

Nigeria Coverage Report – Post SMC cycle 4 survey

Preiminary report

Notes: Survey took place between 8th November and 17th November 2017, across 4 states. A total of 2208 households were visited and 99.9% agreed to participate in the survey, the reasons for non-response (2/2208) were; refused to participate (n=1).

Overall coverage was 73.9%, however this hides some of the regional variability. The most common reason given for not receiving SMC was because the health worker did not visit the household.

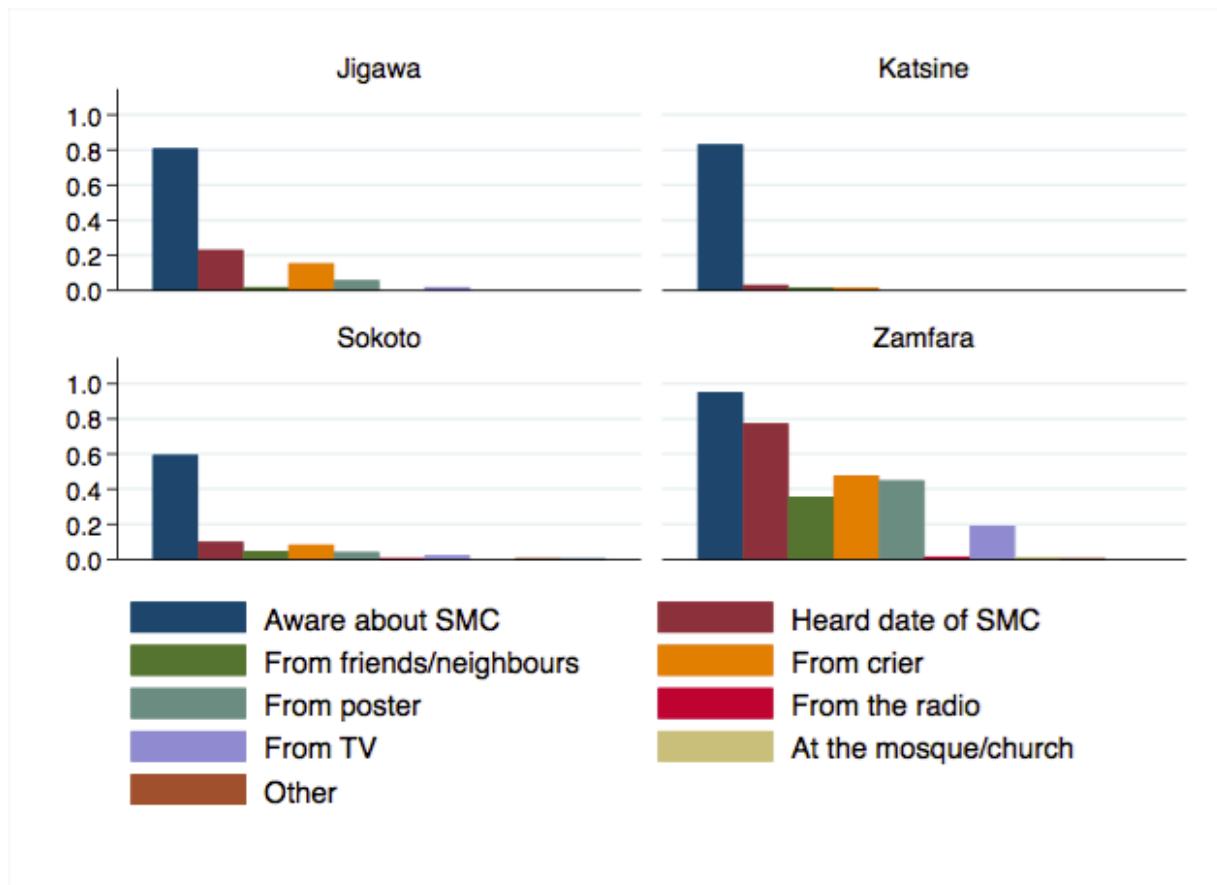


Figure1: Public awareness about SMC, and about the dates of the most recent SMC campaign (cycle 4), and where caregivers heard about date of the campaign

Table 1: Response rates and the number of households, children and other household members surveyed

Households surveyed	No. of households	%
Agreed to participate	2206	99.9
Refused to participate	2	0.1
TOTAL	2208	

