

## An Assessment of Adverse Events Following Immunization Reporting Pattern of Selected Vaccines in VigiAccess

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**Abstract :** Introduction: Reporting of Adverse Events Following Immunization continues to be a challenge. Pharmacovigilance centers throughout the world are mandated by the WHO to submit AEFI reports from various countries to a large pool of adverse drug reaction electronic database called Vigibase. Despite the relevant information of AEFI in Vigibase, it is unavailable to the general public. However, the WHO has an alternative website called VigiAccess which is an open access website serving as a repository of reported adverse drug reactions and AEFIs. The aim of the study was to ascertain the reporting pattern of a number of commonly used vaccines in VigiAccess. Methods: VigiAccess was thoroughly searched on the 5th of February 2018 for AEFI reports of measles vaccine, oral polio vaccine (OPV), yellow fever vaccine, pneumococcal vaccine, rotavirus vaccine, meningococcal vaccine, tetanus vaccine and tuberculosis (BCG) vaccine. These were reports from all pharmacovigilance centers in the world from the time they joined the WHO drug monitoring program. Results: After a thorough search in VigiAccess, there were 9,062 measles vaccine AEFIs, 185,829 OPV AEFIs, 24,577 yellow fever vaccine AEFIs, 317,208 pneumococcal vaccine AEFIs, 73,513 rotavirus vaccine AEFIs, 145,447 meningococcal vaccine AEFIs, 22,781 tetanus vaccine AEFIs and 35,556 BCG vaccine AEFIs. Conclusion: The study revealed that out of the eight vaccines studied, pneumococcal vaccines are associated with the highest number of AEFIs whilst measles vaccines were associated with the least AEFIs.

**Keywords :** vaccines, adverse reactions, VigiAccess, adverse event reporting

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