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Supplementary Table S1: Additional information on Lagos public hospitals

S/N	Facility name	Latitude (x)	Longitude (y)	Facility type	Year of commission	Births in 2018
1	Agbowo General Hospital	6.645643	3.712914	General Hospital	2003	157
2	Ajeromi Ifelodun General Hospital	6.455283	3.33362	MCC	1983	825
3	Alimosho General Hospital	6.561196	3.250662	MCC	2006	2,484
4	Amuwo-Odofin MCC	6.461779	3.301963	MCC	2014	2,484
5	Apapa General Hospital	6.441943	3.368962	General Hospital	1964	120
6	Badagry General Hospital	6.413752	2.900374	General Hospital	1957	973
7	Epe General Hospital	6.586945	3.971665	General Hospital	1954	883
8	Eti-Osa MCC*	6.465421	3.585173	MCC	2019	-
9	FMC Ebute-Metta	6.484271	3.380194	Tertiary Hospital	1964	1,820
10	Gbagada General Hospital	6.551919	3.387304	General Hospital	1983	1,729
11	Harvey Road Health Centre	6.50935	3.372629	General Hospital	1962	717
12	Ibeju-Lekki General Hospital	6.439312	3.934335	General Hospital	2006	982
13	Ifako-Ijaiye MCC	6.680364	3.291382	MCC	2006	2,916
14	Ijede Health Care Centre	6.564649	3.596596	General Hospital	1983	869
15	Ikorodu MCC	6.608265	3.499394	MCC	1983	2,820
16	Institute of Maternal and Child Health - Àyinkẹ House*	6.590868	3.34092	Tertiary Hospital	1955	-
17	Isolo MCC	6.527787	3.318979	MCC	1975	2,147
18	Lagos Island Maternity Hospital	6.448543	3.397417	Tertiary Hospital	1960	3,681
19	Lagos University Teaching Hospital	6.517803	3.353786	Tertiary Hospital	1962	2,011
20	Mushin General Hospital	6.531566	3.348531	General Hospital	1954	524
21	Onikan Health Care Centre	6.444656	3.405436	General Hospital	1971	544
22	Orile Agege General Hospital	6.635353	3.303379	General Hospital	1982	1,677
23	Randle General Hospital (Gbaja-Surulere MCC)	6.50433	3.359574	MCC	1960	2,056
24	Somolu General Hospital	6.536461	3.372251	General Hospital	2006	619

MCC: Maternal and Childcare Centre

*Facilities not running in 2018. As such no details available on number of deliveries.

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Supplementary Table S2: Sensitivity Analysis, Referred Group, n=538

Stillbirth		Odds Ratio	Std. Err.	z	P>z	[95% Conf.	Interval]
Booking status							
	Un-booked	1	(base)				
	Booked	.520651	.2499758	-1.36	0.174	.2031731	1.334219
Coded maternal complication							
	No maternal complications	1	(base)				
	Prolonged/obstructed labour	.1151027	.0662299	-3.76	0.000	.0372654	.3555209
	Ante-partum/post-partum haemorrhage	.271897	.1456596	-2.43	0.015	.0951485	.7769747
	Pre-eclampsia/Eclampsia	.1563986	.0831536	-3.49	0.000	.0551656	.4434019
	Sepsis	.3985415	.2918016	-1.26	0.209	.0948956	1.67379
	Others	.1778269	.1148455	-2.67	0.007	.0501497	.6305603
Employment status							
	Unemployed/Housewife	1	(base)				
	Student	.6548489	.4904522	-0.57	0.572	.1508793	2.842187
	Self-employed/Petit- trader	.5656405	.1765455	-1.83	0.068	.3068081	1.042832
	Self-employed/Mid-High Business	1.307745	.5332521	0.66	0.511	.5880757	2.908124
	Employed	.7509751	.2876442	-0.75	0.455	.3544801	1.59096
Gestation							
	Singleton	1	(base)				
	Multiple	2.227672	.9926034	1.80	0.072	.9301949	5.334928
Parity							
	Nulliparous (0)	1	(base)				
	Multiparous (1-4)	1.328196	.3719421	1.01	0.311	.7671767	2.299476
	Grand-multiparous (5 or more)	.6034033	.6761629	-0.45	0.652	.0671068	5.425613
Age							
	12 - 19	1.818446	1.688413	0.64	0.520	.2946909	11.22107
	20 - 34	1	(base)				
	35 - 50	1.058522	.2854312	0.21	0.833	.6239829	1.795672
Total travel time							
	0-9 minutes	1	(base)				
	10-29 minutes	2.702125	2.176452	1.23	0.217	.5573104	13.10128
	30-59 minutes	2.152962	1.735693	0.95	0.342	.4434122	10.45359
	60-119 minutes	1.74776	1.40367	0.70	0.487	.3621267	8.435351
	120-480 minutes	2.493372	2.071474	1.10	0.271	.4893455	12.70453
_cons		.567706	.54719	-0.59	0.557	.0858387	3.754603

