Supplementary Material - Ranking the Effectiveness of Non-Pharmaceutical Interventions to Counter COVID-19 in UK Universities with Vaccinated Population

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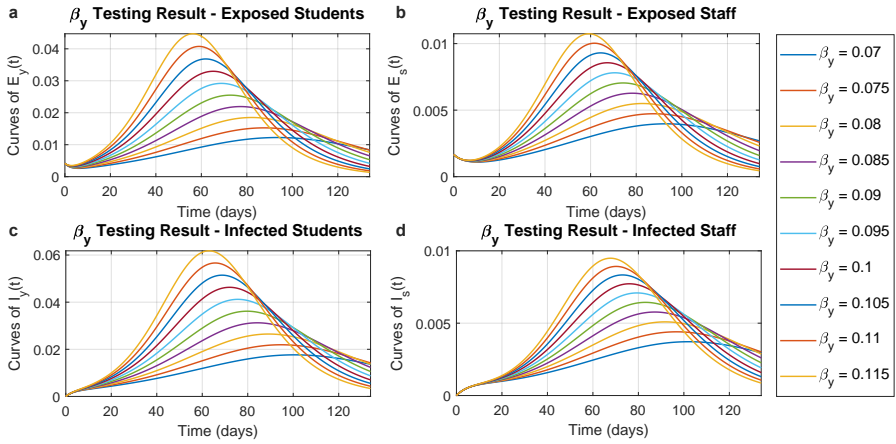
Appendix A   Sensitivity Figures

Fig. A1 Numerical testing of student-to-student infection rate β_y. Trajectories of cases among students and staffs when β_y varying from 0.07 to 0.115. With different β_y, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
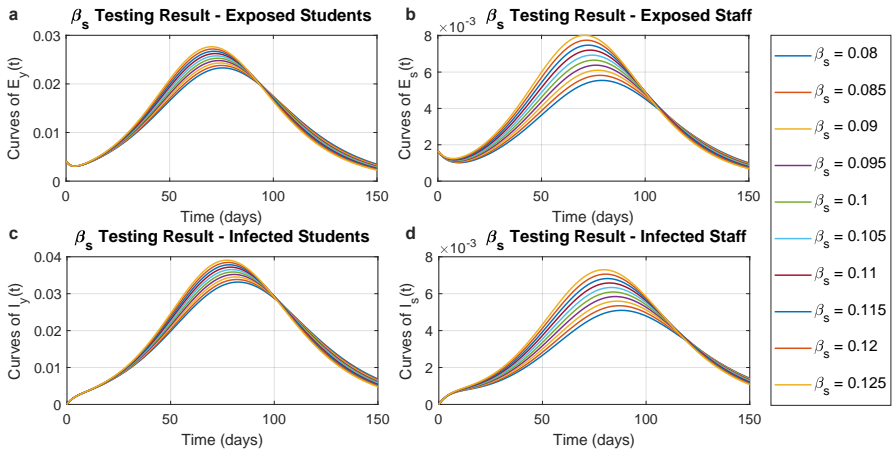