Children Surveyed	No. of children
<3mths C4	4
Aged 3-59 months at cycle 4 (eligible for SMC at cycle 4)	1897
Aged 5-6 years at survey	165
Aged 6-7 years at survey (more than 5 years of age at cycle 1)	109
TOTAL (3 months to 7 years at survey)	2175

Caregivers surveyed	1410
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Total population surveyed:	No. of household members
Slept in the household the night before the survey	5640
TOTAL	5650

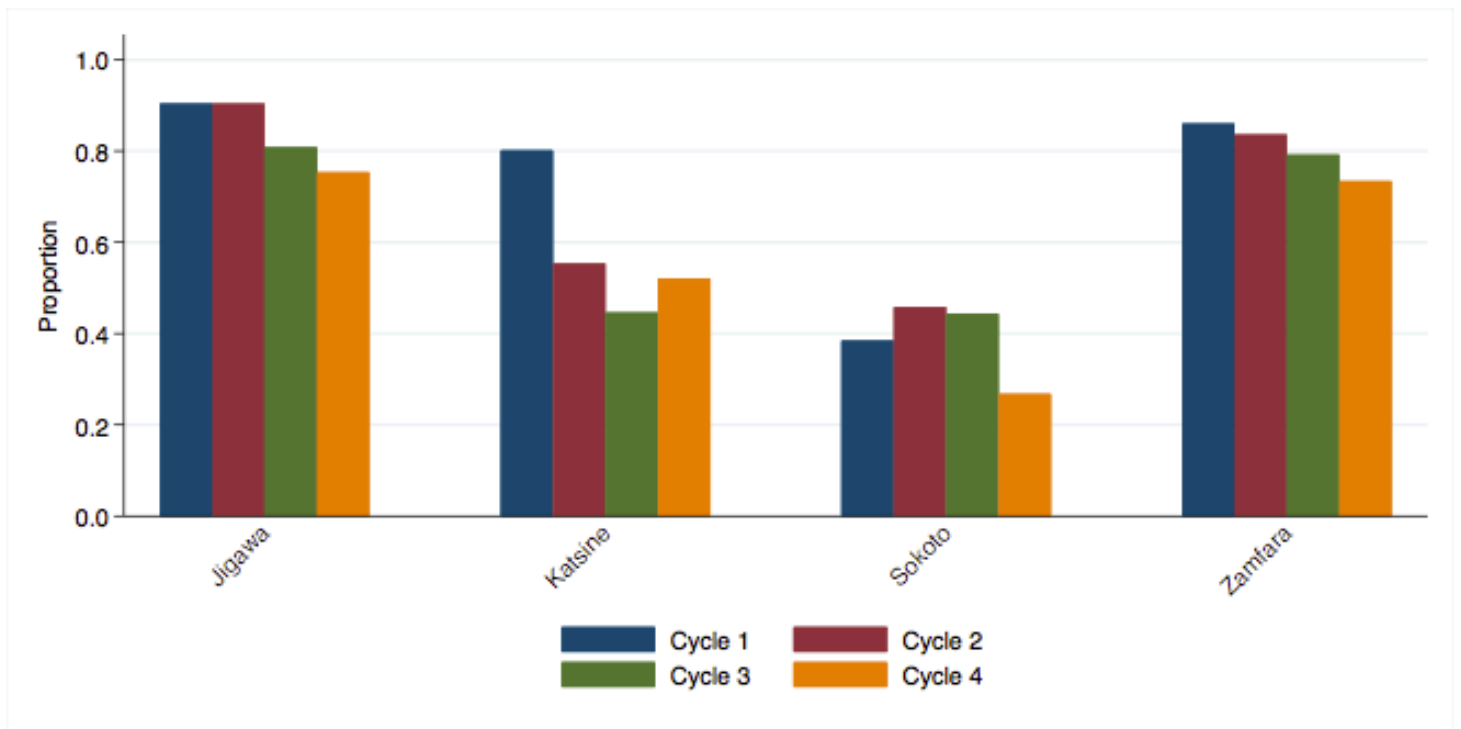


Figure 2: SMC coverage by cycle and region

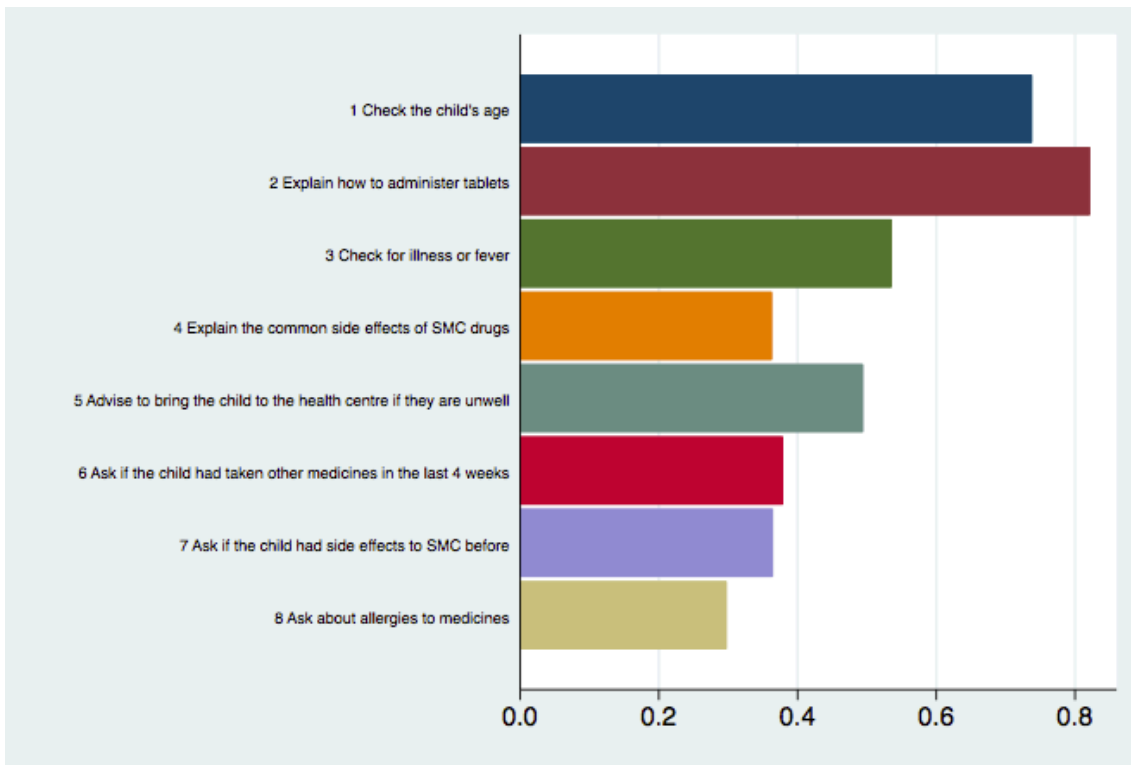


Figure 3: CHW adherence to guidelines

Table 2: Percentage of households that were aware of the SMC programme, had heard the date when cycle 4 would start in their village, and the source of the information

Region or State	Household aware about SMC	Heard the date of cycle 4	From friends/ neighbour	From a health worker	From a crier	From posters	On the radio	On TV	At the Mosque/church	Other*
Jigawa	83.1	23.1	1.1	15.0	5.9	0.0	1.1	0.0	0.0	0.0
Katsine	79.2	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Sokoto	64.8	10.4	5.5	8.4	5.3	0.3	2.0	0.0	0.3	0.1
Zamfara	95.4	79.3	40.5	50.2	45.4	1.4	23.0	1.1	0.2	0.0
Total	95.4	79.3	40.5	50.2	45.4	1.4	23.0	1.1	0.2	0.0

Table 4: Caregivers' knowledge scores on SMC:

Region or State	Average caregiver knowledge score (out of 10)	Average reported CHW score for adherence to guidelines (out of 8)
Jigawa	5.1	5.1
Katsine	5.0	6.2
Sokoto	4.1	3.5
Zamfar	6.0	4.7
a		
Total	5.4	4.7

Table 5: CHW adherence to guidelines:

Action	% of caregivers who reported that the CHW performed the action at the last visit:
1 Check the child's age	74.4
2 Explain how to administer tablets	82.0
3 Check for illness or fever	55.0
4 Explain the common side effects of SMC drugs	37.0
5 Advise to bring the child to the health centre if they are unwell	49.7
6 Ask if the child had taken other medicines in the last 4 weeks	38.4
7 Ask if the child had side effects to SMC before	36.5
8 Ask about allergies to medicines	31.8

Table 7: Percentage of children who were definitely eligible at cycle 4 (aged 3-59 months), who received SMC, and the percentage who received all 3 daily doses:

State or Region	Percentage treated	Percentage who received all 3 daily doses	Number of children aged 3-59 months
Jigawa	75.6	75.6	73
e Katsin	54.2	54.2	121
Sokoto	27.2	27.1	530
a Zamfar	73.9	73.9	1171
Total	73.9	73.9	1895

Table 8: Out of those who received SMC at cycle 4, the percentage whose first dose was administered by the CHW, the percentage that received the second dose, and the percentage that received the third dose:

State or Region	First dose administered by the CHW	Second dose given	Third dose given
Jigawa	83.6	100.0	100.0
e Katsin	79.3	100.0	100.0
Sokoto	54.6	99.3	100.0
a Zamfar	91.3	99.6	99.2
Total	91.3	99.6	99.2

Table 9: Reasons for not receiving SMC at cycle 4

Reason	%
the health worker did not visit the household	14.2
child was away on the day	0.4
family refused: state reason	0.1
not applicable...	0.1

Table 10: Reasons for not administering doses 2 and 3 at cycle 4

Reasons for not giving the dose:	Dose 2	Dose 3
	Na	Na
	Carer away	Carer away
	Child had side effects	Carer too busy
	Child refused	Child had side effects
	Lost the tablets	Child refused
	Did not understand	Lost the tablets
	Other	Did not understand
		Other

Table 11: Percent of Households who waited with the child

Who waited with the child % of households

Cousin	0.1
Family Friend	0.1
Father	2.1
Grandmother	1.3
Mother	95.2
Neighbour	0.1
Other	0.5
Sister	0.6

Table 12: Time spent waiting

How do you rate the time spent waiting in total: % of households

All Day	0.2
Long	0.8
Neither Short Nor Long	4.9
Short	64.9
Very Long	0.2
Very Short	29.0

Time spent waiting for the CHW:

Less than 1 hour	70.1
1-2 hours	0.2
A full day	0.4
Don't know	29.3

Time taken to administer SMC in the household:

Less than 15 minutes	69.8
15-30 minutes	3.7
30 minutes - 1 hour	0.9
1-2 hours	0.1
Long wait of more than 2hrs	0.2
Don't know	25.2

Table 13: SMC coverage among children eligible for four treatments, by region or state:

Region or State	Mean number of treatments	% that received SMC at each cycle:			
		Cycle 1	Cycle 2	Cycle 3	Cycle 4
Jigawa	3.38	90.6	90.6	81.1	75.6
Katsine	2.27	79.5	54.5	42.8	50.0
Sokoto	1.57	39.5	45.2	45.5	27.2
Zamfar	3.21	85.8	83.0	78.5	74.1
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TOTAL	2.69	72.6	70.7	66.7	59.3

Table 15: SMC coverage among children eligible for four treatments, by socioeconomic ranking:

Wealth ranking	Mean number of treatments	% that received SMC at each cycle:			
		Cycle 1	Cycle 2	Cycle 3	Cycle 4
Lowest	2.40	68.1	57.6	61.0	53.5
Low	2.84	74.6	73.7	71.9	63.5
Middle	2.80	74.1	73.6	68.8	63.4
High	2.71	71.2	72.3	68.7	58.4
Highest	2.65	73.7	73.8	61.4	56.1

Table 16: SMC coverage among children eligible for four treatments, by gender:

Gender	Mean number of treatments	% that received SMC at each cycle:			
		Cycle 1	Cycle 2	Cycle 3	Cycle 4
Female	2.66	73.1	69.2	65.5	58.4
Male	2.73	72.1	72.4	68.1	60.2

Table 17: Number of SMC treatments: percentage of children who received SMC 0,1,2,3,or 4 times

		% children who received SMC 0,1,2,3,4 times				
State or Region	0	1	2	3	4	
Jigawa	8.0	1.3	10.9	4.1	75.6	
Katsine	14.0	11.9	37.1	7.3	29.7	
Sokoto	28.2	27.8	15.2	16.1	12.8	
Zamfar	3.0	6.7	15.3	15.9	59.1	
a						
TOTAL	11.1	12.7	16.7	14.7	44.8	

Table 18: Percentage of children by SMC cycles received

Received SMC at cycle:				
1	2	3	4	% of children
0	0	0	0	11.1
0	0	0	1	2.1
0	0	1	0	2.5
0	1	0	0	2.5
1	0	0	0	5.7
1	1	0	0	8.7
1	0	1	0	0.9
1	0	0	1	2.3
0	1	1	0	1.4
0	1	0	1	0.3
0	0	1	1	2.9
1	1	1	0	7.9
1	1	0	1	8.7
1	0	1	1	1.8
0	1	1	1	4.5
1	1	1	1	44.8

