

AMYN ABDUL MALIK (JUMA), MBBS, MPH, PhD

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EDUCATION

PhD	Emory University Rollins School of Public Health, Atlanta, GA, USA Discipline: Epidemiology Award: Full School/Departmental Funding GPA: 3.98	Dec 2019
MPH	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA Concentration: Health Leadership & Management Award: Fulbright Scholarship; The Reed Frost Scholarship; Delta Omega Honorary Society in Public Health inductee GPA: 4.0	May 2013
MBBS	Aga Khan University, Karachi, Pakistan GPA (WES Evaluation): 3.67	Mar 2010

PROFESSIONAL AND RESEARCH EXPERIENCE

O'Donnell School of Public Health, UT Southwestern Medical Center, **Jan 2024 – present**
Dallas, TX, USA
Position: Assistant Professor (Epidemiology)

Analysis Group (AG), Boston, MA, USA **May 2022 – Feb 2024**
Position: Associate
Responsibilities: Developing research proposals for prospective clients; *developing, designing, and conducting research studies to address clients' needs using multiple data sources including clinical trials data, real world data, claims data and registries; performing and presenting complex quantitative and qualitative research; preparing project deliverables and publications in peer-reviewed literature; collaborating on authorship of research publications; coordinating multiple work-streams or analyses within a case team, including both the work product and the team members involved in it.*

Yale University, New Haven, CT, USA

Jan 2020 – May 2022

- **Yale Institute for Global Health**

Position: *Postdoctoral Associate*

Responsibilities: *Coordination of research efforts between different research sites, nationally and internationally; drafting grant proposals and protocols; study/program design; data-analysis; primary and/or secondary authorship of original research manuscripts; mentoring of predoctoral researchers.*

Global Health Directorate (GHD), Indus Hospital and Health Network, Karachi, Pakistan.

Jul 2016 – Jun 2021

(Maintained an Associate position with GHD from Apr 2020 to Jun 2021)

- **Infection treatment in Tuberculosis-exposed households: An operational research study (Zero-TB Cities)**

Funded by: *The Global Fund*

Grant amount: *USD 500,000*

Position: *Co-PI*

Responsibilities: *Help develop study proposal & protocol, budget, forms and IRB application. Providing technical support for implementation and monitoring.*

Oct 2016 – Apr 2020

- **Screening and treatment of children and adults exposed at home to Drug-Resistant Tuberculosis**

Funded by: *Harvard Medical School – Global Centre for Health Delivery – Dubai*

Grant amount: *USD 363,994*

Position: *Co-PI and Program Manager*

Responsibilities: *Help develop study protocol, forms and IRB application. Implementing and monitoring the program as per approved protocol and to report to the donor as per the monitoring and evaluation framework. Managing project budget, reviewing financial summaries and submission of financial reports to donor.*

Jul 2016 – Dec 2019
(was under TIH from
Apr 2016 – Jun 2016)

The Indus Hospital, Karachi, Pakistan.

Jun 2013 – Jun 2016

- **TB REACH Wave 4: Mass screening to combat childhood TB under-diagnosis in rural Sindh**

Funded by: *TB REACH*

Grant amount: *USD 315,962*

Position: *Program Manager and Co-PI Operational Research Study; Previously Program Coordinator*

Responsibilities: *Designing, implementing and monitoring the case finding methodology and to report to the Provincial/National TB Program and the TB REACH Secretariat as per the monitoring and evaluation framework.*

Sep 2014 – Mar 2016

- **DR TB Program** **Jul 2014 – Jul 2015**
 Funded by: *The Global Fund*
 Position: *Program Expert - Clinical*
 Responsibilities: *Managing and analyzing data, ensuring that correct clinical and programmatic guidelines (NTP & WHO) are followed for patient management and reporting to Provincial/National TB Program.*

- **Pediatric TB Program, Indus Hospital** **Jun 2013 – Sep 2014**
 Position: *Program Manager*
 Responsibilities: *Managing and analyzing data of the pediatric TB program to generate reports and provide feedback on the program and patient management.*

- **eIMCI Implementation, Indus Hospital** **Jun 2013 – Jul 2014**
 Funded by: *The HBL Foundation*
 Grant amount: *PKR 5,000,000*
 Position: *Program Manager*
 Responsibilities: *Designing, adaptation and implementation of the eIMCI algorithms, daily management of the project affairs, data management, analysis, monitoring and evaluation.*

- Interactive Research & Development (IRD), Karachi, Pakistan.** **Sep 2010 – present**
 (Currently an Associate with IRD)

- **TB REACH Wave 3: Mass Screening for Increased TB Case Detection and Treatment in the Private Sector - A Social Enterprise Model for GeneXpert MTB/RIF Scale-up in Pakistan** **Jun 2013 – Sep 2014**
 Funded by: *TB REACH & UNITAID*
 Position: *Program Manager Public Private Mix Strategy*
 Responsibilities: *Liaising with the Provincial TB Program (PTP) and public and private sites to implement Xpert MTB/RIF testing for diagnosis, monitoring the use of Xpert MTB/RIF testing at the public sector sites, and monitoring and reporting the cases found at the new Centres established under the project.*

- **CHAI TB Market Intelligence – Pakistan** **Feb 2014 – Jun 2014**
 Funded by: *Clinton Health Access Initiative, Inc. (CHAI)*
 Grant amount: *USD 21,568*
 Position: *Project Manager*
 Responsibilities: *Policy research on regulatory approval pathway for drugs and diagnostics, stakeholder engagement, data collection and analysis of diagnostic tests and costs and report writing.*

