**CURRICULUM VITAE**

Muhammad Usman

**PERSONAL PROFILE**

Muhammad Usman S/O Muhammad Ashraf

Gender: Male

Date of Birth: 27th July 1991

Nationality: Pakistani

Address:

Current: House No. 1339, Block C, Street 5, National Police Foundation, Sector O-9, Islamabad, Pakistan.

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Languages:

* English
* Urdu
* Punjabi

**PERSONAL PROFILE & SKILLS**

I am a social scientist with an academic background in Sociology including Public Health Sociology & Statistics. At the university level and professional workplace, I had gone through different training sessions in research and project management.

Being an active member of the Vaccine Management and Incident Management task teams in the Polio Eradication Initiative Program, I have been extensively exposed to different tasks assigned to me in an individual capacity.

Current tasks in my position as a National vaccine management officer are to provide technical support in the implementation of all immunization activities being conducted in the country, data analysis, keeping records in order, support incident management team and vaccine management task teams in the implementation of vaccine management protocols in the field, and preparing background documents and presentations for meetings, workshops, and training to both tasks’ teams at National emergency operations center Pakistan.

To sum up the major involvement to the Vaccine management team and IMT task teams, my contribution includes vaccine planning and distribution, coordinating and supporting the Provincial teams for VM documentation compliance, implementing mOPV2/tOPV vaccine management protocols, and facilitating mOPV2/tOPV reverse logistics and assistance for disposal at National Level for containment of mOPV2/tOPV antigen.

**EDUCATIONAL QUALIFICATIONS**

# Post Graduate Diploma in Supply Chain Management:

# In Progress Allama Iqbal Open University, Islamabad Pakistan

## Main subjects:

Introduction to Supply chain management, Management Theory & Practice, Professional communication, Computer Apps for business, Fundamental of Business

# Master of Science in Sociology (MSc)

2014 – 2016 Quaid-i-Azam University, Islamabad Pakistan

## Main subjects:

Research Methodology, Applied Statistics, Sociology of Health & Medicine, NGO Management, Social Work, Social Change & Development, Sociology of Entrepreneurship, Social Psychology, Sociology of Knowledge & Education, Classical & Contemporary Sociological Theories, Social Issues of Pakistan, Application of Computer Science in Sociology, Gender Issues & Deviance and Criminology.

## Study Units/Research Work:

Research Methodology, Statistical techniques, Data Processing & Analysis, Social & Climate Change, Deforestation as a source of Social and Ecological Change & Women empowerment through education.

# English Language Course

# 2012 National University of Modern Languages (NUML), Islamabad, Pakistan

# Hifz-e-Quran

# 2005-2007 Darul-Aloom Muhamdia Ghousia, Chak Shahzad, Islamabad,

#  Pakistan

**WORK EXPERIENCE**

1. **National Vaccine Management Officer**

April 2021 to March 2023.

## Responsibilities and accomplishments

This position is primarily based at the Federal Directorate of Immunization (FDI/FEPI) & National Emergency Operations Centre for Polio Eradication (NEOC). I am working under direct supervision, contractual oversight & technical guidance provided by the Health Officer Polio based in the UNICEF Country Office and supporting the Deputy Director of Operations Federal EPI and Vaccine Management Team of National EOC for PEI Vaccines.

I am giving technical support for effective vaccine management for PEI vaccines resulting in a system where every child can benefit from the vaccine of assured quality delivered in the right amount at the right time and an efficient system for PEI vaccine management can be ensured within GPEI guidelines.

* Provide technical support in the implementation of all immunization activities being conducted in the country.
* Provide support in the timely distribution of adequate quantities of vaccines and complementary supplies from Federal stores to Provinces & Districts in accordance with the targeted children & vaccine distribution plan approved by higher authorities.
* Give technical assistance in cold chain inventory.
* Carried out monitoring and supervision of the NIDs, SNIDs, Case responses & outbreaks conducted in the country.
* Support the use of the Vaccine database dashboard for documentation of all vaccines and stock transactions (received and distributed) in the country and available at Federal/Provincial stores. (vaccines data)
* Monitor and report CCEs functionality status at various levels.
* Give technical support to the National Vaccine Management Team in meetings, reviews, and planning of Vaccines and CCL activities for improved quality of service.
* Give Technical support to ensure the utilization of continuous monitoring Temperature monitoring devices (Fridge tags etc.) at the various vaccine stores, while also ensuring accurate documentation and reporting of its availability and use.
* On a Monthly Basis, carry out supportive supervision and on-the-job training on vaccine management protocols for immunization activities being conducted in the country.
* Facilitate and conduct a training (TOTs and Cascaded training) of provincial & district level staff on vaccine management protocols for immunization activities for improved quality of service.
* Facilitate effective distribution and utilization of vaccines and cold chain equipment in all the Health Facilities.
* Ensure implementation of guidelines & norms regarding cold chain and PEI vaccines.
* Preparation of vaccine weekly report. Stock arrival, distribution & closing balance in the country are shared with higher authorities to assess the availability of vaccines for the next SIAs.
* Preparation of vaccine distribution plan before each SIAs for timely & adequate distribution of vaccine to all provinces & districts for successful implementation of immunization activities.

