MTN-001

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MTN-001

- Randomized, controlled, Phase II trial
- Comparing Adherence & Pharmacokinetics
- Once daily vaginal PMPA 1% gel
- Once daily oral tenofovir disoproxil fumarate (TDF) 300 mg tablet

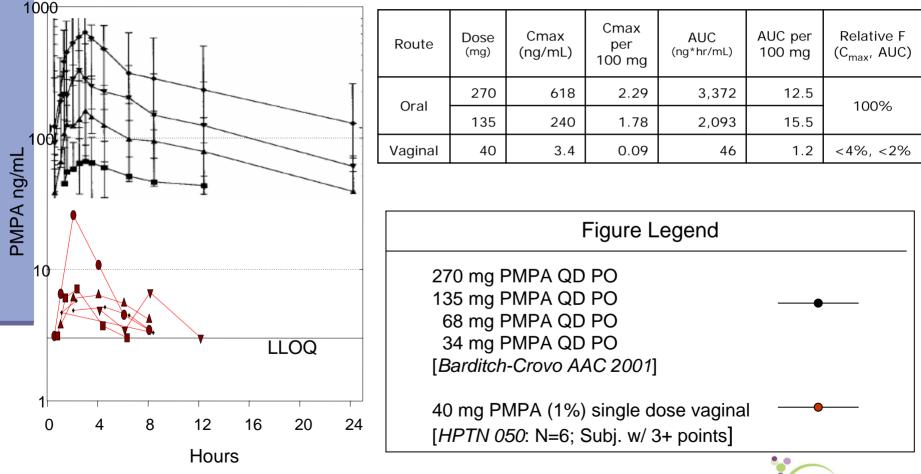


MTN001 Rationale

- Head-to-head comparison of oral versus vaginal prevention dosing strategies
- Inform the design of 003 Tenofovir Efficacy Trial
 - Adherence estimates
 - Drug level estimates
- Activate new sites rapidly



Oral v. Vaginal Tenofovir



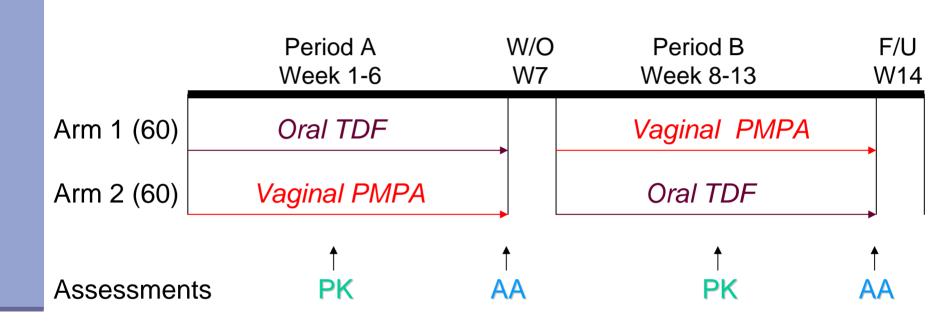
microbicide trials network

Hypotheses

- Adherence and acceptability will be similar in both arms
- Tissue levels of PMPA will be similar irrespective of the route of administration
- Oral TDF will be associated with higher concentrations of PMPA in the blood compared to topical administration of PMPA



Study Schema





Primary Objectives

- Comparison of oral tenofovir with vaginal PMPA in domains of
 - Adherence
 - Acceptability
 - Pharmacokinetics (tissue)



Secondary Objectives

Intracellular pharmacokinetics in bloodComparison of adverse effects



Procedures

- Adherence measures
- Behaviorally focused quantitative surveys
- Pharmacokinetic studies
 - Blood, vaginal fluid, vaginal biopsy*, intracellular*
- Laboratory measures of systemic safety



Study Population

- Sexually active (weekly) women
- HIV-uninfected
- 18 to 45 years of age
- No active disease



Exclusion Criteria

- Acute or chronic hepatitis
- Renal disease (CrCl >70 mL/min)
- Any clinically relevant systemic disease
- History of pathologic fracture
- Pregnancy
- Breastfeeding



Sample size

- 120 women (60 in each arm)
- Paired analysis

 Detect difference in adherence rate of Oral versus Vaginal regimen of
7.5% Difference, 83% Power, 0.0 rho*

■ 5.0% Difference, 78% Power, 0.5 rho

*rho is magnitude of intra-individual correlation between arms.



Study Duration

- Approximately 98 days per participant
- Ten calendar months of accrual
- Eleven months total planned study duration



Sites

- Case Western Reserve University
- University of Pittsburgh
- University of Cape Town
- Makarere University/Johns Hopkins University
- TBD
- TBD

