

HPTN Science Generation  
Africa Region  
HPTN Retreat May 8, 2009

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# Team

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- Francesca Conradae
- Quarraisha Abdol Karim
- Ian Sanne
- Nancy Padian
- Johnstone Kumwenda
- Newton Kumwenda
- Guy de Bryun
- James McIntyre
- Stewart Reid
- James Hakim

# Process

- Consultations in 2007/2008
- Presentation at 2008 HPTN meeting
- Meetings
  - Mexico Aug 2008
  - ACTG Dec 2009
  - Science generation workshop 6 March 2009
- Email communication, personal interaction

# Science Generation

## Africa Region

- Know your epidemic
- Multi-component HIV Prevention strategy
- Prevention/treatment synergy

# Workshop-6<sup>th</sup> March 2009

- Populations
  - Adolescents
  - Discordant couples
  - All couples
  - Older women
  - Migrant populations (truck drivers, uniformed forces, businessmen/women)
  - Young pregnant women
  - STU clinic population
  - Commercial sex workers
  - African MSMs
  - Older women who target young women
  - HIV positive patients (prevention for positives)

# Workshop-6<sup>th</sup> March 2009

- Interventions
  - Communication-cellphone, multimedia (youth)
  - Evaluation of saturation of proven preventive strategies (Highly Active Prevention-eg circumcision)
  - ? Microbicides
  - Alcohol cessation
  - Occupation based intervention (truck drivers)
  - Couples counselling
  - School based intervention (education, circumcision)
  - Community intervention
  - PrEP, PEP
  - Test and Treat
  - Mobile VCT

# Capsule 1-FORTRESS

- Four armed phase III cluster randomized controlled trial to assess the efficacy of an enhanced prevention package vs an enhanced prevention package + TNT approach vs TNT strategy alone for reduction of HIV infection at a population level in Southern Africa
- Focal persons
  - Mina Hosseinipour
  - Francesca Conradie
  - James Hakim

# Rationale

- The sub-Saharan African HIV epidemic is largely generalized but comprises multiple high risk groups; it therefore requires a multi-pronged prevention strategy to make significant reductions in HIV incidence

# Design

- Two Phases
  - Phase I-intervention design of 4 arms
  - Phase II-The addition of further interventions using a step wedge design when these become available
- Population
  - Community randomization
    - Adolescents, older women, migrant workers, pregnant women, STI clinics, CSW, older men who target younger women

# Interventions

- Interventions arms
  - Standard of care
  - Enhanced HIV prevention strategies
  - TNT
  - TNT and enhance prevention strategy

# Outcomes

- Primary outcome
  - HIV incidence
- Secondary outcomes
  - Cost effectiveness
  - TB

# Capsule 2

- Community randomized, controlled trial of a comprehensive HIV prevention package among older men in sub-Saharan Africa
- Focal persons
  - Newton Kumwenda
  - Johnstone Kumwenda

# Capsule 2

- Objective
  - Reduce HIV transmission among older men in a generalized HIV epidemic
- Design
  - A phase III, controlled, open label community randomized trial of combined behavior and biomedical intervention of HIV among older men
- Population
  - Older men (? >35, ?>40, ?>45)
- Outcome

# Capsule 3

- Collaboration with Asia team
- Truck drivers
  - Sanjay to present concept

# Others

- Preventive studies
  - Pregnant Teenagers (Glenda, Tsungai)
  - Health Care workers (Ian, Francesca)