**PERSONAL INFORMATION**

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Date of birth: August 20, 1974

## BRIEF PROFILE

I am a medical doctor, who completed MSc (Epidemiology and Biostatistics) from the Aga Khan University Pakistan, and PhD in Health and Community Services, from The University of Melbourne Australia.

My research and work areas contributing towards Human Development and specific focus in the health sector are *Health systems* (Disease Control Priorities 3 and Universal Health Coverage, Sustainable Development Goals 3 country level contextualization and adoption, health services use, services management and governance, emergency planning and response, statistical analyses based on Global Burden of Disease through routine and non-routine data sources, development-deployment-integration of health information systems, monitoring and evaluation, digital health and health informatics, training needs assessment, human resources in health, health policy- strategy- vision and its implications, public private partnerships, devolution in health sector), *Infectious diseases* (COVID-19, Surveillance and response, TB and MDR TB, Influenza, Crimean Congo hemorrhagic fever), *Mother and Child health* (mental health, maternal health, vaginal infections, Immunization and neonatal health), *Nutrition* and *WASH* sectors. Such work involved quantitative research including cross-sectional surveys, case control, cohort and randomized trials, and qualitative research components. My work is augmented through statistical skills of data-base management, and advanced analysis like regression modelling (logistic, linear, survival).

My more than 20 years’ experience across Lower- and Middle-Income Countries, has been as a lead technical person for programs and multi-intervention projects that include designing, implementing and evaluating Global Health Security Agenda -International Health Regulations (GHSA-IHR), strategic country level planning and strategies/policy development, DHIS 2, primary healthcare and health systems, integrated disease surveillance mechanisms, public-private partnerships, health promotion and nutrition programs. I have led teams in grant proposal development, and management of multi-tier and comprehensive health-care intervention programs in routine and post-disaster contexts.

I have been affiliated with academic institutes such as the Aga Khan University Pakistan, Johns Hopkins University USA, University of Melbourne Australia, and Health Services Academy, Government of Pakistan; and carry full-time work and consulting experience with the Government and private sectors, International development partners and assistance agencies, the UN and International NGOs sector. My goal is to support human development, especially by catalyzing effective governance in health systems, promote empirical decision making, deploying digitized processes and advanced statistical analyses, assessing and formalizing health systems to ensure universal health coverage especially for marginalized segments living in resource constrained and disaster-prone settings.

## EDUCATION

2007 – 2012 **PhD - Health and Community Services** (Maternal Child Health, Health Systems, Mental health) Centre for Women’s Health, Gender and Society, School of Population Health, Faculty of Medicine Dentistry and Health Sciences, The University of Melbourne, Australia.

2000-2002 **MSc -Epidemiology & Biostatistics** (Infectious Diseases/MDRTB)

Community Health Sciences Department, The Aga Khan University (AKU), Karachi, Pakistan.

1991-1997 **M.B.B.S**

Rawalpindi Medical College, Rawalpindi, The University of Punjab, Lahore, Pakistan

## PROFESSIONAL EXPERIENCE

**Feb 20 – Date Senior Technical Advisor –** CGPH-Pakistan under the auspices ofUniversity of Manitoba, Canada for technical support to Ministry of NHSR&C, Government of Pakistan, and the Global Health Department, Health Services Academy, Government of Pakistan

Responsibilities include:

1. Technical advisory role for Covid 19 preparedness and response including projections modelling, surveillance, preparation of response summaries, and proposals for seeking National and International Financial Assistance.
2. Lead role for Global Burden of Disease Study-Pakistan for 2017 and 2020, at the Ministry of National Health Services Regulations and Coordination (Mo NHSRC) in partnership with Institute of Health Metrics and Evaluation (IHME), University of Washington-USA
3. Lead technical role in adoption of SDG 3, Disease Control Priorities-3 and Universal Health Coverage in Pakistan
4. Advisory role for the National level Pakistan Health Information System (PHIS), an interactive web-based integrated platform for all the Health and Management Information systems of all national and sub-national information systems and surveys for Pakistan
5. Advisory role in planning and implementation of International Health Regulations (IHR-GHSA) 5 year road map
6. Advisory role in the planning and coordination for Integrated Disease Surveillance and Response (IDSR) mechanism
7. Advisory role in national/sub-national level derivation of health indicators for national and international reporting
8. Advisory role for other health related technical documents preparation and reviews required on a day to day basis

**Oct 13 – date Associate Professor –** Health Services Academy, Government of Pakistan

**Mar 20 – Dec 20 Health Systems Strengthening Consultant -** UNICEF Pakistan for support to Health Planning Systems Strengthening and Information Analysis Unit (HPSIU), Ministry of National Health Services Regulation and Coordination, Government of Pakistan

**Mar 19 – Nov 19 Health Systems Strengthening Consultant -** UNICEF Pakistan for support to Health Planning Systems Strengthening and Information Analysis Unit (HPSIU), Ministry of National Health Services Regulation and Coordination, Government of Pakistan

**Jan 19 – Mar 19 Health Information Systems Specialist** – Technical support for the planning of health data repository Ministry of Health- Jordan, WHO Hub, Amman, Jordan

**Aug 18 – Dec 18 Health Systems Strengthening Consultant** – Country review of Systems Strengthening in Health Sector by UNICEF in Iraq and Yemen; UNICEF Middle East and North Africa Region Office (MENARO), Jordan

**Mar 18 – Dec 18 Advisor Data Analysis and Information Systems** – WHO Pakistan for support to Health Planning Systems Strengthening and Information Analysis Unit (HPSIU), Ministry of National Health Services Regulation and Coordination, Government of Pakistan

**Sep 15 – Jul 17 Senior Epidemiologist and Consultant** – John Snow Institute Research & Training, Inc. for support to Ministry of National Health Services Regulation and Coordination, Government of Pakistan

Responsibilities included:

1. Lead role in establishing the Health Planning Systems Strengthening and Information Analysis Unit (HPSIU) at the Ministry of National Health Services Regulations and Coordination (Mo NHSRC)
2. Lead role in designing and establishing the National level Pakistan Health Information System (PHIS), which is an interactive web-based integrated platform for all the Health and Management Information systems of all national and sub-national information systems and surveys for Pakistan
3. Lead role in the formulation of Pakistan's International Health Regulations (IHR) 5 year road map through extensive consultations on behalf of the Mo NHSRC with all the provinces and regions of the country and all related Governmental departments
4. Lead role in the formulation of National Health Vision (2016-2025) for Pakistan
5. Lead role in national and sub-national level derivation of health indicators for national and international reporting for Pakistan through the National Health Information Resource Centre

#### Oct 09 – Aug 10 Research Assistant – Melbourne Atopic Cohort Study (MACS)

Centre for Molecular, Environmental, Genetic & Analytic Epidemiology

School of Population Health, The University of Melbourne and Murdoch Children’s Research Institute, Royal Children’s Hospital, Melbourne

Responsibilities included:

1. Management and conduct of Melbourne Atopy Cohort Study (MACS) at the MEGA center - University of Melbourne and Royal Children's Hospital- Melbourne
2. Atopy testing procedures for Cohort study participants

#### Apr 08 – Jun 09 Consultant Research– Punjab Integrated Primary Health Care Model Program Research Unit (*PIPHCM-RU*)

National Commission for Human Development (*NCHD*), Government of Pakistan, Shaheed-e- Millat Secretariat, Islamabad, Pakistan

Responsibilities included:

1. Capacity building, training of *PIPHCM* head office health team members on statistical analysis techniques
2. Developed health and health systems’ research proposals with members of *PIPHCM* head office health team.
3. Developed and deployed mix methods research formats for activities in *PIPHCM* districts.
4. Conducted and supervised statistical analysis of the Primary Health Care Extension Program (*PHCE*) dataset and

*PIPHCM* baseline census data.

1. Prepared manuscripts from *PHCE* and *PIPHCM* programs based on the respective program interventions and initiatives, and health conditions in rural areas of Pakistan.
2. Training of data collection teams and data assistants, on developed research questionnaires and research methodologies in 12 districts of *PIPHCM* program in Punjab.
3. Established linkage between *NCHD* and other international academic and research institutes for collaborative research initiatives in *PIPHCM* districts.

#### Oct 07 – Jan 08 Research Assistant – PEPP Intervention Project

Key Center for Women’s Health in Society, School of Population Health, The University of

Melbourne

Responsibilities included:

1. Conducted statistical analyses (descriptive and inferential), for *PEPP* project (regression analyses)
2. Liaised with *PEPP* investigators for project interventions results and approaches for analysis.

#### June 05 – Jan 07 National Program Coordinator – Health for Human Development

National Commission for Human Development (*NCHD*), Government of Pakistan, Shaheed-e- Millat Secretariat, Islamabad, Pakistan

Responsibilities included:

1. Designed and implemented National *ORS* Campaign across 60% of the Pakistan (74 districts out of a total of 120 districts). This included monthly district field visits, development of Health Management Information System (*HMIS*), Statistical data analysis and establishment of multi-tier reporting database systems for the community based National *ORS* Campaign. The campaign was designed as a health promotion and prevention initiative to reduce infant mortality in the country by the Federal Government of Pakistan.
2. Liaised with multiple tiers of the governmental implementation and reporting at the Federal, provincial and district levels for the health programs of *NCHD*.
3. Liaised with governmental agencies, national and International donor agencies like *UNICEF*, *WHO* Pakistan, Gates and Melinda Foundation –USA.
4. As lead team member developed proposals for donor agency grant funding for health initiatives in Pakistan. This included a successful grant from the Government of Punjab of Pak Rs. 3.8 billion (nearly Aus $ 76 million), US $ 6.5 million from Gates and Melinda Foundation –USA, US $ 200,000 from *UNICEF* for Earthquake Relief Health Program. These grants have been focused towards Woman and Child Health, and Earthquake relief and disaster management programs.
5. Designed and implemented Health promotion and prevention program.
6. As lead team member designed health promotion literature and modules for implementation of community based and hospital- based interventions in Pakistan.
7. As lead team trainer for training to provincial and district health teams of *NCHD on* 17 health intervention areas.

#### May 04 – May 05 Program Officer – Health for Human Development

National Commission for Human Development (*NCHD*), Government of Pakistan, Prime Minister Secretariat, Islamabad, Pakistan.

Responsibilities included:

1. Implemented, monitored and facilitated implementation of Primary health care across four districts of KP province. This is done through monthly district field visits, development of an HMIS and analysis through regular reporting mechanism in this multi intervention, community based preventive healthcare program.
2. Developed Health Intervention programs for donor funding.
3. Prepared and disseminated provincial reports on a monthly basis.
4. Liaised with head office, districts, government line departments and district government representatives
5. Represented *NCHD* for liaison with various organizations for joint proposal development and exploring avenues of collaborative work with such organizations.
6. Involved in strategic planning with District health departments, other Government line departments for implementation of the program in the province, through district level and provincial level meetings.
7. Member of team of lead trainers for imparting training to district teams of *NCHD* on the multi-interventions of the *PHCE P*rogram.
8. Participated in designing of field staff training materials/modules on interventions in the *PHC E* program.
9. Designed district specific and intervention specific field staff trainings. This includes trainings for teams of Female Health workers, Male Health workers, social organizers and supervisory staff in the health program.
10. Conducted Prevalence of Anxiety and Depression in District Mardan-KP in an estimated population of 173, 000.

