Supplementary material BMJ Open

## **Supplementary Information**

	Arm 1	Arm 2	Arm 3		Arm 1	Arm 2	Arm 3		Arm 1	Arm 2	Arm 3
Week 1				Week 27				Week 53			
Week 2				Week 28				Week 54			
Week 3				Week 29				Week 55			
Week 4				Week 30				Week 56			
Week 5				Week 31				Week 57			
Week 6				Week 32				Week 58			
Week 7				Week 33				Week 59			
Week 8				Week 34				Week 60			
Week 9				Week 35				Week 61			
Week 10				Week 36				Week 62			
Week 11				Week 37				Week 63			
Week 12				Week 38				Week 64			
Week 13				Week 39				Week 65			
Week 14				Week 40				Week 66			
Week 15				Week 41				Week 67			
Week 16				Week 42				Week 68			
Week 17				Week 43				Week 69			
Week 18				Week 44				Week 70			
Week 19				Week 45				Week 71			
Week 20				Week 46				Week 72			
Week 21				Week 47				Week 73			
Week 22				Week 48				Week 74			
Week 23				Week 49				Week 75			
Week 24				Week 50				Week 76			
Week 25				Week 51				Week 77			
Week 26				Week 52				Week 78			
	tine survey 1		all enrolled of compour		ek						

Figure S1. Timetable of trial activities

CCM = enhanced community case management; MSAT = monthly screening and treatment

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Data category	Information				
Primary registry and trial identifying	ClinicalTrials.gov: NCT03705624				
number					
Date of registration in primary registry	July 19, 2018				
Secondary identifying numbers	INDIE-1a				
Source(s) of monetary or material	The Bill and Melinda Gates Foundation				
support					
Primary sponsor	London School of Hygiene and Tropical Medicine				
	Keppel Street				
	London WC1E 7HT				
	Tel: +44 207 927 2626 Email: RGIO@lshtm.ac.uk				
Secondary sponsor(s)	N/A				
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Public title	P. falciparum Infection Dynamics and Transmission to Inform Elimination				
0	(INDIE 1a)				
Scientific title	A cluster-randomized trial investigating the impact of enhanced				
	community case management and monthly screening and treatment on the transmissibility of malaria infections in Burkina Faso				
Countries of recruitment	Burkina Faso				
Health condition(s) or problem(s)	Malaria				
studied	Tradata				
Intervention(s)	Arm 1 (control): Standard of care				
	Standard of care with passively monitored malaria incidence				
	Arm 2 (intervention): CCM				
	Standard of care plus enhanced Community Case Management				
	for Malaria (CCM) involving weekly active screening for fever. A				
	measured temperature ≥37.5°C or reported fever in last 24h will				
	prompt screening with a conventional rapid diagnostic test (RDT).				
	RDT positive individuals will be treated with artemether-				
	lumefantrine according to national guidelines <u>Arm 3 (intervention): CCM + MSAT</u>				
	Standard of care with enhanced CCM plus monthly screening and				
	treatment regardless of symptoms using a conventional RDT				
	(MSAT). RDT positive individuals will be treated with artemether-				
	lumefantrine according to national guidelines.				
Key inclusion and exclusion criteria	Inclusion Criteria:				
	1. Participants should be permanent residents of the compound				
	Participants should be willing to participate in repeated				
	assessments of health and infection status and willing to donate a				
	maximum of 37mL of blood (children <10 years of age) or 52mL				
	of blood (older individuals) during an 18-month period				
	Evaluation Critoria:				
	Exclusion Criteria:  1. Any (chronic) illness that would affect with study participation				
	Any (chronic) liness that would affect with study participation     Pre-existing severe chronic health conditions				
	2. The existing severe emonile nearth conditions				

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	<ol> <li>Current participation in malaria vaccine trials or participation in such trials in the last 2 years</li> </ol>					
	History of intolerance to artemether-lumefantrine					
Study type	Interventional					
	Allocation: randomized					
	Intervention model: Cluster randomized trial					
	Masking: none (open label)					
	Primary purpose: Diagnostic					
Date of first enrolment	June 2018					
Target sample size	900					
Recruitment status	Recruiting					
Primary outcome(s)	Parasite prevalence and density between arms by molecular detection at					
	the end of study cross-sectional survey [Time Frame: Month 18 (end of					
	second transmission season; January-February 2020)].					
Key secondary outcomes	1. Parasite prevalence and density by molecular detection at the end of					
	year 1 cross-sectional survey [Time Frame: Month 6 (end of first					
	transmission season; January-February 2019)].					
	2. Parasite prevalence and density by molecular detection at the end of					
	the dry season cross-sectional survey [Time Frame: Month 12 (prior to					
	second transmission season; June 2019)].					
	3. Gametocyte prevalence and or density by molecular methods at the					
	end of study cross-sectional survey [Time Frame: Month 18 (end of					
	second transmission season; January-February 2020)].					
	4. Gametocyte prevalence and or density by molecular methods at the					
	end of year 1 cross-sectional survey [Time Frame: Month 6 (end of					
	first transmission season; January-February 2019)].					
	5. Gametocyte prevalence and or density by molecular methods at the					
	end of the dry season cross-sectional [Time Frame: Month 12 (prior to					
	second transmission season; June 2019)].					
	6. Gametocyte prevalence and or density by molecular methods among					
	P. falciparum infections during all visits in the study					
	[Time Frame: Throughout study, an average of 18 months].					
	7. The number of incident infections/clinical incidence detected during					
	CCM, MSAT and passive case detection [Time Frame: Throughout					
	study, an average of 18 months].					
	8. Infectivity to mosquitoes of <i>P. falciparum</i> infections					
	[Time Frame: Throughout study, an average of 18 months].					

Table S1. World Health Organization Trial Registration Data Set