Table 19: Treatment of children above the age limit for SMC (aged 6-7 years at the survey)

	% Treated at cycle:					
Mean number of treatments	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Given an SMC card	Number surveyed
2.4	66.1	65.4	57.8	48.3	28.5	453

Table 20: Percentage of eligible children who received an SMC card, and the percentage with a card available for inspection during the survey

State or Region	Given SMC card	Card available for inspection
Jigawa	31.0	5.1
Katsine	44.8	2.1
Sokoto	27.6	43.5
Zamfar	40.8	28.0
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TOTAL	36.8	28.1

Table 21: Agreement between caregiver report and SMC card:

Cycle	Card 0 Carer 0	Card 1 Carer 1	Card 0 Carer 1	Card 1 Carer 0	% Agreement	kappa
1	424	94	890	2	36.7	0.057
2	445	106	855	4	39.1	0.067
3	507	115	786	2	44.1	0.093
4	624	89	690	7	50.6	0.094

Table 22: Percentage of children 3-59months who slept under a bednet (of any type) the night before the survey

State or Region Slept under a net (of any type) last night	
Jigawa	72.9
Katsine	71.9
Sokoto	33.9
TOTAL	67.81

Table 23: Percentage who slept under a bednet, out of those who slept in the household the night before the survey, by prefecture

State or Region	Any net	LLIN	Intact net	Net <2yrs old	No. surveyed
Jigawa	100.0	16.2	8.7	0.6	278
Katsine	100.0	100.0	53.0	14.1	354
Sokoto	100.0	76.2	44.7	23.6	1793
TOTAL	100.0	85.6	56.3	19.1	5321

Table 24: Percentage who slept under a bednet, out of those who slept in the household the night before the survey, by age group

Age	Any net	LLIN	Intact net	Net <2yrs old	No. surveyed
<10yrs	100.0	85.2	57.1	19.3	2429
10-14yrs	100.0	79.2	33.8	13.4	281
15-19yrs	100.0	82.3	49.9	22.7	190
20-24yrs	100.0	82.6	52.0	16.6	390
25-30yrs	100.0	87.1	62.0	20.3	431
30-39yrs	100.0	88.0	58.5	20.0	964
TOTAL	100.0	85.6	56.3	19.1	5321

Table 25: Percentage who slept under a bednet, out of those who slept in the household the night before the survey, by wealth ranking

Age	Any net	LLIN	Intact net	Net <2yrs old	No. surveyed
Lowest	100.0	81.4	53.7	18.5	1356
Low	100.0	93.9	60.6	12.0	1151
Middle	100.0	78.6	53.4	19.2	959
High	100.0	92.1	63.3	16.4	792
Highest	100.0	82.4	50.2	30.9	1033

Table 26: Percentage who slept under a bednet, out of those who slept in the household the night before the survey, by gender

Gender	Any net	LLIN	Intact net	Net <2yrs old	No. surveyed
Male	100.0	85.7	57.5	19.8	2421
Female	100.0	85.6	55.5	18.6	2900

Table 27: Percentage of the population who could sleep under a net if two people slept under each net: (values in the main part of the table are row percentages)

No. of nets in the household (of any type):											
No. who slept in the household last night	0	1	2	3	4	5	6	7	8+	No. of households	% could sleep under net if 2/net
1	0.0	86.9	13.1	0.0	0.0	0.0	0.0	0.0		146	100.0
2	0.0	0.0	97.4	2.6	0.0	0.0	0.0	0.0		221	100.0
3	0.0	0.0	0.0	99.6	0.0	0.0	0.0	0.4		482	100.0
4	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0		268	100.0
5	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0		151	100.0
6	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0		89	100.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		52	100.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1466	100.0

Table 28: Percentage of the population who could sleep under a LLIN if two people slept under each net: (values in the main part of the table are row percentages)

No. of nets in the household (LLINs):											
No. who slept in the household last night	0	1	2	3	4	5	6	7	8+	No. of households	% could sleep under net if 2/net
1	41.0	54.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	146	59.0
2	13.7	0.0	84.6	1.7	0.0	0.0	0.0	0.0	0.0	221	86.3
3	14.1	0.0	0.0	85.5	0.0	0.0	0.0	0.4	0.0	482	85.9
4	21.2	0.0	0.0	0.0	78.8	0.0	0.0	0.0	0.0	268	78.8
5	17.7	0.0	0.0	0.0	0.0	82.3	0.0	0.0	0.0	151	82.3
6	16.6	0.0	0.0	0.0	0.0	0.0	83.4	0.0	0.0	89	83.4
7	27.4	0.0	0.0	0.0	0.0	4.9	0.0	67.7	0.0	52	72.6