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Supplementary Table S3: Sensitivity Analysis, Non-Referred Group, n=2,259

Stillbirth		Odds Ratio	Std. Err.	z	P>z	[95% Conf.	Interval]
Booking status							
	Un-booked	1	(base)				
	Booked	.369942	.0611896	-6.01	0.000	.2675114	.5115935
Coded maternal complication							
	No maternal complications	1	(base)				
	Prolonged/obstructed labour	.0643348	.0200726	-8.79	0.000	.0349035	.1185832
	Ante-partum/post-partum haemorrhage	.3250163	.0864367	-4.23	0.000	.1929886	.5473668
	Pre-eclampsia/Eclampsia	.1468015	.0406688	-6.93	0.000	.0852944	.2526625
	Sepsis	.3061309	.10783	-3.36	0.001	.1534914	.6105626
	Others	.1279533	.0449722	-5.85	0.000	.0642505	.2548159
Employment status							
	Unemployed/Housewife	1	(base)				
	Student	.9582159	.36574	-0.11	0.911	.4534919	2.024684
	Self-employed/Petit- trader	.7072552	.1517899	-1.61	0.107	.4644005	1.077109
	Self-employed/Mid-High Business	1.323551	.3369945	1.10	0.271	.8035502	2.18006
	Employed	.6852588	.1708679	-1.52	0.130	.4203483	1.11712
Gestation							
	Singleton	1	(base)				
	Multiple	2.588755	.7457234	3.30	0.001	1.471946	4.552923
Parity							
	Nulliparous (0)	1	(base)				
	Multiparous (1-4)	.8521085	.1504627	-0.91	0.365	.6028265	1.204474
	Grand-multiparous (5 or more)	1.849566	.7289193	1.56	0.119	.8542965	4.004339
Age							
	12 - 19	.6083383	.3448521	-0.88	0.381	.2002718	1.847866
	20 - 34	1	(base)				
	35 - 50	1.71517	.2997976	3.09	0.002	1.217655	2.415962
Total travel time							
	0-9 minutes	1	(base)				
	10-29 minutes	1.961082	.4631949	2.85	0.004	1.234376	3.115617
	30-59 minutes	1.621841	.4203171	1.87	0.062	.9759112	2.695293
	60-119 minutes	1.317994	.378855	0.96	0.337	.750304	2.315207
	120-480 minutes	1.744984	.8822028	1.10	0.271	.6478188	4.700338
_cons		.6185375	.2230251	-1.33	0.183	.3051052	1.253956

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Supplementary Table S4: Sensitivity Analysis, Fresh Stillbirths, N=2,675

