faden R, Cravioto A, Hombach J, Kaslow DC, Kochar S, Nohynek H, Wilder-Smith A, Crane MA, **Omer SB**. Who to vaccinate first? A peek at decision-making in a pandemic. *Nature*. 2022 Jul;607(7918):235-238. doi: 10.1038/d41586-022-01899-2. PMID: 35821419
48. **Omer SB**, O'Leary ST, Bednarczyk RA, Ellingson MK, Spina CI, Dudley MZ, Chamberlain AT, Limaye RJ, Brewer SE, Frew PM, Malik FA, Orenstein W, Halsey N, Ault K, Salmon DA. Multi-tiered intervention to increase maternal immunization coverage: A randomized, controlled trial. *Vaccine*. 2022 Jul 8:S0264-410X(22)00824-6. doi: 10.1016/j.vaccine.2022.06.055. Online ahead of print. PMID: 35817646
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## BOOK AND MONOGRAPHS

Brunson EK, Bутtenheim A, **Omer SB**, Quinn SC (2021). *Strategies for Building Confidence in the Covid-19 Vaccines.* The National Academies Press.

Helene Gayle, William Foege, Lisa Brown, and Benjamin Kahn editors, **Committee on Equitable Allocation of Vaccine for the Novel Coronavirus**, Board on Health Sciences Policy, Board on Population Health and Public Health Practice, Health and Medicine Division (2020). *Framework for Equitable Allocation of Covid-19 Vaccine.* *National Academy of Medicine.*

**Omer SB** and Halabi SF (2016). *Evidence, Challenges, and Strategies for Assuring Vaccine*

Availability, Efficacy, and Safety. In S. Halabi, & L. Gostin, & J. Crowley (Eds.), *Global Management of Infectious Disease After Ebola* (pp. 223). New York, New York: Oxford.

**Omer SB** and Jamieson J (2017). Maternal Vaccines, In S. Plotkin, P. Offit, W. Orenstein, K. Edwards, In *Vaccines 7<sup>th</sup> edition*. Elsevier

**Omer SB**, Poland C, Chamberlain A (2018 - In press). Interpersonal Communication Approaches to Increase Adult Vaccine Acceptance. In *Vaccination*. Elsevier.

Dudley MZ, Salmon DA, Halsey NA, Orenstein WA, Limaye RJ, **Omer SB** (2018). *The Clinician's Vaccine Safety Resource Guide: Optimizing Prevention of Vaccine-Preventable Diseases Across the Lifespan*. Springer

## HONORS AND AWARDS

**National Academy of Medicine Member-** 2022. One of three academies that make up the National Academies of Sciences, Engineering, and Medicine (the National Academies) in the United States. According to NAM, its "membership reflects the height of professional achievement and commitment to service."

**Connecticut Academy of Science and Engineering (CASE) Member-** 2022. CASE members are elected based on recognition of their scientific and engineering distinction achieved through significant contributions in theory or applications.

**M.A. Privatum** - 2019: An honorary master's degree awarded by Yale University.

**Christiaan Eijkman Invited Lecture** - 2018: This invited lecture at University Medical Center Utrecht is named after the Dutch Nobel Prize winner who discovered Vitamin B1.

**William H. Foege Chair in Global Health** - 2016: This endowed chair was established in honor of Dr. William (Bill) Foege with a gift from the Bill and Melinda Gates Foundation. Dr. Foege is a former CDC Director and is credited for devising the global strategy that led to smallpox eradication.

**Millipub Club Award** - 2015 & 2017: Recognizes Emory faculty who have published one or more individual papers that have each garnered more than 1000 citations. Awarded for 5 papers.

**CMAJ Bruce Squires Award** - 2014. Awarded to the authors of the article "Neonatal outcomes after influenza immunization during pregnancy: a randomized controlled trial" (CMAJ 2012;184:645-53).

**Pediatric Infectious Diseases Society Young Investigator Award** - 2013: Presented by the Pediatric Infectious Diseases Society for independent and productive research that represents outstanding contributions in pediatric infectious diseases.

**Maurice R. Hilleman Early-stage Career Investigator Award** - 2009: Presented by the National Foundation for Infectious Diseases. The award recognizes individuals in the field of vaccinology based on a specific research contribution and their overall career trajectory.

**Infectious Disease Society of America Program Choice Award - 2009:** Presented by the Infectious Disease Society based on the recommendation of the IDSA program choice committee

**Global Health Institute, Faculty Distinction Fund Award - 2008:** Presented by Emory University's Global Health Institute

### **INVITED TALKS (SELECTED)**

- Rice University's Baker Institute for Public Policy Texas Vaccine Symposium – November 14, 2024. Title "Vaccine Acceptance and Access."
- Peter O'Donnell Jr. School of Public Health Grand Rounds Speaker – November 6, 2024. Title "Behavioral Insights Based Grantsmanship."
- Healthier Texas Summit Speaker – October 11, 2024. Title "Opportunities for Improvement Public Health – Conversation with the Deans of the Schools of Public Health."
- Vanderbilt University Medical Center, Peru Vaccinology Guest Speaker – October 1, 2024. Title "Increasing Vaccine Acceptance."
- Universidad Del Valle De Guatemala – September 4, 2024. Title "Consequentialist Research in a Pandemic"
- Southwestern Medical Foundation: Annual Meeting – May 16, 2024. Title "Setting up a new School of Public Health."
- Department of Pediatrics Clinical & Translational Research Seminar – May 15, 2024. Title "Behavioral Insights for Grant Writing: How to Craft a Compelling K-grant and Specific Aims."
- Western Michigan University Medical School Graduation Speaker – May 9, 2024
- Peter O'Donnell Jr. School of Public Health Guest Lecture for Theoretical Foundations of Health Promotion – February 28, 2024
- Texas Department of State and Health Services Grand Rounds – February 28, 2024. Title "A Consequentialist Approach to Public Health Education in Texas."
- Yale School of Public Health Vaccine Acceptance Guest Lecture – February 14, 2024.
- UT Southwestern Academy of Teachers – February 12, 2024. Title "Academic Programs and Consequentialist Approach to Public Health Education in Texas."
- Department of Internal Medicine Grand Rounds – February 2, 2024. Title "The Science of Pandemic Response: Lessons Learned from COVID-19."

- Department of Pediatrics Grand Rounds – January 17, 2024. Title “Ready or not, here I Come: Lessons from the Pandemic that Should Prepare Us for the Next One.”
- Department of Infectious Disease Grand Rounds – January 11, 2024. Title “Dispatches from a Consequentialist ID Research Journey.”
- Yale SPH EMD546 Vaccine acceptance and access to vaccines-Online Lecture – November 17, 2024.
- Mériex Foundation Vaccine Acceptance Meeting Series - October 31, 2023. Title “Social Media-Based Interventions to Increase Vaccine Uptake.”
- Department of Pediatrics Clinical & Translational Research Seminar – October 18, 2023. Title “Dispatches from a Consequentialist Public Health Journey”
- Strategic Advisory Group of Experts (SAGE) on Immunization – September 26, 2023. Title “Simplified Primary Vaccine Series for COVID-19.”
- The University of Texas at Dallas Pre-Med Gala – September 23, 2023. Title “Public Health as a Calling.”
- Peter O’Donnell Jr. School of Public Health Public Health Seminar – August 29, 2023. Title “Dispatches from a Consequentialist Public Health Journey.”
- Pan American Health Organization – August 25, 2023. Title: “Updates on Vaccine Acceptance Research.”
- American Public Health Association National Student Meeting - November 5, 2020. Title: “(Aspiring for) Vaccine Equity in an Unequal World.”
- 2022 Concordia Annual Summit – September 20<sup>th</sup>, 2022. Panel Member. Title: “Using Behavioral Insights at the FIFA World Cup Qatar 2022 and Mega Sports Events
- Bocconi University Seminar – September 9<sup>th</sup>, 2022. Title: “Vaccine Acceptance During Covid.”
- Global Immunization Division Technical Seminar – June 17<sup>th</sup>, 2022. Title: “Behavioral Insights for Vaccination.”
- National Academies of Sciences, Engineering, and Medicine: Increasing Uptake of Covid-19 Vaccination through Requirement and Incentive Programs – May 24<sup>th</sup>, 2022. Title: “Vaccine Requirement Programs.”
- World Vaccine Congress 2022 – April 18<sup>th</sup>, 2022. Title: “Updates on Safety Data for Maternal Flu Vaccination.”

- 2022 National Foundation for Infectious Diseases (NFID) Annual Conference on Vaccinology Research (ACVR) – April 11th, 2022. Panelist. “Pandemic Communication: Challenges, Successes, and Lessons Learned.”
- University of Ottawa International and Global Health Office Faculty of Medicine Symposium – April 7<sup>th</sup>, 2022. Title: “Vaccine Equity Toward a Healthier World.”
- Merck Vaccinology Course – March 30<sup>th</sup>, 2022. Title: “Monitoring Vaccine Safety.”
- 17th Asia Pacific Congress of Pediatrics (APCP) Workshop on Vaccine Hesitancy – March 10th, 2022. Title: “Drivers of Vaccination Behavior/Behavioral Science Behind Vaccine Acceptance.”
- Behavioral Science Webinar – Sabin – February 15<sup>th</sup>, 2022. Panelist.
- BX Arabia 2021 - WHO Health Session – November 9th, 2021. Title: “Global perspectives on behavioural insights and COVID and contributions from the WHO Technical Advisory Group.”
- Pediatric Overflow Planning Contingency Response Network – October 21, 2021. Title: “Vaccine mandates: practical and ethical considerations.”
- National Academy of Medicine Annual Meeting – October 18th, 2021. Panelist. “Disruption, construction and learning from COVID-19.”
- Emory DOM Grand Rounds - The Covid Pandemic in the Summer of 2021: Delta variant and vaccines – September 14th, 2021. Title: “Covid-19 Vaccines and Their Acceptance”
- United Nations General Assembly Auxillary Event – September 2nd, 2021. Title: “Using Social Media to Build Confidence in Vaccines.”
- Vaccine Confidence Subcommittee Meeting – August 3<sup>rd</sup>, 2021. Title: “Vaccine Mandates and Confidence.”
- International Health Economics Association (iHEA) 2021 Congress – July 12<sup>th</sup>, 2021. The Full Societal Benefits of Vaccination Discussion.
- The Association of Physicians of Pakistani Descent of North America 2021 Summer Convention Keynote Address – July 3rd, 2021. Title: “Answering Tough Questions in a Pandemic: Role of Consequentialist Research.”
- 17th Australian National Immunisation Conference, Keynote Speaker. – June 28<sup>th</sup>, 2021. Title: “COVID-19 Vaccine Roll Out: Lessons on Safety, Acceptance and Hesitancy.”
- Energy & Commerce Oversight Hearing COVID-19 Vaccine Confidence – May 26<sup>th</sup>, 2021. Oral Testimony.