- Rapid Assessment of Pediatric Drug Market** **Aug 2013 – Sep 2013**
 Funded by: *TB Alliance*
 Grant amount: *USD 19,600*
 Position: *Field Manager*
 Responsibilities: *Data collection and analysis of pediatric TB cases seen in the public and private sectors by doctors and diagnostic tests ordered at different laboratories to estimate the burden of pediatric TB and under-reporting of cases and report writing.*
- TB REACH Wave 2: Improving diagnosis, reporting and treatment of TB through engaging private laboratories in Karachi and Dhaka** **Sep 2011 – May 2012**
 Funded by: *TB REACH*
 Position: *Health Worker Supervisor and Laboratory Coordinator*
 Responsibilities: *Developing training modules and training project health workers, developing and monitoring the use of screening algorithms, and monitoring treatment initiation, advertising and public communications and supervising mapping of the TB patients.*
- Indus Hospital Community Cohort (IHCC)** **Sep 2010 – Sep 2011**
 Funded by: *Association of Pakistani Descent Cardiologists of North America (APCNA) and Royal Institute of Nephrology*
 Position: *Mobile Health Unit Supervisor and Clinical Coordinator*
 Responsibilities: *Design questionnaire, supervise collection of clinical data and manage patient flow and coordinate clinical specialty referral for patients.*

HONORS AND AWARDS

Delta Omega Honorary Society in Public Health inductee	2013
Fulbright Master's Scholarship	2012
The Reed Frost Scholarship (JHSPH)	2012

TEACHING EXPERIENCE

Georgina State University School of Public Health <i>Atlanta, GA, USA</i>	Aug 2023 – Dec 2023
<ul style="list-style-type: none"> Infectious Disease Epidemiology (PH 7280) Position: <i>Primary Instructor</i> 	Aug 2023 – Dec 2023

Responsibilities: *Designing course material and evaluation/homework/exams for the class; grading assignments and exams. Administrative responsibilities*

Yale School of Public Health,
New Haven, CT, USA.

Jan 2022 – May 2022

- **Vaccine and Vaccine Preventable Diseases (EMD 546)**

Position: *Instructional and Evaluation Designer*

Responsibilities: *Designing course material and evaluation/homework/exams for the class in consultation with the course instructors; grading assignments and exams. Administrative responsibilities*

Jan 2022 – May 2022

Emory University Rollins School of Public Health,
Atlanta, GA, USA.

Aug 2015 – Dec 2019

- **Epidemiological Modeling (EPI 740)**

Position: *Teaching Assistant*

Responsibilities: *Explaining concepts taught by the instructor to the students during labs and office hours and grading assignments & exams. Administrative responsibilities*

Aug 2019 – Dec 2019

- **Epidemiological Modeling (AEPI 536D)**

Position: *Teaching Assistant*

Responsibilities: *Explaining concepts taught by the instructor to the students, grading assignments & exams.*

May 2019 – Aug 2019

- **Analytic Methods for Clinical Research II (MSCR 534)**

Position: *Teaching Assistant*

Responsibilities: *Explaining concepts taught by the instructor to the students during office hours, grading assignments & conducting lab sessions. Administrative responsibilities*

Jan 2019 – May 2019

- **Field Trials and Intervention Studies (GH 544)**

Position: *Teaching Assistant*

Responsibilities: *Explaining concepts taught by the instructor to the students during office hours, grading assignments and substituting as lecturer when instructor not present. Administrative responsibilities*

Aug 2018 – Dec 2018

- **Epidemiology of TB (EPI 542/GH 562)**

Position: *Teaching Assistant*

Jan 2018 – Mar 2018

Responsibilities: *Explaining concepts taught by the instructor to the students during office hours and grading assignments.*
Administrative responsibilities

- **Applications of Epidemiologic Concepts (EPI 591U)** **Jan 2017 – May 2017**
Position: *Teaching Assistant*
Responsibilities: *Explaining concepts taught by the instructor to the students during labs and office hours and grading assignments & exams. Administrative responsibilities*
- **Analytic Methods for Clinical Research I (MSCR 530)** **Aug 2016 – Dec 2016**
Aug 2017 – Dec 2017
Position: *Teaching Assistant*
Responsibilities: *Explaining concepts taught by the instructor to the students during office hours and grading assignments & exams. Administrative responsibilities*
- **Epidemiologic Methods II (EPI 534)** **Jan 2016 – May 2016**
Position: *Teaching Assistant*
Responsibilities: *Leading laboratory sessions, further explaining concepts taught by the instructors to the students during labs and office hours and grading assignments & exams*
- **Epidemiologic Methods I (EPI 530)** **Aug 2015 – Dec 2015**
Position: *Teaching Assistant*
Responsibilities: *Leading laboratory sessions, further explaining concepts taught by the instructors to the students during labs and office hours and grading assignments & exams*

EDITORIAL ACTIVITIES

Editor

Journal of Pioneering Medical Sciences (JPMS)
AKU-NAMA

Feb 2011 – Aug 2016
Sep 2013 – Dec 2015

Associate Editor

Preventing Chronic Disease

Apr 2022 – present

Peer Reviewer

Vaccine
PLOS One
Annals of Epidemiology
Public Health Action
BMC Infectious Diseases
BMC Medicine
Risk Management and Healthcare Policy

