



THE AGA KHAN UNIVERSITY

# CURRICULUM VITAE

**Imtiaz Hussain**

*Director Operations*

Centre of Excellence in Women and Child Health  
The Aga Khan University, Stadium Road,  
P.O. Box 3500, Karachi-74800, Pakistan.

## Personal Information

<b>Name</b>	<b>Imtiaz Hussain</b>
<b>Father's Name</b>	Muhammad Shafi Khan
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<b>Nationality /Passport #</b>	Pakistani / EZ6899313
<b>Date of Birth</b>	Jan 1 <sup>st</sup> , 1980
<b>Gender</b>	Male

## Academic

Degree	Institutions/Board	Degree award year
<b>Secondary School Examination</b>	Federal Board of Secondary Education Islamabad	1995
<b>Higher Secondary School Examination</b>	Board of Higher Secondary Education Karachi	1997
<b>BA-Honours (Sociology)</b>	University of Karachi	2001
<b>MA Sociology</b>	University of Karachi	2002
<b>Post Graduate Diploma in Public Administration (PGDPA)</b>	University of Karachi	2003

## Position Held

Period	Designation	Institution
<b>August 2021 → present</b>	Director Operations	Aga Khan University, Karachi
<b>December 2016 → July 2021</b>	Senior Manager Research	Aga Khan University, Karachi
<b>January 2014 → December 2016</b>	Manager Research	Aga Khan University, Karachi
<b>February 2009 → December 2013</b>	Senior Social Scientist	Aga Khan University, Karachi
<b>July 2004 → January 2009</b>	Social Scientist	Aga Khan University, Karachi
<b>August 2002 → June 2004</b>	Research Officer	Aga Khan University, Karachi
<b>March 2002 → July 2002</b>	Intern Research Associate	Aga Khan Planning and Building Service Pakistan

## Summary of Technical Expertise

I feel privileged to be affiliated with AKU from last two decades. I joined AKU as Research Officer and at present, I am working as Director Research Operations in the Centre of Excellence in Women and Child Health. After serving 20 years in the field of public health, my primary focus has been to improve Maternal and Child Health, Nutrition and Essential Immunization in Pakistan and globally, to foster a research culture with highest scientific and ethical standards and to promote an environment conducive for its researchers to engage in scientific inquiry. I have been working closely with the national stakeholders, private partners, ministries and the sponsor agencies to develop research ideas and innovations and implementing the evidence in programmatic settings to influence policy makers in the country. My research work has enabled me to undertake several high impact trials and key surveys such as the National Nutrition Survey in Afghanistan, Maldives, Eritrea and Pakistan and Polio Seroprevalence surveys in Pakistan and Afghanistan.

I have conducted more than 40 national, international and provincial scale research projects, submitted more than 50 technical reports/manuscripts, coordinated with more than 20 institutions/organizations [International Universities, UN agencies, INGOs such as The Harvard school of Public Health, World Bank, Bill and Melinda Gates Foundation (BMGF), Centre of Disease Control (CDC), Swiss Red Cross, World Health Organization]. I have gained expertise and abilities in areas such as

- Lead the development and submission of hi-end technical and financial proposals for extramural research funding
- Supervise and lead the coordination with line departments of AKU (HR, Safety and Security, IT, Research Office, Data Management Unit, Travel and Transport) for obtaining approval for timely submission of proposals and for planning and smooth implementation of projects activities.
- Execute and supervise national and international scale projects
- Liaison and Coordination with Provincial Health departments for implementation of different projects in collaboration with National programmes in different districts of Pakistan
- Obtain No Objection Certificates and approval from National, Provincial and district authorities for implementation of projects
- Obtain Ethical approvals from relevant Intuitional Review Boards for projects implementation
- Coordinate with funding agency and key stakeholders about project progress and plans
- Write/develop progress, inception, technical reports, abstracts and manuscripts
- Represent Aga Khan University at National and International forums
- Demonstrated cross-cultural sensitivity
- Resolve problems issue, conflicts related to project implementation
- Disseminate findings of research projects at International, National and Provincial platforms

## Key Achievements at Aga Khan University

1	Designation at Joining:	Research Officer (August 2002)
2	Current Designation:	Director Operations (Since August 2021)
3	Contributed in Projects:	Total 39 (Key contribution=25 and Co-contribution=14) District specific=19, Provincial=3, National=10, International=7
4	Publication:	Total 25, (Lead Author 07, Co-author 18)
5	Technical Report:	Total 29 (Key Contributed 13, Co-contributed 16)
6	Presentation	Total > 100 International Forums 23, National Forums > 80
7	Proposal writing:	Contributed in development /writing of > 37 technical and financial
8	Other Achievement	Young Investigator Award 2009 (Micronutrient Forum Beijing China)

## Major Contributions as Senior Manager Research - December 2016 → Continue

Centre of Excellence in Women and Child Health Aga Khan University

S#	Project Title	Key Contributions/Responsibilities	Key Partners
1	<p><b>Third Party Verification of Immunization Coverage Survey (TPVICS) 2019-2023:</b></p> <p>TPVICS is a district specific national scale survey, designed to verify coverage of routine immunization in all 152 districts of Pakistan.</p> <p>The aim of TPVICS is to independently verify and ascertain in a transparent manner, the validity of the data reported by the provinces, and districts, on immunization coverage in the provinces, territories and districts of Pakistan.</p> <p>TPVICS is funded by World Bank and BMGF and implemented by Centre of excellence in Women and Child Health Aga Khan University in collaboration with National and Provincial program authorities of Expanded Program of Immunization.</p>	<p><b>Project Director</b></p> <ul style="list-style-type: none"> <li>○ Development and finalization of survey proposal with the support and guidance of investigators</li> <li>○ Coordination with AKU line department for approvals of project grants checklist</li> <li>○ Obtaining clearance from ethical review boards of AKU and National Bio Ethics Committee (NBC)</li> <li>○ Obtaining NOCs from provincial and district authorities</li> <li>○ Coordination with funding agencies, national and provincial program authorities about progress and plans of survey</li> <li>○ Development and finalization of survey methodology, operational plan, data collection instruments and manuals</li> <li>○ Presented survey methodology, time lines and other relevant documents to Survey Technical Committee at National EPI office Islamabad for their review and endorsement</li> <li>○ Coordination with National and provincial Expanded Program of Immunization (EPI) authorities regarding survey implementation and approvals from district authorities</li> <li>○ Development, finalization and submission of inception report to BMGF and World bank</li> <li>○ Coordination with relevant departments of University for support in implementation of survey</li> <li>○ Hiring of core team in consultation with investigators and HR</li> <li>○ Conducted repeated meetings with all line departments to ensure preparations for survey operations</li> <li>○ Provided guidance to project managers and coordinators for timely preparations and initiation of field activities</li> <li>○ Facilitated four days Master Trainers Training (ToT) workshop for the survey provincial managers and district coordinators</li> <li>○ Facilitated divisional training workshops for Sindh, Punjab, Gilgit Baltistan and Azad Jammu and Kashmir (AJK)</li> <li>○ Review of collected data on daily basis for quality assurance</li> <li>○ Sharing weekly feedback with team for timely actions for improvement</li> <li>○ Supervised the sub-awarding process of survey activities in Balochistan and KP</li> </ul>	<ul style="list-style-type: none"> <li>○ World Bank</li> <li>○ Bill and Melinda Gates Foundation (BMGF)</li> <li>○ World Health Organization (WHO)</li> <li>○ Global Alliance for Vaccine (GAVI)</li> <li>○ Ministry of Planning and development Government of Pakistan</li> <li>○ National and provincial Program Authorities</li> <li>○ Pakistan Bureau of Statistics (PBS)</li> </ul>
2	<p><b>Baseline Survey of Central Asia Stunting Prevention Project 2019-22.</b></p> <p>CASI Project is design to contribute in reduction</p>	<p><b>Project Coordinator</b></p> <ul style="list-style-type: none"> <li>○ Contributed in development and finalization of survey technical and financial proposal</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> </ul>	<ul style="list-style-type: none"> <li>○ Aga Khan Foundation (Global)</li> <li>○ Aga Khan Foundation</li> </ul>