- The European Society for Paediatric Infectious Diseases 2021 Opening Plenary – May 25th, 2021. Title: “Infodemics and how this influences our work as pediatric infectious diseases specialists.”
- Advanced Course of Vaccinology 2021 – May 12th, 2021. Title: “How do vaccines cause adverse events?”
- Johns Hopkins Berman Institute of Bioethics seminar – April 26<sup>th</sup>, 2021. Title: “Equitable allocation of the vaccine in an unfair pandemic.”
- Society for Healthcare Epidemiology of America Spring 2021 – April 15th, 2021. Title: “Where is Our Road Map? Top Drivers of Poor Vaccination Rates and Evidence-based Strategies to Improve Them.”
- Increasing Vaccine Demand and Uptake During the COVID-19 Vaccine Infodemic Webinar – March 30<sup>th</sup>, 2021. Title: “Building Resilience against the COVID-19 Infodemic.”
- Branford Forum – March 14th, 2021. Title: “The Promise of COVID-19 Vaccines”
- Conference on Retroviruses and Opportunistic Infections (CROI) – March 6th, 2021. Title: “Vaccine Hesitancy”
- National Forum on COVID-19: Live Show – Town Hall 2 – February 22<sup>nd</sup>, 2021. Title: “Combatting Misinformation”
- New Cardiovascular Horizons, Salt Lake City 2021 – February 20th, 2021. Title: “COVID-19 Vaccine Update: Clinical and Public Health Considerations”
- Emory Vaccine Dinner Club – February 3rd, 2021. Title: “SARS-CoV-2 vaccine distribution.”
- Washington State University Bioethics Grand Rounds: SARS-COV-2 Vaccine Safety and Allocation – January 27<sup>th</sup>, 2021.
- University of Georgia School of Law GJICL Conference – January 25th, 2021. Title: “The Global Campaign for the Collective Good.”
- VoVRN Work-in-Progress Webinar Series – January 19<sup>th</sup>, 2021. Title: “Funded Research.”
- Privia Health National COVID-19 Vaccine Webinar – January 13th, 2021. Title: “The Promise of the COVID-19 Vaccine.”
- Futures Forum on Preparedness by Schmidt Futures and SSRC – January 13<sup>th</sup>, 2021. Title: “Implications – Trust & Vaccine Hesitancy.”
- The Association of Physicians of Pakistani Descent Winter Meeting 2020 – December 23, 2020. Title: “Updates on Covid Vaccine.”

- The Society for Epidemiologic Research Seminar "Rapid Update on Public Health Emergencies" - December 16, 2020. Title: "Epidemiology of Measles: A Potentially Re-emerging Disease."
- Continuing Medical Education Program with Pakistan Physicians Society - December 13, 2020. Title: "COVID-19 Vaccines, Learn Facts from Expert"
- International Society of Travel Medicine Webinar Getting Out from the COVID-19 Pandemic: Towards a Safe and Effective Vaccine - December 9, 2020. Title: "Low and Middle-Income Countries and Vaccine Prioritization."
- National Academies of Sciences, Engineering, and Medicine/Arab-American Frontiers Program - November 11th, 2020. Title: "Consequentialist Research in a Pandemic"
- New York University Honors Lecture - November 2nd, 2020. Title: "Who Gets the COVID-19 Vaccine When Only A few Can Get It?"
- Virtual Panel Discussion at Harvard Law School on Vaccines and Behavior Change - October 30th, 2020. Title: "Who Should Get COVID-19 Vaccine When Not Everyone Can Get It"
- SAGE Virtual Meeting - October 6<sup>th</sup>, 2020. Title: COVID-19 Vaccination
- Cooper University OBGYN Grand Rounds - September 29<sup>th</sup>, 2020. Title: Maternal Immunizations
- Vaccine Confidence Meeting - September 18<sup>th</sup>, 2020. Title: COVID-19 Work
- TEDxGateway Webinar - September 4th, 2020. Title: Evolution of a Resilient Vaccine System Amidst COVID-19
- Forum on Microbial Threats Virtual Workshop: The Critical Public Health Value of Vaccines: Tackling Issues of Access and Hesitancy - August 17th, 2020. Title: The Global State of Vaccine Confidence: How Do We Enhance the Uptake of Vaccines?
- NASPGHAN COVID-19 Webinar - July 22nd, 2020. Title: "COVID-19: Clinical, Global, and Clinical Research Relevance to Pediatric Gastroenterologists."
- RSV Burden Convening - July 15th, 2020. Title: Data from RSV Community Mortality Studies
- World Health Organization First Infodemiology Conference - June 29th, 2020. Keynote Title: "Battling a Pandemic in a Fact-resistant World: Epidemiology, Public Health, and the COVID-19 Infodemic"
- World Health Organization First Infodemiology Conference - June 30th, 2020. Title: "Researching the COVID-19 Infodemic in the Digital Era"

- Oxford SARS-CoV-2 Lecture Series – June 10<sup>th</sup>, 2020. Title: “Consequentialist research in a pandemic: the case of COVID-19”
- Southeast Connecticut World Affairs Council (SECWAC) – June 3<sup>rd</sup>, 2020. Title: "COVID-19 Epidemiology, Evidence Based Policy and Prospects for Vaccines"
- Yale Alumni Association Webinar – May 27<sup>th</sup>, 2020. Title: "Emergence from The Pandemic: The Path Forward"
- Weitzman Institute – Weitzman ECHO on COVID-19 - April 22<sup>nd</sup>, 2020. Title: SARS-CoV-2 Vaccine Development
- New Haven Rotary Club – January 7<sup>th</sup>, 2020. Title: “Polio Eradication.”
- National Governors Association Vaccinations Summit – Addressing the Spread of Vaccine-Preventable Diseases Summit, December 5<sup>th</sup>, 2019. Title: “Crafting Effective Vaccination Policy Responses.”
- The Time is Now – Gender Equity and Women in Leadership Conference, December 2<sup>nd</sup>, 2019. Title: “In Conversation: Alumni Leading the Way.”
- Association of Health Care Journalists Webcast, November 21<sup>st</sup>, 2019. Title: “Vaccines, Civil Liberties & Mandates: What is the Balance?”
- New York University Department of Medicine Grand Rounds, October 30, 2019. New York, NY. Title: “Addressing Vaccine Hesitancy in a Fact Resistant World”
- ID Week: Advancing Science, Improving Care, October 2-6, 2019. Washington, DC. Title: “Vaccine Hesitancy and Policy: What Happens When States Change Their Immunization Policies”
- Mériex Foundation 7<sup>th</sup> Vaccine Acceptance Conference, September 23-25, 2019. Veyrier du Lac, France. Title “The politics, policy, and epidemiology of mandates in the US and Europe”
- Center for Disease Control Grand Rounds, September 18, 2019. Atlanta, Georgia. Title: “Maternal Immunization: Current Status and Future Directions”
- Sabin-Aspen Vaccine Science & Policy Group Meeting, September 10-12, 2019. Aspen, Colorado. Title: “Taking a Goldilocks Approach to Vaccine Mandates”
- National HPV Vaccination Roundtable Meeting, August 20-22, 2019. Atlanta, Georgia. Title: “When Are School Entry Requirements a Best Practice for HPV Vaccination?”
- Pan American Health Organization’s (PAHO) Technical Advisory Group on Vaccine-preventable Diseases XXV Meeting, 9-11 July 2019. Cartagena, Colombia. Title: “Summary of evidence of

maternal pertussis immunization”; “Understanding the determinants of vaccine acceptance and vaccine hesitancy”

- Plenary Speaker, 37<sup>th</sup> Annual Meeting of the European Society for Pediatric Infectious Diseases (ESPID), 7 May 2019. Ljubljana, Slovenia. Title: “Vaccine safety – How to measure it and how to communicate it”
- Keynote Speaker, Models of Infectious Disease Agent Study (MIDAS) Annual Symposium, 19 April 2019. Atlanta, Georgia. Title: “Status and impact of vaccine mandates”
- World Vaccine Congress, 17 April 2019. Washington, DC. Title: “A framework for comprehensive maternal immunization platform”
- Office of Evaluation Sciences, 16 April 2019. Washington, DC. Title: “Vaccine laws as behavioral interventions”
- National Foundation for Infectious Diseases, Annual Conference on Vaccinology Research, 5 April 2019. Baltimore, Maryland. Title: “Communications & Vaccine Hesitancy”
- International Pediatric Association (IPA) Vaccine Hesitancy Project Training of Trainers (ToT), 16 March 2019. Panama City, Panama. Title(s): “Drivers of Vaccine Behaviour”; “Communicating about vaccines in a fact-resistant world.”
- Public Health Committee, Connecticut General Assembly, Hearing on HPV Vaccines (Written Testimony). 13 March 2019.
- U.S. Senate Committee on Health, Education, Labor & Pensions, 5 March 2019. Title: “Vaccines Save Lives: What is Driving Preventable Disease Outbreaks?”
- World Health Organization, Influenza Vaccine Hesitancy and Demand Meeting, 27 February 2019. Title: “Evidence-Based Strategies to Increase Influenza Immunization”
- Emory University, Department of Obstetrics and Gynecology Grand Rounds, 10 October 2018. Atlanta, Georgia. Title: “Maternal Immunization: Science and Policy”.
- Foundation Mérieux, Global Challenges in Vaccine Acceptance Science and Programs, 25 September 2018. Annecy, France. Title: “Advances in Maternal Immunization Acceptance”.
- International Conference on Infectious Disease, 28 August 2018. Atlanta, Georgia. Title: “Progress Toward a Comprehensive Maternal Immunization Platform”.
- Savaid Medical School, University of Chinese Academy of Science (SMS-UCAS) - Chinese Vaccinology Course (CNVAC). 3 August 2018. Beijing, China. Title: “Developments in Maternal Immunization”.