Frontiers Psychology
International Journal of Tuberculosis and Lung Disease
BMJ Open
American Journal of Preventive Medicine
Nature Communications
Preventing Chronic Disease
International Journal of Infectious Diseases
Open Forum Infectious Diseases

LEADERSHIP EXPERIENCE

Secretary, Yale Postdoctoral Association	Feb 2020 – Dec 2020
Graduate Student Alumni Board (GSAB), Emory University	Sep 2015 – Dec 2019
Secretary, AKU Medical College Alumni Association – Pakistan, Middle East, Asia-Pacific Chapter	Aug 2013 – Dec 2015
Volunteer, Aga Khan Youth & Sports Board for Pakistan	Jun 2013 – Aug 2015
Group Secretary, Darkhana Scouts Group (DSG)	Apr 2012 – Aug 2015
Scout Leader, Darkhana Boy Scouts Unit (DBSU) <ul style="list-style-type: none">• DBSU is one of the oldest boy scouts troop in Karachi, Pakistan• Member since 1993; Asst Scout Leader from Feb 2009 to Jan 2014	Jan 2014 – Aug 2015
Secretary, Health Network for Asia-Pacific (HNAP) <ul style="list-style-type: none">• HNAP is a student group at Johns Hopkins promoting the diversity of the region and bringing to focus its health problems	Aug 2012 – Jun 2013
Member, Aga Khan Health Board for Garden	Dec 2011- Jun 2012

INVITED PRESENTATIONS/PODCASTS

1. **Malik AA.** Preventive treatment for persons exposed at home to drug-sensitive and drug-resistant tuberculosis (webinar). TB GAPS iECHO Hub, Baylor College of Medicine. 2023 Nov 30. <https://www.bcm.edu/departments/pediatrics/divisions-and-centers/global-and-immigrant-health/global-tb-program/research/tb-gaps>
2. **Malik AA.** Preventive Therapy for At-Home Exposure to Drug-Resistant TB, Pakistan (podcast). Emerging Infectious Diseases. 2021 Mar 12. <https://go.usa.gov/xsyNx>
3. Jaswal M, **Malik A**, Hussain H. Preventive treatment for persons exposed at home to drug-resistant and drug-susceptible tuberculosis: Pakistan at the vanguard. Building Our Toolkit for TB Elimination, Webinar 1. Center for Global Health Delivery, Harvard Medical School. 2021 Mar 22. <https://ghdcenter.hms.harvard.edu/building-our-toolkit-tb-elim>

PUBLICATIONS (reverse chronological)

Research Investigations/Original Reports

1. White YN, Solans BP, Denti P, van der Laan LE, Schaaf HS, Vonasek B, **Malik AA**, Draper HR, Hussain H, Hesselning AC, Garcia-Prats AJ, Savic RM. Pharmacokinetics and optimal dosing of levofloxacin in children for drug-resistant tuberculosis: an individual patient data meta-analysis. Clin Infect Dis 2024; ciae024. doi: 10.1093/cid/ciae024
2. Jaswal M, Farooq S, Hussain H, Shah J, Khalil A, Nasir K, Khan H, Safdar N, **Malik AA***, McQuaid CF*. TB disease yield from household contact screening of tuberculosis index patients in Karachi, Pakistan. Int J Tuberc Lung Dis 2024. (accepted)
**joint senior author*
3. **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
4. Winters M, Christie S, Lepage C, **Malik AA**, Bokemper S, Surangani S, ...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
5. Klein J, Wood J, Jaycox J, Lu P, Dhodapkar RM, Gehlhausen JR, Tabachnikova A, Tabacof L, **Malik AA**, ...Omer SB, 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
6. Ansari N, Furqan, Khan W, Khalid F, **Malik AA**, Warren JL, Mehmood U, Kazi M, 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 SARS-CoV-2 in Karachi: Correlating Sewage SARS-CoV-2 RNA Concentration and Reported Incidence of COVID-19 from a Large Urban District. Lancet Reg Health Southeast Asia 2023. doi:10.1016/j.lansea.2023.100299
7. Sarwar F*, **Malik AA***, Malik AA*. Presence of Mediastinal Lymphadenopathy in Hospitalized Covid-19 Patients in a Tertiary Care Hospital in Pakistan – A cross-sectional study. PLOS One. 2023 May 25;18(5):e0265865. doi: 10.1371/journal.pone.0265865
**joint first author*
8. 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 May 9;41(25):3683–7. doi: 10.1016/j.vaccine.2023.05.017
9. Brooks MB, Hussain H, Siddiqui S, Ahmed JF, Jaswal M, Amanullah F, Becerra MC, **Malik AA**. Two clinical prediction tools to inform rapid tuberculosis treatment decision-making in children. Open Forum Infect Dis. 2023;ofad245. doi: 10.1093/ofid/ofad245
10. Hussain H, Jaswal M, Farooq S, Safdar N, Madhani F, Noorani S, Shahbaz SS, Salahuddin N, Amanullah F, Khowaja S, Manzar S, Shah JA, Islam Z, Dahri AA, Shahzad M, Keshavjee S, Becerra MC, Khan AJ, **Malik AA**. Scale up of rifapentine-isoniazid (3HP) for tuberculosis prevention amongst household contacts in two urban centers: An effectiveness assessment. Clin Infect Dis. 2023 Apr 21:ciad245. doi: 10.1093/cid/ciad245.

