

# Terms of Reference

## Data Analyst–Multiple Locations

**Location:** Multiple (Peshawer, Bannu, Quetta, Karachi, Lahore, Islamabad, Lakki Marwat, South Waziristan, North Waziristan, Tank, DIKhan)

Under the direct supervision of the Monitoring and Evaluation Officer, under the overall guidance from National / Provincial Team Lead -Polio, the incumbent will be responsible for the following duties:

1. Collecting and organizing data on polio cases, vaccination rates, and other relevant factors.
2. Analyzing data using statistical techniques and software to identify patterns and trends.
3. Creating reports and visualizations to communicate findings to public health officials, policymakers, and other stakeholders.
4. Participating in designing the studies to assess the efficacy and safety of polio vaccines.
5. Developing statistical models to predict the future incidence of polio.
6. Analyzing data from vaccination campaigns to assess their impact on polio incidence.
7. Developing and implementing mathematical models to predict the incidence of polio under different scenarios, such as changes in vaccination rates or the emergence of new strains of the polio virus.
8. Analyzing data from surveillance systems, clinical trials, and vaccination campaigns to estimate the effectiveness of polio interventions and identify areas where additional resources may be needed.
9. Working with other members of the polio program team to develop and implement strategies for improving vaccination coverage and reducing the spread of polio.
10. Communicating modeling results to a variety of stakeholders, including program managers, policymakers, and donors

## **Competencies**

- Strong analytical skills, experience working with healthcare data, and knowledge of statistical software.
- Solid understanding of epidemiology, public health, and the social and cultural factors that can influence polio incidence and vaccination rates.
- Strong capacity building skills and a quick learner
- Acts proactively and stimulates action as needed; handles problems effectively and constructively.
- Demonstrates engagement and ensures own skills and knowledge are continuously updated.
- Works collaboratively with team members and counterparts to achieve results; encourages cooperation and builds a rapport; helps others when asked; accepts joint responsibility for the team's successes and shortcomings.
- Manages stress positively; remains positive and productive even under pressure; does not transfer stress to others.
- Demonstrates a positive attitude in working on new projects and initiatives.
- Quickly and effectively adapts own work approach in response to new demands and changing priorities.

## **Professional Skills and Experience**

- At least 1 year of relevant experience in pertinent field.
- Practical experience working with a UN agency and/or International Organizations will be preferred
- Expertise in applied Mathematics and in statistical modeling techniques, such as regression analysis and time series analysis, as well as proficiency in programming languages such as R, Python or SPSS
- Use of ARC Map /QGIS
- Use of R-Studio, Tableau and Power-Bi for data analysis and data presentation
- Good knowledge of form designing and usage of ODK
- Strong expertise in MS office applications
- Good oral & writing knowledge of the English language.
- Report writing skills.

## **Educational Requirements**

- Bachelor's degree in Statistics, Mathematics, Data science
- Certification in Data visualization and Analysis will be preferred