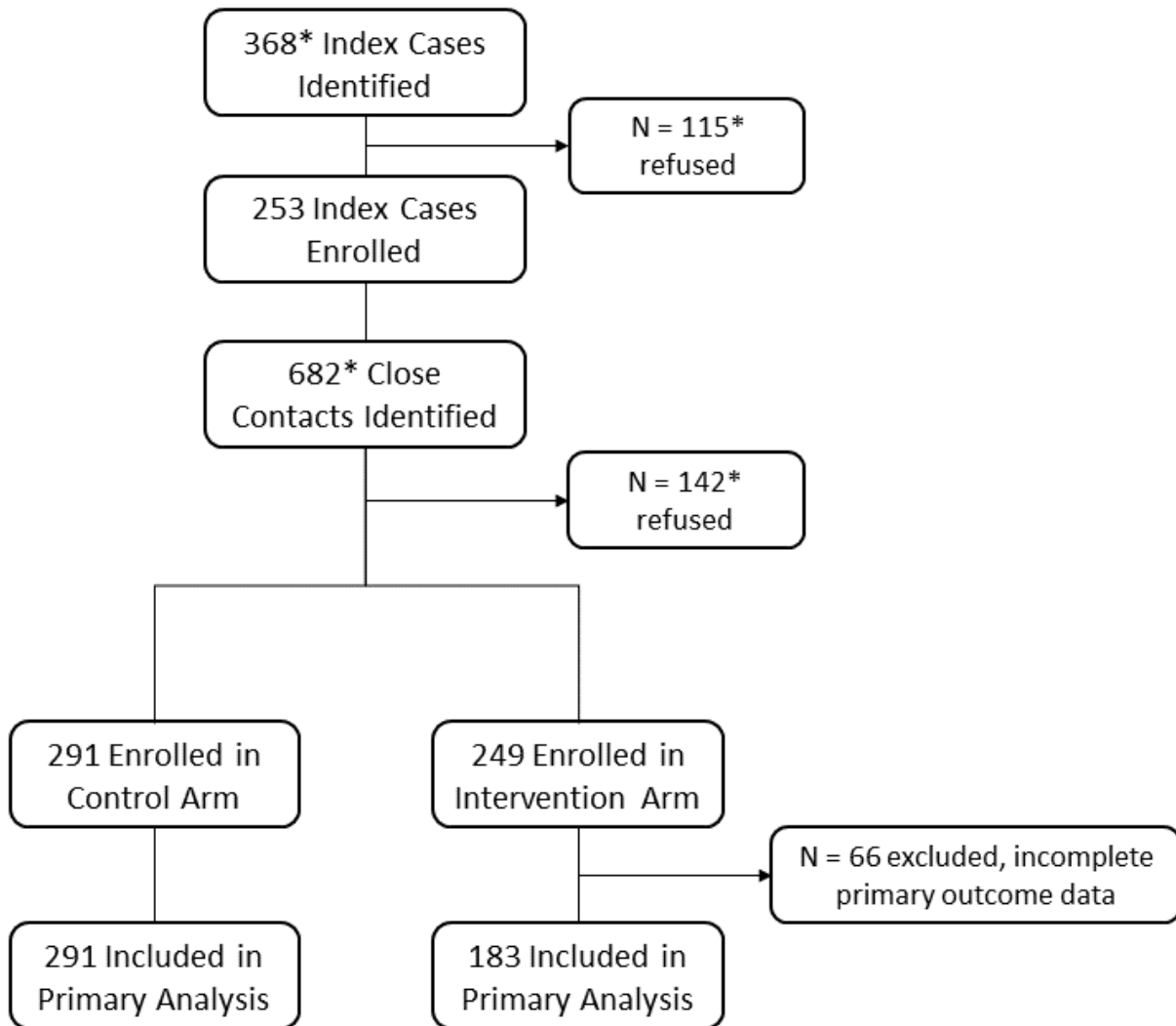## Participant Flow

*Includes only numbers from Porto Velho, not tracked in Curitiba

Baseline Characteristics

Table 1. Participant demographic and clinical characteristics

	Overall	Control	Intervention
N	474	291	183
Age (mean (SD))	39.78 (16.58)	40.10 (17.23)	39.28 (15.52)
Sex = Male (%)	187 (39.5)	112 (38.5)	75 (41.0)
Race (%)			
Black	51 (10.8)	28 (9.6)	23 (12.6)
Brown	235 (49.6)	156 (53.6)	79 (43.2)
White	182 (38.4)	103 (35.4)	79 (43.2)
Indigenous or Other	6 (1.3)	4 (1.4)	1 (0.5)
Education (%)			
Incomplete Primary	66 (13.9)	44 (15.1)	22 (12.0)
Completed Primary	20 (4.2)	13 (4.5)	7 (3.8)
Incomplete Secondary	38 (8.0)	23 (7.9)	15 (8.2)
Completed Secondary	126 (26.6)	75 (25.8)	51 (27.9)
Some or Complete Tertiary	224 (47.3)	136 (46.7)	88 (48.1)
Married/Significant Other (%)	229 (48.5)	142 (49.1)	87 (47.5)
Household Size (mean (SD))	2.80 (1.78)	2.89 (1.99)	2.65 (1.38)
Lives w/child <18 (%)	173 (37.4)	99 (34.7)	74 (41.6)
Lives w/someone over 65 (%)	105 (22.7)	63 (22.1)	42 (23.6)
Work outside home all/most of time (%)	235 (49.6)	135 (46.4)	100 (54.6)
Number of symptoms (enrollment visit) (mean (SD))	0.59 (1.31)	0.56 (1.21)	0.64 (1.46)
Has 1+ Pre-existing Condition (%)	133 (28.1)	83 (28.5)	50 (27.3)
Received COVID Vaccine (%)*	444 (93.7)	279 (95.9)	165 (90.2)
Number F/U Surveys Completed (mean (SD))***	6.12 (3.47)	5.16 (3.80)	7.64 (2.12)

