

Supplementary File 2

Bivariate spatial regression of the determinants of maternal mortality in Africa

Variables	Coefficient	P-value
Income inequality (Gini coefficient)	-2.26582	0.44815
Urban residence	-4.77568	0.019
Current health expenditure	42.4572	0.0566
Poverty rate	5.68592	0.0036
Gender inequality	2262	0.000
Crude birth rate	17.8647	0.0018
Total alcohol consumption	-21.6187	0.535
Tobacco consumption, log	16.65	0.4464
Anaemia in pregnancy	10.3197	0.022
Syphilis seropositivity among pregnant women	-37.140	0.447
Obesity among female adults	-10.5929	0.0659
Prevalence of underweight among female adults	19.748	0.4491
Hypertension among female adults	-1.95166	0.931
Density of skilled health personnel	-8.65861	0.0114
ANC coverage	9.28636	0.050
Skilled birth attendants during deliveries	-3.54744	0.426
Deliveries by caesarean section	-13.0526	0.0240

Inferential joint probability of maternal mortality ratio, Gender Inequality Index and Skill birth Index from the Bayesian Network

Variables	Baseline (%)	Prediction (%)
MMR (Low)	29.8	100
Gender Inequality Index (High)	52.0	25.2
Skill Birth Attendant (High)	48.1	80.0