Table Of Scenarios For Modeling Effectiveness Of Masks In COVID-19 - Canada

Overall Goal Of Simulations - What interventions and at what thresholds in a school setting will greatly contribute or limit downstream metrics in the overall population and at what combinations.   
  
Observations: To examine what needs to happen in school settings (mask effectiveness, cohorting & physical distancing) as well as what thresholds of compliances these intervention strategies we should consider in order to effectively analyze the result of Rt / new infections, severer cases and deaths. What threshold will contribute to these metrics and what metrics indicate closures.

**Simulation\_1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scenario | Create Current Pandemic To Analyze Effectiveness Of Masks VS Non Masks | Apply strategy from scenario 1 with the compliance of masks at 30% in community setting | Apply strategy from scenario 1 with the compliance of masks at 60% in community setting | Apply strategy from scenario 1 with the compliance of masks at 90% in community setting |
| Scenario\_1 | X |  |  |  |
| Scenario\_2 |  | X |  |  |
| Scenario\_3 |  |  | X |  |
| Scenario\_4 |  |  |  | X |

Question’s To Look At: How does this affect Rt, new infections, ICU (sever cases), Deaths   
Addition: Run the simulation with 68% contact tracing with no scale up in testing   
Addition: Run the simulation without 68% contact tracing with no scale up in testing

**Simulation\_2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scenario | Baseline of compliance of masks at 90% in community setting | Apply strategy from scenario 1 with the compliance of masks at 30% in school setting | Apply strategy from scenario 1 with the compliance of masks at 60% in school setting | Apply strategy from scenario 1 with the compliance of masks at 90% in school setting |
| Scenario\_1 | X |  |  |  |
| Scenario\_2 |  | X |  |  |
| Scenario\_3 |  |  | X |  |
| Scenario\_4 |  |  |  | X |

Question’s To Look At: How does this affect Rt, new infections, ICU (sever cases), Deaths  
Addition: Run the simulation with 68% contact tracing with no scale up in testing   
Addition: Run the simulation without 68% contact tracing with no scale up in testing

**Simulation\_3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scenario | Create Current Pandemic To Analyze Effectiveness Of Masks VS Non Masks | Apply strategy from scenario 1 addition of cohorting in schools at 30% | Apply strategy from scenario 1 addition of cohorting in schools at 60% | Apply strategy from scenario 1 addition of cohorting in schools at 90% |
| Scenario\_1 | X |  |  |  |
| Scenario\_2 |  | X |  |  |
| Scenario\_3 |  |  | X |  |
| Scenario\_4 |  |  |  | X |

Question’s To Look At: How does this affect Rt, new infections, ICU (sever cases), Deaths  
Addition: Run the simulation with 68% contact tracing with no scale up in testing   
Addition: Run the simulation without 68% contact tracing with no scale up in testing

**Simulation\_4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scenario | Create Current Pandemic To Analyze Effectiveness Of Masks VS Non Masks | Apply strategy from scenario 1 addition of physical distancing in community and school setting to 30% compliance | Apply strategy from scenario 1 addition of physical distancing in community and school setting to 60% compliance | Apply strategy from scenario 1 addition of physical distancing in community and school setting to 90% compliance |
| Scenario\_1 | X |  |  |  |
| Scenario\_2 |  | X |  |  |
| Scenario\_3 |  |  | X |  |
| Scenario\_4 |  |  |  | X |

Question’s To Look At: How does this affect Rt, new infections, ICU (sever cases), Deaths  
Addition: Run the simulation with 68% contact tracing with no scale up in testing   
Addition: Run the simulation without 68% contact tracing with no scale up in testing