**Supplemental Digital Content**

**Additional description of the OMC intervention**

The OMC intervention was designed to encourage thoughtful dialogue around gender norms that place both men and women at risk of HIV and to increase men’s engagement with HIV testing and protective behaviors through community mobilization (CM) activities. The CM activities, in addition to stimulating community discussion, were designed to harness networks for message dissemination, to engage leadership, foster community cohesion to support gender norm change and HIV prevention, and to forge organized community action with community action teams (CATs). Table 4S includes a list of OMC activities mapped onto the domains of community mobilization.

**Table 4s.** OMC mobilization activities mapped onto domains of community mobilization.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Shared concerns** | **Critical consciousness** | **Engage leadership** | **Orgs / networks** | **Collective action** | **Social cohesion** |
| 2-day OMC workshops | X | X |  |  |  | X |
| OMC mini workshops | X | X | X |  |  |  |
| Shebeen workshops | X | X |  |  |  |  |
| Red card campaigns |  | X |  |  | X |  |
| Picture charts for discussion | X | X |  |  |  |  |
| Condom distribution | X | X |  |  |  |  |
| Door to door campaign | X | X |  |  |  |  |
| Street soccer / Soccer tournaments | X | X | X | X |  | X |
| Painting community murals |  | X |  |  | X | X |
| Ambush theatre | X | X |  |  |  |  |
| Digital stories workshops | X | X |  |  |  | X |
| OMC Action Sheets | X | X |  |  | X |  |
| Establish / train CATs |  |  | X | X |  | X |
| Meetings with community leaders |  |  | X | X |  |  |
| Photo voice | X | X | X |  | X | X |

The intervention team carried out activities, focusing first on smaller group activities and workshops that focused on raising critical consciousness and generating a shared concern, and later moving onto larger community forums to elicit action steps and broader discussions. During the early months of the intervention, potential members of Community Action Teams (CATs) were identified and trained by the team of mobilizers in each village. CATs included volunteers from the community who engaged with the CM activities and lead mobilization efforts in their community; mobilizers worked closely with CAT teams as they implemented activities. CATs met weekly to plan activities and workshops, to discuss progress and challenges in engaging community members, and to learn new content / undergo additional training and exercises with the mobilization team.

**Mplus code for SEM**

Below we have included an annotated version of the Mplus input file containing the command syntax specifying the multilevel SEM model.

Title: Mplus Multilevel SEM file written by Stat/Transfer

! The following variables were converted:

! round : Baseline (1) vs. Endline (2)

! ctid : Subject ID

! village : Village ID

! gender : 1 = male, 2 = female

! interv : 0 = control, 1 = intervention

! cmscore : Mean all CM items

! dose\_con : WLE estimated dose, IRT PC model

! hivtest : 0 = negative, 1 = positive

! sampling0 : Sampling weight (scaled)

Data:

File is <datafile\_name>;

Variable:

Names are round ctid village gender interv cmscore dose\_con hivtest samplin0 ;

Missing are . ;

Cluster is village ;

Weight is samplin0 ;

Within is interv gender;

Useobservations are round EQ 2 ;

Usevariables are interv dose\_con cmscore hivtest gender ;

Categorical are hivtest ;

Analysis:

Type = Twolevel ;

Estimator = WLSMV ;

Model:

%Within%

dose\_con ON interv (a)

gender ;

cmscore ON dose\_con (b)

interv (d)

gender ;

hivtest ON cmscore (c)

dose\_con (e)

interv

gender ;

%Between%

dose\_con;

cmscore;

hivtest;

Model Constraint:

New ind ind2 ind3 ;

ind = a\*b\*c ; ! Intervention -> Dose -> CM -> HIV testing

ind2 = a\*e ; ! Intervention -> Dose -> HIV testing

ind3 = d\*c ; ! Intervention -> CM -> HIV testing

Output: Standardized Cinterval ;