11. Siddique M, Iftikhar S, Siddiqi DA, Dharma VK, Shah MT, **Malik AA***, Chandir S*. Using Geographic Information System to track children and optimize immunization coverage and equity in Karachi, Pakistan. *Vaccine*. 2023 May 2;41(18):2922-2931. doi: 10.1016/j.vaccine.2023.03.051
**joint senior author*
12. Filardi BA, Monteiro VS, Schwartzmann PV, do Prado Martins V, Zucca LER, Baiocchi GC, **Malik AA**, Silva J, Hahn AM... 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.
13. Nisar MI, Ansari N, **Malik AA**, Shahid S, Lalani KRA, Chandna MA, Younus AM, Hasan Z, Khan U, Khalid F, Mahesar M, Qazi MF, Yildirim I, Jehan F, Omer SB. Assessing the effectiveness of COVID-19 vaccines in Pakistan: a test-negative case-control study. *J Infect*. 2023 Jan 25;S0163-4453(23)00021-X. doi: 10.1016/j.jinf.2023.01.016.
14. 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 Feb 3:1–12. doi: 10.1007/s44197-023-00086-4.
15. **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.
16. **Malik AA**, Khan U, Khan P, Anwar A, Salahuddin N, Khowaja S, Khan AJ, Khan S, Hussain H, Amanullah F. Drug-resistant tuberculosis treatment outcomes among children and adolescents in Karachi, Pakistan. *Trop Med Infect Dis*. 2022 Dec 6;7(12):418. doi: 10.3390/tropicalmed7120418.
17. **Malik AA**, Jaswal M, Siddiqui S, Amanullah F, Hussain H. Role of symptom and chest x-ray screening in evaluating child household contacts for pulmonary tuberculosis. *Int J Tuberc Lung Dis*. 2023 Mar 1;27(3):235-236. doi: 10.5588/ijtld.22.0528.
18. Winters, MS*, **Malik, AA***, Omer, SB. Attitudes of the US general public towards Monkeypox *PLOS One*. 2022 Dec 1;17(12):e0278622. doi: 10.1371/journal.pone.0278622.
**joint first author*
19. Rahman MT, **Malik AA**, Amanullah F, Creswell J. Improving Tuberculosis Case Detection in Children: Summary of Innovations and Findings From 18 Countries. *J Pediatric Infect Dis Soc*. 2022 Oct 31;11(Supplement_3):S117-S124. doi: 10.1093/jpids/piac093.
20. Cranmer LM, Njuguna IN, LaCourse SM, Figueroa J, Gillespie S, Maleche-Obimbo E, Otieno V, Mugo C, Okinyi H, Benki-Nugent S, Pavlinac PB, **Malik AA**, Gandhi NR, Richardson BA, Stern J, Wamalwa DC, John-Stewart GC. Performance of Tuberculosis symptom screening among hospitalized ART-naïve Children with HIV in Kenya. *J Acquir Immune Defic Syndr*. 2022 Sep 26. doi: 10.1097/QAI.0000000000003060.

21. 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 Oct;19(5):328-343. doi: 10.1007/s11904-022-00622-0.
22. Elharake JA, Shafiq M, Cobanoglu A, **Malik AA**, Klotz M, Humphries JE, Murray TS, Patel KA, Wilkinson D, Yildirim I, Diaz R. Prevalence of Chronic Diseases, Depression, and Stress among US Child Care Professionals during the COVID-19 Pandemic. *Prev Chronic Dis.* 2022 Sep 22;19:E61. doi: 10.5888/pcd19.220132.
23. **Malik AA**, Shumail S, Jaswal M, Farooq S, Maniar R, Khowaja S, Safdar N, Khan AJ, Hussain H. Use of 3HP as tuberculosis preventive treatment in prisons in Pakistan. *Int J Tuberc Lung Dis.* 2022 Sep 1;26(9):894-896. doi: 10.5588/ijtld.22.0163.
24. Amanullah F*, **Malik AA***, Zaidi Z. Chronic kidney disease causes and outcomes in children: perspective from a LMIC setting. *PLOS One.* 2022 Jun 8;17(6):e0269632. doi: 10.1371/journal.pone.0269632.
**Joint First Author*
25. Patel KM, Shafiq M, **Malik AA**, Cobanoglu A, Klotz M, Eric Humphries J, Lee A, Murray T, Wilkinson D, Yildirim I, Elharake JA, Diaz R, Rojas R, Kuperwajs Cohen A, Omer SB, Gilliam WS. Relationship between the use of nonpharmaceutical interventions and COVID-19 vaccination among U.S. child care providers: A prospective cohort study. *Vaccine.* 2022 Jul 29;40(31):4098-4104. doi: 10.1016/j.vaccine.2022.05.064.
26. Hilal K, Khandwala K, Sajjad N, Kaleemi R, **Malik AA**, Mohsin S, Ibrahim SH. Paediatric posterior reversible encephalopathy syndrome: is there an association of blood pressure with imaging severity and atypical magnetic resonance characteristics? *Pediatr Radiol.* 2022 Jun 20. doi: 10.1007/s00247-022-05400-z.
27. Dubois MM, Brooks MB, **Malik AA**, Siddiqui S, Ahmed JF, Jaswal M, Amanullah F, Becerra MC, Hussain H. Age-specific clinical presentation and risk factors for extrapulmonary tuberculosis disease in children. *Pediatr Infect Dis J.* 2022. doi: 10.1097/INF.0000000000003584
28. **Malik AA**, Siddique M, Chandir S, Jaswal M, Siddiqui S, Fuad J, Khan AJ, Amanullah F, Hussain H. Travel reimbursements, distance to facility, and preventive treatment cascade for DR-TB exposure in Pakistan. *Int J Tuberc Lung Dis.* 2022 Aug 1;26(8):789-791. doi: 10.5588/ijtld.22.0204.
29. McCullough LE, Maliniak ML, Amin AB, Baker JM, Baliashvili D, Barberio J, Barrera CM, Brown CA, Collin LJ, Freedman AA, Gibbs DC, Haddad MB, Hall EW, Hamid S, Harrington KRV, Holleman AM, Kaufman JA, Khan MA, Labgold K, Lee VC, **Malik AA**...Vyas KJ, Lash TL. *Epidemiology Beyond its Limits.* *Sci Adv.* 2022 Jun;8(23):eabn3328. DOI: 10.1126/sciadv.abn3328.
30. Jaswal M, Farooq S, Madhani F, Noorani S, Salahuddin N, Amanullah F, Khowaja S, Safdar N, Khan A, Yuen C, Keshavjee S, Becerra M, Hussain H, **Malik AA**. Implementing 3HP vs. IPT as TB preventive treatment in Pakistan. *Int J Tuberc Lung Dis.* 2022 Aug 1;26(8):741-746. doi: 10.5588/ijtld.21.0676.
31. Brooks MB, Dubois M, **Malik AA**, Ahmed JF, Siddiqui S, Khan S, Brohi M, Das T, Amanullah F, Becerra MC, Hussain H. Age-specific effectiveness of a tuberculosis screening intervention in children. *PLOS One.* 2022 Feb 18;17(2):e0264216. doi: 10.1371/journal.pone.0264216.
32. Murray TS*, **Malik AA***, Shafiq M, Lee A, Harris C, Klotz M, Humphries JE, Patel KM, Wilkinson D, Yildirim I, Elharake JA, Diaz R, Reyes C, Omer SB, Gilliam WS. Association of Child Masking With COVID-

