



**Forum for  
Collaborative HIV Research**

# **FUTURE OF PREP AND MICROBICIDE RESEARCH: TRIAL DESIGN AND REGULATORY ISSUES**

**WASHINGTON, DC  
JANUARY 7, 2013**



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# ORGANIZING COMMITTEE

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## WHY THIS MEETING NOW?

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- Current landscape of prevention research
- Complexities of designing/running prevention trials
  - Populations – no “one size fits all”
  - Resource requirements
  - Ethics
- Bring together expert stakeholders to review
  - What have we learned
  - How can we move forward
- Focus on regulatory issues



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## **SESSION 1 - SETTING THE STAGE**

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- Truvada – lessons learned (being learned)
- Products in development



## **SESSION 2 – STATISTICAL CHALLENGES**

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- Given the statistical requirements, what is the feasibility of conducting the size trials needed to show clinical efficacy of an HIV prevention modality?
- Are there any methods for economizing sample sizes?
- From a statistical perspective, can tenofovir/emtricitabine serve as an active control?





## SESSION 3

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- Clinical Trial Design Options
  - Most clinically feasible trial options?
    - Superiority Studies
    - Non-inferiority
    - Dose-response
  - Role of Truvada
  - Adherence measures



## **SESSION 4 – ADHERENCE VS. EFFICACY AND PROOF-OF-CONCEPT**

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- For proof-of-concept -- lack of signal due to potency vs adherence?
  - How can adherence measurements be used to support efficacy claims for new drugs, new formulations, or dosing schemes
- Most reliable measures of adherence
- Systemic drug concentrations
- Alternative biological samples (e.g. PBMCs)
- Patient-reported adherence measurements
- Measuring adherence for topical products,
- Is there a role for enriching trial enrollment with subjects deemed likely to be adherent? What are the pitfalls of this approach?
- How should ongoing assessments and interventions to improve adherence in clinical trials be factored into the analysis of efficacy?



## **SESSION 5 - "HOW DO WE GET TO SURROGACY?"**

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- • What kind of non clinical studies and clinical PK/PD relationships can be used for making potential correlations with clinical efficacy?
- • Is it feasible to evaluate PK/PD relationships at the targeted prevention site (e.g. rectum, vagina)?



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# **SUMMING UP: IS THE FUTURE ANY CLEARER?**

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The University of North Carolina School of  
Medicine

James Goodrich PhD, MD

ViiV Healthcare