	<p>of stunting among children of under five years of age in remote areas of three countries (<b>Pakistan, Afghanistan and Tajikistan</b>).</p> <p>CASI Project is Funded by Aga Khan Foundation (Global) and implemented by Country team of AKF and AKHSP.</p> <p>Impact assessment (Baseline and End-line) will be conducted by Aga Khan University Pakistan</p>	<ul style="list-style-type: none"> <li>○ Obtaining clearance from ethical review boards of AKU and country specific ethics committees for survey implementation</li> <li>○ Obtaining NOCs from provincial and district authorities for survey implementation in GB and Chitral</li> <li>○ Coordination with AKF Global and country specific teams about progress and plans of survey implementation</li> <li>○ Supported in development and finalization of survey operational methodology, data collection instruments, Manuals and timelines</li> <li>○ Conducted repeated meetings with all line departments to ensure preparations for survey operations</li> <li>○ Provided guidance to project Managers and coordinators for timely preparations</li> <li>○ Facilitated country specific training workshops of data collection team at Islamabad, Kabul and Tajikistan</li> <li>○ Review of collected data on daily basis for quality assurance and sharing feedback with team for timely improvements</li> <li>○ Supervised data collection activities in Gilgit and Chitral</li> <li>○ Presented survey findings to country teams in dissemination workshop</li> </ul>	<p>Pakistan, Tajikistan, and Afghanistan</p> <ul style="list-style-type: none"> <li>○ Aga Khan Health Services, Pakistan, Tajikistan and Afghanistan</li> </ul>
3	<p><b>Community based Cross-sectional Surveys to evaluate the Seroprevalence of Polio antibodies in 2 cities of Afghanistan. January 2020- June 2021</b></p> <p>A community based cross sectional survey was designed to quantify level of serological protection (Sero-prevalence) against poliovirus in high risk children of two urban cities of Afghanistan.</p> <p>This survey was conducted in Kandahar and Jalalabad from October to December 2020.</p> <p>Project is funded by CDC Atlanta USA.</p>	<p><b>Survey Manager</b></p> <ul style="list-style-type: none"> <li>○ Development and finalization of survey technical proposal with the support and guidance of investigator.</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> <li>○ Introduce GIS technique for selection of subjects from the target area</li> <li>○ Obtaining clearance from Ethical review boards of AKU, National Bio Ethics committee government of Pakistan and Institutional Ethical review Board of Ministry of Health Afghanistan for survey implementation</li> <li>○ Coordination with funding agencies, program authorities of Afghanistan and partners in about progress and plans of survey</li> <li>○ Development/finalization of survey operational methodology, data collection instruments, Manuals and time lines</li> <li>○ Coordination with relevant departments of University for support in implementation of survey</li> <li>○ Conducted repeated meetings with all line departments to ensure preparations for survey operations</li> <li>○ Provided guidance to project Managers and coordinators for timely preparations</li> <li>○ Review of collected data on daily basis for quality assurance and provided feedback to team for timely actions</li> <li>○ Supervised the sub-awarding process of survey activities</li> <li>○ Coordinated with CDC for samples shipment, sample analysis,</li> <li>○ Sharing of survey results with program authorities for appropriate actions</li> <li>○ Sharing of survey findings at National and international forums on behalf of Aga Khan University</li> </ul>	<ul style="list-style-type: none"> <li>○ CDC Atlanta</li> <li>○ GHD Oman</li> <li>○ Polio Program/ National Emergency Operation Cell (NEOC) Afghanistan</li> <li>○ WHO Afghanistan</li> <li>○ CAF Afghanistan</li> <li>○ AKU Program Office Kabul Afghanistan</li> </ul>

		<ul style="list-style-type: none"> <li>○ Development and submission of manuscript for publication</li> </ul>	
4	<p><b>Pakistan National Nutrition Survey 2017-2018</b></p> <p>The National Nutrition Survey (NNS 2018) is the largest survey ever conducted in Pakistan on maternal and child nutrition with district specificity.</p> <p>The survey was undertaken with the major objective to assess the population nutritional status; especially of women and children with provincial specificity, representative maternal sample and interview of elder person.</p>	<p><b>Manager Survey Operations</b></p> <ul style="list-style-type: none"> <li>○ Supported investigators in development and finalization of survey technical and financial proposal</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> <li>○ Obtaining clearance from Ethical review boards of AKU and National Bio Ethics Committee for survey implementation</li> <li>○ Obtaining NOCs from Provincial and district authorities for survey implementation</li> <li>○ Coordination with UNICEF and other partners about progress and plans of survey implementation</li> <li>○ Contributed in development and finalization of survey operational plan, methodology, data collection instruments, Manuals and timelines</li> <li>○ Conducted repeated meetings with all line departments to ensure preparations for survey operations</li> <li>○ Provided guidance to project Managers and coordinators for timely preparations</li> <li>○ Facilitated training workshops of data collection team</li> <li>○ Review of collected data on daily basis for quality assurance and provided feedback to team for timely action</li> <li>○ Supervised data collection activities in Sindh, Punjab and Gilgit Baltistan.</li> </ul>	<ul style="list-style-type: none"> <li>○ UNICEF Pakistan</li> <li>○ Ministry of Health – Nutrition Support Unit</li> <li>○ Pakistan Bureau of Statistics (PBS)</li> <li>○ Implementing Partners</li> </ul>
5	<p><b>Willows Impact Evaluation (WIE) 2017-2020</b></p> <p>The implementation and impact evaluation of the Willows International’s Reproductive Health Programs in Ghana, Pakistan, Tanzania and Turkey is a multi- research project of Harvard University.</p> <p>Aga Khan University (AKU) in collaboration with Harvard University has implement a research project which aims to independently evaluate the implementation and impact of the Willows’ Reproductive Health Program in Pakistan.</p>	<p><b>Project Manager</b></p> <ul style="list-style-type: none"> <li>○ Supported project investigators in development and finalization of survey technical and financial proposal</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> <li>○ Obtaining clearance from Ethical review boards of AKU and National Bio Ethics Committee and approvals from district authorities for data collection</li> <li>○ Coordination with project team of Harvard about progress and plans of survey implementation</li> <li>○ Worked with Harvard team in development and finalization of survey operational plan, methodology, data collection instruments, Manuals, timelines and data collection applications</li> <li>○ Presented impact evaluation methodology and implementation plan in 1<sup>st</sup> annual meetings of Willows project at Harvard university Boston USA</li> <li>○ Conducted weekly virtual meetings with Harvard technical team to discuss updates and plans of the project.</li> <li>○ Facilitated training workshops of data collection team</li> <li>○ Worked with project team for the finalization of 4 manuscripts</li> <li>○ Sharing of study findings at national and international forums on behalf of Aga Khan university</li> <li>○ Development and submission of manuscript for publication</li> </ul>	<ul style="list-style-type: none"> <li>○ Department of Global Health and Population at the Harvard T. H. Chan School of Public Health.</li> <li>○ Willows International</li> </ul>
6	<p><b>Mid-Term Evaluation of Enhancing Nutrition</b></p>	<p><b>Project Manager</b></p>	<ul style="list-style-type: none"> <li>○ University of Toronto, Canada</li> </ul>