## Major Contributions/ Achievements

## Part of the team to conduct validation of type 2 containing OPV search activity in Pakistan, sites were selected through statistical techniques.

## Part of the team to conduct training on vaccine management all over Pakistan, in training we as a national vaccine management team trained Govt. staff & partner staff on vaccine management protocols.

## Part of the team to conduct type 2 search containing OPV search in Pakistan.

## The objective of the study: To ensure the absence of type 2 containing OPV vials in all Health facilities/storage points.

## Part of the team to fulfillment of the requirement for nOPV2 introduction in the country.

## Part of the mission designated by NEOC for Karachi (7 Districts). The purpose of the mission is to identify the gaps in SIAs & help the provincial team address these gaps.

1. **Technical Consultant**

June 2020 to April 2021

## Responsibilities and accomplishments

I have provided support by preparing the data on vaccine availability, distribution & utilization in the country. Preparing weekly vaccine reports for mOPV2 & tOPV vaccine & leftover mOPV2 & tOPV vaccine quantities after each SIAs to report on the balance of type 2 vaccine in the country to assess the availability of vaccine for the next SIA. Providing & preparing vaccine requirement files to conduct each SIA.

Working as per GPEI guidelines & protocols for cVDPV and type 2 vaccine issuance, retrieval, and documentation necessary for type 2 vaccine.

I have worked as a National Data Analyst, and I have communicated the result of the analysis as a comprehensive report to decision-makers. I have usually designed reports which include tools that can help to understand the situation easily such as statistics, graphs, images, tables, lists and GIS maps, etc.

I have worked with National Incident Management Team (National IMT) at NEOC and provided support on the following:

* Risk Assessment Analysis
* Vaccine requirement form (VRFs)
* LQAS analysis
* cVDPV spread analysis.
* Surveillance update presentation of type 2 cases.
* Epidemiology analysis of type 2 cases.
* Characteristics analysis of type 2 cases.
* Vaccine requirement and distribution files.

Under the direct supervision of the UNICEF Health Officer (PEI) based in PCO UNICEF/NEOC, I have provided support at the country level, which includes the following mOPV2 &tOPV rounds:

* Prepare presentations, graphs, and maps for IMT meetings, NEOC presentations, and presentations to other task teams.
* Conduct campaign analysis on coverage, and the trend of missed children and prepare updates/presentations daily during the campaign and overall review after every round.
* Trend analysis of Recorded and Still Missed with Reasons of NA and Refusal during every round.
* Sharing Analysis of Recent Campaign, Trend or Recorded and Still Missed with reasons, AFP and Zero Dose Reported, Vaccine Status, and Inventory Status.
* Geographical mapping of Recorded Missed, Still Missed Children with their reasons after every mOPV2/tOPV round.
* Maintain data repository of all mOPV2/tOPV rounds.
* Maintain a complete database of mOPV2 & tOPV vaccine vials of all rounds.
* Assist Federal EPI in maintaining a complete record of all VM forms for all type 2 rounds as the record for preparedness for any kind of assessment (OBRA) as required by GPEI.
* Design and prepare final artwork of Reporting Forms, training material, training aids, guidelines, and other material used for campaign preparedness, reporting, and recording.
* I have traveled many times in SIAs to monitor the vaccine management SOPs.

## Major Contributions/ Achievements

## Part of the team to conduct a case study on cold chain assessment in Pakistan under Dr. Shahab Saqib Hashim (National Health Specialist UNICEF) & Dr. Saadia Younus (National Health Officer UNICEF).

## The objective of the study: To study the temperatures at which vaccine is exposed during transportation at various levels and in the field with the teams during an SIA.

