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# Use of High-Resolution Geospatial and Genomic Data to Characterize Recent Tuberculosis Transmission, Botswana

## Appendix

**Appendix Table 1.** Characteristics of participants with primary residence in Gaborone with and without WGS data available.

Characteristic	No WGS; n = 504	WGS; n = 945	Overall; n = 1,449
Median age, y	32.0	33.0	33.0
<b>Sex</b>			
F	232 (46.0%)	421 (44.6%)	653 (45.1%)
M	272 (54.0%)	524 (55.4%)	796 (54.9%)
<b>HIV</b>			
Negative	195 (38.7%)	370 (39.2%)	565 (39.0%)
Positive	295 (58.5%)	543 (57.5%)	838 (57.8%)
Not available	14 (2.8%)	32 (3.4%)	46 (3.2%)
<b>Income</b>			
Any	348 (69.0%)	660 (69.8%)	1008 (69.6%)
None	154 (30.6%)	278 (29.4%)	432 (29.8%)
Not available	2 (0.4%)	7 (0.7%)	9 (0.6%)

**Appendix Table 2.** Occupation category by genotypic groups ( $\leq 5$  SNP), Gaborone, Botswana, 2012–2016.

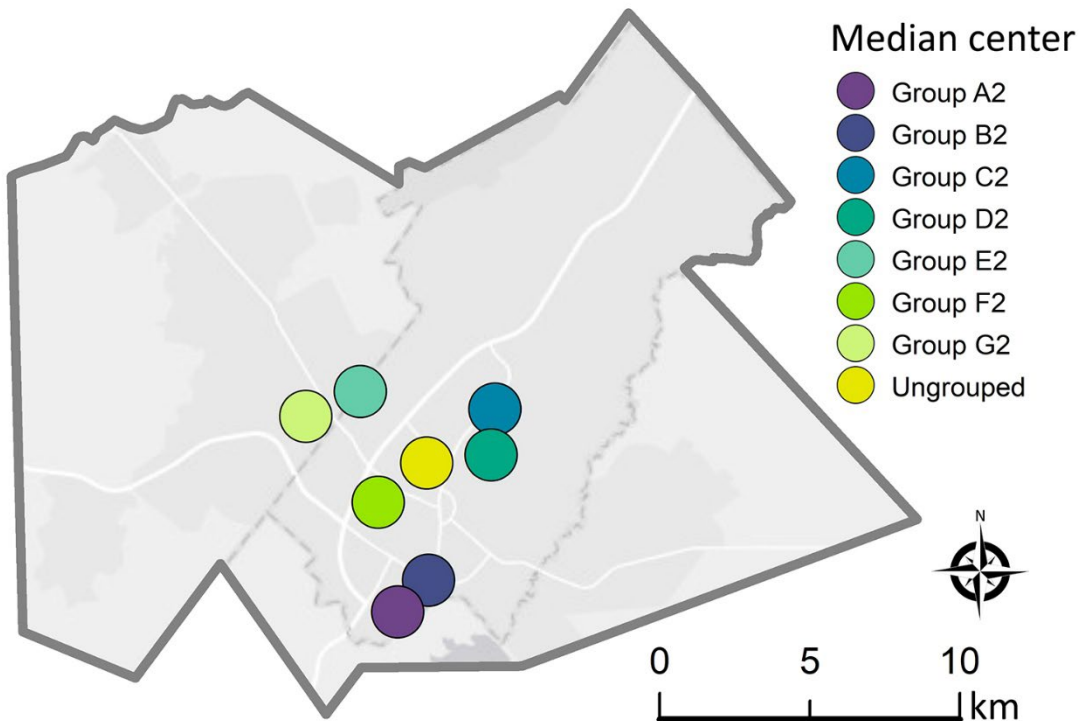
Category	A; n = 19	B; n = 12	C; n = 11	D; n = 10	E; n = 10	Overall; n = 62
Agriculture/environmental	0	0	0	0	2 (20.0%)	2 (3.2%)
Cleaner/housekeeper	0	1 (8.3%)	1 (9.1%)	0	0	2 (3.2%)
Construction/general labor	3 (15.8%)	1 (8.3%)	1 (9.1%)	2 (20.0%)	1 (10.0%)	8 (12.9%)
Driver	2 (10.5%)	0	0	0	0	2 (3.2%)
Mechanic/machine operator/technician	1 (5.3%)	2 (16.7%)	1 (9.1%)	0	0	4 (6.5%)
Office worker/manager	0	0	0	0	1 (10.0%)	1 (1.6%)
Other	1 (5.3%)	0	1 (9.1%)	0	1 (10.0%)	3 (4.8%)
Personal services	0	0	1 (9.1%)	0	0	1 (1.6%)
Police/security	1 (5.3%)	0	1 (9.1%)	1 (10.0%)	2 (20.0%)	5 (8.1%)
Restaurant worker	3 (15.8%)	0	0	0	1 (10.0%)	4 (6.5%)
Retail/vendor/manufacturing	0	1 (8.3%)	1 (9.1%)	1 (10.0%)	0	3 (4.8%)
Self-employed	3 (15.8%)	0	0	0	0	3 (4.8%)
Student	1 (5.3%)	0	0	2 (20.0%)	0	3 (4.8%)
Unemployed	4 (21.1%)	7 (58.3%)	4 (36.4%)	4 (40.0%)	2 (20.0%)	21 (33.9%)

**Appendix Table 3.** Shared social gathering locations ( $\geq 2$  participants) by genotypic group ( $\leq 5$  SNP), Gaborone, Botswana, 2012–2016.

Group	Number of shared locations by type			Total
	Markets/shopping centers	Transport hubs	Alcohol-related venues	
A	3	0	0	3
B	4	2	0	6
C	5	0	1	6
D	3	1	0	4
E	1	1	2	4

**Appendix Table 4.** Genotypic cluster groups ( $\leq 2$  SNP), Gaborone, Botswana, 2012–2016.

Group ( $\leq 2$ SNP)	No. of participants	Sublineage
Group A2	9	4.1.1.3
Group B2	8	4.1.1.3
Group C2	8	4.1.2.1
Group D2	7	4.3.4.1
Group E2	6	4.1.2
Group F2	6	4.2.4.2.1
Group G2	6	3.1.1



**Appendix Figure.** Median center points for genotypically grouped ( $\leq 2$  SNP; groups A2–G2) and ungrouped *M. tuberculosis* participants in study of genetic and geographic characteristics of tuberculosis patients, Gaborone, Botswana, 2012–2016.