

**Supplementary Table 1a: The significance of each variable included in the multivariate model, tested separately, at Village level**

Variable	Coefficient (univariate)	Ch -2LL*	Significance of the change ( <i>P</i> -value)
brla_log	0.22362	68.49	< 0.001
roads_len	0.101025	104.24	< 0.001
elev_avg	6.24E-04	39.09	< 0.001
elev_avg <sup>2</sup>	-9.30E-07	-	-
markets_km	-0.008412	7.158	0.00746
hpop_urban_log	0.10091	10.704	0.00107
hpop_rural_log	0.13401	12.53	< 0.001
cropmax	0.021038	112.66	< 0.001

\*Change in -2 Log-likelihood upon removal of variable

**Supplementary Table 1b: The significance of each variable included in the multivariate model, tested separately, at District level**

Variable	Coefficient (univariate)	Ch -2LL*	Significance of the change ( <i>P</i> -value)
brla_dens_log	0.11702	42.95	< 0.001
rice_area	1.79E-04	4.72	0.02981
elev_avg	9.40E-04	71.12	< 0.001
elev_avg <sup>2</sup>	-5.51E-07	-	-
hpop_urban_log	-0.088239	83.63	< 0.001
hpop_urban_log <sup>2</sup>	0.047817	-	-
hpop_rural_log	0.012766	12.32	0.00211
hpop_rural_log <sup>2</sup>	0.002816	-	-
settlement	0.029827	32.41	< 0.001
road_len	1.24E-07	2.91	0.23340
Number of visits	-3.48E-04	144.33	< 0.001

\*Change in -2 Log-likelihood upon removal of variable

**Supplementary Table 2: Results of the autologistic regression model for districts, including the number of PDS visits per district as a covariate**

Variable	Mean	SD	Odds Ratio	Ch -2LL*	Sig. of change
(Intercept)	-4.171	0.09523	-	-	-
brla_dens_log	0.2224	0.02176	1.249	109.28	<0.0001
rice_area	0.000599	9.85E-05	1.001	34.15	<0.0001
elev_avg	2.13E-03	2.20E-04	1.002	96.52	<0.0001
elev_avg2	-1.81E-06	2.20E-07	1.000	71.19	<0.0001
hpop_urban_log	0.021	0.04688	1.021	0.20	0.654
hpop_urban_log2	-0.02515	0.007937	0.975	10.11	0.0014
hpop_rural_log	0.2904	0.05779	1.337	23.84	<0.0001
hpop_rural_log2	-0.0505	0.009892	0.951	25.47	<0.0001
settlement	0.08773	0.008432	1.092	109.43	<0.0001
road_len	5.44E-07	1.03E-07	1.000	27.39	<0.0001
Number of visits	-0.00059	3.53E-05	0.999	293.85	<0.0001
ArT	26.21	1.948	-	187.19	<0.0001

\*Change in -2 Log-likelihood upon removal of variable