19-Related Closures in US Childcare Programs. *JAMA Netw Open*. 2022 Jan 4;5(1):e2141227. doi: 10.1001/jamanetworkopen.2021.41227.

**Joint First Author*

33. Pérez-Then E, Lucas C, Monteiro VS, Miric M, Brache V, Cochon L, Vogels CBF, **Malik AA**, De la Cruz E, Jorge A, De Los Santos M, Leon P, Breban MI, Billig K, Yildirim I, Pearson C, Downing R, Gagnon E, Muyombwe A, Razeq J, Campbell M, Ko AI, Omer SB, Grubaugh ND, Vermund SH, Iwasaki A. Neutralizing antibodies against the SARS-CoV-2 Delta and Omicron variants following heterologous CoronaVac plus BNT162b2 booster vaccination. *Nat Med*. 2022 Jan 20. doi: 10.1038/s41591-022-01705-6.
34. **Malik AA**, Hussain H, Maniar R, Safdar N, Mohiuddin A, Riaz N, Pasha A, Khan S, Kazmi S, Kazmi E, Khowaja S. Integrated Tuberculosis and COVID-19 Activities in Karachi and Tuberculosis Case Notifications. *Trop Med Infect Dis*. 2022, 7, 12. doi:10.3390/tropicalmed7010012
 - a. Correction: Malik et al. Integrated Tuberculosis and COVID-19 Activities in Karachi and Tuberculosis Case Notifications. *TropicalMed* 2022, 7, 12
35. Elharake JA, Akbar F, **Malik AA**, Gilliam W, Omer SB. Mental Health Impact of COVID-19 among Children and College Students: A Systematic Review. *Child Psychiatry Hum Dev*. 2022 Jan 11:1–13. doi: 10.1007/s10578-021-01297-1.
36. Willebrand KS, Pischel L, **Malik AA**, Jenness SM, Omer SB. A review of COVID-19 transmission dynamics and clinical outcomes on cruise ships worldwide, January to October 2020. *Euro Surveill*. 2022 Jan;27(1). doi: 10.2807/1560-7917.ES.2022.27.1.2002113.
37. Bokemper SE, Cucciniello M, Rotesi T, Pin P, **Malik AA**, Willebrand K, Paintsil EE, Omer SB, Huber GA, Melegaro A. Experimental evidence that changing beliefs about mask efficacy and social norms increase mask wearing for COVID-19 risk reduction: Results from the United States and Italy. *PLOS ONE* 16(10): e0258282. doi:10.1371/journal.pone.0258282
38. Hussain H, **Malik AA**, Ahmed JF, Siddiqui S, Amanullah F, Creswell J, Tylleskar T, Robberstad B. Cost-effectiveness of Household Contact Investigation for detection of Tuberculosis in Pakistan. *BMJ Open*. 2021;11:e049658. doi: 10.1136/bmjopen-2021-049658
39. AlKetbi LMB, Elharake JA, Memari SA, Mazrouei SA, Shehhi BA, **Malik AA**, McFadden SM, Galal B, Yildirim I, Khoshnood K, Omer SB, Memish ZA, AlZarouni AA, AlNeyadi AM, Hosani FA. COVID-19 Vaccine Acceptance among Health Care Workers in the United Arab Emirates. *IJID Regions*. 2021. doi: 10.1016/j.ijregi.2021.08.003
40. Patel KM, **Malik AA**, Lee A, Klotz M, Humphries JE, Murray T, Wilkinson D, Shafiq M, Yildirim I, Elharake JA, Diaz R, Reyes C, Omer SB, Gilliam WS. COVID-19 Vaccine Uptake Among US Child Care Providers. *Pediatrics*. 2021 Aug 27:e2021053813. doi: 10.1542/peds.2021-053813.
41. Rotesi T, Pin P, Cucciniello M, **Malik AA**, Paintsil EE, Bokemper SE, Willebrand K, Huber GA, Melegaro A, Omer SB. National interest may require distributing COVID-19 vaccines to other countries. *Sci Rep*. 2021;11:18253. doi:10.1038/s41598-021-97544-5
42. Jenness SM, Willebrand KS, **Malik AA**, Lopman BA, Omer SB. Modeling Dynamic Network Strategies for SARS-CoV-2 Control on a Cruise Ship. *Epidemics*. 2021 Aug 18;100488. doi: 10.1016/j.epidem.2021.100488
43. Cai Y, Kim DJ, Takahashi T, Broadhurst DI, Yan H, Ma S, Rattray NJW, Casanovas-Massana A, Israelow B, Klein J, Lucas C, Mao T, Moore AJ, Muenker CM, Silva J, Wong P, **Yale IMPACT Research team**, Ko