#### Nov 03 - Apr 04 Senior Epidemiologist / Project Manager

Global Infectious Disease Surveillance and Alert System Pakistan (*GIDSAS -PK*), a project of Bloomberg School of Public Health, Johns Hopkins University, USA

Responsibilities included:

1. Supplemented and participated in infectious disease surveillance for Pakistan, including participation in outbreak and field investigation activities. Work involved epidemiological/intellectual input and to make efforts for improving the existing infectious disease surveillance and Disease early warning system (*DEWS*) in Pakistan with collaboration of *NIH* and *WHO* Pakistan.
2. Developed disease and health care facility specific “Median Endemic Indices” in 15 high risk districts of Pakistan based on *HMIS* (Health Management and Information System) data in collaboration with *HMIS* cell, Ministry of Health, *WHO*, *NIH*, Pakistan and *GIDSAS* co-team members.
3. Liaised with *NIH* and *WHO* collaborators in Pakistan for the purpose of scientific research conduct and research proposal designing in the selected areas and infectious diseases of interest for *GIDSAS* program, *NIH* and *WHO*.
4. Developed research proposals and grant application for infectious diseases (Multi-drug resistant *TB*, Japanese Encephalitis, Sindbis, Crimean Congo Hemorrhagic fever, Typhoid, Rabies and Fever).
5. Capacity building of professionals in the field of Public Health through imparting of Epidemiological and Biostatistical knowledge through structured training with the help of *GIDSAS* co-team members.

#### Nov 02 – Oct 03 Research fellow & Technical Coordinator

Community Health Sciences Department, Aga Khan University, Pakistan

Responsibilities included:

1. Technical coordinator in the *AKU*-*UAB*-*RTI[[1]](#footnote-1)*, Global network for women’s and children’s health research site 9 project (National Institute of Health, USA and Gates and Melinda Foundation, funded project on Maternal and Child Health).
2. Research fellow for the management of *AKU* funded prospective study on *DOTS* treatment of *TB* in Karachi, Pakistan.
3. Teaching Epidemiology and Biostatistics to graduate and undergraduate medical students.

## RECENT ASSIGNMENTS

***Reviewer/Sector Specialist***

1. **Mar 21 – date** *Peer Reviewer* for ***Global Research in Gynecology and Obstetrics***
2. **Oct 20 – date** *Peer Reviewer* for ***PLOS One***
3. **May 19 – date** *Peer Reviewer* for ***Clinical Gynecology, Obstetrics & Reproductive Sciences***
4. **Mar 17 – date** *Peer* Reviewer for ***Pregnancy and Care Journal***
5. **Nov 16 – date** *Peer Reviewer* for ***Pakistan Journal of Public Health***
6. **Mar 17 – date** *Peer Reviewer* for ***Global Health Research and Policy Journal***
7. **Apr 16 – May 16** *Technical Advisor* **–** “*Third Party Evaluation of Engro Fertilizers Social Investments”,* for Arjumand And Associates Consultants, on behalf of ***Engro Foundation, Pakistan.***
8. **Dec 14 – Mar 15** *Peer Reviewer* **–** For ***Research and Advocacy Fund (RAF)***, Pakistan for peer review of special supplement in *Health Research Policy and Systems* international peer reviewed journal.
9. **Sep 13 – Oct 13** *Co-Investigator* **–** “*Evaluation of community based comprehensive health services and*

*livelihood opportunities for Afghan Refugees and host communities in Balochistan”,* for

***American Refugee Committee***, Pakistan

1. **Aug 13 – Sep 13** *Co-Investigator* **– “***Policy Research on Child protection and rights*”, for Communities for Improved Child Well Being (CICWB) project, on behalf of ***World Vision*** Pakistan.
2. **Apr 13 – May 13** *Shortlisting Consultant* **-** Australian Development Scholarships 2014, on behalf of

##### AusAID

1. **Jan 13 – date** *Peer Reviewer* for ***Journal of Mental Health***
2. **Dec 12 – May 13 *Consultant*****–***Assessing the Volume and effectiveness of philanthropy in Sindh, Pakistan*,

***Pakistan Center for Philanthropy***, Pakistan

1. **Sep 12** *Core facilitator* **–** *Workshop on capacity building on Implementation Research in Pakistan.*

*Conducted by* ***WHO Headquarters*** in collaboration with ***Health Services Academy, Government of Pakistan***

1. **Jun 12 *MNCH Sector Specialist*** – Australian Development Scholarships – 2013 uptake, on behalf of

##### AusAID

***Health Systems***

1. ***Jan 23 – Date Team Lead –*** *Process Evaluation of Primary Care Program of Indus Hospitals Health Network (IHHN)- Pakistan* on behalf of IHHN Pakistan.
2. ***Aug 22 – Dec 22 International Health Expert*** - *for* *Health Systems Strengthening and Delivery of Equitable and Quality Health Services in Sindh,* on behalf of ***Central and West Asia Department, Asian Development Bank***
3. ***May 20 – Dec 21 Human Resources in Health Specialist –*** *For conduct of review of HRH in Pakistan - to assess and estimate HRH requirements for implementing the NAPHS at the Federal level,* on behalf of ***World Bank***
4. ***Dec* 19 – Mar 20 M&E Specialist –** *for Technical Support for development of a prototype/demo of electronic information repository for MOH Jordan,* on behalf of ***PaceTech Technologies, Pakistan and WHO Jordan***
5. ***Jul 18* – *Mar 19 Health Systems Data Specialist –*** *Provincial Health & Nutrition Programme (PHNP) Health Systems Assessment of Punjab & Khyber Pakhtunkhwa,* Conducted by ***Technical Resource Facility + (TRF + Pakistan) on behalf of UKAid.***
6. **Aug 16 – Jul 17 *Lead Trainer and Assignment Manager*** *- “Access to Quality Care through Extending & Strengthening Health Systems (AQCESS)”, an* ***Aga Khan Foundation (AKF)*** study in 5 districts of Northern Pakistan.
7. **Feb 14 – Oct 14 *National Public Health Specialist*** - *Third party evaluation of the chief minister’s initiative on primary health care Punjab Pakistan.* Conducted by ***Technical Resource Facility (TRF, Pakistan) on behalf of UKAid and AusAID.***
8. **May 12 – Jan 14 *Consultant and Technical Resource Person*** *- Exploring quality of care and access to EmONC services in Sindh*. Conducted by Provincial Health Development Centre, Government of Sindh on behalf of ***Research and Advocacy Fund (RAF),*** Pakistan.
9. **Feb 12 – Nov 12 *Team Leader*** – *Working out Options for EmONC Related Referral Systems. C*onducted by

