

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Summary of assembled nationally representative survey data. All household survey data used in the study were obtained from DHS program (<https://dhsprogram.com/data/>), obtained via online application and registration.

File Name: Supplementary Data 2

Description: Country level modelled estimates of probability of treatment at population level (Posterior median and the 95% Bayesian credible interval) by travel time and by facility type.

File Name: Supplementary Software 1

Description: A generalised R statistical software computer code for Bayesian three parameter estimation in IRT with implementation is conducted via MCMC (R-JAGS). Also includes code for reproducing IRT curves (Figure 3A and graphs in Supplementary Figure 1).