

## S2 Additional plots from the Results Section

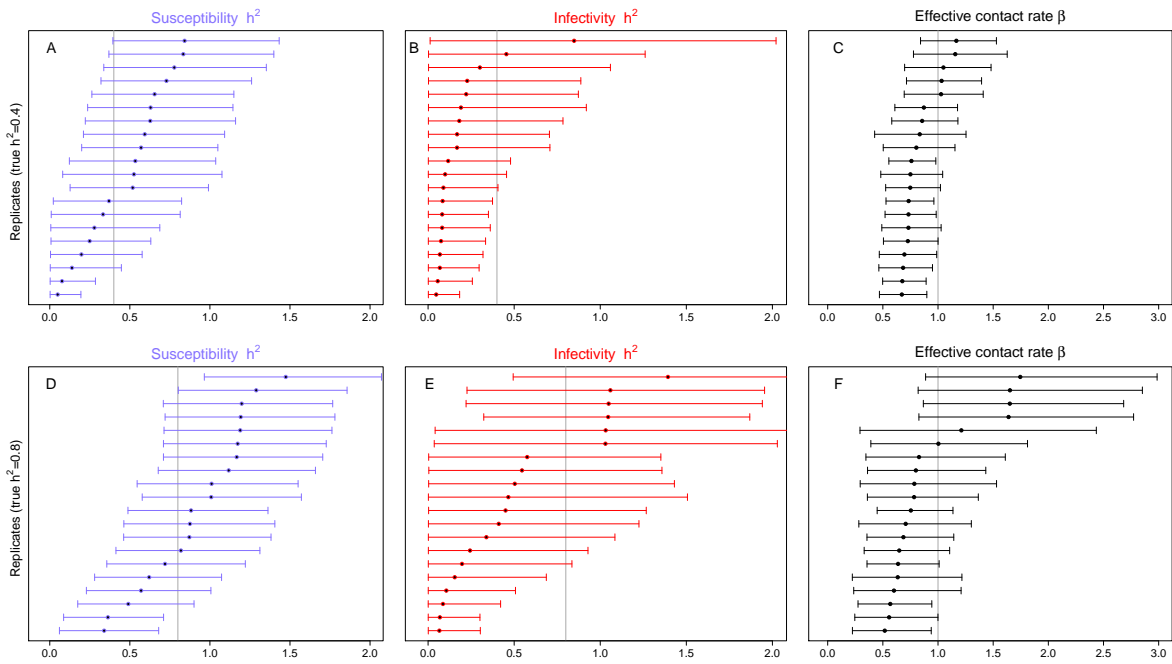


Figure S1: Bayesian credible intervals for heritabilities of susceptibility (A,D), infectivity (B,E) and also for effective contact rate  $\beta$  (C,F), obtained by fitting the dnIGE model to 20 replicates of generated datasets of sample size 500 using 10 individuals per group. Heritabilities used were 0.4 (plots A-C) and 0.8 (plots D-F). Gray lines indicate true heritabilities (A,B,D,E) and true effective contact rates (C,F). Dots represent posterior means