

**COVID-19**

**NOVEL CORONAVIRUS**

*Protecting Manitobans:*

*December Update*

**Manitoba**



COVID-19 NOVEL CORONAVIRUS

Manitoba 

CURRENT STATE



# COVID-19 NOVEL CORONAVIRUS



## COVID's impact in Manitoba

**17,107**

Total Positive Cases

**357,707**

Total Tested

**1,094**

Total Hospitalized

**204**

Total ICU Stays

**333**

Total Deaths

## How COVID-19 Affects Us



48 Cases

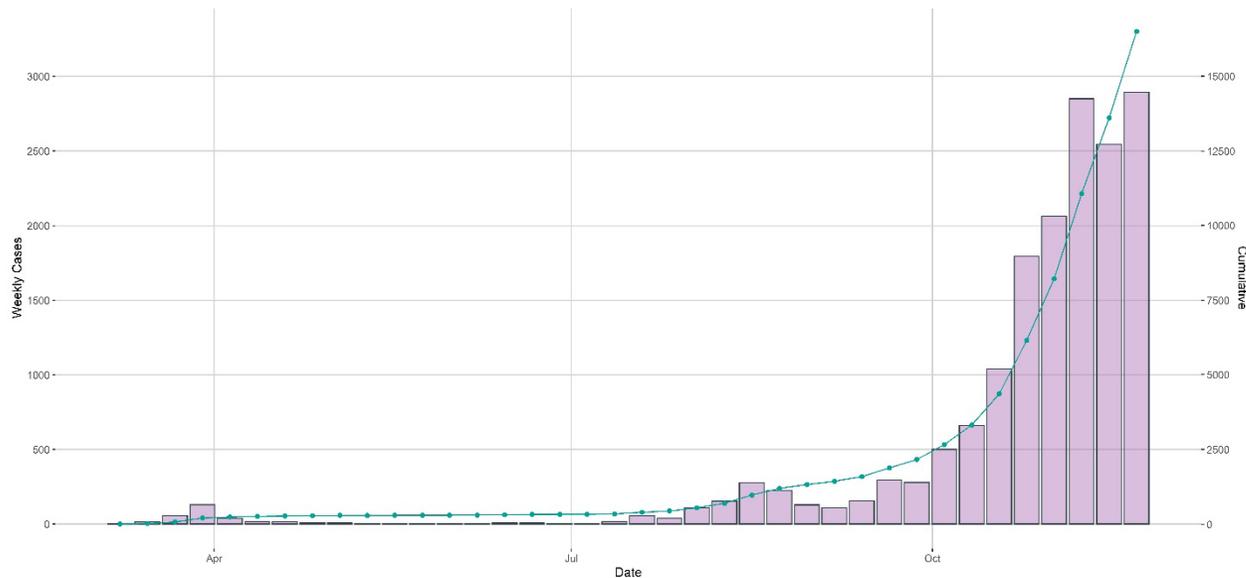


3 Hospitalizations

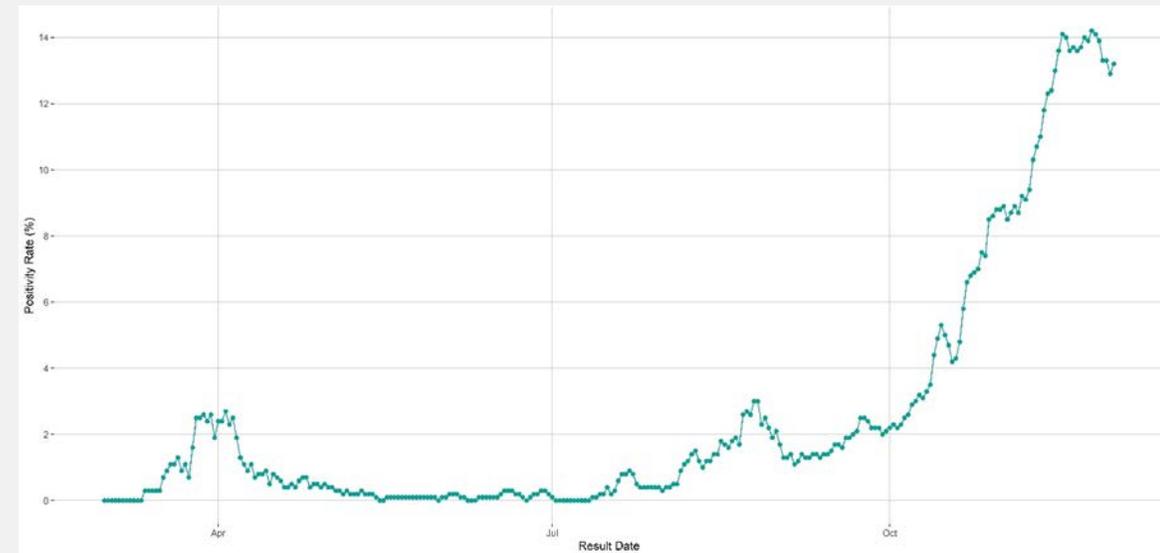


1 Death

## An unsustainable curve

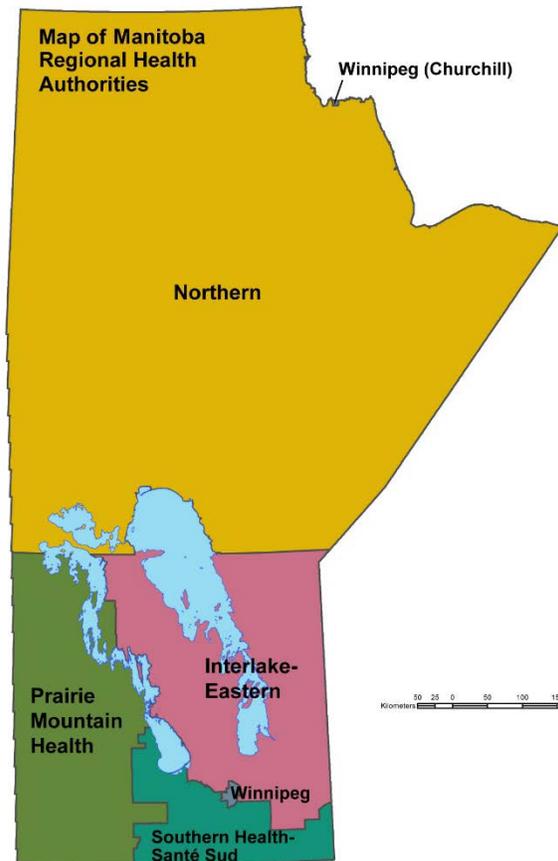


Weekly COVID Cases

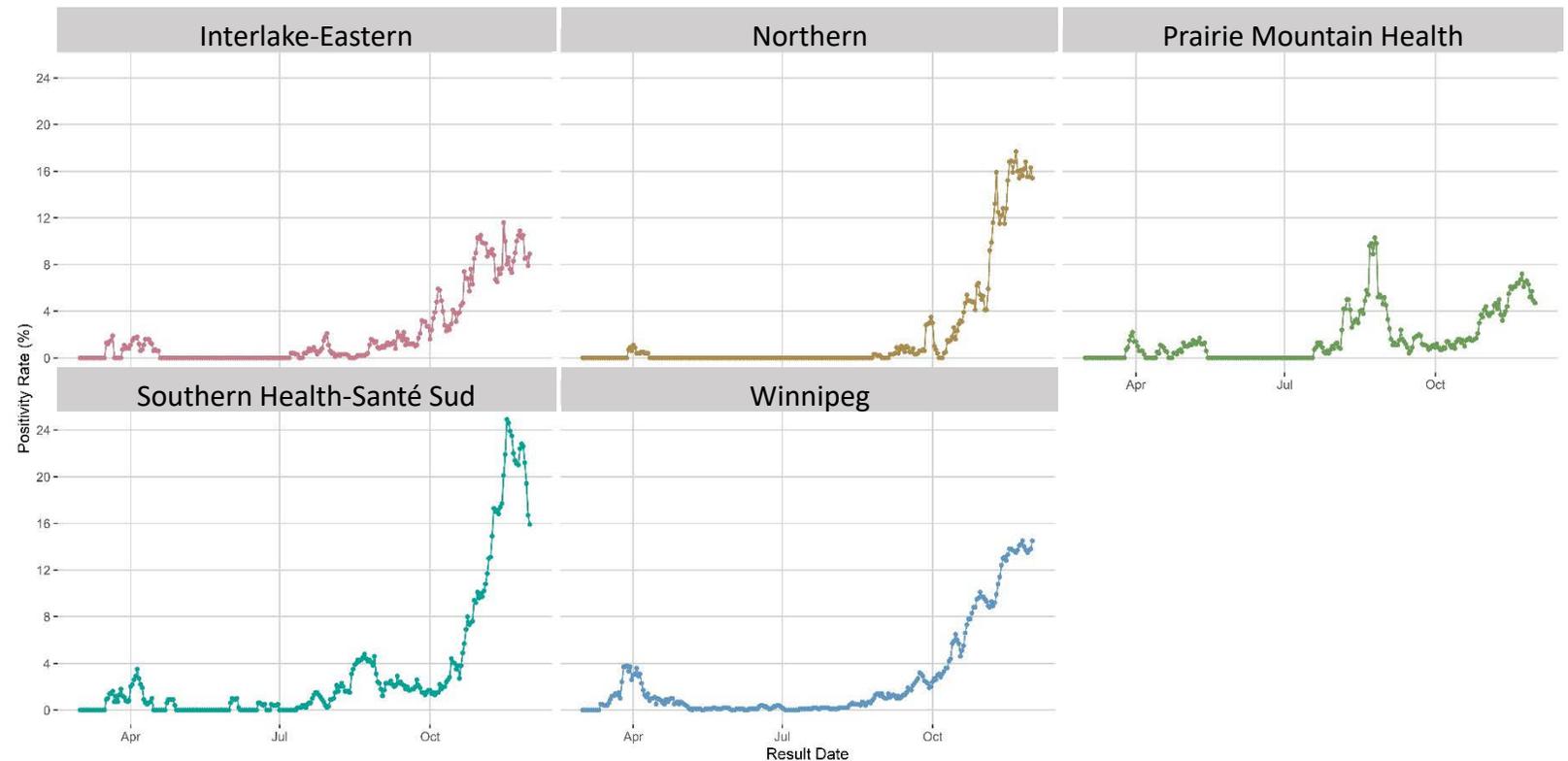


Overall Provincial Positivity Rate

## COVID trending too high in all regions



### Positivity Rates by Regional Health Authority



## A tragic impact on Manitobans of every age

COVID Related Manitoba Deaths by Age