##### Technical Resource Facility (TRF, Pakistan) on behalf of UKAid and AusAID.

1. **Dec 10 – Mar 11 *Co- Principal Investigator* -** *Assessment and development of mechanism to improve performance & outcome of Mobile Service Units*. Granted by the ***National MNCH Program, Government of Pakistan*** to the Development Strategies, Pakistan

# Immunization

1. **Sep 15 – Jul 17 *Senior Epidemiologist*** *with* ***Ministry of NHSRC****, Pakistan steering the linkages of Health Information systems in the country including Vaccines Logistics Management and Information System (vLMIS) and the EPI program’s MIS (EPI-MIS)* with the Pakistan Health Information System.
2. **Oct 16 – Sep 17 *Epidemiologist and Technical Lead****- Evaluation of Involvement of Lady Health Workers in Routine Immunization in Pakistan,* a ***WHO*** funded evaluation among 72 districts of Pakistan.
3. **Apr 15 – Nov 15 *M & E Specialist* -** *Role of Digitized Immunization Registry system to improve vaccination coverage for children: Pilot Program in Hafizabad District of Punjab,* a ***WHO*** funded collaborative project between IRD and Development Strategies, Pakistan
4. **Aug 14 – Sep 15 *Technical Lead* – *Health Facility Assessment****, Punjab 2014-15, an evaluation of 608 public sector health facilities and hospitals across all the 36 districts of Punjab province including immunization related logistics and capacities*. Conducted by ***Technical Resource Facility (TRF, Pakistan) on behalf of Government of Punjab and UKAid and AusAID***.
5. **Feb 13 – Jul 13 *Consultant* –** “*Immunization Status of Mothers, Newborn & Children in Baluchistan (Quetta & Chagai), Pakistan*”, ***Save the Children***, Pakistan
6. **Apr 11 – Jun 11 *Epidemiologist and Biostatistician***- *Assess coverage of routine EPI & polio eradication efforts & implementation gaps at district level. Granted by PLAN, Pakistan to the* ***Health Services Academy, Government of Pakistan.***

# Maternal Neonatal and Child Health

1. **Apr 17 – Nov 17 *Epidemiologist*** *– Policy review of Community Midwives Programme Punjab,* on behalf of

##### Technical Resource Facility + on behalf of UKAid and AusAID.

1. **Jun 17 – Nov 17 *Epidemiologist*** *– Policy review of Community Midwives Programme KPK,* on behalf of

##### Technical Resource Facility + on behalf of UKAid and AusAID.

1. **Feb 15 – Apr 15 *Quality Assurance*** *Consultant – LQAS survey for Saving Mothers and Newborns in Communities Project in three districts of Balochistan*, on behalf of ***Mercy Corps International***, Pakistan.
2. **Dec 14 – Sep 15 *Consultant* – TraC survey** – *Baseline survey on Family Planning for LAD III and Mid-line evaluation survey of DFID and KfW segments across 146 districts and urban town in all the 7 regions of the country*, on behalf of ***Greenstar, Pakistan***
3. **Mar 14 – May 14 *Consultant* –** “*Removing the three delays in access to EmONC*” to evaluate pilot interventions for Rural Support Programmes Network (RSPN), Pakistan on behalf of ***Research and Advocacy Fund (RAF)***, Pakistan
4. **Dec 13 – Mar 14 *Consultant* – *“****Client Exit Interview Survey in Sind, Punjab, Balochistan and KPK”* to evaluate outcomes and impact of Family planning interventions in all 7 Regions of Pakistan, for ***Marie Stopes Society***, Pakistan
5. **Jan 13 – Mar 13 *Consultant* –** Grant application development of “*Innovative methods for Family Planning”*, for submission to USAID, USA, on behalf of ***CARE International***, and Family Planning Association of Pakistan
6. **Nov 12 – Feb 13 *Consultant* –** Grant application development for*“Stillbirths and Health Information Systems in Pakistan”*, for submission to Research and Advocacy Fund (RAF, a UKAid and AusAid subsidiary), on behalf of ***CARE International***
7. **Nov 12 – Dec 12 *Consultant* –** *"KAP survey for family planning and post abortion care (PAC) program",* ***Save the Children***, Pakistan
8. **Aug 12 – Oct 13** *Consultant* – “*Advocating for Improved MNH and SRH Policy and Practice for Adolescent Girls and Young Mothers*”, for CARE International, Pakistan on behalf of ***Research and Advocacy Fund (RAF)***, Pakistan
9. **Jul 12 – Dec 12 *Consultant* –** *"Evaluation Research for ‘Menstrual Hygiene Management Study in Schools in AJK and KPK",* for ***UNICEF***, Pakistan
10. **May 11 – Aug 11 *Epidemiologist and Biostatistician*** - *Third Party Evaluation and Documentation of the process, results, challenges and lessons contributed by National Mother and Child Week (MCW)*. Granted by ***UNICEF***, Pakistan to the ***Health Services Academy, Government of Pakistan***
11. **Dec 10 – Jun 11 *Co- Principal Investigator*** *- Research and propose possible mechanism to utilize TBA’s for FP service provision/community-based distribution and referral in selected Union Councils of 01 district.* Granted by the National MNCH Program, Government of Pakistan to the ***Center for Advancement in Health and Social Sciences***, Pakistan.
12. **Dec 10 – Jun 11 *Co- Principal Investigator*** *- Development & Implementation of Community Transport System for EmONC Services and Alert Evacuation System for EmOC / FP & Assess & Propose Mechanism to Improve Implementation of Voucher Scheme for EmONC/FP*. Granted by the National MNCH Program, Government of Pakistan to the ***Integrated Health Services***, Pakistan.