*p<0.05; **p<0.01; ***p<0.001

Outcome Measures

Table 2. Participant ability to complete supervised self-test

	Overall
N	183
Previous ST experience (%)	12 (6.6)
Steps of test procedure completed correctly (%)	
Removed swab from package and touched only handle	181 (98.9)
Inserted into nose and swabbed	181 (98.9)
Inserted at correct depth	171 (93.4)
Twisted swab at least 5x	180 (98.4)
Swabbed for at least 15 seconds	179 (97.8)
Swabbed both nostrils	181 (98.9)
Inserted swab into buffer	182 (99.5)
Stirred at least 10x	182 (99.5)
Took swab out of extraction buffer by squeezing tube	175 (95.6)
Sealed tube with nozzle cap	182 (99.5)
Held tube above well and dropped 4 drops into sample well	182 (99.5)
Read test after 15min and before 20min	182 (99.5)
Able to read test	182 (99.5)

Table 3. Reported ST adherence and ease of use during follow-up period

	Overall
N of self-tests distributed	1830
N of surveys submitted (Intervention Arm only) (%)	1399 (76.5)
Performed ST (%)	1279 (91.7)
Rated use of ST (%)	
Very easy	926 (79.0)
Somewhat easy	241 (20.6)
Somewhat difficult	3 (0.3)
Very difficult	2 (0.2)
Challenges in ST procedure (%)	
Collecting sample	3 (0.2)
Mixing sample	1 (0.1)
Reading result	1 (0.1)

Table 4. Bivariate analysis of test positivity across testing methods

	Overall	Control	Intervention
N	474	291	183
Professional Ag-RDT Positive at Enrollment (%)*	49 (10.3)	23 (7.9)	26 (14.2)
ST Positive during Follow-Up (%)	24 (14.3)	N/A	24 (14.3)
Ever Tested Positive by Either Professional or ST (%)**	54 (11.4)	23 (7.9)	31 (16.9)
Reported Positive Outside Test (%)	20 (14.5)	12 (12.6)	8 (18.6)

*p<0.05; p<0.01; p<0.001

Table 5. Reported adherence to public health guidelines on days where a valid test result was available

	Overall	Negative	Positive	p
N	1256	1153	103	
Left home since last survey (%)	691 (55.6)	657 (57.7)	34 (33.0)	<0.001
Masking frequency when outside of home (%)				0.145
All of the time	135 (19.8)	126 (19.5)	9 (26.5)	
Most of the time	133 (19.5)	125 (19.3)	8 (23.5)	
Some of the time	145 (21.3)	135 (20.9)	10 (29.4)	
None of the time	268 (39.4)	261 (40.3)	7 (20.6)	
Number of locations visited in last 24h where a close contact has occurred (mean (SD))	1.69 (1.93)	1.69 (1.90)	1.77 (2.36)	0.831
Number of non-HH close contacts (mean (SD))	6.13 (16.24)	6.63 (16.94)	1.20 (1.96)	0.006
Has isolated from HH members (%)	352 (28.7)	291 (25.9)	61 (59.8)	<0.001
Taking HH precautions (%)	491 (39.3)	419 (36.5)	72 (71.3)	<0.001
Isolating	202 (16.1)	160 (13.9)	42 (41.2)	<0.001
Masking	292 (23.3)	240 (20.8)	52 (51.0)	<0.001
Using separate bathroom	59 (4.7)	52 (4.5)	7 (6.9)	0.405
Sleeping somewhere different	131 (10.4)	113 (9.8)	18 (17.6)	0.021
Avoiding contact w/high risk HH members	155 (12.4)	127 (11.0)	28 (27.5)	<0.001

Table 6. Effect of the intervention on identification of COVID-19 cases during the study follow-up period, unadjusted and adjusted odds ratios (95% confidence interval)

	Unadjusted	Adjusted
Intervention	2.38 (1.34 – 4.22)	2.18 (1.17 – 4.03)
Unvaccinated		1.03 (0.34 – 3.15)
Number of surveys completed		1.04 (0.94 – 1.14)
Observations	*474*	*474*

Adverse Events

There were no adverse events associated with this study.