	<p><b>Services to Improve Maternal and Child Health in Africa and Asia (ENRICH) project. 2020</b></p> <p>The objective of the mid-term evaluation is to evaluate the progress of the program since inception as well as lessons learned to improve implementation. The mid-term evaluation will focus on measuring effectiveness of progress towards targets to-date.</p>	<ul style="list-style-type: none"> <li>○ Supported project investigators in development and finalization of survey technical and financial proposal</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> <li>○ Obtaining clearance from Ethical review boards of AKU and National Bio Ethics Committee and approvals from district authorities for data collection</li> <li>○ Coordination with University of Toronto, Canada team about progress and plans of survey implementation</li> <li>○ Worked with University of Toronto team in development and finalization of survey operational plan, methodology, data collection instruments, Manuals, timelines and data collection applications</li> <li>○ Conducted virtual meetings with University of Toronto, technical team to discuss updates and plans of the project.</li> <li>○ Facilitated training workshop of data collection team</li> <li>○ Review of data quality on daily basis and provide feedback to team for rapid actions for improvements</li> <li>○ Worked with project team for the finalization survey report</li> </ul>	<ul style="list-style-type: none"> <li>○ World Vision Canada (WVC)</li> <li>○ District Health and Administrative authorities</li> </ul>
7	<p><b>Strengthening Essential Immunization Services in District Kila Abdullah (SEISKA), Balochistan</b></p> <p>A project to support district authorities in improvement of routine immunization coverage in 12 union councils of Kila Abdullah districts</p>	<ul style="list-style-type: none"> <li>○ Development and finalization of survey technical and financial proposal with the support of project team</li> <li>○ Coordination with all line department for the approval of project grants checklist</li> <li>○ Coordination with program authorities about progress and plans of project implementation</li> <li>○ Coordinate with BMGF core team about progress and plans of project implementation</li> <li>○ Support project manager in development, coordination and execution of projects activities</li> <li>○ Support project team in implementation of training events for project team</li> <li>○ Sharing of project progress with relevant authorities and stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>○ Bill and Melinda Gates Foundation (BMGF)</li> <li>○ Provincial PE/EPI program authorities</li> <li>○ District administrative and health authorities</li> </ul>

## Manager Research Program January 2014 → December 2016

Department of Paediatrics and Child health Aga Khan University

S#	Title of projects and description	Major responsibilities
1	<p><b>Survey Manager - Repeated Cross-sectional Surveys to evaluate the Seroprevalence of Polio antibodies in 21 high risk districts of Pakistan.</b></p> <ul style="list-style-type: none"> <li>○ Repeated cross sectional surveys were designed to quantify level of serological protection (Seroprevalence) against poliovirus types 1, 2 and 3 among children 6-11 years of age in 12 polio high risk districts of Pakistan.</li> <li>○ Project is Implemented by Department of Paediatrics and Child Health, Aga Khan University in collaboration with National and provincial Emergency Operation Cells (EOCs).</li> <li>○ Survey is awarded to Aga Khan University in August 2016 and will be completed by December 2017. Project is funded by BMGF</li> </ul>	<ul style="list-style-type: none"> <li>○ Develop of protocols/proposals for different grants related to Maternal, Child health and Nutrition</li> <li>○ Ensure timely Implementation of</li> </ul>

2	<p><b>Survey Manager - Cross-sectional Surveys to evaluate the Seroprevalence of Polio antibodies in 14 provinces of Afghanistan.</b></p> <ul style="list-style-type: none"> <li>○ A facility based cross sectional survey was designed to quantify level of serological protection (Seroprevalence) against poliovirus types 1, 2 and 3 in high risk children of Afghanistan.</li> <li>○ This survey was conducted in Provincial Head Quarter Hospital of Kandahar Afghanistan from June 2017-december 2017.</li> <li>○ Project is funded by WHO Geneva.</li> </ul>	<p>Qualitative and Quantitative of research projects in different community setting in Pakistan</p> <ul style="list-style-type: none"> <li>○ Ensure quality of on-going research projects and programs through monitoring and close supervision.</li> </ul>
3	<p><b>Survey Manager- A cross sectional survey to evaluate the Seroprevalence of Polio, Tetanus and Measles antibodies in 6 high risk union councils of Pakistani.</b></p> <ul style="list-style-type: none"> <li>○ A cross sectional survey was designed to quantify level of serological protection (Seroprevalence) against poliovirus types 1, 2 and 3 in high risk children of Pakistan. This survey was conducted in five polio high risk districts of Pakistan (Karachi Gadap Town UC 4, Kacha river area District Kashmore, Peshawar, Banu Nowshera. District Faisalabad was taken as a reference Area).</li> <li>○ Survey was funded by World Health Organization (WHO) Geneva. Implemented by Department of Paediatrics and Child Health, Aga Khan University Pakistan, in collaboration with National and provincial Emergency Operation Cells (EOCs).</li> <li>○ Survey was awarded to Aga Khan University in August 2015 and completed July 2016. Manuscript of this survey is in review of technical team of World Health Organization (WHO) and published in Vaccine Journal</li> </ul>	<ul style="list-style-type: none"> <li>○ Liaisons with funding agencies regarding the progress, fund management and utilization</li> <li>○ Liaisons with health public and private stakeholder at national &amp; provincial level for smooth implementation of joint projects</li> </ul>
4	<p><b>Project Manager- Evaluation of effectiveness of home-based management of acute severe malnutrition through lady workers as compare to facility-based care:</b></p> <ul style="list-style-type: none"> <li>○ A cluster randomized controlled trial in district Dadu Pakistan: Primary objective of this project is to evaluate the effectiveness (rate of recovery, burden &amp; coverage), of SAM standard management of children under-five years delivered at household level by first level health care providers (Lady health workers) compared with the standard CMAM program delivered at health facility by Govt./ACF staff.</li> <li>○ This project was awarded to AKU by ACF</li> <li>○ Project was implemented from March 2014 to July 2016.</li> </ul>	<ul style="list-style-type: none"> <li>○ Conduct socio-Behavioural research (Quantitative and Qualitative Research)</li> </ul>
	<p><b>Survey Coordinator - National Micronutrient Survey Eritrea 2013-17:</b></p> <ul style="list-style-type: none"> <li>○ A national Cross-sectional survey of Eritrea will be conducted Survey will be conducted to assess the Micronutrient status among women reproductive age and children less than five years of age to develop and intervention strategy for policy makers.</li> <li>○ Aga Khan University was responsible to provide technical support in development and implementation of survey to Ministry of Health and National Statistics Organization Eritrea.</li> <li>○ Survey is awarded to AKU in March 2016 and completed in April 2017, funded by UNICEF Eritrea</li> </ul>	<ul style="list-style-type: none"> <li>○ Writing technical reports of the Projects/Research conducted (Technical, M&amp;E, financial, progress)</li> <li>○ Look after the data management process (Entry, cleaning, Analysis)</li> </ul>
6	<p><b>Project Manager- Rapid Assessment of District Health Information system (DHIS) in two districts of Pakistan (Matiari and Rahimyar Khan),</b></p> <ul style="list-style-type: none"> <li>○ This study was conducted in order to assess the gaps in maternal and child health care. Study was awarded to Department of Paediatrics and Child Health, Aga Khan University under the umbrella of MFID.</li> <li>○ Study has been successfully implemented and findings of study was presented technical group in Dubai Meeting in February 2015.</li> </ul>	<ul style="list-style-type: none"> <li>○ Sharing of project findings at national and international levels on behalf of the Aga Khan University</li> </ul>