# Data Management

1. **Jan 23 Health Information Systems Specialist** *- for Partners for Health & Development in Africa*, on behalf of ***PHDA, Kenya and Institute of Global Public Health University of Manitoba, Canada***
2. **Oct 21 – Mar 22 *Quantitative Research lead* –** *“Impact assessment for Zindagi Mehfooz, Digital Immunization Registry in Pakistan*”, for ***Health Enabled, South Africa***
3. **Sep 21 – Dec 21 *Lead Technical Analyst* –** “*To investigate the determinants of maternal mortality in Pakistan using data from the 2019 Maternal Mortality Survey (MMS)”* for ***Population Council, Pakistan***
4. **Oct 15 – Jun 16 *Consultant* –** “*National Household Survey on Social Protection and* Social Cohesion *in* Pakistan”,

##### for SoSec consulting, on behalf of World Bank

1. ***Jul* 13 – Oct 14 *Research Team Lead* –** *“Stillbirths and Health Information Systems in Pakistan”* for CARE International (for which had initially developed the proposal of approximately UK £ 190,000) on behalf of ***Research and Advocacy Fund (RAF)***, Pakistan
2. **Feb 12 – May 12 *Technical Advisor*** *– IVAP Profiling and Database Management*, for ***International Rescue Committee (IRC)***, Pakistan

# Nutrition

1. ***Jun 22 – Sep 22 Team Lead –*** *Independent evaluation of iCheck connect beta testing – Digitizing Pakistan’s Vitamin A/Oil Program to Derive sustainability*, on behalf of ***Nutrition International, Pakistan***
2. **Jun 15 – May 16 *Consultant* –** *“electronic Integrated Management of Childhood Illnesses (eIMCI)”*, for IRD-DS consortium, on behalf of Health and Nutrition Innovation Fund (***HANIF), a UKAid funded research initiative in Pakistan***
3. **Nov 14 – Mar 15 *Public Health Specialist* –** *“Data collection survey on Maternal and Child health, Pakistan***”** on behalf of ***Apex Consulting*** and JICA, Pakistan
4. **Apr 14 – Oct 14 *Consultant* –** *“Project IKEA “Improving lives of children in districts of Pakistan- Phase 2 Baseline Assessment for Health facility profiling; School Health and Nutrition”* for ***Save the Children***, Pakistan
5. **Nov 13 – Mar 14 *Consultant* – “***Development of Diarrhea and Pneumonia provincial scale up plans for KPK and Balochistan***”,** for ***Save the Children***, Pakistan
6. **Aug 12 – Sep 12 *Consultant* –** “*Development of ‘CMAM and IYCF Training Modules and Guides for Master Trainers and LHWs*”, for ***Save the Children*** Pakistan
7. **Jan 12 – Sep 12 *Public Health Specialist*** *– Nutrition Mapping and Proposing Scale Up strategies.* Conducted by ***Technical Resource Facility (TRF, Pakistan) on behalf of UKAid and AusAID.***
8. **Nov 11 – Nov 14 *Team Leader*** – *Operational Research on Reduction of Low Birth Weight and Maternal Anemia in Umerkot and Tharparker.* Granted by UNICEF Pakistan to ***Mustashaar, Pakistan***

# Water Sanitation and Hygiene

1. **Apr 14 – Oct 14 *Consultant* –** *“Project IKEA “Improving the lives of children in districts of Pakistan- Phase 2 Baseline Assessment for School profiling and WASH facilities assessment”* for ***Save the Children***, Pakistan
2. **Dec 13 – Mar 14 *Consultant* – *“****Baseline Assessment of Knowledge Attitudes and Practices on WASH”* in four selected districts of Punjab, for ***PLAN International***, Pakistan
3. **Dec 13 – Mar 14 *Consultant* – *“****Formative Research on WASH”* in four selected districts of Punjab, for ***PLAN International***, Pakistan
4. **Oct 13 – Jan 14 *Consultant* – “***Development of WASH training manuals for Master Trainers, SO, CRP, Mason, Entrepreneurs, School WASH clubs, VSC*” for ***Rural Support Programme Network, Pakistan***
5. **Oct 12 – Jan 13 *Lead co-researcher* –** *"Evaluation of National Vitamin A Supplementation – Polio Campaign in Balochistan, Punjab, KPK and Sindh",* ***Micronutrient Initiative (MI)***, Pakistan
6. **Jul 12 – Jan 13 *Consultant* –** *"Evaluation Research for ‘WASH in Schools in AJK and KPK",* for UNICEF, Pakistan
7. **May 12 – Dec 12 *Consultant and co-principal investigator***– *Formative Research for WASH across 10 districts in Pakistan.* Conducted on behalf of ***PLAN International*** Pakistan

***Infectious Diseases***

1. ***Jan 22 – Mar 22 Senior Research Expert*** *to identify factors influencing uptake of COVID 19 vaccines in KP province of Pakistan, on behalf of* ***Oxford Policy Management, Pakistan***
2. ***Oct 20 – Apr 21 Health Systems Expert –*** *For developing Punjab strategic frameworks based on learning from COVID 19 for Punjab province, on behalf of* ***FCDO***
3. **Oct 20 – Dec 20 *Epidemiologist* – “***Determining the optimally cost-effective COVID-19 policy response”,* for***Asian***

##### Development Bank

1. ***Jul 20 – Dec 20 Technical Specialist*** *to identify the potential role of private health sector in response to COVID-19,* on behalf of ***WHO Pakistan***
2. ***Nov 19 – Feb 20* Technical Specialist Integrated Communicable Disease Control Program, Punjab *–*** For development of ICDCP PC – 1, Department of Health, Government of Punjab, on behalf of ***John Snow Institute Research & Training, Inc., Pakistan***
3. ***Jun 18 – Jan 19 Consultant*** *– Development of PC 1 for National Institute of Health- Pakistan for Infectious*

*Disease Surveillance, FELTP transition and Public Health Laboratories Network,* ***on behalf of John Snow Training Institute Inc., Pakistan***

1. **Nov 16 – Dec 18 *Health Specialist*** *– Punjab Hepatitis B&C Prevalence survey 2017-18***, *on behalf of TRF+ for the Planning and Development Department Government of Punjab & Punjab Bureau of Statistics***
2. **May 11 – Jan 12 *Team Leader*** – *National Knowledge Attitudes Behaviours Practices - Patient empowerment survey*. *Granted* by National TB Control Program to ***Health Services Academy, Government of Pakistan***
3. **Nov 10 – Dec 10 *Consultant***- *Knowledge Attitudes and Practices Survey for School TB Clubs Program.* Granted by Integrated Health Services, Pakistan on behalf of ***Mercy Corps International***.

