# COVID-19**NOVEL CORONAVIRUS COVID Modelling Update** June 11, 2021





### Daily number of lab tests performed

Information from July 12, 2020 to September 30, 2021. Manitoba data extracted: 2021-06-08.





#### Projected Number of Diagnosed Cases at Different Levels of Public Health Measures and Public Behaviour Information from July 12, 2020 to September 30, 2021. Manitoba data extracted: 2021-06-08.





### Incident Number of Hospitalizations (daily number of admissions to clinical beds)

Information from July 12, 2020 to September 30, 2021. Manitoba data extracted: 2021-06-08.





### **Prevalent Number of ICU Admissions (ICU occupancy)**

Information from July 12, 2020 to September 30, 2021. Manitoba data extracted: 2021-06-08.





### **Notes on Modelling**

#### Variants of Concern

- The model has been updated to account for the B.1.1.7 variant of the SARS-CoV-2 virus.
- The P.1 (gamma) and B.1.617.2 (delta) variants will be added to the model.

#### Immunizations

- The model has been updated to account for immunizations (Pfizer, Moderna and AstraZeneca).
- The model assumes that immunizations provide three different levels of protection:
  - protection against acquiring the disease
  - protection against presenting severe disease that results in hospitalization
  - protection against death
- The model uses immunization data from the province when available.



### Notes on Modelling (cont.)

- The model is constantly updated and revised as more data becomes available, and new evidence comes to light.
- Changes in public behaviour and public health measures will change the epidemic's course and trigger the model to be revised.
- Projections start November 12, 2020 and go until September 30, 2021.