- 48<sup>th</sup> National Immunization Conference: Prevention, Protection, Progress, 16 May 2018. Atlanta, Georgia. Title: “Maternal vaccination for influenza: efficacy, coverage, safety”.
- Pediatric Academic Societies Meeting, 7 May 2018. Toronto, Canada. Title: “Cognitive Phenotypes and Moral Foundations Associated with Vaccine Hesitancy”.
- Bill & Melinda Gates Foundation, (Session Chair) Allies in Maternal and Newborn Care: Strengthening Services Through Maternal Immunization, 3-4 May 2018. Amsterdam, Netherlands. Title: “Ethics of Maternal Immunization”.
- Bill & Melinda Gates Foundation, Stakeholder Meeting to Align on Maternal Interventions Vigilance Harmonization in LMIC’s, 1-2 May 2018. Amsterdam, Netherlands. Title: “Maternal Vaccine Acceptance and Hesitancy: Interdisciplinary Perspective”.
- University Medical Center Utrecht, 28 April 2018. Utrecht, Netherlands. Title: “Manuscript and Biomedical Writing”.
- Foundation Mérieux, 8<sup>th</sup> MENA Influenza Stakeholders Networks Meeting, 10 April 2018. Cairo, Egypt. Title: “Impact of Vaccine Hesitancy and Strategies to Increase Influenza Immunization Acceptance”.
- World Vaccine Congress, 5 April 2018. Washington, DC. Title: “Safety assessment, communication of risk and intervention around acceptance in maternal immunization”.
- World Vaccine Congress, (Chair) Safety and Pharmacovigilance Conference. Washington, DC. 4 April 2018.
- Mayo Clinic. Travel the World - Global Health Lecture Series, 27 March 2018. Rochester, MN. Title: “Promise of Maternal Immunization”.
- World Health Organization Immunization and Vaccine-related Implementation Research Advisory Committee (IVIR-AC), 7 March 2018. Chamonix, France. Title: “Update on evidence base on demand and acceptance”.
- XXII Congress of the Latin American Federation of Societies of Obstetrics and Gynecology (FLASOG), 9 November 2017. Cancun, Mexico. Title: “Maternal Immunization Vaccines”.
- National Centre for Immunisation Research & Surveillance, 20<sup>th</sup> Year Anniversary Showcase, 3 November 2017. Sydney, Australia. Title: “Vaccination in Pregnancy - Effectiveness and Safety”.
- 12<sup>th</sup> Australian Influenza Symposium, Doherty Institute, 2 November 2017. Melbourne, Australia. Title: ‘Interventions to Increase Influenza Vaccine Acceptance”.
- 12<sup>th</sup> Australian Influenza Symposium, Doherty Institute, 1 November 2017. Melbourne, Australia. Title: “Maternal Influenza Immunization”.

- Murdoch Childrens Research Institute Maternal Immunization Workshop, 31 October 2017. Melbourne, Australia. Title: “Building Blocks of a Maternal Immunization Uptake Intervention”.
- Vaccinology 2017 III International Symposium for Asia Pacific Experts, 18 October 2017. Hanoi, Vietnam. Title: “The Impact of Vaccine Hesitance and Strategies to Increase Immunization”.
- The Global Alliance for Vaccines and Immunizations, 28 September 2017. Geneva, Switzerland. Title: “Communicating about Vaccines in a Fact-Resistant World”.
- Foundation Mérieux, Vaccine acceptance science, policy, and practice in a <<post-fact>> world, 26 September 2017. Annecy, France. Title: “Cognitive Biases and Vaccine Acceptance”.
- The Vaccine Confidence Meeting, 16 August 2017. Atlanta, GA. Title: “Vaccine Exemption Laws as Behavioral Interventions.”
- Canadian Immunization Research Network (CIRN) Annual Meeting, 25 May 2017. Halifax, NS. Title: “The Expanding Field of Maternal Immunization.”
- Canadian Association for Immunization Research and Evaluation (CAIRE), Progressing Immunization in Pregnancy Evaluation and Research (PIPER) Group Workshop, 23 May 2017. Halifax, NS. Title: “Immunization in pregnancy research in the US - what has been achieved and where do we go next?”
- Annual Clinical Immunization Safety Assessment (CISA) Network Meeting, 14 March 2017. Global Communications Center, CDC Atlanta, GA. Keynote Address Title: “Maternal Immunization: The Next Frontier in Vaccinology.”
- Frank Church Symposium, 2-3 March 2017. Idaho State University, Pocatello, ID. Richard H. Foster Lecture: Global Health.
- IDWeek Annual Conference, 26-28 October 2016. New Orleans, LA. Title: “Influenza Vaccine In Pregnancy: Is the Juice Worth the Squeeze?”
- Foundation Mérieux Conference on Strategies to increase vaccine acceptance and uptake, 26-28 September 2016. Annecy, France. Title: "Behavioural insights-based studies to increase vaccine acceptance."
- Demand Generation SFA Session, 20 July 2016. Geneva, Switzerland. Title: "Nudges, Persuasion and Treating Humans as Humans - Behavioural-insights-based Vaccine Demand Generation."
- 10th Bi-Reg.Mtg of National Influenza Centres (NIC) in the South-East Asia & Western Pacific Regions, 25-27 July 2016. Bangkok. Title: "Vaccine in Pregnant Women - Global Perspective."
- World Health Organization Technical Consultation on Maternal Influenza Vaccine Introduction. June 2016. Geneva, Switzerland. Title: “Vaccinating Pregnant Women - An Update on the Latest Evidence.”

- 19<sup>th</sup> Annual Conference on Vaccine Research. April 2016. Baltimore, MD. Title: “National Vaccine Advisory Committee’s Activities on Maternal Immunization.”
- Global Vaccine and Immunization Research Forum. March 2016. Johannesburg, South Africa. Title: “How has the Gavi VIS process influenced the vaccine research agenda.”
- National Foundation of Infectious Diseases –Clinical Vaccinology Course. March 2016. Phoenix, Arizona. Title: “Vaccine Safety.”
- Pan American Health Organization, Americas Network for Evaluation of Influenza Vaccine Effectiveness (REVELAC-i). March 2016. Santiago, Chile. Title: “Actualización sobre la inmunización materna contra influenza.”
- The White House Social and Behavioral Sciences Team. February 2016. Washington D.C. Title: “Behavioral Insights Based Immunization Interventions.”
- American Association for the Advancement of Science (AAAS). February 2016. Washington D.C. Title: “Vaccine Refusal and Herd Immunity for Measles.”
- Society of Maternal Fetal Medicine Annual Meeting. February 2016. Atlanta, GA. Title: “Group B Streptococcus Vaccine.”
- Gavi Forum on Vaccine Demand Creation. January 2016. Geneva, Switzerland. Title: “Building Blocks of a Global Demand Creation Strategy.”
- Foundation Merieux Meeting on Aging and Immunity III. January 2016. Siena, Italy. Title: “Statins and Influenza Vaccine Response.”
- Infectious Diseases (ID) Week. October 2015. San Diego, California. Title: “Vaccine Hesitancy.”
- FIGO World Congress of Gynecology & Obstetrics. October 2015. Vancouver, Canada. Title: “Maternal Immunization: GBS /RSV.”
- Demand side interventions to increase and sustain vaccination uptake. September 2015. Annecy, France. Title: “Vaccine Uptake, Missed Opportunities and Provider Response.”
- International Conference on Emerging Infectious Diseases, Panel on Global Issues Concerning Vaccine-Preventable Diseases. Atlanta, Georgia. August 2015. Title: “Vaccine Hesitancy: An Emerging Obstacle to Global Immunization.”
- Pan American Health Organization, Technical Advisory Group on Immunization. Varadero, Cuba. July 2015. Title: “Update on Maternal Immunization.”
- O’Neill Institute, Georgetown Law. Washington, DC. June 2015. Title: “Compulsory Vaccination of Children and Health Care Workers.”

- European Congress of Clinical Microbiology and Infectious Diseases. Copenhagen. April 2015. Title: “Potential impact of maternal immunizations on adverse pregnancy outcomes.”
- WHO Meeting on Maternal Influenza Immunization Evidence and implementation. Geneva. March 2015. Title: “Maternal Immunization Pooled Data Analysis”
- American Society of Tropical Medicine and Hygiene Annual Meeting. Invited Symposium. New Orleans. November 2014. Title: “Recent research and experience with maternal influenza immunization”
- National Immunization Conference. September 2014. Title: “Maternal Influenza Immunization.”
- NIH - Conference on Clinical Research in Pregnant Women: Knowledge, Gaps, and Opportunities. September 2014. Title: “Endpoints and Outcome Measures in Clinical Trials of Maternal Immunization in International Settings.”
- Fondation Mérieux – Meeting title “From package to protection - how do we close global coverage gaps to optimize the impact of vaccination?” Veyrier-du-Lac – France. September 2014. Title: “Interventions for reducing parental vaccine refusal and vaccine hesitancy.”
- Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC); September 2014. Title: “The Latest on Preinatal Influenza Immunization.”
- CDC - NCIRD Public Health Vaccinology Course; September 2014. Title; “Vaccine Hesitancy.”
- World Health Organization – Meeting to Develop Brighton Collaboration Definitions of Events of Special Interest for Monitoring & Evaluation of Immunization in Pregnancy; July 2014. Title: “Adverse Events Following Immunization during pregnancy and the newborn period - a systematic review of definitions.”
- National Foundation of Infectious Diseases Annual Conference on Vaccine Research; April 2014. Title: “Burden of Vaccine Hesitancy.”
- Pan American Health Organization -Reunión anual de la red para la Evaluación de la Vacuna contra influenza en Latino América y el Caribe, REVELAC-i. Cartagena Colombia. March 27, 2014. Title: “Inmunización Materna - evidencia de ensayos clínicos y estudios observacionales.”
- University of del Valle Guatemala. Guatemala City; December 2013. Title: “Maternal Immunization.”
- National Vaccine Advisory Committee – Vaccine Hesitancy Working Group. Washington, DC; September 2013. Title: "Addressing Vaccine Hesitancy & Refusal.”
- Options for the Control of Influenza VIII Conference. Cape Town; September 2013. Plenary talk. Title: “Maternal Influenza Immunization.”
- National Vaccine Advisory Committee. Washington, DC; September 2012. Title: "Epidemiology of Vaccine Refusal and Evidence Base for Addressing Vaccine Hesitancy".



- Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Meet the Experts Session: Healthy Mother Healthy Baby. San Francisco, CA; September 2012. Title: "Maternal Influenza Immunization".
- Texas Immunization Summit. Plenary Session. Houston, TX; September 2012. Title: "Vaccine Refusals and the Impact of Exemptions on Disease Rates."
- Institute of Medicine - Committee on Assessment of Studies of Health Outcomes Related to the Recommended Childhood Immunization Schedule, Washington DC; February 2012. Title: "Data and Approaches in National and International Immunization Studies"
- University of Pittsburgh, Public Health Dynamics Seminar Series. February 2012. Title: "Determinants of Vaccine Refusal"
- Fogarty International Center/Princeton University, Research and Policy for Infectious Disease Dynamics Program Workshop on Vaccine Refusal -Princeton, NJ; November 2011. Title: "Empirical Patterns and Drivers of Refusal"
- West Virginia Immunization Network, Awards, and Policy Dinner, Charleston WV; November 2011. Title: "Vaccine Refusal and Risk of Vaccine-Preventable Diseases"
- National Vaccine Program Office, National Meeting on Progress in Overcoming Barriers to Influenza Vaccination for Pregnant Women - October 2011. Title: "Safety of Influenza Immunization During Pregnancy for Fetus/Infant"
- World Health Organization, Child Health Epidemiology Reference Group - Geneva, Switzerland; October 2010. Title: "Global Burden of Pertussis Methods & Preliminary Results"
- Columbus Regional Medical Center, Pediatrics Grand Rounds - Columbus, GA; June, 2010. Title: "Vaccine Refusal and Risk of Vaccine-Preventable Diseases: What Can Clinicians Do?"
- Pediatric Academic Societies Annual Meeting - Vancouver, BC; May 2010. Title: "Personal Immunization Exemptions and State Immunization Requirements: Should Parental Rights Overrule Public Health Considerations?"
- 44<sup>th</sup> National Immunization Conference, Special Emphasis Session, Atlanta GA -April 2010. Title: "The Science of Religious and Philosophical Exemptions"
- Johns Hopkins University Vaccine seminar series, Baltimore, MD - December 2009. Title: "Maternal Influenza Immunization"
- CDC -National Center for Immunization and Respiratory Diseases -Division of Bacterial Diseases - December 2009. Title: "Modelling the Potential Impact of Heterogeneity in Vaccine Coverage Due to Religious and Philosophical Exemptions"