## PEER REVIEWED PUBLICATIONS

***Mother and Child Health***

1. Paudel M, Leghari A, **Ahmad A M**, Gibbs S, Wheeler J, Goldberg S, Snyder T, Bhattarai M. The COVID-19 pandemic and consequences for reproductive, maternal, neonatal, and child health services in Pakistan: a qualitative study. *Sexual and Reproductive Health Matters 2022;30(1):1–15*
2. Aniza Ismail, Mariam Ashraf, Idayu Badilla Idris, Inayat Hussain Thaver, **Ahsan Maqbool Ahmad**, Sarmad Jamal Siddiqui.Readiness assessment of health facilities for providing postpartum family planning services after project-based scale-up activities ended – A study from Pakistan; *Rawal Med J. 2021; 46(4): 982-986*
3. Aniza Ismail, Mariam Ashraf, Idayu Badilla Idris, Sarmad Jamal Siddique, Inayat Thaver, **Ahsan Maqbool Ahmad**. Identifying factors associated with the use of a scaled-up postpartum family planning project implemented in Punjab, Pakistan: *Malaysian Journal of Public Health Medicine 2021, Vol. 21 (2): 466-474*
4. Thaver I, **Ahmad AM**, Ashraf M, Asghar SK, Mirza MS. Effect of multi-pronged interventions in reducing low birth weight and maternal anaemia among pregnant women. A community-based interventions research in non-agrarian resource constrained setting of rural Pakistan: *Journal of Pakistan Medical Association;* Vol. 70, No. 12-A, December 2020
5. **Ahmad AM**, Thaver I, Mirza S, Ashraf M. Effect of multi aspect interventions in reduction of low-birth-weight incidence and maternal anemia during pregnancy. *Australia and New Zealand Clinical Trials Registry*; ACTRN12616001449426, Regd. 17th Oct 2016; available at

URL: [http://www.ANZCTR.org.au/ACTRN12616001449426.aspx.](http://www.anzctr.org.au/ACTRN12616001449426.aspx)

# Health Systems

1. Kristen Danforth, **Ahsan Ahmad**, Karl Blanchet, Muhammad Khalid, Arianna Means, Solomon Memire, Ala Alwan, David Watkins. Monitoring and evaluating the implementation of essential packages of health services. *BMJ Global Health* (accepted 9th March 2023)
2. Palitha Gunarathna Mahipala, Sabeen Afzal, Qudsia Uzma, Atiya Aabroo, Nilmini Hemachandra, Katy Footman, Heidi Bart Johnston, Bela Ganatra, Tahira Ezra Reza, **Ahsan Maqbool Ahmad**, Hasan Bin Hamza, Maida Umar, Kauser Hanif, Sayema Awais, Mariyam Sarfraz, Ellen Thom. An assessment of facility readiness for comprehensive abortion care in 12 districts of Pakistan using the WHO Service Availability and Readiness Assessment tool. *Sexual and Reproductive Health Matters*2023;31(1):1–222
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4. Malik A, Hill P; **Ahmad, AM**; Ulikpan A. Devolution 2001 Reforms in Pakistan: opportunities lost in strengthening health service delivery. *Pak J Public Health* 2012 Mar, Vol. 2(1), Pg 10-16.
5. Malik A, Khalil M, Ulikpan A, **Ahmad AM**. A tale of devolution, abolition and performance. *The Lancet* 2012 Feb, 379: Pg 409
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1. Emmanuel F, Hassan A, **Ahmad AM**, et al. (January 31, 2023) Pakistan's COVID-19 Prevention and Control Response Using the World Health Organization's Guidelines for Epidemic Response Interventions. *Cureus 15(1): e34480*. doi:10.7759/cureus.34480
2. **Ahmad AM**, Shahzad K, Masood M, et al. COVID-19 seroprevalence in Pakistan: a cross-sectional study. *BMJ Open* 2022; 0:e055381. doi:10.1136/bmjopen-2021-055381)
3. Emmanuel F, **Ahmad AM**, Reza T E, Rehman F, Malik M S, Zaidi R, Faran A, Bashir U, Aslam F, , Blanchard J F. Indirect effects of COVID19 pandemic on reproductive, maternal, newborn and child health services in Pakistan. *Eastern Mediterranean Journal of Health*, 2022; Vol. 28 (4), 20-9522 (in press)
4. [**Ahmad,**](http://www.sciencedirect.com/science/article/pii/S2212553112000714) **AM**; Akhtar, S; Hasan, R; Khan, JA; Hussain, SF; Rizvi, N. Risk factors for multidrug-resistant tuberculosis in urban Pakistan: A multicenter case–control study. *International Journal of Mycobacteriology* 2012; 1(3): Pg 137-42
5. Athar MN, Khalid MA, **Ahmad AM**, Bashir N, Baqai HZ, Ahmad M, Balouch AH, Bashir K. Crimean-Congo Hemorrhagic Fever outbreak in Rawalpindi, Pakistan, February 2002: Contact tracing and risk assessment. *Am J Trop Med Hyg.*2005 Apr, 72 (4): Pg 471-73
6. **Ahmad AM**, Bano R, Dil AS, Kamran J, Toor Z. Avian Influenza Outbreak in Pakistan: response to epidemic*. Disease* Surveillance *and Control* 2004; 4(1): Pg 03-04.
7. Chotani R, **Ahmad AM**, Dil AS. The Global Avian Influenza 2003-04 Outbreak*. Disease Surveillance and Control* 2004; 4(1):Pg 03-04.
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## INTERNATIONAL PAPERS AND PRESENTATIONS

