Cote d'Ivoire Coverage Survey 2018 Recommendations Report







1 Programmatic Recommendations

This report reviews the coverage evaluation survey which was conducted in 4 districts (Issia, Prikro, Tiebissou and Zouan Hounien), Cote d'Ivoire, in January 2018 following 3 rounds of mass preventive chemotherapy (PC) for schistosomiasis (SCH). The last round of MDA took place in November 2017. The following programmatic recommendations are:

Table 1: Observations and programmatic actions to help maintain the high coverage in Cote d'Ivoire

Finding or observation Both reported coverage and surveyed coverage were high in four districts. All districts exceeded the WHO target of 75% coverage of PZQ. When adjusted for population size, one village in the district of Issia didn't reach the WHO target.	What to look for A good reporting system is in place. Communities and drug distributors are motivated. All elements of the MDA programme are well in place and functional.	Programmatic action MoH to investigate the reasons why some villages in Issia didn't reach the target. Reinforce the training of the distributors in the district before the next round of PCT scheduled in April/May 2019. MoH to sustain programme momentum for the next year to maintain coverage levels.
Prikro district has reported a coverage rate higher than 100%.	Census and denominators used by authorities might not be accurate in this district.	MoH to update and correct population data if more accurate population data exists before April/May 2018.
All districts' reported coverage figures were within the confidence interval of validated coverage, except for Prikro.	A good reporting system is in place.	MoH to sustain programme momentum for the next year to maintain coverage levels.
Coverage was substantially higher in children who attend school than children who don't attend school. Although, Prikro and Tiebissou managed to exceed the WHO target coverage for both attending and non-attending children.	Poor communication of MDA in the communities.	Organize knowledge exchange between the districts that reached the WHO target coverage and the ones that didn't before April/May 2019. Staff from Prikro and Tiebissou could lead the exchanges with the districts scheduled to be treated. Reinforce during training of distributors that all children
		and not just those that attend school are eligible for treatment before next round of PCT scheduled in April/May 2019.

Finding or observation	What to look for	Programmatic action
Communication channels were under-utilised.	Main method of sensitisation is through teachers, other methods are under-utilised	MoH to reinforce the importance of sensitisation messages during training of distributors, trainers and supervisors at all levels of distribution before next round of PCT in April/May 2019. Consider conducting a needs assessment of all social mobilisation and evaluation of current tools (radio, posters, town criers, health professionals, etc.) in Cote d'Ivoire prior to April/May 2019.
Refusal to take medications was low	Most cited reasons given for refusal were around not-attending or absence from school.	MoH to reiterate the importance of sensitisation messages during training of distributors, trainers and supervisors and increase the number of days of social mobilisation to ensure pupils are present in schools before April/May 2019.
Coverage was similar in both boys and girls indicating equitable reach of the program to boys and girls.	Maintain coverage good coverage rates	Sustain programme momentum for the next year to maintain coverage levels.

2 Methods

All methods described in associated protocol:

In English: https://imperiallondon.sharepoint.com/:w:/r/sites/fom/schisto/mer/2 Country M%26E/CIV/Coverage/FY 1718/1 Protocol %26 pre-survey/CIV-Coverage Survey Protocol 2018 EN.docx?d=w4f31d17e8d9e489db543c56b0b1df432&csf=1&e=jgEIEZ

In French: https://imperiallondon.sharepoint.com/:w:/r/sites/fom/schisto/mer/2 Country M%26E/CIV/Coverage/FY 1718/1 Protocol %26 pre-survey/CIV-Coverage Survey Protocol 2018 FR.docx?d=we62149a0b7d24b9f945ea2d8ab2019be&csf=1&e=HjHPzA

2.1 Field methods

• The selection of households was performed by the random walk method.

Data quality checks were performed daily by an SCI biostatistician and issues were communicated directly to the field supervisor, Dr Colombe.

2.2 Deviations from protocol

- Some villages in Zouan Hounien district were not safe for the enumerators. It was decided to reorganize the schedule and increase the number of enumerators in those villages to reduce the time spent and avoid security issues. The team was able to survey the full number of households required in the protocol (15).
- In the district of Issia, two villages' forms were recorded for Kore-Zuzua, the one with the population of 980 represented the village of Saioua-balam-magoudiboua.
- In Zouan Hounien district, the village of Kariako didn't allow the random walk method. Consequently, a modified random walk was performed as described in protocol.
- In Kouassi Ekrarkro village, Prikro district, only 5 households were interviewed. This was because the village only contained 20 households. The survey team decided to compensate by including 5 extra households in Prikro village. The small number of households sampled in Kouassi Ekrarkro is allowable, as proportion of houses sampled is taken into account in the analysis. The proportion of households sampled here (25%) is within the survey range of households sampled, 0.2% (for the largest villages in the survey) to 60%. The additional households sampled in Prikro village are likewise considered when calculating the household level finite population correction value.