- Vaccine Dinner Club – Atlanta, GA; October 2009. Title: "You Went to All that Trouble to Build It: So Why Won't They Come? The Reasons for, and Repercussions of Vaccine Refusal"
- Beth Israel Medical Center, New York City: Internal Medicine Grand Rounds–June 2009. Title: "Vaccine Refusal and Risk of Vaccine-Preventable Diseases: What Can Clinicians Do?"
- Third Annual Symposium on Vaccines, Immunity, and Well-being; Iowa State University, Ames Iowa – May 2009. Title: "Vaccine Avoidance – Behavioral Patterns and Effects in the Community"
- Special Plenary Session. 12<sup>th</sup> Annual Conference on Vaccine Research –April 2009. Title: "Evaluation of Combined Effects of Influenza Vaccine to Mothers and Pneumococcal Conjugate Vaccine to Infants: Results from a Randomized, Double-blind, Controlled Trial"
- CDC –National Center for Immunization and Respiratory Diseases –Division of Bacterial Diseases – February 2009. Title: "Epidemiology of Vaccine Refusal"
- Aga Khan University/Fogarty International Center – International course on Vaccinology, Karachi, Pakistan – November 2008. Title: "Models for Vaccine Delivery in Developing Countries" & "Assessing Vaccine Efficacy and Safety"
- Florida Governor's Taskforce on Autism, Tampa, FL – September 2008. Title: "Vaccine Refusal and Risk of Vaccine-Preventable Diseases"
- Global Burden of Disease Expert Group meeting, Dubrovnik, Croatia – September 2008. Title: "Methods for Estimating Global Burden of Pertussis"

## **EDITORIAL ACTIVITIES**

### Guest Editor

Clinical Infectious Disease – Special Supplement on Pertussis (2016)

### Editorial Boards

Vaccine (2013 – 2016)

Infectious Disease Hub (2018 – 2019)

### Peer Reviews

New England Journal of Medicine

Journal of American Medical Association -JAMA

American Journal of Public Health

American Journal of Epidemiology

American Journal of Tropical Medicine & Hygiene

Annals of Epidemiology

British Medical Journal -BMJ

Philosophical Transactions of the Royal Society B

BMC –Public Health

Human Vaccines

Journal of Behavioral Medicine

WHO Bulletin

BioDrugs  
 PLoS Medicine  
 Emerging Infectious Diseases  
 Vaccine  
 Clinical Infectious Diseases  
 Expert Review of Vaccines  
 International Journal of Epidemiology  
 Pediatrics  
 American Journal of Preventive Medicine  
 Disaster Medicine and Public Health  
 Open AIDS Journal  
 Journal of Pediatric Infectious Diseases  
 Journal of Infectious Diseases  
 Pediatric Infectious Disease Journal  
 Lancet Infectious Diseases  
 Social Science and Medicine

## ADVISORY COMMITTEES AND WORKING GROUPS

- Strategic Advisory Group of Experts (SAGE) Working group on Typhoid Vaccination (Chair). 2024-Present
- Centre of Excellence in Women and Child Health (CoE WCH) External Advisory Committee, Aga Khan University. 2023-Present
- World Health Organization, Strategic Advisory Group of Experts (SAGE) on Immunization. 2023-Present
- Rockefeller Foundation Global Immunization Initiative (GVI) Advisory Council. Summer 2022-December 2022
- World Health Organization Expert Steering Committee on Safety Surveillance in Pregnancy in LMIC. 2022-2023
- Gavi Programme and Policy Committee. 2022-2023
- Gavi -the Vaccine Alliance Board, Member. 2023-Present
- Gavi -the Vaccine Alliance Board, Alternate Member. 2020-2022
- World Health Organization Technical Advisory Group on Behavioral Insights and Sciences for Health. 2020-Present
- World Health Organization, Strategic Advisory Group of Experts (SAGE) Working Group on COVID-19 Vaccines. 2020-Present
- Board of Trustees, Sabin Vaccine Institute. 2019-2024
- Co-Chair, Lancet Commission on Vaccine Hesitancy in the United States. 2019-2023.
- World Health Organization, Global Advisory Committee on Vaccine Safety. 2019-2022.
- National Academies of Sciences, Engineering, and Medicine Rapid Expert Consultation (REC) on Building Vaccine Confidence in COVID-19 Vaccines. 2021
- National Academies of Sciences, Engineering, and Medicine, Committee on Addressing Issues of Vaccine Distribution and Supply Chains to Advance Pandemic and Seasonal Influenza Preparedness and Response. 2021

- World Health Organization, Global Advisory Committee on Vaccine Safety Working Group on COVID-19 Vaccine Safety Preparedness (Chair). 2020-2021
- World Health Organization, Measuring Behavioral and Social Drivers of Vaccination Working Group. 2018-2021
- Office of Evaluation Sciences (White House Social and Behavioral Sciences Team). Academic Affiliate 2017-2021
- National Academies of Sciences, Engineering, and Medicine, Committee on Equitable Allocation of Vaccines for the Novel Coronavirus. 2020
- World Health Organization, Strategic Advisory Group of Experts (SAGE) Working Group on Measles and Rubella Vaccines. 2019-2020
- National Vaccine Advisory Committee (NVAC) Working Group for Vaccine Hesitancy. 2019-2020
- World Health Organization, Group B Strep Value Proposition Technical Working Group. 2019-2020
- Vaccination Acceptance Research Network (VARN) Steering Committee. 2018-2019
- World Health Organization, Healthcare Worker Influenza Vaccine Introduction Guidance Independent Expert Advisory Group. 2018-2019.
- Steering Committee, International Pediatric Association Vaccine Hesitancy Project. 2018-2019
- Program and Meetings Committee, Pediatric Infectious Disease Society (PIDS). 2017-2019
- World Health Organization (WHO-EMRO) Regional Technical Advisory Group for the Expanded Programme on Immunization in the Eastern Mediterranean. 2017-2019
- UNICEF. Interpersonal Communication for Immunization Advisory Group. 2017-2019
- National Foundation of Infectious Diseases - Annual Conference on Vaccine Research Organizing Committee. 2016-2019
- Organizing Committee, Fondation Mérieux Conference: Global Challenges in Vaccine Acceptance Science and Programs. 2017-2018.
- Advancing Maternal Immunization (AMI) Delivery Working Group. 2017- 2018
- Pan American Health Organization (PAHO) Maternal Immunization Working Group. 2015-2018
- National Vaccine Advisory Committee (NVAC). Member 2014-2018
  - Co-Chair of the NVAC Maternal Immunization Working Group. 2014-2018
- Presidential Advisory Council on Combating Antibiotic-Resistant Bacteria - . 2016-2017
- Advisory Group on knowledge, attitudes, and beliefs (KAB) components of Canadian National Immunization Coverage Surveys. 2016-2017
- Public Health Committee, Infectious Diseases Society of America. 2014-2017
- “Council of 100”, Vaccine. Established by the journal Vaccine. 2012-2016
- Pregnancy Study Expert Group (PSEG), Mini-Sentinel Post-licensure Rapid Immunization Safety Monitoring (PRISM) project, Harvard Pilgrim Health Care Institute. 2011-2015
- FDA Center for Biologics Evaluation and Research Postmarketing Safety Review Committee. 2012- 2013
- Steering Committee, the Georgia Pregnancy Risks Assessment Monitoring System (PRAMS) 2011-2013

- American Society for Microbiology Mini-Colloquium on Adult Vaccination. December 6, 2011
- Bill and Melinda Gates Foundation Convening Panel Meeting on Maternal Influenza Immunization: Evidence Considerations and Action Plan. June 2 - 3, 2011.
- Clinical Decision Support Expert Panel, The Immunization Information Systems Support Branch, Centers for Disease Control and Prevention. 2011
- World Health Organization Expert Panel for Estimating Pertussis Burden. 2010
- WHO panel of experts for reviewing adverse events following yellow fever immunization (AEFI). 2010
- CDC working group on maternal influenza immunization. 2010.
- AIDS Vaccine Conference 2010. Local Organizing Committee

## TEACHING

• Peter O'Donnell Jr. School of Public Health. Vaccines and Vaccine-Preventable Diseases:  
**Instructor (previous):**

- Yale School of Public Health. Vaccines and Vaccine-Preventable Diseases
- Yale School of Medicine Elective: Patients, Populations, and Pandemics- Responding to COVID-19"
- Vaccines and Vaccine-Preventable Diseases, 2 credits, 30 students
- Field Trials and Intervention Studies, 2 credits, 23 students
- Clinical Trial Design, Conduct, and Analysis, 2 credits, 18 students (co-instructor)
- Vaccine Development and Application, 3 credits, 70-80 students (co-instructor)
- Spatial Epidemiology Module. Summer Institute in Tropical Medicine and Public Health. 18-20 students
- University of Edinburgh. "A Brief Introduction to Vaccinology: From Biology to Acceptance". 2014

## Training Grants/Programs:

- Faculty, **Emory Vaccinology Training Program (VTP)—NIH T32**. Former Lead of the Vaccine Epidemiology and Policy track. 2009 - 2019
- Faculty and subsequently PI, **Fogarty Global Infectious Disease Research Training Program: Infectious Diseases & Child Health in Pakistan Research Training Program**. 2009 - 2018
- Program Advisor, **Hubert Humphrey Fellowship Program** -an Emory-based program for mid-career professionals from developing countries sponsored by the U.S. Department of State. 2011 - 2019
- Mentor, **Interdisciplinary research training: NCD epidemiology and prevention in India -NIH D43**. 2009 - 2014

## Other:

- External Examiner for Thesis Defense, Aga Khan University MSc. 2016
- Course on Vaccinology in Developing Countries, Fogarty Training Grant, Aga Khan University, Dubai U.A.E. 2017

- International Training of Trainers Workshop of Vaccine Hesitancy Project, International Pediatric Association, Panama City, Panama. 16-17 March 2019 (upcoming)