TOTAL 17.0 13.7 0.0 0.0 0.0 0.0 4.9 0.0 0.0 1466 84.0

Table 29: Percentage of households with at least one net, and percentage of households with at least one net for every two people who slept in the household the night before the survey

State or Region	Net of any type		LLIN		Intact net		Net <2yrs old		No. of households
	1 or more	At least 1 per 2	1 or more	At least 1 per 2	1 or more	At least 1 per 2	1 or more	At least 1 per 2	
Jigawa	72.4	72.4	10.3	10.3	6.9	6.9	1.7	1.7	58
Katsine	61.1	59.7	56.9	56.9	33.3	29.2	11.1	8.3	72
Sokoto	33.9	32.2	14.5	14.5	9.2	9.2	5.0	4.7	401
Zamfara	75.9	75.8	46.5	46.5	35.0	34.2	12.6	11.6	935
TOTAL	63.6	63.0	36.8	36.8	26.7	26.1	10.0	9.1	1466

Table 30: Mothers or carers experiences giving of SMC, amongst children eligible for cycle 4

Type of tablets were in the blister pack %	
Hard	2.4
Dispersible	97.6
Who administered the first dose? %	
CHW	69.8
Not done	17.1
Observed by nurse	6.7
Unobserved	6.3
Did the child: %	
Swallow the medicine and keep it down	79.2
Swallow the medicine but spit/vomit some immediately	1.2
Swallow but vomit all immediately afterwards	0.1
Did not take the medicine	19.5
CHW repeat the dose if child vomitted %	
No	38.0
Yes	62.0
If YES did they vomit after the repeat dose	
No	41.2
Yes	58.8
CHW gave blister pack to the child	
No	23.6
Yes	76.4
Second dose (day 2) given at home	
No	19.6
Yes	80.4
If no, what was the reason	
Na	81.5
Carer away	1.4
Child had side effects	0.5
Child refused	1.2
Lost the tablets	0.3
Did not understand	0.0
Other	15.1
Dose 2: Did the Child	
Swallow the medicine and keep it down	79.3
Swallow the medicine but spit/vomit some immediately	1.2
Swallow but vomit all immediately afterwards	0.2
Did not take the medicine	19.3
Third dose (day 3) given at home	
No	20.6
Yes	79.4
If no, what was the reason	
Na	82.4
Carer away	1.3
Carer too busy	0.3
Child had side effects	0.5
Child refused	0.8
Lost the tablets	0.3
Did not understand	0.0
Other	14.4
Dose 3: Did the Child	
Swallow the medicine and keep it down	77.8
Swallow the medicine but spit/vomit some immediately	1.3
Swallow but vomit all immediately afterwards	0.3
Did not take the medicine	20.6

Table 31: Safety

Total number of children eligible at cycle 4	1897						
Has the child been unwell since the first day of this SMC cycle? n (%)	29 (1.5)						
Symptom name	Vomiting	Diarrhoea					
Number reporting symptom	11 (37.9)	12 (41.4)					
	Times per day						
	1	2 (18.2)	3 (25.0)				
	2	3 (27.3)	3 (25.0)				
	3	4 (36.4)	2 (16.7)				
	4	0 (0.0)	1 (8.3)				
	>4	2 (18.2)	3 (25.0)				
Symptom name	Yellow eyes	Rash	Abdominal Pain	Appetite	Fever	Drowsiness	Itchiness
Number reporting symptom	2 (6.9)	1 (3.4)	5 (17.2)	9 (31.0)	25 (86.2)	3 (10.3)	1 (100.0)
Severity							
mild, does not prevent play	2 (100.0)	0 (0.0)	2 (40.0)	0 (0.0)	4 (16.0)	1 (33.3)	0 (0.0)
moderate, prevents normal play	0 (0.0)	0 (0.0)	1 (20.0)	3 (33.3)	18 (72.0)	2 (66.7)	1 (100.0)
thought child needed to see someone about these symptoms	0 (0.0)	1 (100.0)	2 (40.0)	4 (44.4)	3 (12.0)	0 (0.0)	0 (0.0)