

## Refresher training v5 HPTN 084

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# **Key research questions**



- 1. Are the maternal, pregnancy and infant safety outcomes similar between CAB exposed vs. non-exposed, given option for active dosing in OLE?
- 2. Do we need dose adjustment during pregnancy (especially in 3<sup>rd</sup> trimester)?
  - a) Do we need dose adjustment in participants who are steady state on CAB already and then become pregnant?
  - b) Do we need dose adjustment in those that initiate CAB during pregnancy (and therefore not yet at steady state)?
- 3. What can we say about infant exposure to CAB during lactation?





# Participants and design, OLE period



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Trials Network

# Pregnancy and pregnant participant safety analyses



- Analysis set: all confirmed OLE pregnancies
- Exposure groups:
  - Active CAB: CAB-LA injections during pregnancy
  - Prior CAB: CAB-LA injections prior to, but not during pregnancy
  - No CAB: no CAB-LA injections prior to or during pregnancy





## Outcomes



| Pregnancy outcomes                 | Maternal outcomes   | Neonatal/infant outcomes        |
|------------------------------------|---|---------------------------------|
| Ectopic                            | Mortality   | Neonatal mortality (28 days)    |
| Abortion                           | Prolongation of hospitalization or re-<br>hospitalization | Infant mortality (first year)   |
| IUFD/Stillbirth                    | Pregnancy and labor/delivery complications                | Hospitalization (first year)    |
| Pre-term birth                     | Caesarean section (with indication)                       | Growth (first year)             |
| Small for gestational age (by U/S) | AE associated with pregnancy                              | Congenital anomalies (48 weeks) |
| Full-term birth                    | All grade 2+AE  |                                 |
| Congenital anomalies               | Weight gain in pregnancy                                  |                                 |



Outcomes selected because they have implications for pregnancy, maternal and infant health

# Pre-term birth and low-birth weight associated with negative outcomes

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## • Pre-term birth

- Preterm birth complications = leading cause of death among children under 5 years (35% of deaths among neonates)
- Pre-term neonates who survive has greater risk of short-term and longterm morbidities
- Poor long-term outcomes including cognitive disability, impaired hearing/vision, neurological complications, infections, and chronic pulmonary, cardiovascular, metabolic, and renal disorders (especially in very preterm babies)
- Associated with significant costs to the health system, and families
- Low-birth weight (or small for gestational age) babies are at significantly higher risk of poor health outcomes (including mortality), particularly in low-income settings







#### Version 2

pregnancy outcomes will be reported on relevant CRFs. Outcomes meeting criteria for expedited AE (EAE) reporting also will be reported. Infants will be followed up for one year post-natally to ascertain final pregnancy outcomes in respect to congenital anomalies.

We know that many women wish to conceive safely, but are worried about the risk of HIV during pregnancy and breastfeeding. If you become pregnant during the study you will be given the chance to continue taking CAB LA injections during pregnancy and breastfeeding. If you prefer, you can switch to TDF/FTC. TDF/FTC has been used much longer than CAB LA and is not known to cause any health problems for babies. All women who become pregnant in the study will be followed up. We would like to know about the health of your baby when born and again at one year of age.

### Version 3, 4 ICF

For women who have received at least one CAB LA injection in this study, we would like you to invite you to complete additional study visits during pregnancy and for about one year after the birth of your baby. You will have 11 study visits that are very similar to study visits that occurred before you were

#### Version 5



Pregnant participants who received at least one CAB injection but who decline participation in the pregnancy and infant sub-study (Step 4d) will not be able to receive CAB LA injections during pregnancy and will be followed according to Step 5. They will not be required to complete pregnancy testing once pregnancy confirmed per the Step 5 SOE. They will be asked to consent to provide updates on any SAEs as well as to consent to live infant assessment of growth parameters at delivery and48 weeks post-delivery. Site staff will refer pregnant participants for pregnancy care and an ultrasound.

# Pregnancy and infant outcome data collection



- Since v2, had an interest in birth outcomes through to 48 weeks
- Limitations with initial data collection
  - Update to outcome form
  - Not able to track outcomes of interest effectively
- Now have greater visibility of infant follow up and have observed that we need to strengthen systems for collection of infant outcomes through to 48 weeks – for ALL PREGNANCIES



# Importance of a comparator group



- Very important to collect contemporary outcomes data in medication-unexposed comparator group in the same locations/populations
  - Cautious use of "Background" rates from the most comparable population are a far less desirable alternative, if contemporaneous data from comparator group not feasible

| Study      | begins                     | 1 <sup>st</sup> positive<br>pregnancy test | Pregnancy ends |
|------------|----------------------------|--|----------------|
| Active CAB | May or may not have CAB-LA | ≥1 CAB-LA inje                             | ections        |
| Prior CAB  | ≥1 CAB-LA injections       | No CAB-LA                                  |                |
| No CAB     | No CAB-LA                  | No CAB-LA                                  |                |







Want to focus on collecting complete information in those with missing information

Want to ensure that we are prepared for data collection on future infants





mother, and blood samples will be collected from the infant (see Step 4d SOE). Infant outcomes will be assessed at delivery and again approximately 11 months later (Week 48 of Step 4d). Assessments of infant feeding and Grade  $\geq 2$  AEs will be performed at scheduled follow up visits from delivery to Week 24. SAEs, including deaths and congenital anomalies will be reported throughout the 11-month post-partum period (48 weeks).

- SAE will be reported for <u>ALL infants</u> for first 48 weeks of life.
- In addition for 4d only,
  - report grade 2+ AE during first 24 weeks post-partum i.e. during breastfeeding when likely maximum CAB exposure
  - Report irrespective of breastfeeding status
  - Feeding status is captured elsewhere







- Refresher training in
  - Ultrasound data collection
  - outcome data collection for infants at 48 weeks