Fig. A2 Numerical testing of student-to-student infection rate β_s. Trajectories of cases among students and staffs when β_s varying from 0.08 to 0.125. With different β_s, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
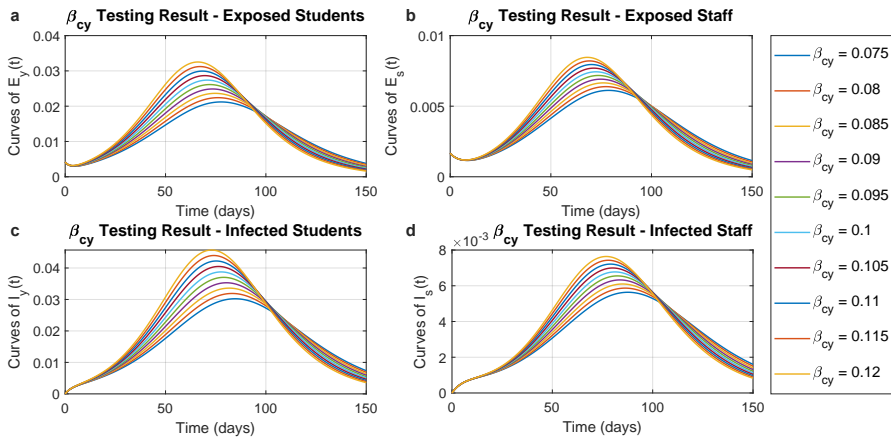
Fig. A3 Numerical testing of student-to-student infection rate β_{cy}. Trajectories of cases among students and staffs when β_{cy} varying from 0.075 to 0.12. With different β_{cy}, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
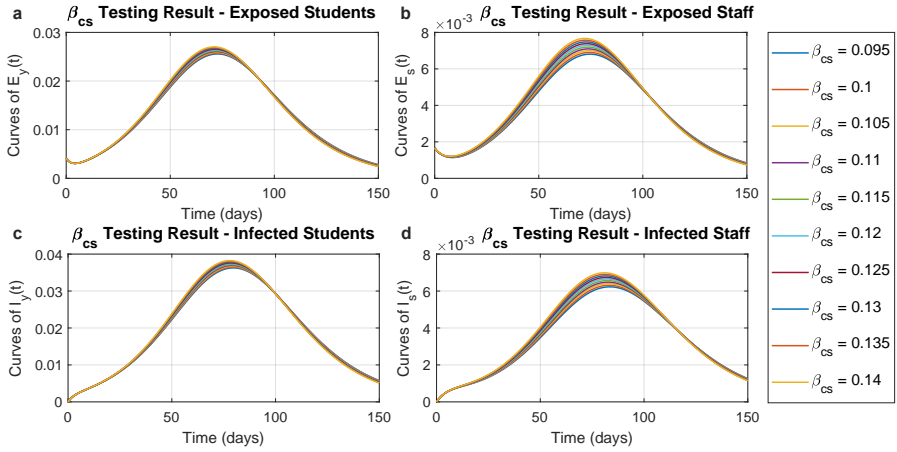
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Fig. A4 Numerical testing of student-to-student infection rate β_{cs}. Trajectories of cases among students and staffs when β_{cs} varying from 0.095 to 0.14. With different β_{cs}, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
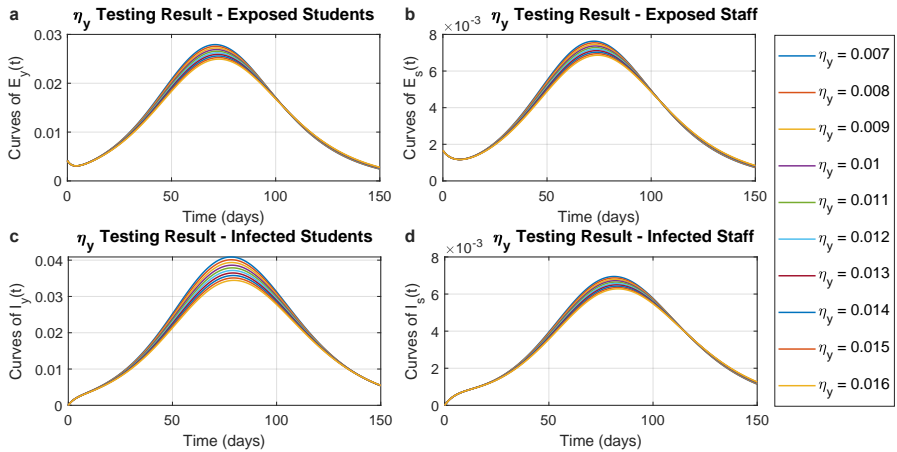