***Mother and Child Health***

1. Inayat Thaver, **Ahsan M. Ahmad**, Mariam Ashraf, Syed K Asghar, Sarwat Mirza. Effect of Multi-pronged interventions in reducing low birth weight and maternal anemia among pregnant women. A Community based interventions research in non-agrarian resource constrained setting of rural Pakistan. Accepted in *2nd Global Summit on Pediatrics & Neonatology, Kuala Lumpur, Malaysia, Jun 2018*
2. **Ahmad AM,** Khalil M, Minas H, Fisher JRW. Antenatal Mental Health and Predictors of Stillbirth and Intrauterine deaths: A cohort study in rural Pakistan. Presented at *1st National Conference by Helping Hands, Pakistan on MDG 5 - Improving Maternal Health in Pakistan*; Nov 2013
3. **Ahmad AM**; Khalil M, Malik A, Minas H, Fisher JRW. Perinatal health services utilization and neonatal health in rural Pakistan. Presented in *Second Global Symposium on Health Systems Research,* Beijing, China, Nov, 2012.
4. **Ahmad AM**; Khalil M, Malik A, Minas H, Wynter K, Fisher JRW. Prevalence and determinants of postnatal common mental health problems in rural Pakistan. Accepted in *The 1st International Symposium On Health Research and Development and The 3rd West Pacific Regional Conference On Public Health,* Indonesia, Nov, 2011.
5. **Ahmad AM**. Prevalence and determinants of maternal common mental health problems in Pakistan. Presented at

*School of Medicine and Health, University of Durham, UK*, Sep, 2011.

1. **Ahmad AM**, Khalil M, Wynter K, Minas H, Fisher JRW. Maternal mental health, antenatal care and birth outcomes in Pakistan. Presented at *First International Public Health Conference & Eighteenth National Public Health Colloqium*, Kuala Lumpur, Malaysia, Sep, 2011.
2. **Ahmad AM**, Khalil M, Wynter K, Minas H, Fisher JRW. Health services use, maternal health and pregnancy outcomes in Pakistan. Presented at *New Evidence in Maternal, Neonatal Child Health & Family Planning in Pakistan “The Way Forward"*, Health Services Academy, Dec, 2010.
3. Khalil M, Malik A, **Ahmad AM**, et al. Health Education in Improving Breast Feeding Practices in Rural Areas of Pakistan. Accepted in *The 19th IUHPE world conference on Health Promotion & Health Education*, Vancouver, Canada; Jun, 2007.

# Health Systems and Devolution

1. Le Fevre A, Siddique D A, **Ahmad A M**, Gillani S. Improving equitable access to immunization in Pakistan: Digital solution design, impact, & cost-effectiveness. Presented in *Global Digital Health Forum*, Virtual presentation, Dec 2021
2. Malik A, Hill P, Ulikpan A, Hamid S, **Ahmad AM**. Implementation of decentralization in developing countries: a comparative analysis. Presented in *Second Global Symposium on Health Systems Research,* Beijing, China, Nov, 2012.
3. Malik A; Hill P; Khalil M; **Ahmad, AM**, Jimenez-Soto E; Fitzgerald L. Devolution Reforms 2001 in Pakistan: opportunities lost in strengthening health service delivery. Presented in *Promoting Public Health in the Wake of Recent Reforms in Pakistan Conference 2011,* Health Services Academy, Government of Pakistan, Dec, 2011.
4. **Ahmad AM**; Khalil M, Malik A, Minas H, Fisher JRW. Perinatal healthcare: A case study of service use in the primary healthcare system of rural Pakistan. Presented in *First Global Symposium on Health Systems Research,* Montreux, Switzerland, Nov, 2010*.*
5. Malik A; Hill P; Khalil M; **Ahmad, AM**, Jimenez-Soto E; Fitzgerald L. Pakistan’s devolution process – Implications for public health sector. Presented in *First Global Symposium on Health Systems Research,* Montreux, Switzerland, Nov, 2010*.*
6. Malik A, Hill PS, Khalil M, **Ahmad AM**. Availability of doctors and policy implications – a case study in Pakistan. Accepted in *PHAA Queensland Branch second Annual Conference,* Brisbane, Australia*,* Jul, 2009

# Infectious Diseases

1. **Ahmad AM**, Akhtar S, Hasan R, et al. Identification of risk factors for multi-drug resistance among patients with pulmonary tuberculosis: a case-control study in Karachi. Accepted in *The 22nd IUATLD Eastern Region Conference*, Kathmandu, Nepal; September 2003.
2. Athar MN, Khalid MA, **Ahmad AM**, et al. Crimean-Congo Hemorrhagic Fever Outbreak in Rawalpindi, Pakistan, February 2002: Contact Tracing and Risk Assessment. Accepted in *American Society of Tropical Medicine and Hygiene, 52nd Annual Meeting and Centennial Celebrations*, Philadelphia, USA, December 2003.

## PROPOSALS FOR GRANTS AND RESEARCH

Have taken lead roles/consultancies which secured the following:

2013 - 2014 Assessment of Recording and Reporting of Still Births in Routine Management Information Systems in Pakistan. A nearly UK £ 190,000 Grant funded by Research and Advocacy Fund (a UKAid and AusAID subsidiary) Pakistan, to CARE International, Pakistan.

2008 – 2011 Antenatal care services and Birth outcomes in rural Pakistan. A nearly Aus $ 28,000 post graduate student research grant funded by the University of Melbourne, Aus AID and National Commission for Human Development.

2007 - 2010 Strengthening & restructuring of primary health care system & Improving health of primary school students of Pak Rs. 3.8 billion (nearly US $ 48 million) for Primary Health Care system in 12 districts of Punjab Pakistan covering a population of 19.7 million in rural areas of the province. This program was focused towards health system strengthening through universal coverage in PHC system through facility and community-based components.

2004 - 07 Health Education and Services through Community Participation (*HESTCOP*) – Amounting to US $ 6.5 million from Gates and Melinda Foundation –USA, for Primary Health Care system-based health promotion and prevention program covering 1.1 million people in 13 rural districts of Pakistan. This program focused towards Woman and Child Health in rural areas of the country.

2005 – 06 Essential Health Care Centers in Earthquake affected areas (*EHCCs*) – Amounting to US $ 200,000 from *UNICEF*, Pakistan for Earthquake Relief Health Program., and Earthquake relief and disaster management programs.

