Supplemental Material for:

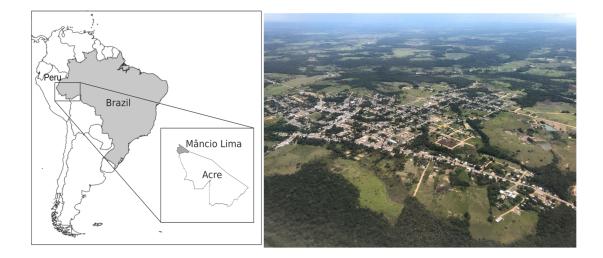
Cohort profile: The Mâncio Lima cohort study of urban malaria in Amazonian Brazil

Igor C Johansen,¹* Priscila T Rodrigues,¹* Juliana Tonini,¹ Joseph M Vinetz,² Marcia C Castro,³ Marcelo U Ferreira¹

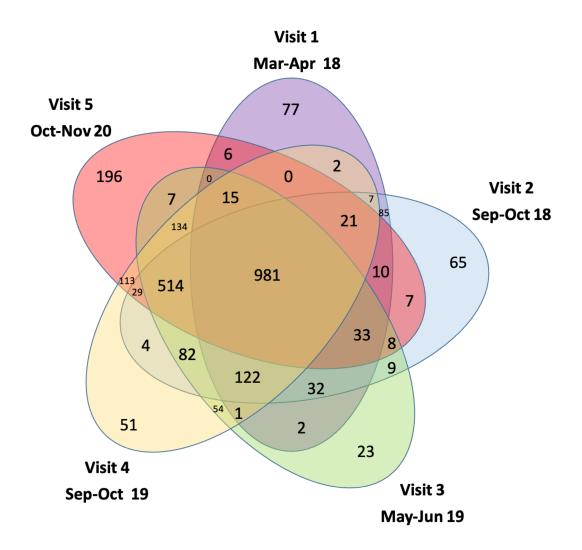
¹Department of Parasitology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, SP, Brazil.

²Section of Infectious Diseases, Department of Internal Medicine, Yale School of Medicine New Haven, CT, USA.

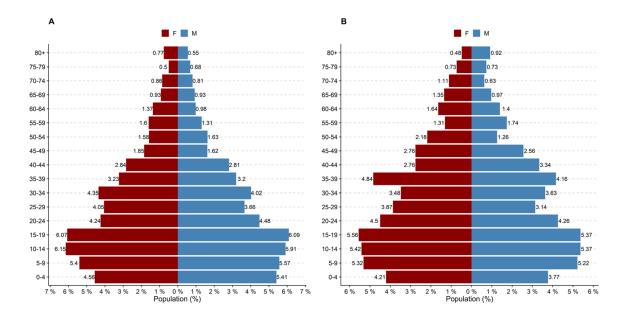
³Department of Global Health and Population, Harvard University T H Chan School of Public Health, Boston, MA, USA.



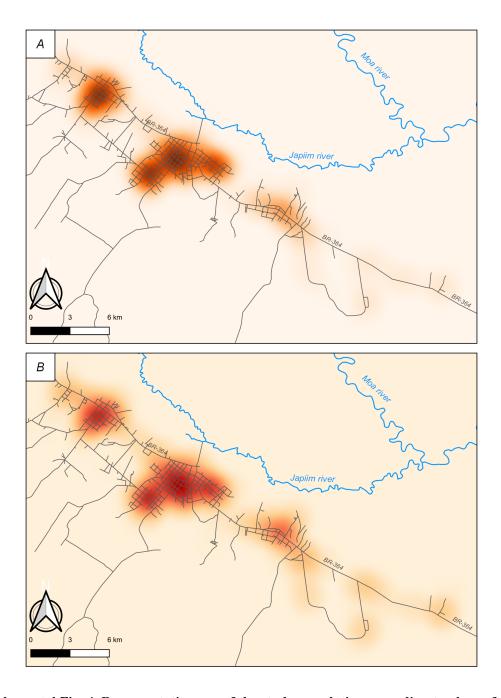
Supplemental Fig. 1. Study Site. The left panel shows the location of the Municipality of Mâncio Lima, in northwestern Brazil, next to the border with Peru. The right panel shows an aerial photography of the town of Mâncio Lima. (Photography by Rodrigo M. Corder.)



Supplemental Fig. 2. Participants in consecutive study visits. The Venn diagram shows the number of individuals interviewed in each study visit and in different combinations of them. Note that 981 individuals participated in all study visits.



Supplemental Fig. 3. Representativeness of the study population according to sex and age groups. Compared with the total population of Mâncio Lima enumerated during the baseline census carried out between November 2015 and April 2016 (A), the study sample has a very similar distribution according to sex and age groups (B).



Supplemental Fig. 4. Representativeness of the study population according to place of residence. Compared with the total population of Mâncio Lima enumerated during the baseline census carried out between November 2015 and April 2016 (A), the study sample has a nearly equal distribution according to place of residence (B).