2.3 Ethical approval

No ethical approval by the country was required to carry out this survey but an approval letter from the MoH was obtained: https://imperiallondon.sharepoint.com/:u:/r/sites/fom/schisto/mer/2 Country M%26E/CIV/Coverage/FY 1718/1 Protocol %26 pre-survey/CIV-CS%20May%202016%20Local%20ethical%20approval-FR-Final-08.04.2016.msg?csf=1&e=Wj5ICD

Ethical approval under the Imperial College Research Ethics Committee: ICREC_8_2_2 is given for the coverage survey.

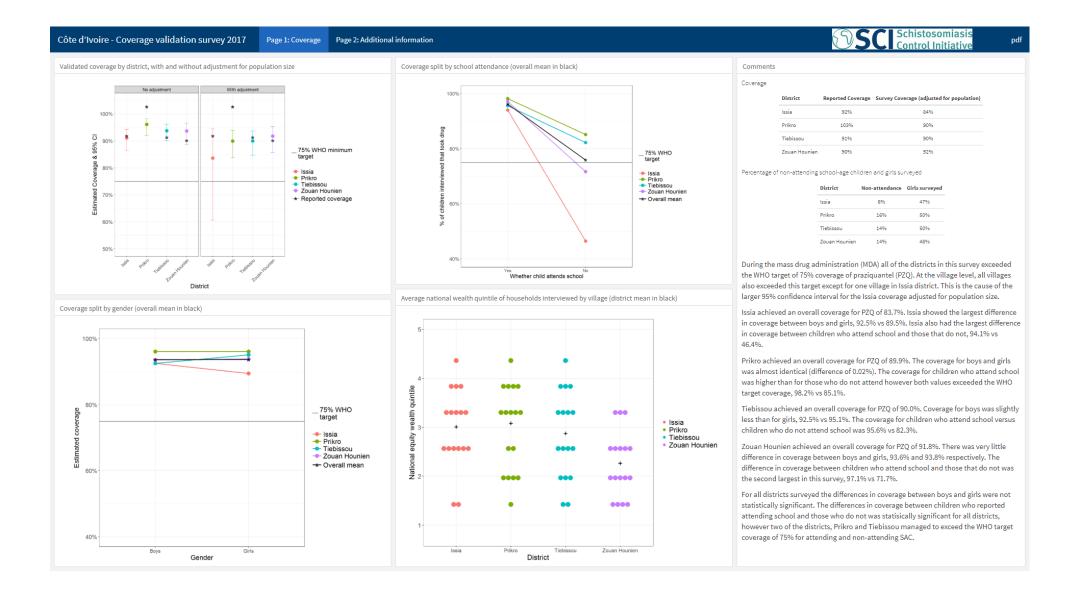
3 Survey Recommendations

Table 2: Observations and corrective measures for the survey process itself

Finding or observation Data collection and accuracy improved compared to previous coverage surveys led in Cote d'Ivoire due to improved training and use of smartphones for data collection.	What to look for Protocol being followed in the field.	Corrective action Maintain the data collection using mobile phones to ensure regular monitoring.	
Due to an error in the survey forms, villages in Zouan Hounien were unavailable for selection.	The survey team selected Aman-Salekro village (Tiebissou district) in the survey forms and used the 'Notes' field to record village and health zone.	Checklist and review process have been instigated for survey form creation to avoid similar issues in the future.	
Five extra households were selected in Prikro village as the survey team wanted to compensate for a small village (Kouassi Ekrarkro) where only 5 households were available for selection.	Protocol being followed in the field.	This did not have any negative impacts for the survey however in the future, during training it should be emphasised that the team communicates any uncertainty about how to proceed with supervisors (in country and at SCI) before making similar decisions.	
Household numbers being used multiple times during the survey.	Households within a village were not numbered uniquely, 1 to 15, often each enumerator would use, for example, 1 to 5.	Pre-allocate household numbers for each team member to use during training. Add a background field to the survey form that automatically generates a unique number, e.g. Enumerator name + household number to allow easy identification of unique households during analysis.	

4 Results

4.1 Dashboard





4.2 Results table: children

 Table 3. Coverage survey results overall and by district

Indicators	Overall	Issia	Prikro	Tiebissou	Zouan Hounien
N villages	68	17	17	17	17
N children interviewed	1806	449	461	452	444
PZQ coverage: not adjusted for population size (95% CI)		91.1 (86.4,94.3)	96.1 (92,98.2)	93.8 (90.1,96.2)	93.7 (88.7,96.6)
PZQ coverage: adjusted for population size (95% CI)		83.7 (60.6,94.4)	89.9 (83.8,93.9)	90 (84.6,93.6)	91.8 (85.8,95.4)
Percentage of children attend school	87.5	93.8	83.9	86.1	86.5
PZQ coverage in attending SAC	96.2	94.1	98.2	95.6	97.1
PZQ coverage in non-attending SAC	75.9	46.4	85.1	82.3	71.7
PZQ p-value of difference between attendance		3.53E-09	3.85E-05	1.15E-04	4.91E-09
Percentage girls	48.4	46.5	49.9	49.6	47.5
PZQ coverage in girls	93.7	89.5	96.1	95.1	93.8
PZQ coverage in boys	93.6	92.5	96.1	92.1	93.6
PZQ p-value of difference between sexes		0.21	0.92	0.29	0.85

4.3 Pdf of dashboard