Stillbirth		Odds Ratio	Std. Err.	z	P>z	[95% Conf.	Interval]
Booking status							
	Un-booked	1	(base)				
	Booked	.403047	.0773501	-4.73	0.000	.2766934	.5871008
Coded maternal complication							
	No maternal complications	1	(base)				
	Prolonged/obstructed labour	.0731021	.0252129	-7.58	0.000	.0371836	.1437173
	Ante-partum/post-partum haemorrhage	.3681245	.1053156	-3.49	0.000	.2101247	.6449297
	Pre-eclampsia/Eclampsia	.1718948	.0506609	-5.97	0.000	.096471	.3062873
	Sepsis	.31814	.1251287	-2.91	0.004	.1471734	.6877128
	Others	.1976138	.0701013	-4.57	0.000	.0985968	.3960698
Employment status							
	Unemployed/Housewife	1	(base)				
	Student	.7979088	.3578552	-0.50	0.615	.3312812	1.921807
	Self-employed/Petit- trader	.8741547	.1912821	-0.61	0.539	.5692838	1.342294
	Self-employed/Mid-High Business	1.236778	.3423802	0.77	0.443	.7188723	2.127806
	Employed	.7421021	.1967799	-1.12	0.261	.4413207	1.24788
Gestation							
	Singleton	1	(base)				
	Multiple	2.564732	.7363595	3.28	0.001	1.461012	4.502257
Parity							
	Nulliparous (0)	1	(base)				
	Multiparous (1-4)	.9306698	.171933	-0.39	0.697	.6479532	1.336742
	Grand-multiparous (5 or more)	1.746394	.7401753	1.32	0.188	.7609864	4.007814
Age							
	12 - 19	.7133609	.4467619	-0.54	0.590	.2090359	2.434432
	20 - 34	1	(base)				
	35 - 50	1.529114	.2671416	2.43	0.015	1.085755	2.153514
Referral							
	No	1	(base)				
	Yes	1.489106	.2764	2.15	0.032	1.034975	2.142502
Total travel time							
	0-9 minutes	1	(base)				
	10-29 minutes	2.195466	.6361816	2.71	0.007	1.244152	3.874181
	30-59 minutes	2.132996	.6453007	2.50	0.012	1.178892	3.859279
	60-119 minutes	1.288978	.4267022	0.77	0.443	.6736971	2.46619
	120-480 minutes	2.407568	.962584	2.20	0.028	1.09965	5.271115
_cons							
		.2478592	.1032393	-3.35	0.001	.1095618	.5607264

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Supplementary Table S5: Sensitivity Analysis, Macerated Stillbirths, N=2,599

Stillbirth	Odds Ratio	Std. Err.	z	P>z	[95% Conf. Interval]
Booking status					
Un-booked	1	(base)			
Booked	.3357338	.0816779	-4.49	0.000	.2084075 .54085
Coded maternal complication					
No maternal complications	1	(base)			
Prolonged/obstructed labour	.0834752	.0306951	-6.75	0.000	.0406029 .1716159
Ante-partum/post-partum haemorrhage	.2667078	.087031	-4.05	0.000	.1406939 .5055874
Pre-eclampsia/Eclampsia	.1287584	.0434935	-6.07	0.000	.0664121 .2496342
Sepsis	.3210424	.1407909	-2.59	0.010	.135917 .7583173
Others	.0695048	.037138	-4.99	0.000	.0243892 .1980759
Employment status					
Unemployed/Housewife	1	(base)			
Student	1.072413	.4922673	0.15	0.879	.4361512 2.63686
Self-employed/Petit- trader	.386265	.1051595	-3.49	0.000	.2265418 .6586009
Self-employed/Mid-High Business	1.451442	.4285102	1.26	0.207	.8137644 2.588812
Employed	.6698821	.1993272	-1.35	0.178	.3738682 1.200268
Gestation					
Singleton	1	(base)			
Multiple	2.63033	.9469172	2.69	0.007	1.298907 5.326504
Parity					
Nulliparous (0)	1	(base)			
Multiparous (1-4)	.9316755	.2103572	-0.31	0.754	.598518 1.450281
Grand-multiparous (5 or more)	1.411074	.8332897	0.58	0.560	.4434913 4.489673
Age					
12 - 19	.741245	.4829908	-0.46	0.646	.2066921 2.658273
20 - 34	1	(base)			
35 - 50	1.484419	.3416001	1.72	0.086	.9455289 2.330442
Referral					
No	1	(base)			
Yes	1.293543	.3112718	1.07	0.285	.8071459 2.07305
Total travel time					
0-9 minutes	1	(base)			
10-29 minutes	1.76711	.5776148	1.74	0.082	.9311753 3.353479
30-59 minutes	1.029685	.3807361	0.08	0.937	.4988435 2.125419
60-119 minutes	1.428948	.5245364	0.97	0.331	.6959183 2.934096
120-480 minutes	1.192601	.6546144	0.32	0.748	.4066998 3.497169
_cons	.3752418	.1741075	-2.11	0.035	.1511348 .9316613