Active Safety Surveillance of Maternal and Infant Health Outcomes for Pregnant and Breastfeeding Users of HIV Pre-Exposure Prophylaxis (PrEP)

SAMPLE CASE REPORT FORM









## **Background**

Although available data are reassuring regarding the safety of pre-exposure prophylaxis (PrEP) use during pregnancy and breastfeeding, the World Health Organization (WHO) has recommended additional active surveillance of mother and infant outcomes during PrEP use in pregnancy and breastfeeding. This recommendation, found in the WHO technical brief *Preventing HIV During Pregnancy and Breastfeeding in the Context of PrEP*, advises that active surveillance of PrEP exposure during pregnancy and the breastfeeding period focus on the following three areas:

- 1. Maternal adverse outcomes: Monitoring treatment-limiting toxicities associated with antiretroviral therapy in pregnant women, particularly mortality.
- 2. Adverse birth outcomes: Monitoring toxicity in the fetus in utero, manifesting as stillbirths, preterm births, low birthweight, major congenital anomalies, or early infant deaths. Adverse birth outcomes may be routinely monitored by integrating an additional indicator into the national monitoring and evaluation system.
- Adverse infant and child outcomes: Monitoring health outcomes in infants and young children exposed to antiretroviral (ARV) drugs in utero or via breast milk, particularly any impact on growth and development.

More broadly, WHO has encouraged countries to implement active toxicity surveillance for ARV use, including during pregnancy and breastfeeding. The WHO Implementation Tool for Monitoring the Toxicity of New Antiretroviral and Antiviral Medicines in HIV and Viral Hepatitis Programmes provides a framework for pharmacovigilance monitoring within the context of national treatment programs. Although this framework allows for inclusion of pregnant women, it does not include surveillance of many important maternal and child health outcomes. Thus, to generate additional evidence on drug safety during pregnancy, WHO has encouraged participation in the WHO central registry for epidemiological surveillance of drug safety in pregnancy. Having a central pregnancy registry allows WHO to pool safety data collected by local or national pregnancy exposure registries or via birth outcome surveillance programs. Pooling such safety data across many countries facilitates the early detection of safety signals and provides evidence to inform guidelines for pregnant patients. Countries, surveillance projects, and researchers may contribute data to this registry.

<sup>1</sup> https://apps.who.int/iris/bitstream/handle/10665/255866/WHO-HIV-2017.09-eng.pdf

<sup>&</sup>lt;sup>2</sup> https://apps.who.int/iris/bitstream/handle/10665/273053/9789241514231-eng.pdf

## **Sample Case Report Form**

The sample case report form is designed for collection of active safety surveillance data for users of HIV PrEP during pregnancy and/or breastfeeding. Data may be collected for local (national) surveillance and/or for submission to the WHO central registry for epidemiological surveillance of drug safety in pregnancy.

- **Section 1** of this form includes fields for all data needed for electronic submission to WHO and should be completed as recommended by the associated <u>central pregnancy</u> registry data dictionary.<sup>3</sup>
- The variables in Section 2 are included to address the WHO recommendation in the WHO technical brief Preventing HIV During Pregnancy and Breastfeeding in the Context of PrEP regarding collection of "health outcomes in infants and young children exposed to ARV drugs in utero or via breast milk, particularly any impact on growth and development." These fields are designed to complement a country's central pregnancy registry data by capturing additional outcomes during the infant's first year of life.

<sup>&</sup>lt;sup>3</sup> https://www.who.int/tdr/research/tb\_hiv/drug-safety-pregnancy/en/

SECTION 1 (COMPATIBLE WITH WORLD HEALTH ORGANIZATION CENTRAL REGISTRY)		
IDENTIFIER (Case ID)		
Case ID number		
FACILITY INFORMATION		
Country		
Facility name		
Site identifier		
MOTHER AND INFANT IDENTIFIERS		
Mother local ID number		
Infant's local ID number		
MATERNAL AND FAMILY INFORMATION		
Mother's date of birth		
Maternal age at delivery		
Mother's height		
Mother's weight		
Total number of previous deliveries		
Maternal chronic diseases or diseases during pregnancy		
Blood pressure		
Family with congenital anomaly		
PREGNANCY		
Last menstrual period		
Date of pregnancy outcome		
Gestational age at pregnancy outcome		
Method for gestational age calculation		
Fetal presentation		
Type of delivery		
Gestational age at enrollment		
FETUS/INFANT DATA		
Outcome of pregnancy		

Sex of infant/fetus delivered		
Infant length at birth		
Infant weight at birth		
Infant head circumference at birth		
Results of surface examination		
Congenital anomaly detected		
Child HIV status		
Child death		
Age at death		
Infant postmortem autopsy		
Karyotype		
EXPOSURE: SUBSTANCES AND MEDICAL TREATMENTS		
Alcohol		
Tobacco		
Illicit drugs/substance abuse		
Drug name		
Code for drug name		
Dose		
Drug start date and stop date		
Trimester of exposure		

## SECTION 2 (ADDITIONAL VARIABLES RECOMMENDED BY WORLD HEALTH **ORGANIZATION) INFANT STATUS AT AGE 1 MONTH** Infant length Infant weight Infant head circumference Results of surface examination HIV status Developmental screening Child death Age at death Infant postmortem autopsy **INFANT STATUS AT AGE 3 MONTHS** Infant length Infant weight Infant head circumference Results of surface examination HIV status Developmental screening Child death Age at death Infant postmortem autopsy **INFANT STATUS AT AGE 6 MONTHS** Infant length Infant weight Infant head circumference Results of surface examination HIV status Developmental screening Child death

Age at death		
Infant postmortem autopsy		
INFANT STATUS AT AGE 12 MONTHS		
Infant length		
Infant weight		
Infant head circumference		
Results of surface examination		
HIV status		
Developmental screening		
Child death		
Age at death		
Infant postmortem autopsy		