## Senior Social Scientist - February 2009 to December 2013

Department of Paediatrics and Child Health, the Aga Khan University, Karachi, Pakistan

S#	Title of projects and description	Major responsibilities
1	<p><b>Survey Manager, National Nutrition Survey Afghanistan 2013:</b></p> <ul style="list-style-type: none"> <li>A national cross-sectional survey was conducted in all 34 provinces of Afghanistan in 2013.</li> <li>Survey was funded by UNICEF Afghanistan, Supported, supervised by Aga Khan University and Ministry of Public Health Government of Afghanistan, Implemented by SRTRO.</li> <li>Survey was conducted to assess nutrition and micronutrient status among women reproductive age and children less than five years of age to develop and intervention strategy for policy makers.</li> </ul>	Support in development of technical and financial proposals
2	<p><b>Study coordinator AMANHI Study:</b></p> <ul style="list-style-type: none"> <li>Using on-going new-born intervention trials to obtain additional data on burden, timing and causes of maternal deaths, maternal morbidity, stillbirths and neonatal deaths critical to maternal, fetal and new-born health in a harmonized way.</li> <li>We are conducting this study to collect information on the health of women and babies. This information will help develop effective ways to improve the health of women and babies. (Project is funded by WHO).</li> </ul>	Contribute in hiring, training and supervision of project activities  Obtain ethical approvals
3	<p><b>Human Resource Survey for the Health Department, Government of Sindh 2012:</b></p> <ul style="list-style-type: none"> <li>Situation Analysis of Public Health Facilities were conducted in provinces Sindh to help in making human resource strategy for government of Sindh (Survey funded by JSI-Pakistan)</li> </ul>	Support in development and finalization project instruments, manuals, SOPs
4	<p><b>Post intervention Health and Nutrition Assessment 2011 assessment in 12 flood affected districts of Punjab and Sindh:</b></p> <ul style="list-style-type: none"> <li>This was a cross sectional survey in 12 flood effected districts in three provinces (Punjab, Sindh and Balochistan) of Pakistan.</li> <li>The main purpose of this survey is to assess the impact of intervention in flood affected districts of Pakistan (Funded by USAID Pakistan).</li> </ul>	Supervise data collection activities
5	<p><b>National Nutrition Survey 2011 (January 2011):</b></p> <ul style="list-style-type: none"> <li>The National Nutrition Survey (NNS 2011) is the largest survey ever conducted in Pakistan on maternal and child nutrition with provincial specificity.</li> <li>The survey was conducted a decade after the last such survey (at a national level) and was undertaken with the major objective to assess the population nutritional status; especially of women and children with provincial specificity, representative maternal sample and interview of elder person.</li> <li>The NNS 2011 covers all provinces Gilgit Baltistan, Balochistan, Khyber Pakhtunkhwa (KPK), Sindh, Punjab including AJK and FATA. This survey funded by UNICEF Pakistan.</li> </ul> <p><b>5b. National Immunization Coverage Survey 2011 (January 2011):</b></p> <ul style="list-style-type: none"> <li>A sub grant awarded to AKU by USAID to conduct immunization survey with National Nutrition Survey, targeting all children under five years of age in selected clusters.</li> </ul>	Coordination between project manager and field staff  Ensure data quality
6	<p><b>SODIS Health Impact Assessment District Faisalabad (April-June 2011):</b></p> <ul style="list-style-type: none"> <li>A cross sectional Survey was carried out in District Faisalabad to measure the health impact of the SODIS-method in disinfecting water samples under natural and uncontrolled field conditions in Pakistan through a case control cross sectional survey.</li> <li>This project is funded by SWIS embassy and CAP Faisalabad.</li> </ul>	
7	<p><b>National Vitamin A Coverage Assessment and Validation Survey (2010-2011).</b></p> <ul style="list-style-type: none"> <li>Vitamin A Supplementation Coverage Validation Survey Pakistan 2011 was conducted in all four provinces of Pakistan i.e. Sindh, Khyber Pakhtunkhwa (KPK), Balochistan, Punjab (Northern, Southern, Western and Central regions) December 2010.</li> <li>The main objective of conducting coverage validation survey was to determine the actual situation of Vitamin A supplementation coverage, validating the coverage generated through NIDs monitoring and reporting system, and to identify uncovered areas if any and to assess the factors contributing to poor VAS coverage.</li> <li>This survey funded by Micronutrient Initiative Pakistan.</li> </ul>	

8	<p><b>Rapid health and Nutrition assessment in 12 flood effected districts of Punjab and Sindh (Oct –Dec 2010):</b></p> <ul style="list-style-type: none"> <li>• This was a cross sectional Survey in 12 flood effected districts of province Punjab and Sindh.</li> <li>• The major purpose of this survey is to assess the nutrition, maternal and child health, and food security status of the flood affected population to help in making recommendations for interventions in the affected areas. (Funded by USAID Pakistan).</li> </ul>	
9	<p><b>Health Facility coverage assessment Survey (October –December 2010)</b></p> <ul style="list-style-type: none"> <li>• A cross section survey was conducted to assess the health utilization practices among residents of enchantment area surrounded by Aga Khan Medical Centre Garden (University Grant).</li> </ul>	
10	<p><b>National Mortality Survey of Pakistan (April-October 2010).</b></p> <ul style="list-style-type: none"> <li>• This was a National Cross sectional Survey, to assess the neonatal, infant, child and maternal mortality rates in 12 districts of Pakistan. (PAIMAN Funded).</li> </ul>	
11	<p><b>Pre and post Impact Evaluation of POUZN Intervention (June-Nov 2010):</b></p> <ul style="list-style-type: none"> <li>• This is a cross Sectional survey in 9 districts of Pakistan to evaluate the achievements of the POUZN program related to demand creation for the use and prescription of zinc.</li> </ul>	
12	<p><b>Improved Recognition of and Response to PL &amp; BA (October 2008 to May 2010):</b></p> <ul style="list-style-type: none"> <li>• Three phased qualitative study was conducted to describe the cultural norms pertaining to Prolonged Labor (PL) and Birth Asphyxia (BA), and map the process of problem recognition and response to PL and BA, examining the relationships between cultural norms, individual health beliefs, and personal experience of women and caregivers with PL or BA. This project was funded by JSI.</li> </ul>	
13	<p><b>Formative Focus Group Study of Community Knowledge and Attitudes related to Typhoid Fever and Participation in the VIVA Vaccination Program in Karachi, Pakistan. Jun-Aug 2009:</b></p> <ul style="list-style-type: none"> <li>• To assess perceptions, attitudes and interest in typhoid fever and use of the Vi vaccine against the disease for school-age children and to assess credible and common sources of information and media usage by the target communities in order to inform the design and planning of appropriate and effective social mobilization and communication activities.</li> <li>• The study was conducted in the townships of Gulshan-e-Iqbal, Karachi, Pakistan.</li> </ul>	

