## IT'S ALL ABOUT SAFETY! DELIVER and B-PROTECTED Studies



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Ensuring Safe HIV Prevention Methods for Pregnant and Breastfeeding Women

Johannesburg, South Africa – Tuesday 26 March 2019

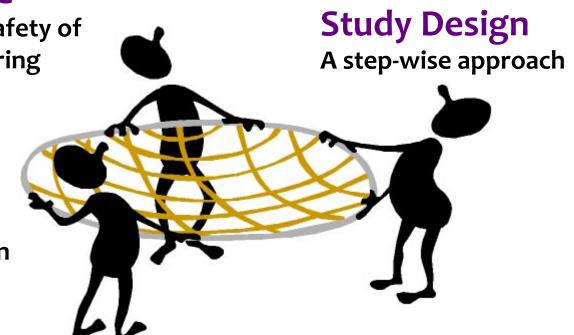
## MTN-042: A Three-Way Safety Net for Two

#### **Study Objective**

Understanding the safety of PrEP and the ring during pregnancy

#### **Study Conduct**

Multiple measures to ensure safe participation



So that women can be protected against HIV at all times, including during pregnancy, with methods that are safe for them and their babies

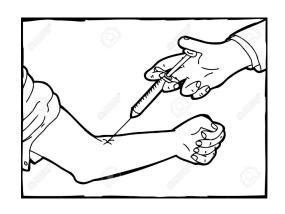
### Study Objective

#### Study objective

- The goal of the study is to see whether the two study products are safe for baby and mom
- This starts at the site level







- Participants will be seen every 1-4 weeks depending on how far along in the pregnancy they are until 6 weeks after delivery
- Infants will be seen for a year

#### When there is a problem

- First and foremost, the site will treat the problem or refer to the hospital if necessary
- If serious and related to the study medication, the woman will stop using the medicine
  - This is expected to be rare. It did not happen in ASPIRE or the Ring Study. It was rare in PrEP studies
- Second, the site notifies the larger study team which is following any problems across all four sites

The site is committed to providing the best care possible to its participants

#### Primary goal: Birth Outcome

- In addition to collecting information about problems women might have while in the study we will follow women through delivery
- We will know how the pregnancy ended- "the outcome"
  - Was it a normal delivery of a fully developed baby? (full term birth)
  - Was it an early delivery- more than three weeks before expected?
     (preterm birth)
  - Was it a delivery of a baby that was dead when it came out? (still birth)
  - Was it an early loss of the baby- less than 5 months? (pregnancy loss)

# How do we know whether oral PrEP or ring affect birth outcomes?

 At the end of the study, we will compare how often women and babies had serious problems AND how often moms had bad pregnancy outcomes

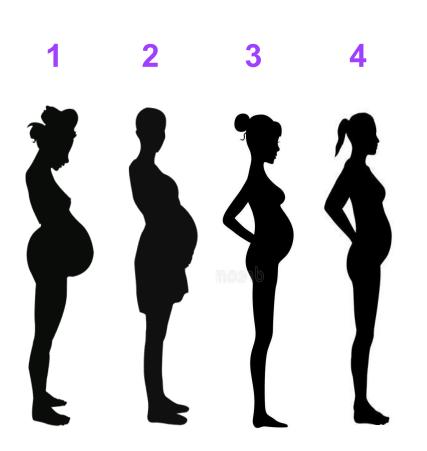
 We can compare what happens to women in our study to women delivering at our hospitals that were not part of the study

## Other important safety information which will be measured

- High blood pressure (hypertensive disorders of pregnancy)
- Infection of the womb (chorioamnionitis or endometritis)
- Infection in the blood (Puerperal sepsis)
- Dangerous bleeding (Hemorrhage)
- Water around the baby breaking too early (Preterm premature rupture of membranes)
- Fever