### ADVISING AND MENTORING

Trainee Name	Training Level	Where Training Occurred	Training Period	Type of Mentoring	Title of Research Project
Tichenor, R.	MPH	OSPH	2023-Present	Graduate Research Assistant	Behavioral Insights for Vaccination
Khemsara, M.	MPH	OSPH	2023-Present	Graduate Research Assistant	AFIX OB, Monkey Pox
Kharbanda, K.	MPH	OSPH	2023-Present	Graduate Research Assistant	CHAMPS, AFIX OB, Global Mix, Corporate Mix
Tracy, M.	MPH	OSPH	2023-Present	Graduate Research Assistant	AFIX OB, HCW Mix, MPOX 1st gen, TB- Bangladesh, Monkeypox
Winter, M.	Post-Doctoral Fellow	Yale	2022-Present	Post-Doctoral Fellow Mentor	Vaccine Acceptance Intervention Studies
Zhou, Z.	MPH	Yale	2021-Present	Research Mentor	Digital Media for Health Outcomes
Belgaumi, S.	Post-Doctoral Fellow	Yale	2021-Present	Post-Doctoral Fellow Mentor	CHAMPS, RSV Mortality Study in Pakistan, Burial Site Surveillance to Measure Excess Mortality- Pakistan
Melchinger, H.	Post-Graduate Fellow	Yale	2020-Present	Research Mentor	CHAMPS, DHMO
McFadden, SA.	Post-Doctoral Fellow	Yale	2019-Present	Post-Doctoral Fellow Mentor	SB277 - Impact of Immunization Policy Change in California and The Lancet Commission on Vaccine Refusal, Acceptance, and Demand
Ahmed, N.	Post-Graduate Fellow	Yale	2019-Present	Research Mentor	Global Mix, AFIX-OB, Covid-19 Global Mix, VoVRN, Corporate Global Mix

Malik, A.	Post-Doctoral Fellow	Yale	2019-Present	Post-Doctoral Fellow Mentor	Behavioral Insights for Vaccination
James, E.	Post-Doctoral Fellow	Yale	2019-Present	Post-Doctoral Fellow Mentor	Vaccine Acceptance
Aguolu, O.	Post-Doctoral Fellow	Yale	2019-Present	Post-Doctoral Fellow Mentor	RSV Mortality Study in Pakistan, COVID-19, Burial Site Surveillance to Measure Excess Mortality- Pakistan a.k.a. Burial Ground Mortality Study, Group B Streptococcus Colonization Project in Pakistan, Comprehensive Profiling of Social Mixing Patterns in Resource Poor Countries a.k.a. Global Mix Study, Comprehensive Profiling Social Mixing Patterns in Workplace Settings to Model Pandemic COVID-19 and Influenza Transmission and Control - Study ID a.k.a. Corporate Mix Study, Comprehensive Profiling Social Mixing Patterns in Healthcare Workplace Settings to Model Pandemic Respiratory Infection Transmission a.k.a. Corporate Mix Study for HCWs, Maternal Tdap study in Guatemala, Investigation of COVID-19 Disease Parameters for Transmission Models in Low-Resource Settings a.k.a. COVID-19 Global Mix
Pischel, L.	Post-Doctoral Fellow	Yale	2020-Present	Post-Doctoral Fellow Mentor	Health care worker Mix study, Global Mix study, Houston Methodist, Collaboration regarding COVID-19 vaccine efficacy, Systematic review of blood clots with adenovirus-based vector vaccines

Patel, K.	Post-Doctoral Fellow	Yale	2021-Present	Post-Doctoral Fellow Mentor	Vaccine Acceptance
Zhang, W.	MPH	Yale		Research Mentor	Vaccine Acceptance
Oddleifson, A.	MPH	Yale	2021-Present	Research Mentor	Global COVID-19 Vaccine Market Analysis Project
Tiwana, M.	MPH	Yale	2019-Present	Research Mentor	Behavioral Insights
Shafiq, M.	MPH	Yale		Research Mentor	Comparing COVID-19 outcomes among childcare providers
Quereshi, H.	MPH	Yale		Research Mentor	RSV Mortality, Global Mix, Corporate Mix
O'Marr, J.	MPH	Yale	2020	Research Mentor	HPV and Moral Foundations research project
Mirza, F.	MPH	Yale	2020	Research Mentor	Patient, Populations, Pandemics: COVID-19 Elective, Dermatologic manifestations of COVID-19: Insights from the first wave,
Kayani, J.	MPH	Yale	2020-Present	Research Mentor	Examining Seasonal Variations in Fertility Across the Global South, Active Monitoring of a Healthcare Worker Cohort During the COVID-19 Pandemic, Framework for COVID-19 Vaccine Selection for Low- and Middle-Income Countries, COVID-19 Vaccine Hesitancy and Acceptance Among Muslim Americans
Elharake, J.		Yale	2019-Present	Thesis Advisee	AFIX-OB CDC Study: evaluating the impact of a set of interventions on influenza and TDAP vaccine uptake among pregnant women across 10-12 clinics in Connecticut, Comparing COVID-19 outcomes among child care providers, The Lancet Commission on Vaccine Refusal, Acceptance, and Demand in the U.S.,



					<p>Systematically reviewing studies pertaining to the COVID-19 mental health impact on children and college students,</p> <p>Systematically reviewing studies pertaining to COVID-19 vaccine acceptance,</p> <p>Conducting a comparative analysis of vaccination and immunization policies and guidelines pertaining to recently arrived migrants (including refugees and displaced populations) in low-, middle-, and high-income countries, Surveying health care workers across Middle Eastern and North African countries (Bahrain, Egypt, Lebanon, Saudi Arabia, and United Arab Emirates) to understand social and cultural factors that influence acceptance of a COVID-19 vaccine, and trust in sources of COVID-19 information,</p> <p>Understanding the relationships between COVID-19 vaccine policies, case rate, mortality rate, and other factors in the U.S. and Europe.</p>
Ahmed, N.	MPH	Yale	2019-Present	Research Mentor	VoVRN Project: The Broader Impact of Maternal Immunization in Sub-Saharan Africa and Asia: a multisite study in randomized clinical control trial cohorts, Behavioral Intervention (BI)-Insights project.
Campbell, L.	MPH	Yale	2019-2021	Mentor	Vaccine Acceptance
Hause, A.	Vaccinology T-32 Training Post-	Emory	2018-Present	Mentor	Relationship of repeated vaccination with the seasonal influenza vaccine

	Doctoral Fellow				
Sundaram, M.	Vaccinology T-32 Training Post-Doctoral Fellow	Emory	2018-Present	Mentor	Identifying Nutritional Factors Related to Maternally-Acquired Antibody in Infants
Girdhar, K.	MPH	Emory	2017-2019	Thesis Advisee	The Great American (Vaccine) Novel: An Analysis of Vaccines as Described in Modern Literature
HogenEsch, E.	MSCR	Emory	2017-2019	Mentor/Thesis Advisee	Group B Streptococcus in Latin American countries
Pomares, T.	MPH	Emory	2017-2019	Thesis Advisee	Assessing the Impact of Cognitive Biases of Vaccine Confidence: A Cross-Sectional Study
Saini, J.	MPH	Emory	2017-2019	Thesis Advisee	Evaluating the Impact of Package Inserts on Vaccine Prescribing Habits of Obstetricians/Gynecologists for Pregnant Women in the United States
Sokale, A.	MPH	Emory	2017-2019	Thesis Advisee	The Epidemiology of Meningococcal Meningitis in Nigerian Children in the Post-Vaccination Era
Howa, A	MPH	Emory	2017-2018	Thesis Advisee	A Serological Approach to Determine the Burden of Hepatitis E in Pregnant Women in Karachi, Pakistan
Rajagopalan, K	MPH	Emory	2017-2018	Thesis Advisee	A Standardized Method To calculate the Number Needed to Vaccinate
Vaz, O	MPH	Emory	2017-2018	Thesis Advisee	The Associations between Mandatory Vaccination and Incidence of Measles and Pertussis and Vaccination Rates in Europe
Amobi, C	MPH	Emory	2017-2018	Thesis Advisee	A Correlation Analysis Between the Parent Attitudes about Childhood Vaccines Short Scale and

					the Vaccination Confidence Scale
Landazabal, C	MPH	Emory	2018	Thesis Advisee	Assessing the safety of nine-valent human papillomavirus vaccine administration among pregnant women: adverse event reports in the Vaccine Adverse Event Reporting System (VAERS), 2014-2017
Lalani, K	MPH/MD	Emory	2017-2018	MPH Thesis Advisee	Performance of novel clinical case definitions for respiratory syncytial virus infections in young infants: a latent class analysis
Pham, M.	MPH	Emory	2016-2018	Thesis Advisee	Trends in U.S. Community Hospitalization Due to Herpes Zoster: 2001-2015
Wallace, A.	PhD	Emory	2015-2018	PhD Advisee	Monitoring and addressing determinants of vaccine utilization in low- and middle-income country settings: parental attitudes scales and vaccine reminder interventions
Amin, A	MPH	Emory	2016-2017	Thesis Advisee	Mapping the Morality of Vaccine Hesitance: Associations of Moral Foundation Values with Vaccine Hesitance
Clark, D	MPH	Emory	2016-2017	Thesis Advisee	Effects of Combined Maternal Influenza Vaccine and Infant Pneumococcal Conjugate Vaccine on Nasopharyngeal Colonization with <i>S. Pneumoniae</i>
Guterman, L. B.	MPH	Emory	2016-2017	Thesis Advisee	Modeling the Impact of Maternal Immunization Programs in a Low Income Setting
Piccione, C	MPH	Emory	2016-2017	Thesis Advisee	Fear of HPV Vaccine Safety Affects Self-Reported Likelihood to Be Vaccinated after Interventions among University Undergraduates

Porter, R	MPH	Emory	2016-2017	Thesis Advisee	Cancer Salient Messaging for Human Papillomavirus (HPV) Vaccine Uptake: A Randomized Controlled Trial
Pilishvili, T	PhD	Emory	2017	PhD Advisee	Evaluation of the effects of clean burning cookstoves on indoor air pollution and their effects on acute respiratory disease among children
Thomas, M	MPH	Emory	2016	Thesis Advisee	The Net Economic Benefit of a Vaccine Coverage Level Increase for a Full Childhood Routine Immunization Schedule in Gavi-eligible Countries
Nisar, I.	PhD	The Aga Khan University	2015-2021	Thesis Advisee	“The direct and indirect effect of the ten-valent pneumococcal conjugate vaccine (PCV10) on the nasopharyngeal carriage in children under two years of age in a rural population in Matiari, Pakistan”
Brennan, J	MPH	Emory	2015-2016	Thesis Advisee	Trends in personal belief exemption rates among alternative private schools: longitudinal analysis of Waldorf, Montessori, and holistic kindergartens in California: 2000-2014
Viator, N	MPH	Emory	2015-2016	Thesis Advisee	The Effect of Birth Month on Influenza Immunization among Infants Ages 6-23 Months: Evaluation Using the New York State Immunization Information System
Oladejo, O	MPH	Emory	2015-2016	Thesis Advisee	Comparative Analysis of the Parent Attitudes about Childhood Vaccines (PACV) Short Scale and the Five Categories of Vaccine Acceptance Identified by Gust, et al
Phillips, LN	MPH	Emory	2015-2016	Thesis Advisee	Defining RSV: clinical prediction of respiratory syncytial virus-associated

					disease in children under five years of age in Bondo District, Kenya, 2007-2009
Beeler, J	MPH	Emory	2015	Thesis Advisee	Vaccines: when should we legislate?
Benedict, SC	MPH	Emory	2015	Thesis Advisee	Vaccine Hesitancy: Factors in the pathway to pediatric immunization decision making among US parents of children ages 0-6
Chang, DH	MPH	Emory	2015	Thesis Advisee	Trends in US Hospitalizations and Inpatient Deaths from Pneumonia and influenza, 1996-2011
Kriss, J	PhD	Emory	2015	PhD Advisee	Prevention of Infant pertussis through maternal vaccination strategies
Malewezi, B	MPH	Emory	2015	Thesis Advisee	Protecting health workers from nosocomial Hepatitis B infections: a review of strategies and challenges to implementation among health workers in Sub Saharan Africa
Narayan, D	MPH	Emory	2015	Thesis Advisee	An Age-Period-Cohort Analysis of the Impact of Hepatitis Vaccines on Hepatocellular Carcinoma in the United States
Ragan, KR	MPH	Emory	2015	Thesis Advisee	HPV Vaccine and Health Decision Making Behaviors among University Undergraduates
Everitt, IK	MPH	Emory	2015	MPH Advisee/Thesis Committee Member	An assessment of El Paso Physician Knowledge, Attitudes and Practices regarding the clinical management of suspected cases of pertussis
Wardle, M	MPH	Emory	2015	Thesis Advisee	Vaccination Status among Users of Private Healthcare in Eastern Indonesia
Bednarczyk, R	NIH K01 Award	Emory	2014 - Present	Mentor	A Practice-Provider-Parent-Adolescent Intervention to Intervention to Increase HPV Vaccination