Supplemental Table 1. Short videos about the Mâncio Lima cohort study

Access	Торіс	Producer
https://youtu.be/oEwJPHiBNmc	Field study set-up, March 2018	TV USP
https://www.youtube.com/watch?v=CBx7z0ApznI	House-to-house visits, March 2018	TV USP
https://youtu.be/wE3gJfdRpVo	Impact of COVID-19 on malaria, August 2020	Agência FAPESP ^a

^aFive short videos on COVID-19 research in the field site were produced; a teaser can be found at:

 $https://www.youtube.com/watch?v=lg1Ug-T_whQ\&list=PLPdNbZy8nStgk8tZiXn7M7E9EeWXQ2zl9\&index=1.$

Supplemental Table 2. Sociodemographic, occupational, and behavioral characteristics, housing quality, and travel history at the enrollment of the Mâncio Lima cohort study population (individuals who participated in at least one of five consecutive study visits; n= 2,690)

Type of			
measure	Variable	Description	Value
Demographic	Age (years)	Range	0-103
		Mean	26.4
		Median	22
		Standard deviation (SD)	19.8
	Gender	Male	1,311 (48.7%)
		Female	1,379 (51.3%)
		Total	2,690 (100)
	Pregnant?	No	1,325 (96.1%)
	(only females)	Yes	43 (3.1%)
		Does not know/did not answer	11 (0.8%)
		Total	1,379 (100%)
	Birthplace	Mâncio Lima	1394 (51.8%)
		Other, Juruá Valley	985 (36.6%)
		Other, Amazon	255 (9.5%)
		Other, elsewhere in Brazil	8 (0.3%)
		Does not know/did not answer	48 (1.8%)
		Total	2,690 (100%)
	Literacy	Illiterate	159 (7.6%)
	(only ≥10 years old)	Literate	1,911 (91.8%)
		Does not know/did not answer	12 (0.6%)
		Total	2,082 (100%)
	Highest level of schooling	Never studied	190 (15.5%)
	(only ≥25 years old)	Incomplete elementary school	493 (40.3%)
		Complete elementary school	32 (2.6%)
		Incomplete high school	279 (22.8%)

		Complete high school	69 (5.6%)
		Incomplete college	119 (9.7%)
		Complete college	43 (3.5%)
		Total	1,225 (100%)
	Second residence outside the	e urban	
	area?	No	2,017 (75.0%)
		Yes	446 (16.6%)
		Does not know/did not answer	227 (8.4%)
		Total	2,690 (100%)
Household	Wall material	Masonry	926 (34.4%)
		Wood	1,762 (65.6%)
		Rammed earth	1 (0.0%)
		Other	1 (0.0%)
		Total	2,690 (100%)
	Floor material	Masonry	247 (9.2%)
		Wood	850 (31.6%)
		Ceramics	1,386 (51.5%)
		Cement	202 (7.5%)
		Other	5 (0.2%)
		Total	2,690 (100%)
	Roofing material	Asbestos	2,176 (80.9%)
		Aluminium	460 (17.1%)
		Wood	15 (0.6%)
		Clay tile	17 (0.6%)
		Other	22 (0.8%)
		Total	2,690 (100%)
	Dragange of a guaranted asi	lina	
	Presence of a suspended cei beneath the roof?	No	2,046 (76.1%)
	beneath the 1001:	Yes	644 (23.9%)
		Total	2,690 (100%)
	I	1 Otal	2,030 (100/0)

How many rooms are there in this		
house?	Range	1-16
	Mean	5.6
	Median	5
	SD	1.7
How many rooms are utilized as		
bedrooms?	Range	1-8
	Mean	2.5
	Median	2
	SD	0.9
How many beds are there in your		
house?	Range	1-7
	Mean	3
	Median	3
	SD	1.1
How many insecticide-treated		
bednets are there in your house?	Range	0-7
,	Mean	1.5
	Median	1
	SD	1.5
II 41 i		
How many toilets are there in your house?	Range	0-5
nouse:	Mean	1.2
	Median	1.2
	SD	0.6
	עפ	0.6
Number of people in the household	Range	1-13
	Mean	4.9
	Median	4

		SD	2.2
	Any household member is beneficiary of social programs (e.g. social security pension,		
	conditional cash transfer)?	No	539 (20.0%)
		Yes	2,151 (80.0%)
		Total	2,690 (100%)
Occupational	Individual work status	Does not work	1,259 (60.5%)
-	(only ≥10 years old)	Formal employee	207 (9.9%)
		Informal employee	567 (27.2%)
		Employer	14 (0.7%)
		Does not know/did not answer	35 (1.7%)
		Total	23,082 (100%)
Behavioral	Regular fishing	No	2,350 (87.4%)
		Yes	296 (11.0%)
		Does not know/did not answer	44 (1.6%)
		Total	2,690 (100)
	Sleep by the river	No	2,465 (91.6%)
		Yes	180 (66.9%)
		Does not know/did not answer	45 (1.7%)
		Total	2,690 (100%)
	Sleep with open or closed window	Closed	2,639 (98.1%)
		Open	11 (0.4%)
		Varies	8 (0.3%)
		Does not know/did not answer	32 (1.2%)
		Total	2,690 (100%)
	Sleep time	Mean (hours:minutes)	07:52 pm
	Î	Median	21:00 pm

	Wake-up time	Mean hours:minutes)	06:24 am
		Median	06:00 am
	Bathing inside or outside the		
	house?	Inside	1,256 (46.7%)
		Outside	1,322 (49.1%)
		Both	67 (2.5%)
		Does not know/did not answer	45 (1.7%)
		Total	2,690 (100%)
	Slept under bednet past night?	No	957 (35.6%)
		Yes, not insecticide-treated	526 (19.6%)
		Yes, insecticide-treated	1,141 (42.4%)
		Does not know/did not answer	66 (2.4%)
		Total	2,690 (100%)
Travel history			
	Overnight trip outside the town		
	within the past 6 months?	No	1,825 (67.8%)
		Yes	857 (31.9%)
		Does not know/did not answer	8 (0.3%)
		Total	2,690 (100%)
	Most common travel destinations		
	and total duration of stay	1st	City of Cruzeiro do Sul: 4,334 days
		2nd	Timbaúba: 4,318 days
		3rd	Ramal do Feijão Insosso, 2,300 days
		4th	Puyanawa reserve: 2,097 days
		5th	Ramal do Batoque, 2,037 days