## Social Scientist - July 2004 → Jan 2009

Department of Paediatrics and Child Health, the Aga Khan University, Karachi, Pakistan

Project title and descriptions	Responsibilities
<p>1. <b>Delivery of Essential Intervention Package for Maternal &amp; Child Survival through CHWs in District Gwadar, Pakistan (A Community based Cluster Randomized Trial) November-December 2009:</b> This study was conducted to develop and implement an Essential intervention package which will embark on all component of continuum of care through trained Community health workers with the aim to improve the Maternal, Neonatal and Child survival and to contribute in the achievement of the national targets for MDG4 and MDG5 by accelerating and sustaining actions to reduce maternal and childhood mortality. (Project has been appended due to the law &amp; order situation)</p>	<p>Support investigators in development of financial and technical proposals</p> <p>Instrument development (Study protocol, Manuals, data collections tool)</p>
<p>2. <b>National Micronutrient Surrency Republic of Maldives July 2007 to September 2008):</b> A national Cross-sectional survey was conducted in 2016-07. Survey was funded by UNICEF Maldives, Supported, Supervised and Monitor by Aga Khan University and Implemented by Ministry of Health Maldives. Survey was conducted to assess the Micronutrient status among women reproductive age and children less than five years of age to develop and intervention strategy for policy makers.</p>	<p>Hiring &amp; Training of field staff and Monitoring of field activity</p>
<p>3. <b>KAP Survey on Iodized Salt Utilization in two Provinces of Pakistan:</b> A crosses section survey was conducted in two province of Pakistan (Punjab and Sindh) to assess the Knowledge, Attitude and Practice (KAP) on Iodized Salt Utilization. This project was funded by UNICEF Pakistan.</p>	

<p>4. <b>National Complementary Feeding Survey (CFS): July 2006-June 2007:</b> This was a baseline survey throughout country including four districts of earth quick effected areas to assess the care and feeding practices to develop a national strategy for interventions. This project was founded by UNICEF Pakistan and implemented by Department of Paediatrics and Child Health Aga Khan University in Collaboration with national steering committee for complementary feeding.</p> <p>5. <b>Effectiveness of Zinc Treatment in Acute Childhood Diarrhoea Project:</b> January –June 2006: This was a demonstration project, implemented to assess effectiveness of zinc supplementation in acute childhood diarrhoea in community setting through local health system to objectively study its sustainability in the existing setting and form a model for implementation in national programme. Project was undertaken by Department of Paediatrics Aga Khan University in collaboration with WHO and Ministry of Health Government of Sindh.</p> <p>6. <b>Post intervention impact assessment Survey of Nutrition Supplement Acceptability World Food Project: October to December 2005:</b> The project was designed as a concurrent randomized intervention in three target areas which are representative of at risk populations in both urban and rural Sind. This allowed an in-depth evaluation of the intervention and yielded data that might be of use for future up-scaling of the programme, undertaken by Department of Paediatrics Aga Khan University in collaboration with WFP, MI and Ministry of Health Government of Sindh.</p> <p>7. <b>Impact Assessment &amp; Evaluation of Tawana Pakistan Project June 2004-September 2005:</b> Tawana Pakistan is a unique and countrywide school feeding program of the Ministry of Women Development, Government of Pakistan whose main objectives include improving the nutritional status of girls in primary schools and community, increase enrolment and sustain attendance of girls in primary schools and access girls in community who don't attend school. The Impact Assessment and Evaluation wing is intending on observing the impact outcomes of the implementation of the Tawana Program</p>	<p>Translation and transcription of qualitative data</p> <p>Look after the Data management process (Entry, cleaning, Analysis)</p> <p>Report writing (Progress report, Project Reports etc.)</p> <p>Logistic arrangements</p>
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## Research Officer - August 2002 → May 2004

Department of Paediatrics and Child Health, the Aga Khan University, Karachi, Pakistan

Project title and descriptions	Responsibilities
<p>I have been conducted various tasks in Typhoid Vi Vaccine Effectiveness Demonstration Project undertaken by Department of Paediatrics Aga Khan University in collaboration with the Diseases of the Most Impoverished (DOMI) Program of the International Vaccine Institute (IVI), Seoul, Korea. This project was implemented in seven developing countries of the world. I was one of the leading persons to accomplish following tasks:</p> <ol style="list-style-type: none"> <li>1. Typhoid Socio-behaviour studies (qualitative and quantitative) to know the participation and practices of community regarding typhoid fever and typhoid vaccine.</li> <li>2. Typhoid Willingness to pay study, to know the willingness of community to receive typhoid vaccine.</li> <li>3. Typhoid Cost of Illness study (institutional cost, private cost of illness and vaccine trial cost) to estimate the economic burden of typhoid fever.</li> <li>4. Census in Hijrat and Sultanabad colonies consisting of 72000 populations.</li> <li>5. Census in Bilal Colony consisting of eighty thousand populations.</li> </ol>	<p>Instrument development (Study protocol, Manuals, data collections tool)</p> <p>Hiring &amp; Training of field staff and Monitoring of field activity</p> <p>Translation and transcription of qualitative data</p> <p>Look after the Data management process (Entry, cleaning, Analysis)</p>