Phadke, V	Fellow, Adult Infectious Diseases	Emory	2014- Present	Mentor	Clinical Characteristics and Severity of Pediatric Pertussis in Guatemala
Sukumaran, L	Vaccinology T-32 Training Post- Doctoral Fellow	CDC /Emory	2013 2015	Mentor	Safety of Tdap Vaccination in Pregnant Women Following Prior Tetanus Containing Immunizations and Co- administration with Influenza Vaccine
Syed, S	Fellow, Pediatric Gastro- enterology, Hepatology and Nutrition	Emory	2013 2014	Mentor	Investigation of Reticulocyte Hemoglobin versus Other measures of iron status in Inflammatory Bowel Disease
Varan, AK	MPH	Emory	2013	Thesis Advisee	Data analysis of investigation or Bordetella pertussis booster vaccine acceptance among pregnant women living in Mexico City
Saint-Victor, DS	MPH	Emory	2013	Thesis Advisee	Vaccine refusal and the endgame: walking the last mile first
Chamberlain, A.	PhD	Emory	2010 - 2015	PhD Thesis Advisee + Research Assistant	Improving influenza and tetanus, diphtheria, and acellular pertussis (Tdap) vaccination among pregnant women in Georgia
Van Otterloo, JE	MPH	Emory	2012	Thesis Advisee	Gift Card Incentives and Non- Response Bias in a Survey of Vaccine Providers: The Role of Geographic and Demographic Factors
Ockers, S	MPH	Emory	2011	Thesis Advisee	Communication Preferences of Healthcare Providers During an Emergency: Data from four state surveys conducted before and after the H1N1 influenza mass vaccination campaigns
Sreevatsava, M.	PhD	Emory	2010- 2011	Research Assistant	Protocol for a field trial of maternal influenza immunization in Guatemala

Mergler, M	MHS & PhD	Johns Hopkins	2007-09 (MHS) 2010-2014 (PhD)	MHS Advisee/ PhD Thesis Committee	Global Burden of Disease Project (pertussis)  The association between parental and provider beliefs on vaccine attitudes and beliefs
Vannice, K. S.	PhD	Johns Hopkins	2011-2013	Thesis Committee	Active surveillance of adverse events following immunization with Meningococcal A conjugate vaccine (MenAfriVac™) in Mali
Bozio C	PhD	Emory	2011	Research Assistant	Differential effectiveness of rotavirus vaccine by race
Mina, M.	PhD	Emory	2011-2014	MD-PhD Advisee/ Thesis Committee	Increased bacterial or viral respiratory infections in the acute phase following influenza vaccination
Ogee-Nwankwo, Adaeze Amen	MPH	Emory	2012-2014	Thesis Advisee	Immunizing in pregnancy to protect the fetus, neonate and mother: Bridging the gap between vaccine evidence and adoption in low-income countries."
Barton, Jerusha Elana	MPH	Emory	2012-2014	Thesis Advisee	The changing epidemiology of pertussis in the acellular vaccine era
Lambert, S.	MPH	Emory	2012-2014	Thesis Advisee	Where there's a will there's a way: Attitudes and perceptions of India's primary health center physicians regarding measles eradication
Fulton, TR	MPH	Emory	2012-2014	Thesis Advisee	Protective effect of pertussis vaccine and the impact of waning protection: a systematic review and meta-analysis
Khan, AA	MPH	Emory	2012-2014	Thesis Advisee	Acceptance of vaccine against influenza in pregnant women in urban slum areas in Karachi, Pakistan

Bratton, K	MPH	Emory	2012-2014	Thesis Advisee	Effect of maternal influenza Vaccination on spontaneous abortion and stillbirth: A systematic review and meta-analysis
Harney, S.	MPH	Emory	2012-2014	Thesis Advisee	Sociodemographic and spatial-temporal cluster analyses of socioeconomic status and Salmonellosis in Georgia, 2010-2012
Moriarty, L	MPH	Emory	2012-2014	Thesis Advisee	Infants and the seasonal influenza vaccine: safety, effectiveness & alternate forms of protection
Chen, G	MPH	Emory	2011-2013	Thesis Advisee	Impact of maternal immunization and breastfeeding on influenza-like illness and lower respiratory tract infections in infants.
Brosseau, JL	MPH	Emory	2011-2013	Thesis Advisee	The impact of antibiotic use on influenza vaccine effectiveness in children aged 6-59 months
Curran EA	MPH	Emory	2011-2013	Thesis Advisee	A national survey of immunization programs regarding immunization information systems data sharing and use
Gargano L	MPH	Emory	2010-2012	Thesis Advisee	Cost-effectiveness of rotavirus vaccination and predictors of diarrheal disease in children during a complex humanitarian emergency
Humphries Jr, K	MPH	Emory	2010-2012	Thesis Advisee	A systematic review of antibiotic resistance in nontyphoidal salmonella in South Asia (1997-2012)
Chuo, C-Y	MPH	Emory	2011-2012	Thesis Advisee	The association between school immunization on-medical exemptions and pertussis incidence: A geographic clustering and transmission model approach
Nguyen, A.	MD/MPH	Emory	2011-2012	MPH Thesis Advisee	Burden and determinants of pertussis and young Guatemalan infants



Richards, J.	MPH	Emory	2010-2012	Thesis Advisee	Infant outcomes associated with influenza immunization and influenza infection in pregnancy
van Santen, K.	MSPH	Emory	2010-2012	Thesis Advisee	Effectiveness of pneumococcal vaccine in infants by maternal influenza vaccination
Otterloo, J.	MSPH	Emory	2010-2012	Thesis Advisee	Emory PERRC, Gift card incentives and non-response bias in a survey of vaccine providers
Salo, A.	PhD	Emory	2009-2011	PhD Advisee	TBD
Pilishvili, T.	PhD	Emory	2010-2011	Research Assistant	Maternal influenza immunization
Miles, M.	MPH	Emory	2009-2011	Thesis Advisee	Public health measures implemented in response to the 2009 H1N1 pandemic
Cappelier, K.	MPH	Emory	2009-2011	Thesis Advisee	Understanding community and health worker perceptions of integrated health services with routine immunizations in Mali
Patel, J.	MPH	Emory	2009-2011	Thesis Advisee	Epidemiology and risk factors for transmission of norovirus in resource-limited communities in Guatemala
Kharod, G.	MPH	Emory	2009-2011	Thesis Advisee	Effect of a joint incident management team response on health care providers' perceptions regarding the adequacy of pandemic H1N1 vaccination campaigns in Washington, USA, 2009
Bashirian, S.	MPH	Emory	2009-2011	Thesis Advisee	Cost-effectiveness analysis of H5N1 Clade 1 prepandemic vaccination among commercial broiler operation employees
Jones, A.	MPH	Emory	2010-2011	Thesis Advisee	Parental Attitudes and Beliefs Associated with Internet Use as a Source of Vaccine Information

Seib, K.	MSPH	Emory	2008-2010	Thesis Advisee	Pneumococcal colonization among infants of women who received PPSV-23 vaccine in Bangladesh
Link-Gelles, R.	MPH	Emory	2009-2010	Thesis Advisee	Pregnant women about routine childhood immunizations: Attitudes and beliefs of obstetricians
Stanley, J. L.	MPH	Emory	2008-2010	Thesis Advisee	Vaccination coverage among 19 to 35-month-old and 6-year-old children in Puerto Rico, 2006
Besaw, R. J.	MPH	Emory	2008-2010	Thesis Advisee	Decision-making regarding adjuvant use in influenza A (H1N1) 2009 monovalent vaccines during pandemic (H1N1) 2009 influenza: insights from a systematic review
Randall, L.	MPH	Johns Hopkins	2009-2010	Thesis Advisee	Mandatory influenza vaccination for healthcare workers: A legal analysis
Khan, M.I.	PhD	Johns Hopkins	2008-2009	Thesis Committee	Assessment of effectiveness and indirect protection of Oral Killed Cholera Vaccine rBS-WC after a mass immunization campaign in Zanzibar
Doll, M. K.	MPH	Johns Hopkins	2007-08	Thesis Advisee	Spatial analysis of Lyme disease incidence in Howard County, MD
Chandir, S.	MPH/ PhD	Johns Hopkins	2007-2008	Capstone/ Thesis Advisee	Effect of food coupon incentives on timely completion of DTP immunization series in birth cohorts from a low-income area in Karachi, Pakistan
Note: This research does not include several MPH advisees who did not do their theses with me					

## GRANT REVIEWS

- Al-Sumait Prize 2021 (Health) Selection Panel. November 2021
- Canadian Immunization Research Network, Canadian Institutes of Health Research – Institute of Infection and Immunity, and the Public Health Agency of Canada. April 2019
- ZRG1 EMNR-C (55) NIH Special Emphasis Panel “Understanding the Early Development of the Immune System”. March 2019
- CDC IP18-002 Special Emphasis Panel “Economic Studies of Immunization Policies and Practices”. April 2018
- NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) Study Panel. October 2017
- NIH Special Emphasis Panel ZAI1-JKB-M-S1 NIAID Clinical Trial Implementation Grants. August 2017
- Canadian Immunization Research Network, Canadian Institutes of Health Research – Institute of Infection and Immunity, and the Public Health Agency of Canada. December 2016
- Thrasher Research Fund. June 2016.
- NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions Study Section (*ad hoc* member). February 2015.
- NIH Loan Repayment Program review panel. April 2014.
- CDC Special Emphasis Panel “Epidemiology, Prevention, and Treatment of Influenza and Other Respiratory Infections in a Malaria-Endemic Area of Malawi with High HIV Prevalence”. February 2014.
- GAVI Alliance RFP “Evaluation of Pneumococcal Conjugate Vaccine (PCV) Effectiveness in Asia”. June 2013
- CDC Special Emphasis Panel on Monitoring and Evaluation of Malaria Control and Elimination Activities -RFA-GH-13-005. May 2013
- External protocol reviewer ICDDR, Bangladesh. February 2013
- The Netherlands Organisation for Health Research and Development (ZonMw). October 2011
- The Thrasher Research Fund -May 2011. Review panel on maternal influenza immunization research. May 2011
- National Institutes of Health, National Institute of Allergy and Infectious Disease Special Emphasis Panel on Review of Clinical Trial Planning and Implementation Grants ZAI1-QV-M (M1). Date Feb 9, 2011
- CDC Special Emphasis Panel on R36 Grants -PAR-07-231; 2009
- CDC Special Emphasis Panel on Elimination of Health Disparities through Translation Research - CD08-001; 2008
- Johns Hopkins Center for Global Health; 2007

## GRANTS

### Current:

Behavioral Insights for Vaccination

Principle Investigator: 2024-2025

INV-070807 - Gates (Bill and Melinda) Foundation

Funding Level: \$442,996

**Description:** We will update the literature review and meta-analysis conducted previously to include updated literature from March 2020 to the present. We will develop an online training course to share both our findings and approach to designing, implementing, and evaluating behavioral interventions to improve vaccine uptake, as well as hold one regional training session led by Dr. Saad B. Omer, to share learnings and best practices with practitioners.