### Study Design

#### Study design

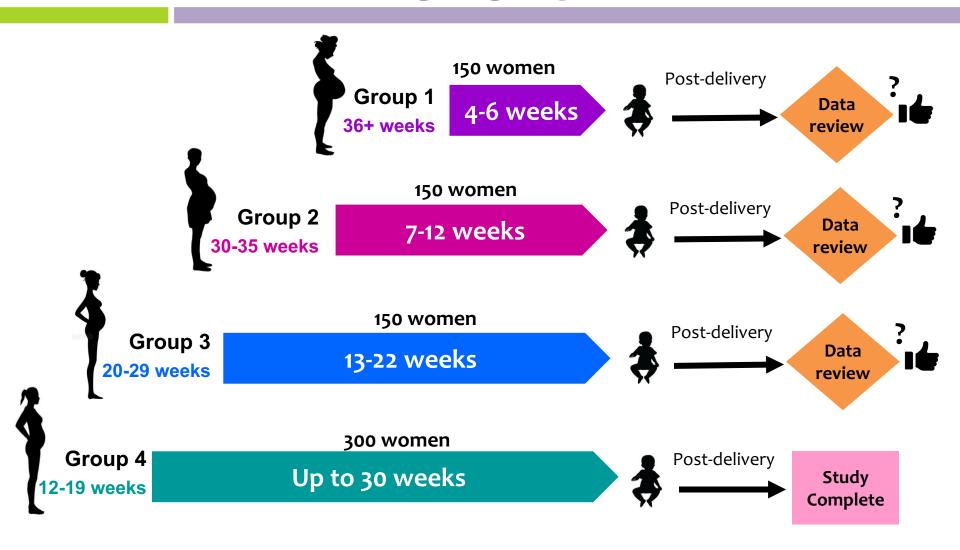


- Remember there are four groups
- The first group is farthest in pregnancy

Experts will review outcomes before the next group is enrolled



## A stepwise approach with interim reviews



#### Role of the study team

- The study team will regularly review all the study data to make sure that there are no safety concerns
- The data centre will alert the study team and the DAIDS medical officers of any EAEs, Suspected unexpected serious adverse events (SUSARS), any grade 3 or 4 events
- There will also be an interim review panel not involved in the study.....

# The experts in the interim review panel

- Our 7 person dream team:
  - -1 community representative
  - -1-2 obstetricians from Sub-Saharan Africa
  - −1 OB/Gyns from the United States
  - -1 pediatrician from Sub-Saharan Africa
  - -1 ethicist
  - —1 maternal-child health expert from the public health sector
- They can not have any connection to the study so that we know that they speak truthfully

### Each group will use the ring or PrEP a longer time

*	number	Ring or PrEP?	Approximately how long?
Group 1 36+ weeks	150	100 will use the ring 50 will use PrEP	4-6 weeks
Group 2 30-35 weeks	150	100 will use the ring 50 will use PrEP	7-12 weeks
Group 3 20-29 weeks	150	100 will use the ring 50 will use PrEP	13-22 weeks
Group 4 12-19 weeks	300	200 will use the ring 100 will use PrEP	Up to 30 weeks

#### What will the review group see?

- Rates of pregnancy and infant outcomes for the PrEP and dapivirine ring groups
- Rates of the same outcomes in the population of women from the same hospitals but not in our study as well as published data from studies of pregnancy outcomes from the same regions

Summary of the safety data from all study participants

#### The process

- Safety physicians from the study and study statisticians will be there to answer questions put forward by the safety review panel but will not vote on whether or not the study will proceed
- At least 5 of 7 members will have to vote "yes" in order for the study to move forward to the next group
- The decision of the interim safety review panel will be communicated to the study team, the IRB, the participants and the community

#### The importance of design

- Most of the study information will come from the last group of enrolled participants
  - -They will use the product for the longest time

 Instead of starting with the last and biggest group, we start with the women farthest in pregnancy to be sure the products are safe

### **Study Conduct**

#### Ensuring safety at several levels

- Site clinicians will monitor the safety and wellbeing of participants at each visit
  - MTN has safety physicians who will review the problems
- Ongoing oversight by local IRBs/ECs
- For MTN-042, study outcomes will be reviewed by an Interim Safety Review Panel at the conclusion of each cohort, and enrollment of the next group will not proceed if there are any concerns







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