## Social Ecological Model for Children Associated with the ZEST Schistosomiasis (Kichocho) School-based Intervention

| Level         | Who do we want to change | What do we want to change                                                                                                                                                                                                 | Behavioral Construct to influence                                                                                                                                            | Intervention Approach                                                                                     | Change Agents                                                                                     | Trainings for Change Agents                                                                 |
|---------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Individual    | Primary school children  | Learn about kichocho Perceive threat/severity Understand the blood fluke Understand long-term health consequences Swallow MDA tablets Urinate in toilet/bush Wash laundry with tap water or not standing in the river Increase personal health seeking behaviors for kichocho Find alternatives to going into contaminated water for chores | Knowledge (HBM) Perceived threat (HBM) Perceived severity (HBM) Positive reinforcement (AI/SCT) Access to materials (HBM) Skills building (SCT) Self-efficacy (HBM/SCT) Behavioural capability (SCT) Outcome expectancies (SCT) Access to laundry platforms and other structural interventions Access to MDA | NTD team school visits Kichocho Day school wide events Disease lectures Demonstrations Interactive kichocho prevention activities and games Role modeling Participate in Kichocho Day-school wide event Positive support/no scolding | NTD Team Trained school teachers Trained Madrassa teachers                                                                                         | Science-based disease (dispel myths) Science-based behavior change Science-based communication MDA talk Demonstrations Interactive activities Blood Fluke |
|               | Children not in school   |                                                                                                                                                                                                                           |                                                                                                                                                                                |                                                                                                           |                                                                                                           |                                                                                                                                     |
| Interpers.    | Social networks of school children and children not in school (Peers, siblings, other family members, parents) | Learn about kichocho Perceive threat/severity Understand the blood fluke Understand long-term health consequences Swallow MDA tablets Urinate in toilet/bush Wash laundry with tap water or not standing in the river Increase personal health seeking behaviors for kichocho Encourage peers to swallow MDA tablets Engage other friends and family members about kichocho Encourage others to go into contaminated water Participate in local school and Madrassa events Encourage friends and family to find alternatives to going into contaminated water | Knowledge (HBM) Perceived threat (HBM) Perceived severity (HBM) Positive reinforcement (AI/SCT) Access to materials (HBM) Skills building (SCT) Self-efficacy (HBM/SCT) Behavioural capability (SCT) Outcome expectancies (SCT) Social Norms (SN) Access to laundry platforms and other structural interventions Access to MDA | NTD team school visits Disease lectures Demonstrations Interactive kichocho prevention activities and games Role modeling Positive support no scolding Participate in Kichocho Day-school wide event | NTD team Trained school teachers Trained Madrassa teachers Trained students and student club members | Science-based disease (dispel myths) Science-based behavior change Science-based communication MDA talk Demonstrations Interactive activities Blood Fluke |
| Organiz. | Children in school clubs | Learn about kichocho  
Perceives threat/severity  
Understand the blood fluke  
Understand long-term health consequences  
Increase personal health seeking behaviors for kichocho  
Swallow MDA tablets  
Urinate in toilet/bush  
Wash laundry with tap water or not standing in the river  
Encourage family and friends to swallow MDA tablets  
Engage other Mosque members about kichocho  
Encourage Mosque and other organization members to find alternatives to children going into contaminated water  
Participate in local school and Madrassa events  
Knowledge (HBM)  
Perceived threat (HBM)  
Perceived severity (HBM)  
Access to materials (HBM)  
Skills building (SCT)  
Behavioural capability (SCT)  
Self-efficacy (HB/M/SCT)  
Outcome expectancies (SCT)  
Social norms (SN)  
Access to laundry platforms and other structural interventions  
Access to MDA  
NTD team organization visits  
Mosque meetings  
Small group clubs  
Disease lectures  
Demonstrations  
Interactive kichocho prevention activities and games  
Role modeling  
Positive support/no scolding  
Participate in Kichocho Day school-wide events  
NTD team community visits (small groups)  
Mosque meetings  
Disease lectures  
Demonstrations  
Interactive kichocho prevention activities and games  
Role modeling  
Positive support/no scolding  
Participate in Kichocho Day school-wide events  
NTD team  
Trained parents  
and  
Children  
Trained School Committee members  
Trained members of parents’ social networks  
Trained Madrassa teachers  
Trained children  
MDA DD  
Science-based disease (dispel myths)  
Science-based behavior change  
Science-based communication  
MDA talk  
Demonstrations  
Interactive activities  
Blood Fluke |
|---|---|---|---|
| Comm. | Parents  
Mosque members  
Members of different organizations | Learn about kichocho  
Perceives threat/severity  
Understand the blood fluke  
Understand long-term health consequences  
Increase health seeking behaviors for kichocho  
Swallow MDA tablets  
Urinate in toilet/bush  
Wash laundry with tap water or not standing in the river  
Encourage children and others to swallow MDA tablets  
Engage community member at large to find alternatives to going into contaminated water  
Participate in local school and Madrassa events  
Knowledge (HBM)  
Perceived threat (HBM)  
Perceived severity (HBM)  
Access to materials (HBM)  
Skills building (SCT)  
Behavioural capability (SCT)  
Self-efficacy (HB/M/SCT)  
Outcome expectancies (SCT)  
Social norms (SN)  
Access to laundry platforms and other structural interventions  
Access to MDA  
NTD team community visits (small groups)  
Mosque meetings  
Disease lectures  
Demonstrations  
Interactive kichocho prevention activities and games  
Role modeling  
Positive support/no scolding  
Participate in Kichocho Day school-wide events  
NTD team  
Trained parents  
and  
Children  
Trained School Committee members  
Trained members of parents’ social networks  
Trained Madrassa teachers  
Trained children  
MDA DD  
Science-based disease (dispel myths)  
Science-based behavior change  
Science-based communication  
MDA talk  
Demonstrations  
Interactive activities  
Blood Fluke |