Supplemental Table S1. Estimated annual study-wide coverage (median and range) for SCORE Gaining and Sustaining Control Studies, stratified by study. Overall coverage was calculated as the average of the medians across all years that villages received treatment.

MDA / Population	Median %				
Population	IVICUIAII /0	Median %	Median %	Median % (Range)	Coverage
i opulation	(Range)	(Range)	(Range)		
Assessed	(1141190)	(1121190)	(1.190)	(1131190)	
SBT SAC	66 (6, 355)	84 (19, 205)	88 (18, 206)	95 (27, 208)	83
SBT SAC	95 (55, 100)	97 (75, 132)	95 (75, 100)	95 (82, 100)	95
SBT SAC	85 (59, 103)	88 (75, 125)	93 (62, 114)	91 (74, 109)	90
CWT SAC	72 (9, 694)	79 (15, 693)	88 (61, 101)	87 (71, 99)	83
CWT total	90 (25, 109)	92 (44 107)	92 (73 101)	91 (77 99)	91
population	00 (20, 100)	02 (11, 101)	02 (10, 101)	01 (11, 00)	01
SBT SAC	41 (3, 132)	33 (4, 375)	32 (4, 95)	26 (3, 79)	33
CWT SAC	51 (4, 252)	55 (13, 186)	45 (14, 197)	145 (44, 294)	52
	SBT SAC  SBT SAC  CWT SAC  CWT total population  SBT SAC	SBT SAC 95 (55, 100)  SBT SAC 85 (59, 103)  CWT SAC 72 (9, 694)  CWT total 90 (25, 109)  population  SBT SAC 41 (3, 132)	SBT SAC 95 (55, 100) 97 (75, 132)  SBT SAC 85 (59, 103) 88 (75, 125)  CWT SAC 72 (9, 694) 79 (15, 693)  CWT total 90 (25, 109) 92 (44, 107) population  SBT SAC 41 (3, 132) 33 (4, 375)	SBT SAC 95 (55, 100) 97 (75, 132) 95 (75, 100)  SBT SAC 85 (59, 103) 88 (75, 125) 93 (62, 114)  CWT SAC 72 (9, 694) 79 (15, 693) 88 (61, 101)  CWT total 90 (25, 109) 92 (44, 107) 92 (73, 101) population  SBT SAC 41 (3, 132) 33 (4, 375) 32 (4, 95)	SBT SAC 95 (55, 100) 97 (75, 132) 95 (75, 100) 95 (82, 100)  SBT SAC 85 (59, 103) 88 (75, 125) 93 (62, 114) 91 (74, 109)  CWT SAC 72 (9, 694) 79 (15, 693) 88 (61, 101) 87 (71, 99)  CWT total 90 (25, 109) 92 (44, 107) 92 (73, 101) 91 (77, 99)  population  SBT SAC 41 (3, 132) 33 (4, 375) 32 (4, 95) 26 (3, 79)

	CWT total population	29 (5, 98)	43 (6, 130)	53 (18, 123)	120 (74, 283)	26
Tanzania	SBT SAC	81 (73, 100)	80 (68, 100)	77 (49, 95)	84 (50, 100)	81
Gaining Control	CWT SAC	77 (47, 99)	78 (55, 100)	76 (56, 83)	76 (60, 100)	77
	CWT total population	79 (60, 99)	79 (59, 100)	78 (63, 108)	76 (52, 94)	78

Supplemental Table S2. Estimated study-wide coverage (median and range) in the Niger study, by year and by year 3 randomization to once-a-year vs. twice-a-year MDA. Overall coverage estimates are calculated as the average of the medians across all treatment years.

Type of MDA/	Year 1 Median %	Year 2 Median %	MDA Protocol for Years 3 and 4		Year 3 Median %	Year 4 Median %	Overall Coverage
Population							
Assessed	(Range)	(Range)			(Range)	(Range)	
SBT (SAC only)	90	103	Once-a-year		115	87	101
	(8, 352)	(0, 362)			(15, 335)	(53, 102)	
			Twice-a-year	(1 <sup>st</sup> )	119	85	102
					(11, 394)	(45, 105)	
				(2 <sup>nd</sup> )	94	78	86
					(25, 416)	(32, 100)	
CWT SAC	108	120	Once-a-year		108	111	110
	(45, 330)	(37, 459)			(56, 333)	(57, 167)	
			Twice-a-year	(1 <sup>st</sup> )	130	124	127
					(38, 345)	(56, 209)	
				(2 <sup>nd</sup> )	133	110	121
					(40, 296)	(48, 233)	
CWT total population	65	74	Once-a-year		90	84	87
	(14, 158)	(36, 159)			(18, 229)	(61, 99)	
			Twice-a-year	(1 <sup>st</sup> )	96	81	89

	(42, 241)	(53, 100)	
(2 <sup>nd</sup> )	90	83	86
	(18, 229)	(43, 100)	