Building NTD Capacity through Community-Wide Surveillance of STH & Schistosomiasis in Kenya
STH & Schistosomiasis in Kenya: Overview

- School based deworming ongoing since 2009

- National impact survey estimated national prevalence among school-age children (SAC):
  - 13.5% for STH
  - 1.7% for *S. mansoni*
  - 2.4% for *S. hematobium*

- Breaking Transmission Strategy (BTS) established in 2019 to interrupt community-wide transmission of 4 NTDs

- Data gaps: Community-wide prevalence baseline, and sub-national data
CWW implementing partners in Kenya

• Kenya Division of Vector Borne and Neglected Tropical Diseases

• Kenya Field Epidemiology Laboratory Training Program (K-FELTP)

• Kenya Red Cross Society

• AFENET

• County Public Health staff
CWW-MOH partnership goals

• Build capacity for NTD epidemiology and diagnostics at national and county levels

• Strengthen K-FELTP program in NTD data management and analysis for program actions
M&E planning for the BTS

- Filling gaps for sub-national and community-wide epidemiological data:
  - Stool based surveys for STH & *S. mansoni* in Vihiga, Bomet, Narok counties
  - Stool & urine surveys for STH, *S. mansoni*, & *S. haematobium* in Kakamega, Bungoma, & Trans-Nzoia counties
  - Schisto-focused ward-level surveys in these counties
CWW’s ICSPM methodology

• Integrated Community-based Survey for Program Monitoring

• Impact evaluation at the community level
  • Pre-school aged children (PSAC), SAC, and Adults
  • WASH and other risk factors

• Multi-stage cluster sampling methodology
  • Powered to the district/county level

• Kato Katz for diagnostics

• Adaptable to different evaluation units and NTDs

• Part of CWW’s global, comprehensive M&E framework
• Villages as clusters – 30 selected using population proportional to estimated size

• Minimum sample of 332 in each group (PSAC, SAC, Adults)

• Oversampling for Schistosomiasis to address ecological factors
Cascade training model for surveillance

• 2 Kenya NTD Program staff were trained by CWW in Atlanta in 2019

• These staff facilitated trainings in Kenya at national and county levels

• 3 new staff who will lead the 2020 surveys were trained virtually in August
ICSPM in the field

• County sensitization pre-survey & feedback post-survey

• National NTD program staff lead survey teams
  • Community Health Volunteers and County Public Health Officers as enumerators

• Capacity building among county laboratory technologists
Preliminary results from Vihiga

- ICSPM results: 9.5% overall STH prevalence*
  - 14.6% among PSAC;
  - 8.3% among SAC;
  - 4.3% among Adults;
  - Co-infection very low (<1%)

- National school-based survey results: 20-50% STH prevalence among SAC
  - Powered to national level

*preliminary data