## Give recommendations on next steps to ensure cold chain maintenance of tOPV which is without VVM on the label and with vaccine stability matching VVM close to 0.5 (initial studies as reported by BioFarma)

## Prepared “Vial counting tray” under the direct supervision of Dr. Shahab Saqib Hashim (National Health Specialist UNICEF) & Dr. Saadia Younus (National Health Officer UNICEF). With the help of this tray, counting time can be shortened and more accurate.

## Field testing of vial counting tray on district level for tOPV filed returned unusable vials.

## Working on the revival of Cold Chain Equipment Manager (CCEM) with Dr. Shahab Saqib Hashim & Dr. Saadia Younus. The CCEM supports the use of equipment inventories to better manage immunization systems and to help the country forecast cold chain equipment requirements down to the facility level.

## Proposed different modifications in the Vaccine database for smooth vaccine transactions according to the program requirement.

1. **Data Analyst** Data Support Centre, Islamabad, Pakistan.

February 2018 to June 2020.

## Responsibilities and accomplishments

As a data analyst working for a polio eradication project in Pakistan:

* Working on Vaccine tracking database for vaccine purchase, vaccine issuance after each shipment of vaccine arrival in the country, and PEI vaccine issuance to the provinces according to the distribution plan.
* Weekly trend analysis of Recorded and Still Missed with Reasons of NA and Refusal.
* Monthly Sharing DSC Package (Analysis of Recent Campaign, Trend or Recorded and Still Missed with reasons, AFP and Zero Dose Reported, Vaccine Status, HR and Inventory Status) with Our Donor Organization (UNICEF).
* Monthly trend analysis of Low Performing Union Council (LPUC based on NEAP criteria) e.g., the trend of Recorded and Still Missed, Trend of Guest and Roaming Children Vaccinated.
* Geographical mapping of Recorded Missed, Still Missed Children with their reasons and NA3 (Outside District children) after every campaign.
* Monthly trend analysis of zero doses, AFP Cases, Reasons of Refusal, and NA.
* Different kinds of Analysis Reporting on Demand from our Donor Organization (UNICEF) and partners (WHO, NEOC, PEOCs) at national and sub-national levels related on daily basis e.g., CBV, N-CBV, and COMNet Areas.
* District Profile Maps for Tier 1 (Karachi, Peshawar, Khyber, Quetta, Killa Abdulah, Pishin) contain Campaigns Still Missed, PMC (Persistently Missed Children), Environmental Surveillance, Polio Cases, LQAS Results, Coverage of Missed children, and Target Population.
* I have also performed analysis on different data such as LQAS, PCM, ICM, and overall National Coverage Campaign Data.
* I have also performed different types of analysis on WPV & cVDPV2 cases in Pakistan.
* I have traveled many times to different CBV Areas such as Bannu & Tank for Desk and Field Validation.
1. **Research Assistant (QAU)** Quaid-i-Azam University, Islamabad, Pakistan**.** May 2016 to September 2017.

## Responsibilities and accomplishments

* + - As a research assistant in QAU Islamabad, I had vast experience in carrying out various research projects and questionnaire development.
		- As a research assistant to accomplish the students' goals by providing vision and support in fieldwork, conducting various experiments, and analyzing the information/data of any specific research topic effectively and efficiently.
		- Furthermore, engaged with the majority of juniors to infer the research proposals from the data of their relevant research topics.

## Major Contributions/ Achievements

## In June 2015, participated in the training course on Bus Rapid Transit System conducted by IUCN on the inauguration of Rawalpindi Islamabad Metro Bus Service.

##  In November 2014, Organized Child Rights Conference with the collaboration of UNCRC.

**RESEARCH WORK**

1. Conducted research study on “Deforestation as a source of Social and Ecological Decay” (2016).
2. Conducted research study on “Women Empowerment through Education” (2016)

**COMPUTER SKILLS**

1. MS Office (Word, Excel, PowerPoint & Microsoft Visio) & Windows.
2. SPSS.
3. ArcGIS, Adobe Illustrator.

**REFERENCES**

1. Dr. Shahab Saqib Hashim (Mentor, National Health Specialist UNICEF Country office, Islamabad Pakistan)
2. Dr. Mukhtiar Hussain Bhayo (Team Lead WHO Balochistan, Pakistan)
3. Mr. Umair Javed (Project Manager Data Support Centre, Islamabad, Pakistan)