SUPPLEMENTARY MATERIAL TO: Azeez et al. S Afr J Sci. 2025;121(11/12), Art. #16658

HOW TO CITE:
Azeez A, Osuji G, Mutambayi R, Ndege J. Machine-learning forecasting model of tuberculosis cases among children in South Africa. S Afr J Sci. 2025;121(11/12), Art. #16658.
https://doi.org/10.17159/sajs.2025/16658/suppl

Supplementary table 1: Estimated Random Forest–Bayesian ARIMA model parameters

Parameter	Mean	Standard error	5%	95%	Effective sample size	Rhat
mu0	0.4122	0.0497	-5.4835	4.3084	4053.488	1.0003
sigma0	1284.3384	1.4460	1142.9292	1440.6215	3855.772	1.0002
ma	-0.7836	0.0009	-0.8677	-0.6765	3667.582	0.9999
sma	-0.0509	0.0012	-0.1800	0.0617	3892.767	0.9999
loglik	-818.1996	0.0207	-820.7800	-816.7296	4270.874	0.9998

Supplementary table 2: Estimated Bayesian ARIMA model parameters

Parameter	Mean	Standard error	5%	95%	Effective sample size	Rhat
mu0	0.0759	0.0474	-4.8443	4.7926	3578.634	1.0008
sigma0	834.5301	0.9497	742.1996	937.7669	3673.076	1.0000
ma	-0.2785	0.0021	-0.5227	-0.0900	3760.021	1.0009
sma	-0.4615	0.0035	-0.7759	-0.0875	3355.392	1.0033
loglik	-777.2768	0.0193	-779.5597	-775.6698	4264.699	1.0034