Fig. A5 Numerical testing of student-to-student infection rate η_y. Trajectories of cases among students and staffs when η_y varying from 0.007 to 0.016. With different η_y, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
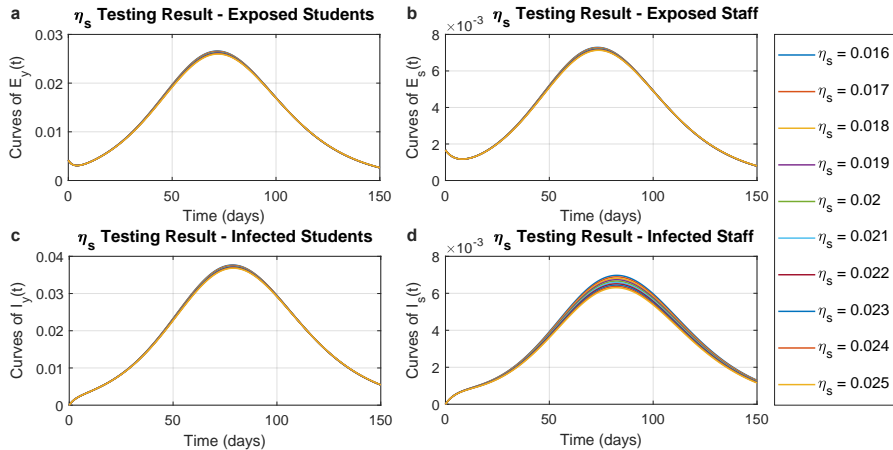
Fig. A6 Numerical testing of student-to-student infection rate η_s. Trajectories of cases among students and staffs when η_s varying from 0.016 to 0.025. With different η_s, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
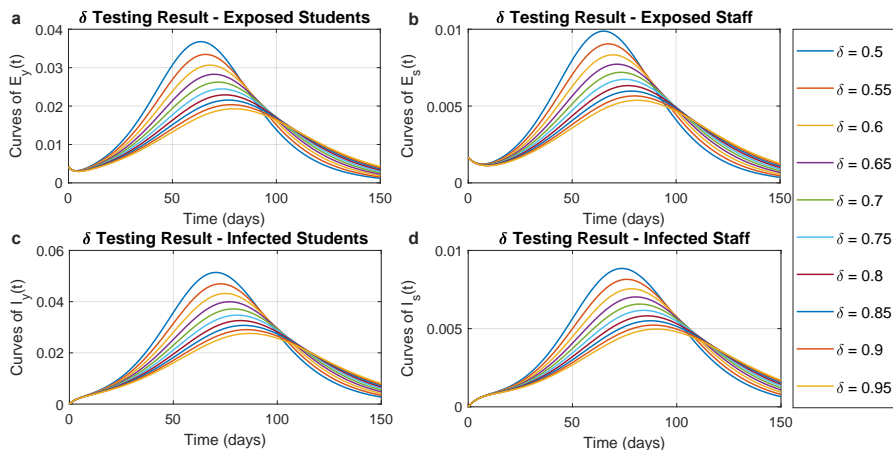

Fig. A7 Numerical testing of student-to-student infection rate δ. Trajectories of cases among students and staffs when δ varying from 0.5 to 0.95. With different δ, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.
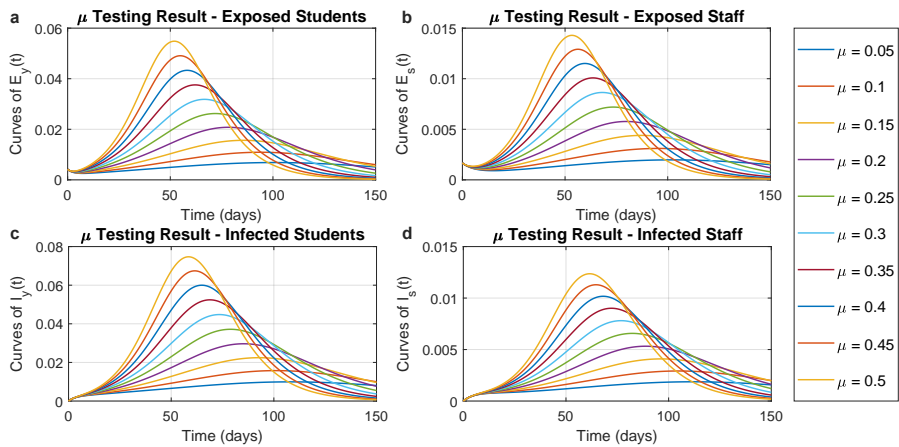
Fig. A8 Numerical testing of student-to-student infection rate μ. Trajectories of cases among students and staffs when μ varying from 0.05 to 0.5. With different μ, panels **a** and **b** show the proportion trajectories of exposed students and staffs respectively while panels **c** and **d** depict the proportion trajectories of infected students and staffs respectively.