## Key Project Presentations at National and International Forums

- ✓ Presented **findings of CASI baseline survey of three countries (Pakistan, Tajikistan and Afghanistan)** in dissemination workshop organized by Aga Khan Foundation Global at Dubai on January 19-20, 2020. Representatives of AKF and AKHS from respective countries participated
- ✓ Presented design and methodology of **third-party immunization coverage survey** to the honorable federal secretary, ministry of planning and development Mr. Rana Mutahir at P&D secretariat Islamabad on July 15th 2020 for his support and directives to PBS for issuing of sampling frame for TPVICS.
- ✓ Presented methodology and implementation strategies of **third-party immunization coverage survey** at National Inter-coordination Committee (NICC) meeting held at National EOC Islamabad on February 14, 2020 chaired by the Special Assistant/advisor to Prime Minister on Health, Dr. Zafar Mirza and honorable advisor granted approval for execution of survey activities.
- ✓ Presented methodology and implementation strategies of **third-party immunization coverage survey** in mid-term review of National immunization Support project (NISP) at **PC Hotel Bhurban** on February 4, 2020. Meeting chaired by the Special Assistant/advisor to Prime Minister on Health, Dr. Zafar Mirza and National Programs Coordinator Dr. Rana Muhammad Safdar and participated by all provincial and regional program authorities.
- ✓ Presented methodology and implementation strategies of **third-party immunization coverage survey** in Sub-technical Committee Meetings held at the office of national Expended program of Immunization office Islamabad on October 28, November 5, 2019 and December 13, 2019 for the finalization of survey methodology and operational strategies. Meetings chaired by federal Manager Expended program of Immunization Dr. Arshad Chandio
- ✓ Presented methodology and implementation plan and timelines of **third-party immunization coverage survey** to the representatives of all line department of Aga Khan University on November 5, 2019 to brief them about scope of survey and timelines and support required for the concern departments.
- ✓ Presented methodology and implementation plan and timelines of **third-party immunization coverage survey** to the provincial authorities of expended program of immunization in the month of November and December 2019, to brief them about scope of survey, timelines and support required for implementation of survey
- ✓ Presented methodology adopted for the development of **digitalized maps** of High risk union councils of Gadap to support polio program in identification of gaps to increase campaign coverage of supplementary and routine immunization in high risk union councils of Pakistan at progress review meeting at **Emergency Response Unit Gadap** chaired by chaired by the Special Assistant/advisor to Prime Minister on Health, Dr. Zafar Mirza and National Programs Coordinator Dr. Rana M. Safdar and participated by all provincial program authorities.
- ✓ Presented methodology adopted for the development of **digitalized maps** of High risk union councils of Gadap to support polio program in identification of gaps to increase campaign coverage of supplementary and routine immunization in high risk union councils of Pakistan at provincial action plan review meetings of essential immunization services at **Karachi and Islamabad.**
- ✓ Presented results of serological studies conducted in Pakistan and Afghanistan at 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> Polio Research Committee (PRC) Meeting held at **WHO office Geneva, BMGF office Seattle** and National Institute of Infectious Diseases (NIID) in **Tokyo, Japan.**
- ✓ Presented progress and plans of willows project activities in three annual meetings organized by Harvard University at **Harvard University Boston USA** on September 2017, October 2018 and November 2019
- ✓ Presented key findings of retrospective and prospective studies of Willows project to the core research team faculty of **Harvard University on May 24<sup>th</sup> 2019 at Harvard University.**
- ✓ Presented results of facility based Sero-survey conducted in 14 provinces of Afghanistan to the core technical/scientific team of CDC at **CDC office Atlanta USA** on May 15, 2019

- ✓ Presented progress and plans of SRC project Dadu to the technical team of Swiss Red Cross at **Burn Switzerland** during annual meetings in year 2016, 2017 and 2018

## PUBLICATIONS

1. Tabassum, Shanila Nooruddin, Atif Habib, Noshad Ali, **Imtiaz, Hussain**, Alfred Pach, Zahid Memon, Sajid Soofi, Zulfiqar A. Bhutta, "Programmatic Evaluation of a School-Based Typhoid Vaccination Campaign: Findings of Qualitative Research. Published in International Journal Of Community Medicine And Public Health
2. Amalia, Mendes, MPH, MS<sup>1</sup>, Ari Whiteman, PhD, MSc<sup>1</sup>, Benjamin Nygren, MPH<sup>2</sup>, Brian Kaplan, MS, MA<sup>1</sup>, Imtiaz Hussain, MA, PGDPA<sup>3</sup>, Sajid Soofi, FCPS, MBBS<sup>3</sup>, Maureen Martinez, MPH<sup>2</sup>, Noha Farag, MD, PhD<sup>2</sup> A GIS based household sampling method for serological assessment of immunity to poliovirus in Afghanistan.
3. **Imtiaz Hussain**, Sidrah Nausheen, Mirbaz Khan, Kristy Hackett, Arjumand Rizvi, Uzair Ansari, Zohra S Lassi, David Canning, Iqbal Shah, Sajid Bashir Soofi. Distance-quality trade-off and choice of family planning provider in Urban Karachi, Pakistan. Accepted for publication in European Journal of Nutrition.
4. Amalia, Mendes, MS, Ari Whiteman, Benjamin Nygren, Brian Kaplan, **Imtiaz Hussain**, Maureen Martinez,, Sajid Soofi, Noha Farag, MD, PhD2. A GIS based household sampling method for serological assessment of immunity to poliovirus in Afghanistan.
5. Shabina Ariff, **Imtiaz Hussain**, Atif Habib, , Abid Hussain, Suhail Channar, Shahid Fazal, Arjumand Rizvi, Gul Nawaz Khan, Deepak Kumar, Jose Luis Alvarez, Saul Guerrero, Angeline Grant, Sajid Bashir Soofi. Effectiveness of management of Severe Acute Malnutrition (SAM) through community health workers as compared to a traditional facility-based model: a cluster randomized controlled trial. Short title: Community-Based Management of SAM
6. Mir Baz Khan, Sidrah Nausheen, **Imtiaz Hussain**, Kristy Hackett, Kaneez Zehra, Khalid Feroze, David Canning, Iqbal Shah and Sajid Bashir Soofi Conducting household surveys on reproductive health in urban settings: lessons from Karachi, Pakistan. BMC Medical Research Methodology (2021) 21:38. <https://doi.org/10.1186/s12874-021-01216-x>
7. Sahar Yameen, Sidrah Nausheen, **Imtiaz Hussain**, Kristy Hackett, Arjumand Rizvi, Uzair Ansari, Zohra S Lassi, David Canning, Iqbal Shah, Sajid Bashir Soofi, "The Family Planning "Know-do" gap among married women of reproductive age in urban Karachi, Pakistan". Submitted to CONTRACEPTION Journal for Publication.
8. Sidrah Nausheen; Maria Asif Bhura; Kristy Hackett, **Imtiaz Hussain**; Arjumand Rizvi; Uzair Ansari; Iqbal shah, Sajid Soofi; "Determinants of Short Birth Intervals among married women in Karachi, Pakistan" accepted for publication in BMJ Open. For peer review only - <http://bmjopen.bmj.com/site/about/guidelines.xhtml>
9. Kristy Hackett , Elizabeth Henry, **Imtiaz Hussain**, Mirbaz Khan, Khalid Feroz, Navdep Kaur, Ryoko Sato, Sajid Soofi , David Canning , Iqbal Shah. Impact of home-based family planning counselling and referral on modern contraceptive use in Karachi, Pakistan: a retrospective, cross-sectional matched control study. BMJ Open 2020;10:e039835. doi:10.1136/bmjopen-2020-039835
10. Voorman A, Habib MA, **Hussain I**, Safdar A, Ahmed JA, Weldon WC, Ahmed I, Umer M, Sajid M, Partridge J, Sajid Soofi. Immunity and Field Efficacy of Type 2-Containing Polio Vaccines after Cessation of Trivalent Oral Polio Vaccine: a population-based serological study in Pakistan. In press for publication in Vaccine JVAC-D-19-00785.
11. **Hussain I**, Habib A, Khan GN, Ariff S, Hussain A, Channar S, Fazal S, Rizvi A, Kumar D, Alvarez JL, Guerrero S, Grant A, Turab A, Soofi S. Effectiveness of community based management of severe acute malnutrition through Lady Health Workers as compared to a facility based program: A cluster randomized controlled trial in Dadu, Pakistan. In press for publication in the British Journal of Nutrition BJN-RA-19-0820.
12. Hsu CH, Wannemuehler KA, Soofi S, Mashal M, **Hussain I**, Bhutta ZA, McDuffie L, Weldon W, Farag NH. Poliovirus immunity among children under five years-old in accessible areas of Afghanistan, 2013. Vaccine. 2019 Mar 14;37(12):1577-83. (IF: 3.269/Citations:1)