Digital Media Health Outcomes

Principal Investigator: 2023-2024

META

Funding Level: \$1,079,096

**Description:** Dr. Omer's previous institution, Yale University received a grant and philanthropic gift from Meta for research on vaccine messaging on social media.

Comprehensive Profiling of Social Mixing Patterns in Resource-Poor Countries

Principle Investigator (mPI with Ben Lopman): 2019-2024

1R01HD097175 - NICHD (NIH)

Funding Level: \$2,650,665

**Description:** Collect and analyze contact data, in both rural and urban settings, in Guatemala, Pakistan, India, and Mozambique to better parameterize infectious disease models, and thus evaluate infectious disease interventions.

COVID-19 - Global Mix/Investigation of COVID-19 Disease Parameters for Transmission Models in Low Resource Setting

Principle Investigator: 2022-2027

1R01AI161399-01A1

Funding Level: \$3,607,991

**Description:** To quantify the role of respiratory virus transmission within the household environment. To estimate the age-specific force of infection of respiratory pathogens.

COVID-19 Vaccine Effectiveness in Pregnant Women and their infants

Co-Investigator: 2022-2027

1R01AI168373-01(211864-Yale-01)

Funding Level: \$3,607,991

**Description:** Ascertain COVID-19 vaccine effectiveness in pregnant women and their infants.

Child Health and Mortality Prevention Surveillance (CHAMPS) sites in Karachi, Pakistan

Principle Investigator: 2022-2025

A696539

Funding Level: \$1,652,732

**Description:** Child health and mortality prevention surveillance.

Addressing Vaccine Acceptance in Carceral Settings through Community Engagement (ADVANCE)

Principle Investigator (mPI): 2022-2026

1R01MD016853-01A1

Funding Level: \$2,395,216

**Description:** In partnership with currently and formerly incarcerated individuals and correctional leaders and staff, we aim to improve COVID-19 vaccine acceptance rates in corrections.

### **Completed:**

**COVID-19 Burial Site Surveillance to Measure Excess Mortality-Pakistan**

Principle Investigator: 2021-2024

Bill and Melinda Gates Foundation

Funding Level: \$1,099,535

**Description:** To use burial ground surveillance to accurately estimate excess mortality due to COVID-19.

**AFIX-OB: A Customizable Quality Improvement Intervention to Increase Maternal Vaccine Uptake**

Principal Investigator: 2019-2024

1U01IP001110-01 - NCIRD (CDC)

Funding Level: \$1,995,150

**Description:** A trial to evaluate AFIX-OB, a systematic, customizable model to deliver evidence-based quality improvement interventions to enhance maternal immunization delivery in the obstetric care setting.

**Building Vaccine Confidence Through Tailored Messaging Campaigns**

Principle Investigator: 2021-2023

Facebook “Omer” - GR112635

Funding Level: \$468,000

**Description:** To conduct randomized trials in 5 countries on social media messaging to increase COVID-19 and childhood vaccine coverage.

**Comprehensively Profiling Social Mixing Patterns in Workplace Settings to Model Pandemic Influenza Transmission**

Principle Investigator: 2019-2023

1U01CK000572-01-00 - CDC

Funding Level: \$698,955

**Description:** Collect and analyze contact data, in four large companies in the United States, to better parameterize infectious disease models, and thus assess the effectiveness of various workplace social distancing strategies in reducing or slowing the transmission of pandemic influenza.

**Comprehensively Profiling Social Mixing Patterns in Workplace Settings to Model Pandemic Influenza Transmission - Supplement HCW**

Principle Investigator: 2020-2023

1U01CK000572-01-00 - CDC

Funding Level: \$550,000

**Description:** We will collect and analyze contact data, in healthcare settings in the United States, to better parameterize infectious disease models, and thus assess the effectiveness of various healthcare workplace social distancing strategies in reducing or slowing the transmission of pandemic influenza.

The Broader Impact of Maternal Immunization in Sub-Saharan Africa and Asia: a multisite study in randomized clinical control trial cohorts (VoVRN)

Principle Investigator: 2019-2022

Bill and Melinda Gates Foundation/Value of Vaccines Research Network

Funding Level: \$631,132.15

Description: To evaluate the impact of maternal immunization on children's cognitive development and educational attainment in developing countries.

Vaccine hesitancy and erosion of herd immunity: harnessing big data to forecast disease re-emergence (via Georgetown)

Co-Investigator: 2019-2022

AWD7772899-GR206224 - National Institutes of Health

Funding Level: \$31,356

Support for the Vaccine Assessments and Interventions Digital Laboratory

Principle Investigator: 2021-2022

UNICEF

Funding Level: \$120,921

Description: The purpose is to contribute to the combined efforts of the Vaccination Assessment and Interventions Laboratory (VAIL) to identify and address online misinformation and information gaps related to Polio and Covid-19. Specifically, VAIL will focus on content development and training as well as research, testing, and evaluation of materials.

Impact of Eliminating Non-Medical Exemptions in California

Principal Investigator: 2016-2022

5R01AI125405 -NIAID (National Institutes of Health)

Funding Level: \$2,119,726

Description: To develop evidence base for the implementation of immunization exemption legislation at state and national levels.

Wastewater Surveillance for COVID-19

Principle Investigator: 2021-2022

PATH/BMGF

Funding Level: \$58,724

Description: The goals of this project are to provide technical assistance on sample collection for sewage surveillance of SARS CoV-2 to Aga Khan University, Pakistan; provide technical assistance to analytical methods including PCR for sewage surveillance of SARS-CoV-2 to Aga Khan University, Pakistan; provide input on analysis of sewage surveillance results and correlation with epidemiology of COVID-19 cases in Karachi; maintain communication and facilitate collaboration with project personnel at PATH and AKU; and contribute to annual reports, manuscripts, and presentations that stem from the proposed research tasks.

Behavioral Insights - Landscape and Technical Expertise

Principle Investigator: 2019-2022

Bill and Melinda Gates Foundation INV-001288

Funding Level: \$565,007

**Description:** This project aims to synthesize the evidence on what behavioral interventions we know work and what could work to increase equitable vaccine coverage in low- and middle-income countries. We will consider evidence from behavioral insights both inside the vaccine field and in other fields with the aim of being able to inform interventions at all levels of the vaccine delivery process.

**Community Based RSV Mortality study in Karachi, Pakistan.**

**Principal Investigator:** 2019-2021

**Bill and Melinda Gates Foundation (INV-003373)**

**Funding Level:** \$781,411.99

**Description:** To assess and analyze the burden and determinants of RSV mortality in infants in the urban areas of Karachi, Pakistan.

**TweenVax: A Comprehensive Practice-, Provider-, and Parent/Patient-Level Intervention to Improve Adolescent HPV Vaccination**

**Co-Investigator:** 2020-2021

**A316240 - National Institutes of Health (via Emory University)**

**Funding Level:** \$27,964

**Description:** The Yale University team will provide support and oversight to the formative phase data collection and analysis and reporting and will work with the full study team to revise and refine all study materials (e.g. SOPs, scripts, training modules) in preparation for the clinical trial phase.

**C&E Exemplars Research Partner: Vaccine Exemplars**

**Co-Investigator:** 2018-2020

**OPP1195041 - Bill and Melinda Gates Foundation**

**Funding Level:** \$1,500,000

**Description:** The goal of this project is to generate actionable recommendations to the Foundation, its partners, and to the global immunization sector on why and how some countries have succeeded in achieving significantly improved vaccine coverage rates.

**The Broader Impact of Maternal Immunization in Sub-Saharan Africa and Asia (VoVRN)**

**Principal Investigator:** 2018-2021

**Bill and Melinda Gates Foundation - Harvard School of Public Health**

**Funding Level:** \$700,000

**Description:** A multisite study in randomized clinical control trial Value of Vaccination Research Network (VoVRN)

**Ethical Considerations for a Single Dose HPV Vaccine Regimen**

**Principle Investigator:** 2019-2020

**Bill and Melinda Gates Foundation INV-003103**

**Funding Level:** \$100,000

**Description:** Outline ethical and policy considerations for differing HPV vaccine regimens in low- and middle-income countries versus high-income countries.

**A Comprehensive Pre-Natal Intervention to Increase Vaccine Coverage**

**Principal Investigator:** 2014-2019

**R01AI110482 - National Institutes of Health**

**Funding Level:** \$ 3,989,938

Description: A study to develop and evaluate an intervention to improve vaccination coverage for pregnant women and their children.

A Comprehensive Pre-Natal Intervention to Increase Vaccine Coverage (Minority Supplement)

R01AI110482-03S1 - National Institute of Health

Principal Investigator: 2017-2019

Funding Level: \$18,553

Description: Develop and evaluate a generalizable intervention package to improve maternal and childhood immunization coverage and to decrease vaccine hesitancy for infant vaccines.

Includes a Minority Supplement for Andrea Carcelen at Johns Hopkins University.

Survey to ACOG members regarding FDA labeling

Principle Investigator: 2018

The American College of Obstetricians and Gynecologists

Funding Level: \$25,000

Description: Evaluation of obstetricians' perceptions around FDA package inserts and how that relates to their counseling and perceptions of risk to their patients.

Efficacy and immunogenicity of Tdap immunization among pregnant women for preventing pertussis in early infancy.

Principal Investigator: 2014-2018

Thrasher Research Fund

Funding Level: \$478,285

Description: The study was a randomized, blinded, controlled, vaccine trial of maternal Tdap vaccination during the third trimester of pregnancy. The study will be conducted in Guatemala.