AJ, Khan SA, Iwasaki A, Johnson CH. Kynurenic acid may underlie sex-specific immune responses to COVID-19. *Sci Signal*. 2021 Jul 6;690(14): eabf8483. doi: 10.1126/scisignal.abf8483

**Part of Yale IMPACT research team*

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**Joint First Author*
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ABSTRACTS/RESEARCH PRESENTATIONS (reverse chronological)

1. Jaswal MR, Hussain H, Khowaja S, Khan AJ, **Malik AA**. Poster – Comparing effectiveness of TB screening methods for diagnosing TB disease among household contacts in Karachi, Pakistan. 54th Union World Conference on Lung Health; Paris, France, 15-18 November 2023.
2. White Y, Solans BP, Schaaf HS, van der Laan L, **Malik A**, Draper H, Hussain H, Hesselting AC, Garcia-Prats AJ, Savic RM. Oral – Pharmacokinetics and optimal dosing of levofloxacin in children for drug-resistant tuberculosis: an individual patient data meta-analysis. 54th Union World Conference on Lung Health; Paris, France, 15-18 November 2023.
3. Jaswal MR, Hussain H, Farooq S, Shah J, Islam Z, Manzar S, Maniar R, Siddiqui S, Safdar N, Khowaja S, Khan A, **Malik A**. Oral – TB prevention treatment coverage at fixed health facilities and community settings in Pakistan. 54th Union World Conference on Lung Health; Paris, France, 15-18 November 2023.
4. Kulkarni S, **Malik A**, Rahman M, Hossain F, Becerra M, Kamrul K, Rahman K, Roy T, Hussain H, Brooks M. Oral – Comparison of treatment-decision algorithms for children evaluated for tuberculosis in Bangladesh. 54th Union World Conference on Lung Health; Paris, France, 15-18 November 2023.

5. **Amy A. Malik**, Maria Jaswal, Saira Farooq, Nauman Safdar, Aamir J, Khan, Salmaan Keshavjee, Mercedes C. Becerra, Hamidah Hussain. Recorded Poster – TB preventive treatment (TPT) for drug susceptible TB patients in Landhi and Korangi Towns in Karachi, Pakistan. End TB Conference 2021; 25-27 February 2021.
6. Meredith B. Brooks, **Amy A. Malik**, Salman Khan, Junaid F. Ahmed, Sara Siddiqui, Maria Jaswal, Farhana Amanullah, Mercedes C. Becerra, Hamidah Hussain. Oral – Predictors of poor tuberculosis treatment outcomes in children in Pakistan. 51st Union World Conference on Lung Health; 20-24 October 2020.
7. Cranmer LM, **Malik A**, Njuguna I, LaCourse S, Otieno V, Maleche-Obimbo E, Wamalwa D, John-Stewart GC. Poster – TB Immune reconstitution syndrome in hospitalized HIV-infected children starting ART. 49th Union World Conference on Lung Health; The Hague, Netherlands, 24-27 October 2018.
8. Cranmer LM, **Malik A**, Njuguna I, LaCourse SM, Pavlinac P, Maleche-Obimbo E, Wamalwa D, John-Stewart GC. Oral – Virologic outcomes among Kenyan children receiving cART and TB therapy. 49th Union World Conference on Lung Health; The Hague, Netherlands, 24-27 October 2018.
9. Sara Siddiqui, Junaid Fuad, **Amy Abdul Malik**, Saira Bano, Saira Farooq, Meredith Brooks, Mercedes Becerra, Hamidah Hussain. Poster – Genotyping of drug-resistant tuberculosis strains for isoniazid resistance using first-line line probe assay in Karachi, Pakistan. 49th Union World Conference on Lung Health; The Hague, Netherlands, 24-27 October 2018.
10. Maria Jaswal, **Amy Abdul Malik**, Falak Madhani, Shella Noorani, Saira Farooq, Nauman Safdar, Aamir Khan, Hamidah Hussain. Oral Presentation – Contact management of drug-susceptible TB patients in Landhi and Korangi towns in Karachi, Pakistan. 49th Union World Conference on Lung Health; The Hague, Netherlands, 24-27 October 2018.
11. Farhana Amanullah, Naseem Salahuddin, Ahsana Nazish, Khujista Asif, **Amy Abdul Malik**, Junaid Fuad, Meherunisa Hamid, Aamir Khan. Poster – Drug-resistant tuberculosis in children and adolescents: experience from the Indus Hospital, Karachi, Pakistan. 49th Union World Conference on Lung Health; The Hague, Netherlands, 24-27 October 2018.
12. Hamidah Hussain, **Amy Abdul Malik**, Farhana Amanullah, Sara Siddiqui, Maria Jaswal, Junaid Fuad, Farhat Jabeen, Mercedes Becerra. Oral Symposium Presentation – Yield of a pilot post-exposure intervention in drug-resistant TB households in Karachi. 48th Union World Conference on Lung Health; Guadalajara, Mexico, 11-14 October 2017.
13. Hamidah Hussain, **Amy Abdul Malik**, Sara Siddiqui, Maria Jaswal, Junaid Fuad, Farhana Amanullah. Oral Symposium Presentation – Road to TB elimination – contact management is critical in children in Pakistan. 48th Union World Conference on Lung Health; Guadalajara, Mexico, 11-14 October 2017.
14. Sara Siddiqui, Junaid Fuad, Maria Jaswal, **Amy Abdul Malik**, Zainab Barry, Hamidah Hussain, Mercedes C. Becerra, Farhana Amanullah. Poster – Adverse event profile of a DRTB infection treatment cohort- experience from the Indus Hospital TB program. 48th Union World Conference on Lung Health; Guadalajara, Mexico, 11-14 October 2017.
15. Hamidah Hussain, Farhana Amanullah, **Amy Abdul Malik**, Sara Siddiqui, Maria Jaswal, Junaid Fuad, Naseem Salahuddin, Mercedes C. Becerra. Poster – Treatment of presumed drug-resistant TB infection in household contacts in a high burden setting. 48th Union World Conference on Lung Health; Guadalajara, Mexico, 11-14 October 2017.