13. **Hussain I**, Mach O, Hamid NA, Bhatti ZS, Moore DD, Oberste MS, Khan S, Khan H, Weldon WC, Sutter RW, Bhutta ZA, Soofi S. Seroprevalence of anti-polio antibodies in children from polio high risk area of Afghanistan: A cross sectional survey 2017. *Vaccine*. 2018 Apr 5;36(15):1921-4. (IF: 3.269/Citations:2)
14. Rogers E, Ali M, Fazal S, Kumar D, Guerrero S, **Hussain I**, Soofi S, Morán JL. Quality of care of treatment for uncomplicated severe acute malnutrition provided by lady health workers in Pakistan. *Public health nutrition*. 2018 Feb;21(2):385-90. (IF: 2.526/Citations:5)
15. Khan GN, Ariff S, Khan U, Habib A, Umer M, Suhag Z, **Hussain I**, Bhatti Z, Ullah A, Turab A, Khan AA. Soofi S. Determinants of infant and young child feeding practices by mothers in two rural districts of Sindh, Pakistan: a cross-sectional survey. *International breastfeeding journal*. 2017 Dec 1;12(1):40. (IF: 2.475/Citations:12)
16. *Kureishy S*, Khan GN, Arrif S, Ashraf K, Cespedes A, Habib MA, **Hussain I**, Ullah A, Turab A, Ahmed I, Zaidi S, Soofi S. A mixed methods study to assess the effectiveness of food-based interventions to prevent stunting among children under-five years in Districts Thatta and Sujawal, Sindh Province, Pakistan: study protocol. *BMC public health*. 2017 Dec;17(1):24. (IF: 2.567/Citations:7)
17. Soofi S, Khan GN, Sadiq K, Ariff S, Habib A, Kureishy S, **Hussain I**, Umer M, Suhag Z, Rizvi A, Bhutta Z. Prevalence and possible factors associated with anaemia, and vitamin B 12 and folate deficiencies in women of reproductive age in Pakistan: analysis of national-level secondary survey data. *BMJ open*. 2017 Dec 1;7(12): e018007. (IF: 2.376/Citations:9)
18. Habib MA, Soofi SB, Ali N, **Hussain I**, Tabassum F, Suhag Z, Anwar S, Ahmed I, Bhutta ZA. Knowledge and perceptions of polio and polio immunization in polio high-risk areas of Pakistan. *Journal of public health policy*. 2017 Feb 1;38(1):16-36. (IF: 2.113/Citations:7)
19. **Hussain I**, Mach O, Habib A, Bhatti Z, Suhag Z, Oberste MS, Weldon WC, Sutter RW, Soofi SB, Bhutta ZA. Seroprevalence of Anti-polio Antibodies in Children from Polio High-risk Areas of Pakistan. *The Pediatrics infectious disease journal*. 2017 Sep 1;36(9): e230-6. (IF: 2.723/Citations:2)
20. Khan GN, Turab A, Khan MI, Rizvi A, Shaheen F, Ullah A, Hussain A, **Hussain I**, Ahmed I, Yaqoob M, Ariff S, **Soofi S**. Prevalence and associated factors of malnutrition among children under-five years in Sindh, Pakistan: a cross-sectional study. *BMC nutrition*. 2016 Dec 1;2(1):69. (IF: 2.13/Citations 13)
21. Ariff S, Khan U, Turab A, **Hussain I**, Habib A, *Mansoor T, Mallick D*, Suhag Z, Bhatti Z, Ahmed I, **Soofi SB**. Evaluation of Solar Disinfection of water intervention delivered through Lady Health Workers in reduction of diarrheal episodes in under five children. *International Journal of Pediatrics and Child Care*. 2016;1(1):1.
22. Habib MA, Black K, Soofi SB, **Hussain I**, Bhatti Z, Bhutta ZA, Raynes-Greenow C. Prevalence and predictors of iron deficiency anemia in children under five years of age in Pakistan, a secondary analysis of national nutrition survey data 2011–2012. *PloS one*. 2016;11(5). (IF: 2.776/Citations 34)
23. Lassi ZS, Aftab W, Ariff S, Kumar R, **Hussain I**, Musavi NB, Memon Z, **Soofi SB**, Bhutta ZA. Impact of service provision platforms on maternal and newborn health in conflict areas and their acceptability in Pakistan: a systematic review. *Conflict and health*. 2015 Dec;9(1):25. (IF:1.66/Citations 9)
24. Pach A, Tabbusam G, Khan MI, Suhag Z, **Hussain I**, Hussain E, Mumtaz U, Tahir R, Mirani A, **Soofi S**, Yousafzai A. Formative research and development of an evidence-based communication strategy: the introduction of vi typhoid fever vaccine among school-aged children in Karachi, Pakistan. *Journal of health communication*. 2013 Mar 1;18(3):306-24. (IF: 1.648/Citations 7)
25. **Hussain I**, Soofi SB, Hasan S, Mehboob N, Hussain M, Rizvi A, Bhutta ZA. Impact on health and nutrition outcomes in Sindh province, Pakistan. *IDS Bulletin*. 2013 May;44(3):38-47. (IF: 0.319/Citations 3)
26. Soofi SB, **Hussain I**, Mehboob N, Hussain M, Bhatti Z, Khan S, Hasan S, Bhutta ZA. Impoverished Rural Districts of Pakistan: An Independent Evaluation of Impact on Educational and Cognitive Outcomes in Sindh Province, Pakistan. *IDS Bulletin*. 2013 May;44(3):48-56. (IF: 0.319/Citations 1)

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28. Khan GN, **Hussain I**, Soofi SB, Rizvi A, Bhutta ZA. A study on the household use of iodised salt in Sindh and Punjab provinces, Pakistan: Implications for policy makers. *Journal of Pharmacy and Nutrition Sciences*. 2012;2(2):148-54. (IF: 0.38/Citations 16)
29. **Imtiaz H**, Khan GN, Soofi SB, Bhutta ZA. Iodized salt use: assessment of iodine deficiency among under-five children and women of reproductive age in Sindh Province, Pakistan. *Iodized salt use: assessment of iodine deficiency among under-five children and women of reproductive age in Sindh Province, Pakistan*. 2009(2/2009):23-4. (IF: 2.723/Citations 18)
30. Lassi ZS, Aftab W, Ariff S, Kumar R, **Hussain I**, Musavi NB, Memon Z, **Soofi SB**, Bhutta ZA. Impact of service provision platforms on maternal and new-born health in conflict areas and their acceptability in Pakistan: a systematic review. *Conflict and health*. 2015 Dec;9(1):25. (IF: 1.66/Citations 9)