Centers for Disease Control Intergovernmental Personnel Agreement (IPA)

Principal Investigator: 2017-2018

18-IPA1812004 - Centers for Disease Control

Funding Level: \$30,076

Description: This funding was to support Dr. Omer's expertise with vaccination programs in developing countries.

Creating evidence base for determinants of maternal immunization acceptance.

Principal Investigator: 2015-2018

The Bill & Melinda Gates Foundation (OPP1120377)

Funding Level: \$998,300

Description: The goal of this project was to create an evidence base for determinants of maternal immunization acceptance to inform future maternal vaccine demand creation strategies.

Hepatitis B Vaccine Induced Immunity in Neonates

Principal Investigator: 2017-2018

U19 AI057266-14 -Pilot Grant - National Institutes of Health

Funding Level: \$25,000

Description: This pilot study compared the B- and T-cell immunity in neonates before and after routine hepatitis B immunization.



Global Infectious Disease Training Program

Principal Investigator: 2017-2018

5D43TW007585 - Aga Khan University

Funding Level: \$20,180

Description: To train pre- and post-doctoral fellows in Pakistan.

ReadyVax Expansion

ASPPH (U36 OE00002)

Co-Investigator 2016-2017

Funding level: \$475,360

Description: An applied research project evaluating the dissemination of vaccine related information to providers using technology systems. Specifically, the ReadyVax mobile app.

Randomized Intervention Trial to Evaluate a Vaccine Social Media Website

AHRQ

Co-Investigator: 2012-2017

Funding level: \$1,989,416

Description: A randomized intervention trial to evaluate a moderated vaccine-focused social media website to address vaccine refusal.

Evaluating the Public Health Impact of State Laws Exempting Children from Immunization and Developing a Revised Model Law for Nonmedical Exemptions.

Principal Investigator: 2014-2016

Robert Wood Johnson Foundation

Funding Level: \$149,111

Immunization Systems and Public Health Preparedness Project (Emory Preparedness and Emergency Response Research Center)

Project Lead: 2013-2015

Centers for Disease Control and Prevention

Funding Level: \$599,998

Description: This project is part of the on-going Preparedness and Emergency Response Research Center at Emory University. The specific project funded is to develop a mobile smartphone app to provide ready access to evidence-based information about vaccines.

Promoting Health Policy and Disease Prevention

Co-Investigator: 2011-2016

Centers for Disease Control and Prevention

Funding Level: \$100,000

Description: The goal of this project is to develop a list of assumptions and inputs that are necessary to perform an analysis for cost-effectiveness of zoster vaccine.

Systems Biological Analysis of Innate and Adaptive Responses to Vaccination

Co-Investigator: 2010-2015

National Institutes of Health

Funding Level: \$15,549,680

**Description:** The major goal of this project was to determine extent to which such a systems biology approach can be used to predict vaccine immunogenicity and can be used for identifying new correlates of protective immunity.

#### VSD White Paper on Studying the Safety of the Childhood Immunization Schedule

Co-Investigator: 2013-2014

Centers for Disease Control and Prevention

Funding Level: \$82,034

**Description:** The purpose of this project was to maintain the participation of subject matter experts in Vaccine Safety Datalink network.

#### Population Incidence of Narcolepsy in the United States

Principal Investigator: 2013-2014

Centers for Disease Control and Prevention

Funding Level: \$99,980

**Description:** The purpose of this project was to assess the incidence of narcolepsy in the United States within the Vaccine Safety Datalink network.

#### VSD SME Participation from Non-Infrastructure Sites

Principal Investigator: 2013-2014

Centers for Disease Control and Prevention

Funding Level: \$33,976

**Description:** The purpose of this project was to maintain the participation of subject matter experts in VSD sites.

#### Vaccine Safety Datalink (VSD) Project

Principal Investigator: 2012-2014

Centers for Disease Control and Prevention

**Funding Level:** The VSD Georgia project will be funded through an indefinite delivery/indefinite quantity (IDIQ) contract. Specific activities will be funded through task orders to be awarded to IDIQ contract holders.

**Description:** The purpose of this project was to conduct surveillance and follow-up studies of vaccine safety in a large and diverse population.

#### Infant Effects of Maternal Influenza Immunization: A Field Trial in Guatemala

Principal Investigator: 2010-2013

National Institutes of Health

Funding Level: \$230,253

**Description:** This planning grant helped us in preparing for the proposed randomized, double-blind, controlled, field trial in Guatemala. The primary goal of the eventual trial was to evaluate infant effects of maternal influenza immunization.

#### Innovative Strategies to Combat Vaccine Refusal in Minority Populations

Principal Investigator: 2012-2013

Kaiser Health Plan of Georgia, Community Benefits Program

Funding Level: \$100,000

**Description:** This project tested two vaccine education strategies during the prenatal period. The education strategies were based on the elaboration likelihood model (ELM).

Vaccine Safety Datalink in Children & Adults Enrolled in Kaiser Permanente Georgia

Principal Investigator: 2010-2012

Centers for Disease Control and Prevention/America's Health Insurance Plans

Funding Level: \$ 1,512,982

**Description:** The purpose of this project was to conduct surveillance and follow-up studies of vaccine safety in a large and diverse population.

An Evaluation of Vaccination Practices of Nursing Home Residents and Staff

Co-Investigator: 2010-2012

Centers for Disease Control and Prevention

Funding Level: 579,043

**Description:** The study will assess how nursing homes offer, deliver, and document the vaccination status and race of their residents. The vaccination attitudes and beliefs of nursing home staff will also be studied to learn if their vaccination practices have the potential to influence the nursing home residents they serve.

Message Framing Effects on Influenza Vaccination among Pregnant Minority Women

Principal Investigator (Multiple PI project with Paula Frew): 2011-2012

The Emory Preparedness and Emergency Response Center

Funding Level: \$20,000

**Description:** Tested “gain-framed” vs. “loss-framed” messages for promotion of influenza vaccination among racial and ethnic minority pregnant women.

Maternal, Fetal, and Infant Effects of Maternal Influenza Immunization in a Developed Country Population

Principal Investigator: 2010-2011

Kaiser Permanente

Funding Level: \$100,000

**Description:** This non-randomized, observational study will use administrative and public health data from Georgia (United States) to evaluate the impact of maternal influenza immunization on maternal and fetal outcomes including prematurity and birth weight.

Global Health Institute Faculty of Distinction Award

Principal Investigator/Awardee: 2008-2011

Emory University, Global Health Institute

Funding Level: \$270,000

**Description:** Development grant for conducting pilot studies and preparatory and professional development activities.

Identifying Geographical Areas with High Risk of Refusing Interventions for Infectious Agent Related Public Health Emergencies

Principal Investigator: 2008-2009

Centers for Disease Control and Prevention

Funding Level: \$99,975

**Description:** Develop and validate a geographical clustering statistic to identify areas of high risk for refusal of pharmaceutical intervention in an infectious disease emergency.

#### Knowledge, Attitudes and Practices of Providers Regarding Immunization in India

Co-principal Investigator: 2009–2010

Bill and Melinda Gates Foundation

Total Award Amount: \$699,831

**Description:** Assess knowledge, attitudes, and practices (KAPs) of vaccine providers in India to identify the most significant barriers to achieving high immunization rates and to assess the impact of polio campaigns on routine immunization efforts.

#### Karachi Invasive Pneumococcal Disease Surveillance Project

Co-Investigator: 2008-2010

Program for Appropriate Technology in Health (PATH)

Funding Level: \$1,274,000

**Description:** Established a field site for conducting effectiveness or efficacy trials of vaccines for the prevention of *S. pneumoniae* infections.

#### Genetic Polymorphisms and Hypersensitivity Reactions to Vaccines

Co-Investigator: 2008-2009

Centers for Disease Control and Prevention

Funding Level: \$1,433,000

**Description:** Determine if specific genes marked by single nucleotide polymorphisms (SNPs) are associated with immediate hypersensitivity reactions following vaccines.

#### Evaluation of Parents Claiming Exemptions to School Entry Immunization Requirements

Co-Investigator: 2004-2006

Centers for Disease Control and Prevention

Funding Level: \$400,000

**Description:** Characterize vaccine acceptance-related attitudes among parents, providers, and school personnel. Evaluate trends in exemption rates and vaccine refusal.

#### Activity Based Costing of Adverse Events Capturing and Reporting in an International HIV Clinical Trial

Co-Principal Investigator: 2005-2006

HIV Prevention Trials Network/Family Health International

Funding Level: \$72,000

**Description:** Estimated the cost of identification, reporting, treatment, and follow-up of adverse events in a perinatal HIV clinical trial in a developing country setting and to establish the relative cost for components of the adverse event reporting and management system.

#### Pneumo ADIP AFSD Phase 1b

Co-Investigator: 2006-2007

Pneumo ADIP

Funding Level: \$260,000

**Description:** Field site development for a pneumococcal vaccine trial.

#### Pneumo ADIP AFSD Phase 1

Co-Investigator: 2005

Pneumo ADIP

Funding Level: \$358,000

Description: Field site development for a pneumococcal vaccine trial.

Measles in Pakistan

Co-Investigator: 2001-2006

Bill & Melinda Gates Foundation

Funding Level: \$250,000

Description: Estimate the incidence of measles in Karachi, Pakistan; to determine what proportion of clinically diagnosed cases are confirmed serologically for measles or dengue; and to calculate the positive predictive value of IMCI case definition for measles.

### **ACADEMIC SERVICE**

2024-Present UT Southwestern Six Year Plan Research Subcommittee

2024-Present UT Southwestern President's Council on Institutional Opportunity

2023-Present UT Southwestern Internal Advisory Board of the Simmons Comprehensive Cancer Center

2020-2023 Yale COVID-19 Public Health Committee

2020-2023 Yale Field Work Committee

2020-2023 Yale Public Health Subcommittee-Residential Life Planning

2020-2023 Yale School of Medicine Strategic Planning in Health Equity

2020-2023 Yale Provost Advisory Committee on Global Strategy

2018-2019 Emory University, Co-Chair Steering Committee for the Implementation of the Class and Labor 2, Working Group on Faculty Recruitment & Retention

2017-2019 Emory University, Rollins School of Public Health Research Appointments Promotions Committee

2016-2017 Emory University, Research Administrative Services (RAS) Task Force.

2014-2014 Emory University, Rollins School of Public Health Research Computing Work Group

2011-2013 Emory University, Rollins School of Public Health Faculty Council

2009-2014 Emory University, Rollins School of Public Health, Hubert Department of Global Health Admissions Committee

2002-2004 Johns Hopkins Bloomberg School of Public Health, Department of International Health Committee for Information Technology

1995-1996 Member, Dean's Advisory Committee, The Aga Khan University

### **PROFESSIONAL MEMBERSHIPS**

Member, Asian Society

Member, Infectious Diseases Society of America (IDSA)

Member, National Academy of Medicine (NAM)

Member, Pediatric Infectious Diseases Society (PIDS)