Online Appendix

Interventions for an Artemisinin-Based Malaria Medicine Supply Chain

This appendix contains sensitivity figures for parameters that are not included in the paper.

Figure A1: Sensitivity of total supply, fill rate, and supplier surplus to changes in demand uncertainty ($\sigma_1$). Results are not reported for demand model M2 because demand uncertainty does not affect the system.

Figure A2: Sensitivity of total supply, fill rate, and supplier surplus to changes in yield uncertainty ($\sigma_2$).
Figure A2: Sensitivity of total supply, fill rate, and supplier surplus to changes in yield uncertainty ($\sigma^2$).

Figure A3: Sensitivity of total supply, fill rate, and supplier surplus to changes in supplier risk aversion ($\gamma$).

Figure A4: Sensitivity of total supply, fill rate, and supplier surplus to changes in budget ($b$). Results are not reported for demand model M1 because the budget does not affect the system.
Figure A5: Sensitivity of total supply, fill rate, and supplier surplus to changes in potential farm space ($c$).

Figure A6: Sensitivity of total supply, fill rate, and supplier surplus to changes in expected market size ($\mu_1$).
Figure A7: Sensitivity of total supply, fill rate, and supplier surplus to changes in average utility of the best alternative ($\mu_b$).

Figure A8: Sensitivity of total supply, fill rate, and supplier surplus to changes in the support-price ($p_0$).

The average total spend ranges for $\$73$m (base-case value) to $\$105$m for M1 and $\$75$m to $\$175$m for M2 as the support-price ranges from $\$240$ to $\$440$. 

48