

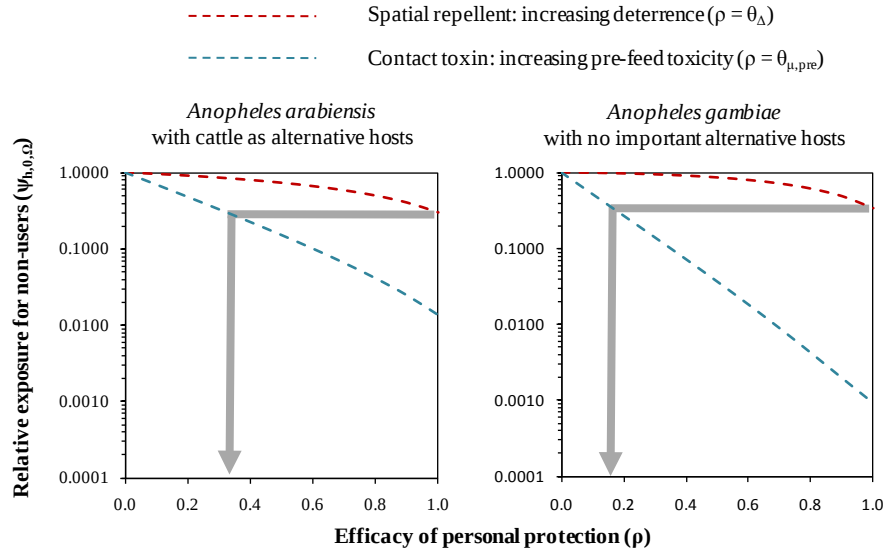


Figure S3. Progressive community-level impact upon a completely outdoor transmission system ($\pi_i = 0$) of products with increasing efficacy of personal protection (ρ_o) achieved by either repelling ($\theta_{\Delta,o}$) or killing ($\theta_{\mu,pre,o}$) attacking mosquitoes before they feed upon human users. The grey arrows represent interpolation of the efficacy thresholds at which the toxic mode of action achieves equivalent transmission control to the theoretical limit at complete protective efficacy ($\theta_{\Delta,o} = 1.0$ so $\rho_o = 1.0$) for spatial repellents at high coverage ($C_h = 0.8$). Purely community-level impact is expressed in terms of the mean relative risk of exposure experienced by non-users lacking any protective measure ($\psi_{h,0,\Omega}$).