16. Hamidah Hussain, **Amynd Abdul Malik**, Farhana Amanullah, Sara Siddiqui, Junaid Fuad, Maria Jaswal, Zainab Barry, Naseem Salahuddin, Salman Khan, Mercedes C. Becerra. Oral Presentation – Lessons from the field: experience of scaling up Post Exposure Treatment for contacts of DRTB patients. 47th Union World Conference on Lung Health; Liverpool, UK, 26-29 October 2016.
17. Junaid Ahmed, Sara Siddiqui, **Amynd Abdul Malik**, Maria Jaswal, Sania Saleem, Afshan Khurshid, Farhana Amanullah, Hamidah Hussain. Oral Presentation – Increasing childhood TB case detection through contact tracing strategy: A case study from rural Pakistan. 47th Union World Conference on Lung Health; Liverpool, UK, 26-29 October 2016.
18. Rabab Batool, **Amynd Abdul Malik**, Hamidah Hussain, Zainab Barry, Shahid Butt, Sana Adnan, Salman Khan, Naseem Salahuddin. Poster – Outcomes of re-treatment cases of drug resistant tuberculosis at The Indus Hospital, Karachi. 47th Union World Conference on Lung Health; Liverpool, UK, 26-29 October 2016.
19. Sara Siddiqui, Maria Jaswal, Junaid Fuad Ahmed, Saniya Saleem, **Amynd Abdul Malik**, Hamidah Hussain, Farhana Amanullah. Poster – Pediatric TB: Reverse contact tracing efforts in a rural setting of Pakistan. 47th Union World Conference on Lung Health; Liverpool, UK, 26-29 October 2016.
20. **Amynd Abdul Malik**, Farhana Amanullah, Maria Jaswal, Sara Siddiqui, Junaid Fuad Ahmed, Saniya Saleem, Afshan Khurshid, Hamidah Hussain. Poster - Increasing childhood TB notification through systematic screening in public-sector hospitals in rural Pakistan: an update. 47th Union World Conference on Lung Health; Liverpool, UK, 26-29 October 2016.
21. Hamidah Hussain, **Amynd Abdul Malik**, Naseem Salahuddin, Saira Khowaja, Shahid Butt, Mashal Basir, Uzma Khan, Aamir Khan. Poster – Patient incentives, mobile health and electronic medical records for community-based DR-TB treatment at Indus Hospital, Pakistan. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.
22. Saniya Saleem, Maria Jaswal, **Amynd Abdul Malik**, Farhana Amanullah, Hamidah Hussain. Poster - Effectiveness of screening questions used in enhancing pediatric TB detection in a rural setting. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.
23. Zainab Barry, Sara Khan, Onaiza Qureshi, Aneeta Pasha, Sehrish Rehman, Hamidah Hussain, **Amynd Abdul Malik**. Poster - Prevalence of Depression and Anxiety during treatment phases of MDR TB patients in a tertiary care hospital. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.
24. Farhana Amanullah, **Amynd Abdul Malik**, Khujista Asif, Maria Jaswal, Rabab Jafri, Hamidah Hussain. Poster - TB disease prevalence among children exposed to drug sensitive TB patients- The Indus Hospital TB program. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.
25. **Amynd Abdul Malik**, Farhana Amanullah, Saniya Saleem, Maria Jaswal, Hamidah Hussain. E-Poster - Increasing childhood TB notifications through systematic screening in public-sector hospitals in rural Pakistan. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.
26. Wardah Awan, Syed Mohammad Asad Zaidi, **Amynd Abdul Malik**, Saira Khowaja, Uzma Khan, Jacob Creswell, Hamidah Hussain, Aamir Khan. Oral Presentation - Impact of a public-private mix intervention on MDR-TB detection in Karachi, Pakistan: Experiences from the TBxpert Initiative. 46th Union World Conference on Lung Health; Cape Town, South Africa, 2 December - 6 December 2015.