2004 - 05 Facility based prevalence and anti-microbial susceptibility patterns of Hemophilus Influenzae isolated among children <5 years of age with acute meningitis, otitis media and respiratory tract infections; A multi-center study, in Pakistan, 2004 - (US $ 12,000)

2003 – 04 Efficacy of liquid form tissue culture anti-rabies vaccine in comparison to freeze dried form of tissue culture anti-rabies vaccine: A phase II single blind randomized controlled trial in Pakistan, 2004 – (US $ 1800 from *TDR* – *EMRO* Region, World Health Organization)

2003 – 04 Assessing the influence of *DEWS* training on the epidemic detection and preparedness among health care facilities in Pakistan and Azad Jammu and Kashmir; 2003 – (US $ 1500 from World Health Organization, Pakistan)

2003 - 04 A cross-sectional study: Sero-prevalence of *CCHF* and associated risk factor among humans, animals and Ticks in Loralai district, Balochistan.2003 (US $ 1600 from World Health Organization, Pakistan and National Institute of Health, Pakistan)

2001 – 02 Identification of Risk Factors for Multi-Drug Resistance among Pulmonary *TB* patients in Karachi, Pakistan– (US $ 1750 by University Research Committee, Aga Khan University, Pakistan)

## SCHOLARSHIPS

* 1. Awarded scholarship by Health SpaceAsia to present and participate at the Second Global Symposium on Health Systems Research, Beijing, China, Oct, 2012.
  2. Awarded *Harold Mitchell Fellowship 2010-11* from the University of Melbourne, for presenting at the University of Durham, UK, and at the First International Public Health Conference and Eighteenth National Public Health Colloqium, Kuala Lumpur, Malaysia, Sep 2011.
  3. Awarded scholarship by the conference secretariat to present and participate at the First Global Symposium on Health Systems Research, Montreux, Switzerland, Nov, 2010.
  4. Awarded a Government of Australia, Australian Development Scholarship (*ADS - AusAID*), for PhD in Health and Community Services, 2007 to 2010

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## STATISTICAL SKILLS

Descriptive and regression analysis (logistic, linear, cox) and survival analysis in SPSS and Stata softwares. Proficient in usage of Epi Info statistical software for data entry program designing, and data base management in MS Excel, Epi Info, SPSS and Stata. User-end knowledge of MS Access software.

## REECENT INTERNATIONAL TRAININGS-WORKSHOPS

* + 1. Training of Trainers on Health Facilities Data Analysis (Epidemiological) and its use, Cairo, Egypt Feb 2020
    2. Global Consultation on the Development of a Core Standardized Set of Nutrition Indicators and DHIS2 Nutrition Module, Nov 2019, Thailand, joint consultative workshop by UNICEF and BMGF.
    3. Global Burden of Disease – Technical Workshop on Methods, findings and implications of GBD 2017, May 2019, Greece; Institute of Health Metrics and Evaluation (IHME), University of Washington
    4. Child mortality workshop - Improving national capacity to estimate child mortality and stillbirth, April 2019, Jordan; Joint UNICEF and WHO Regional Workshop on behalf of the United Nations Inter-agency Group for Child Mortality Estimation (UN IGME)
    5. Regional workshop to develop national capacities in disease-specific health accounts in selected member states of the Eastern Mediterranean Region, December 2016 Egypt; WHO – EMRO Cairo, Egypt
    6. Inter-Country workshop on capacity of Member States to report on core indicators of WHO-Eastern Mediterranean Region, Aug 2016, Egypt; WHO – EMRO Cairo, Egypt

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| --- | --- | --- |
| Full/Part Time experience with Academic | Leading/Managing projects on behalf | Worked as Lead Consultant for   1. UN agencies (e.g. WHO, UNICEF, UNFPA) 2. Government (e.g. Govt. of Punjab, Government of Pakistan) 3. INGOs (e.g. CARE, Save the Children, ARC, PLAN, IRC) 4. Consulting firms (e.g. Coffey International, JSI, Mott MacDonald) |
| Institutions | of donor agencies |
| 1. The Aga Khan University, Pakistan | 1. AusAID |
| 1. The Johns Hopkins University, USA | 1. UKAid/FCDO |
| 1. The University of Melbourne, Australia | 1. WB |
| 1. Health Services Academy, Government   of Pakistan | 1. BMGF 2. 5. 3. 5. |
| 1. ADB |
| 5. University of Manitoba, Canada | 1. USAID |  |

## POST GRADUATE COURSE WORK

***University of Melbourne***

Biostatistics

1. Data management and statistical consulting
2. Survival analysis and regression for rates

Women’s Health and Health Promotion

1. Research project development
2. Women and global health
3. Women’s health promotion and evaluation

Program Evaluation

1. Scoping program evaluations

***The Aga Khan University***

Epidemiology and Public Health

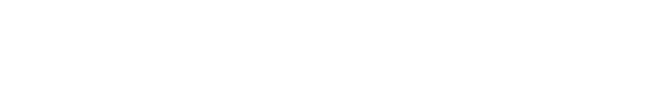
1. Principles of Epidemiology
2. Advanced Epidemiology
3. Selected topics in Epidemiology (I & II)
4. Epidemiological Study design Biostatistics
5. Fundamentals of Biostatistics,
6. Non-parametric statistics & multiple linear regression analysis
7. Applied logistic regression
8. Survival analysis

Public Health, Health Economics and Demography

1. Principles of Public Health
2. Demography & survey methods,
3. Rights ethics equity & health
4. Society culture and health
5. Critical appraisal & Protocol development
6. Health economics - Cost effectiveness & Cost analysis

## POST GRADUATE TEACHING

1. Teaching Principles of Epidemiology to Masters students, and Advanced Epidemiology to Masters and PhD level students at the Health Services Academy, Government of Pakistan (2013 to date)
2. Supervising PhD student enrolled at Texila American University (2021 – date)
3. Supervised 6 MSPH students enrolled at Health Services Academy, Pakistan (2021 – 2022)



**REFERENCES:** To be furnished on request.

1. University of Alabama at Birmingham, and Research Triangle Institute, USA. [↑](#footnote-ref-1)