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Example of Study Design of Multicomponent Intervention

Status Quo

**Comprehensive ART
Coverage**

**Comprehensive ART
Coverage + Increased
Male Circumcision**

**Increased Male
Circumcision**

Multicomponent Interventions and Design Example and Rationale

- 1. Male circumcision for HIV seronegative men, prioritizing those with seropositive partners.**
- 2. Greatly expanded ART coverage, facilitated by household-based VCT.**
- 3. Earlier ART initiation (as in developed countries today).**
- 4. Syndromic management of curable STD.**
- 5. Package of behavioral interventions tailored to couples' serostatus linked to community-level normative and structured change.**
- 6. Use of partners' serostatus and household context to motivate behavior change.**

Multicomponent Interventions and Design

Example and Rationale

- **Community/home-based (not to exclude provider-initiated).**
- **Stepped-wedge randomization of small districts or communities (Hussey & Hughes, 2007).**
- **Controls receive status quo; incremental delivery of intervention to new clusters randomly cross-over from control to intervention.**
- **High community acceptability, ethical.**
- **“Task-shifting” to support intervention delivery by e.g., CHWs.**
- **Simultaneous access to both sex partners, with early infection (as opposed to clinics serving sick persons with late infection and partners already infected).**
- **Outcome: community-level incidence of HIV infection.**

