Purpose of the Consultancy:
The purpose of this 6 month consultancy is to provide technical support for key deliverables of the Expanded Programme on Immunization (EPI/IVB) in the area of survey data analysis and reducing missed opportunities for vaccination (MOV). The scope of this work involves developing tools to provide support for countries to analyse existing survey databases, and to assess MOV and related indicators. The contract is expected to start in June 2019 and end in December 2019.

Background:
Estimates of immunization coverage come from either administrative systems or registries and different household surveys. Household surveys frequently collect immunization data, but often, their reports only present estimates of vaccination coverage; datasets are available, yet underutilized to produce more immunization indicators, including an estimation of MOV. To further explore issues, programmes can conduct a desk review making use of existing data from e.g. expanded programme on immunization (EPI) reviews, demographic and health surveys (DHS), multiple indicator surveys (MICS), health management information systems (HMIS) data, or recent immunization coverage surveys. If MOV is identified as an issue following findings from the desk review, the programme may consider designing interventions for rapid implementation of activities to reduce MOV. Therefore, continued support for the implementation of quality surveys and the further use of survey data (beyond only coverage estimates) to inform the immunization program is a key activity of WHO.

In the context of a coverage survey, a MOV refers to any contact with health services by a child or adult who is eligible for vaccination, which does not result in the person receiving one or more of the vaccine doses for which he or she is eligible. For these analyses, only children having at least one documented date of vaccination are included.

Strengthening the quality and usability of immunization coverage data and supporting countries better understand if they have an issue with MOV both have been flagged as key outputs for EPI.

Work to be performed:
Output 1: Using survey databases from at least two countries produce a report and/or manuscript describing the methodology for secondary analyses from existing survey databases, findings and implications for the Immunization Programme.

Task 1.1: Develop a concept note and work plan for the proposed analyses of MOV along with other related indicators.
Task 1.2: Convert survey datasets to a format that is compatible with existing tools for vaccination coverage survey analyses. Document the steps taken and programme/code used in the process.
Task 1.3: Produce results tables and graphs in Excel format, following the agreed upon data analysis plan.
Task 1.4.: Produce a report and/or manuscript describing the analysis methodology, findings and implications of the findings for the Immunization Programme.

Output 2: Draft step-by-step guidance on preparing survey datasets for MOV analyses and conducting said analyses, as well as describing considerations for the interpretation of the results.
Task 2.1: Using the work done for output 1, produce a practical step-by-step guidance document aimed at analysts worldwide.

Task 2.2: Using the work done for output 1, produce a document to help interpret MOV results aimed at immunization programmes worldwide.

**Output 3:** Advise on the usefulness of survey related-material and activities required to carry out secondary analyses from existing survey databases.

Task 3.1: Document the difficulties and solutions used to accomplish the previous outputs and draft a report and/or manuscript with suggestions for improvement/lessons learned.

**Specific requirements**

- **Qualifications required:**
  - Advanced university degree in Public Health, Epidemiology, or related field.
  - Proficiency in Stata and/or R to analyse data from surveys using a complex design.

- **Experience required:**
  - At least 1 year of experience including data management and analysis.

- **Skills / Technical skills and knowledge:**
  - Excellent oral and written communication skills.
  - Familiarity with vaccine-preventable diseases and immunization.
  - Familiarity with analysis of survey data.
  - Ability to work independently, as well as coordinating and engaging with persons from a multicultural environment.
  - Ability to use communication technology to interact virtually with persons from all over the world.

- **Language requirements:**
  English – Read/Write/Speak at advanced level

**Place of assignment:**
At the discretion of the consultant.

**Timeline and Duration**
The contract is expected to start in June 2019 and end in December 2019 and corresponds to a full-time equivalent of 100%, with possibility for extension. Pay scale will be defined according to the level of expertise of the selected candidate.

**Medical clearance**
The selected Consultant will be expected to provide a medical certificate of fitness for work.

**Travel**
The consultant is expected to travel according to planned travels that will be decided by the team at a later stage.

**Application Process**
Qualified applicants should submit their CV along with a cover letter, in English, by 10 June 2019 to Carolina Danovaro at email: danovaroc@who.int. Applications received after this date will not be accepted.

In the email subject line, please put “Consultancy, Survey Data Analysis”.

Only successful candidates will be contacted. CVs received from this posting may be used to fill other current and future openings requiring a similar skill set.