27. Nashwa Khalid, Nazish Masood, **Amynd Abdul Malik**, Asad Zaidi, Saira Khowaja, Rabia Jawaid, Nadeem Rizvi, Aamir Khan. Poster - Increase in TB Case Detection through a PPM Partnership: Community Health Worker Symptomatic Screening at a High-volume Government Hospital in Karachi. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
28. Nashwa Khalid, Asad Zaidi, Nadeem Rizvi, Abdul Haseeb, **Amynd Abdul Malik**, Saira Khowaja, N Saifullah, Amal Mohiuddin. Poster - Emergence of Fluroquiniolone Resistance amongst MDR-TB suspects in Karachi. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
29. Kimberly D'Souza, **Amynd Abdul Malik**, Asad Zaidi, Maria Jaswal, Shahid Butt, Syeda Mahroz. Poster - Factors influencing sputum smear microscopy conversion in Category 1 Tuberculosis patients in Karachi, Pakistan. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
30. Farhana Amanullah, **Amynd Abdul Malik**, Shahid Butt, Saira Khowaja, Naseem Salahuddin, Ahsanullah Bhurgri, Aamir Khan, Hamidah Hussain. Poster - High DR-TB prevalence and vulnerability in adolescent girls- The Indus Hospital TB control program experience. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
31. **Amynd Abdul Malik**, Farhana Amanullah, Fatima Khatoon, Rabia Hashmi, Maria Jaswal, Aamir Khan, Hamidah Hussain. Poster - Childhood TB- experience from the largest private pediatric TB program in Pakistan. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
32. Farhana Amanullah, **Amynd Abdul Malik**, Saira Khowaja, Asra Parekh, Shahid Butt, Ahsanullah Bhurgri, Naseem Salahuddin, Aamir Khan. Poster - Prevalence of TB disease and infection among child contacts of DR-TB patients in Karachi, Pakistan. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
33. Farhana Amanullah, **Amynd Abdul Malik**, Sadaf Hussain, Fatima Khatoon, Saba Shahid, Unaisa Qazi, Aamir Khan, Lubna Samad. E-Poster - High prevalence of abdominal tuberculosis and related mortality in children; Experience from the Indus Hospital TB control program, Karachi, Pakistan. 45th Union World Conference on Lung Health; Barcelona, Spain, 28 October - 1 November 2014
34. Farhana Amanullah, Mehreen Iqbal, **Amynd Abdul Malik**, Sadaf Hussain, Sabad Shahid, Lubna Samad. Poster - Abdominal Tuberculosis in Children- Experience from a TB program in Karachi. 8th Health Sciences Research Assembly (HSRA); AKU, Karachi, Pakistan, 11th and 12th December 2013
35. **Amynd Abdul Malik**, Subhash Chandir, Erum Rasheed, Lubna Samad. Poster - Expanded and electronic Integrated Management of Childhood Illnesses (eIMCI) - Implementation in children 0-14 years of age in a tertiary care hospital in Pakistan. 8th Health Sciences Research Assembly (HSRA); AKU, Karachi, Pakistan, 11th and 12th December 2013
36. **Amynd Abdul Malik**, Subhash Chandir, Erum Rasheed, Lubna Samad. Poster - Expanded and electronic Integrated Management of Childhood Illnesses (eIMCI) - Implementation in children 0-14 years of age in a tertiary care hospital in Pakistan. Hopkins Vaccines Day; Baltimore, MD, USA, 27th September 2013
37. F Amanullah, F. Hafeez, **A.A. Juma**, K. Moorani, T. Masood, A.R. Sherahli. Poster - CKD in Pakistani children: A Multicenter Survey. 4th Biennial Pediatric Nephrology Conference; Lahore, Pakistan, 24-25 February 2011

38. **Juma AAM**, Hosein S. Poster – Resident duty hours: Globally accepted standards and situation in Pakistan. 14th National Health Sciences Research Symposium: Ethical Issues in Education, Research & Healthcare at AKU on November 5, 2010
39. Khalid U, **Juma AAM**. Poster – Under Utilization of Sick Leave by the physicians – are we jeopardizing health care? 14th National Health Sciences Research Symposium: Ethical Issues in Education, Research & Healthcare at AKU on November 5, 2010
40. **Juma AAM**, Khalid U. Poster - Psychotropic Drugs: Are we over prescribing? 14th National Health Sciences Research Symposium: Ethical Issues in Education, Research & Healthcare at AKU on November 5, 2010

SHORT COURSES

Qualitative Methods in Global Infectious Diseases Research, <i>McGill Summer Institute in Infectious Diseases and Global Health</i>	Jun 2017
Strategy and Value Management for Global Health Care Delivery, <i>Harvard Medical School Centre for Global Health Delivery – Dubai</i>	Mar 2017
Advance TB Diagnostics, <i>McGill Summer Institute in Infectious Diseases and Global Health</i>	Jul 2015

PROFESSIONAL DEVELOPMENT

Computer Skills: MS Office Suite, SAS, STATA, SPSS, R, ArcGIS

Languages: Fluent in English and Urdu

Memberships: American Public Health Association (2012 - present); Delta Omega Honorary Society of Public Health