## Technical Reports

1. 2020- Mid-term report survey Pakistan- Enhancing Nutrition Services to Improve Maternal and Child Health in Africa and Asia (ENRICH), **Imtiaz Hussain**, Mukhtiar Channa, Tariq Samejo, Basharat Hussain, Ikram Nizamani, Imran Ahmed and Sajid Soofi
2. 2020-Inception report – Third Party Verification immunization coverage – **Imtiaz Hussain**, Atif Habib, Khan Mohammad Ali, Mirbaz Khan, Muhammad Umer and Sajid Soofi
3. 2020- Project End Report Technical report – Willows Impact Evaluation (WIE) 2017-2020, **Imtiaz Hussain**, Mirbaz Khan, Sajid Soofi
4. 2019- Project technical report – Facility based seroprevalence survey in 14 provinces of Pakistan. **Imtiaz Hussain**, Nasir A. Hamid, Shahid Khan, Khalid Feroze and Sajid Soofi
5. 2019- Project 2<sup>nd</sup> annual Report – Willows Impact Evaluation (WIE) 2017-2020, **Imtiaz Hussain**, Mirbaz Khan, Sahar Yamen, Sajid Soofi
6. 2019- Pakistan National Nutrition Survey 2018- Atif Habib, Shujaat Zaidi, Imtiaz Hussain, Imran Ahmed, Sajid Soofi and Zulfiqar A. Bhutta
7. 2019 - Project technical report of Situational Analysis of Salt Sector in Pakistan, Shujaat Zaidi, **Imtiaz Hussain**, Imran Ahmed and Sajid Soofi
8. 2018 – Project closing report - Evaluation of effectiveness of home based management of acute severe malnutrition through lady workers as compare to facility based care: **Imtiaz Hussain**, Suhail Chanar, Imran Ahmed and Sajid Soofi
9. 2017 Baseline report Pakistan- Enhancing Nutrition Services to Improve Maternal and Child Health in Africa and Asia (ENRICH), **Imtiaz Hussain**, Mukhtiar Channa, Tariq Samejo, Basharat Hussain, Ikram Nizamani, Imran Ahmed and Sajid Soofi
10. 2018- Project 1<sup>st</sup> Annual Report Technical report – Willows Impact Evaluation (WIE) 2017-2020, **Imtiaz Hussain**, Mirbaz Khan, Sajid Soofi
11. 2016- Survey Report - Rapid Assessment of District Health Information system (DHIS) in two districts of Pakistan (Matiari and Rahimyar Khan), **Imtiaz Hussain**, Sajid Soofi and Zulfiqar A. Bhutta
12. Biochemical Assessment (Folate, Vitamin B12) & Prevalence of Thalassemia genes in women of reproductive age on a subset of National Nutrition Survey-2011; **Imtiaz Hussain**, Atif Habib Sajid Bashir Soofi, Zulfiqar A Bhutta. Technical Report 2012.
13. Human Resource Survey for the Health Department, Government of Sindh: Shujaat Zaidi, **Imtiaz Hussain**, Mushtaq Mirani, Sajid Soofi, Zulfiqar A. Bhutta. Technical Survey Report 2012
14. Pakistan National Nutrition Survey 2011, Sajid Soofi, Shujaat Zaidi, Atif Habib, **Imtiaz Hussain** Zulfiqar A. Bhutta. Technical report 2011
15. Additional component of National Nutrition Survey 2011 supported by USAID. Atif Habib, **Imtiaz Hussain**, Sajid Bashir Soofi, Zulfiqar A. Bhutta. Technical Report 2011
16. Post intervention Health and Nutrition Survey 2011: Sajid Bashir Soofi, **Imtiaz Hussain**, and Zulfiqar A. Bhutta. Technical Survey Report 2011
17. SODIS Health Impact Assessment District Faisalabad: Sajid Bashir Soofi, **Imtiaz Hussain**, and Zulfiqar A. Bhutta. Technical Survey Report 2011

18. Vitamin A coverage assessment and Validation Survey **Imtiaz Hussain**, Sajid Bashir Soofi, Zulfiqar A. Bhutta. Technical Survey Report 2010
19. Rapid Nutrition Survey in flood effected districts of Punjab and Sindh: Sajid Bashir Soofi, **Imtiaz Hussain**, and Zulfiqar A. Bhutta Technical Survey Report 2010.
20. Health Facility coverage assessment Survey: **Imtiaz Hussain**, Noshad Ali, Sajid Soofi, and Zulfiqar A. Bhutta. Technical Survey Report 2010
21. Pre and post Impact Evaluation of POUZN Intervention: Sajid Bashir Soofi, **Imtiaz Hussain**, and Zulfiqar A. Bhutta. Technical Survey Report 2010
22. National Micronutrient Survey republic of Maldives - **Imtiaz Hussain**, Sajid Soofi, Zahid Memon, Arjumand Rizvi, Asghar Ali, Didar Alam, Zamir Hussain, Imran Ahmed. Technical report 2008
23. Complementary Feeding Practices in Pakistan: a baseline survey of care and feeding practices and development of an intervention strategy- Naila Ansari, **Imtiaz Hussain**, Gul Nawaz, Aatekah Owais, Arjumand Rizvi, Sajid Soofi, Zulfiqar A. Bhutta. Survey Technical Report
24. KAP Survey for the Utilization of Iodized Salt in Various Districts of Sindh and Punjab (Pakistan)- Gul Nawaz Khan, **Imtiaz Hussain**, Ashok Kumar, Masawar Hussain, Dr Sajid Soofi, Arjumand Rizvi, Aatekah Owais zulfiqar A. Bhutta (Technical report 2007)
25. Nutrition Supplement Acceptability: Pilot for Pregnant Women, Nursing Mothers and their Infants District Matiari rural Sindh Pakistan (Technical report 2006) - S. Shujaat H. Zaidi, **Imtiaz Hussain**, Sajid Soofi, Asher Feroz Mona Shaikh, Noor A Khan, Zulfiqar A. Bhutta
26. Impact assessment & evaluation, Tawana Pakistan (School Nutrition Project) Project - Sajid Soofi, **Imtiaz Hussain**, Nelofer Mehboob, Asher Feroze, Zulfiqar A. Bhutta, (Technical report 2005)
27. Typhoid Socio Behavior studies in urban slum of Karachi Pakistan 2003-4. Zahid Ali Memon, **Imtiaz Hussain**, Zulfiqar A. Bhutta. (Survey Technical Report)
28. Conducting household census in urban slums of Karachi: **Imtiaz Hussain**, Ochiai RL, M. Imran Khan, Zulfiqar A. Bhutta 2002-3 (Progress and census activity evaluation report 2002-03)