Deaths by age group			
0-9	<b>1</b>	50-59	<b>15</b>
10-19	<b>0</b>	60-69	<b>34</b>
20-29	<b>0</b>	70-79	<b>69</b>
30-39	<b>3</b>	80-89	<b>122</b>
40-49	<b>8</b>	90+	<b>81</b>

Information includes deaths up to November 30, 2020

## A significant spike in deaths last month

COVID Related Manitoba Deaths by Month



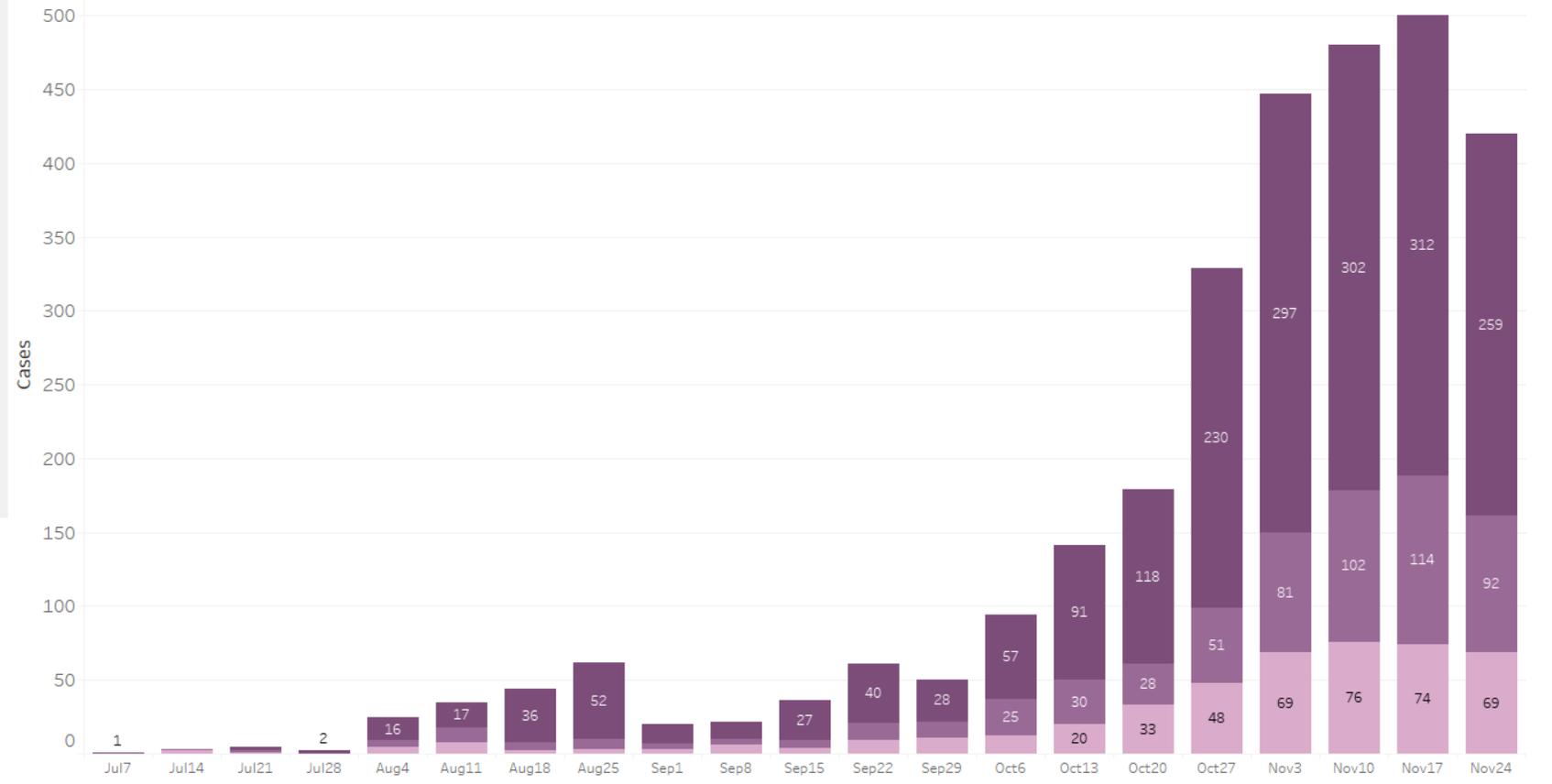
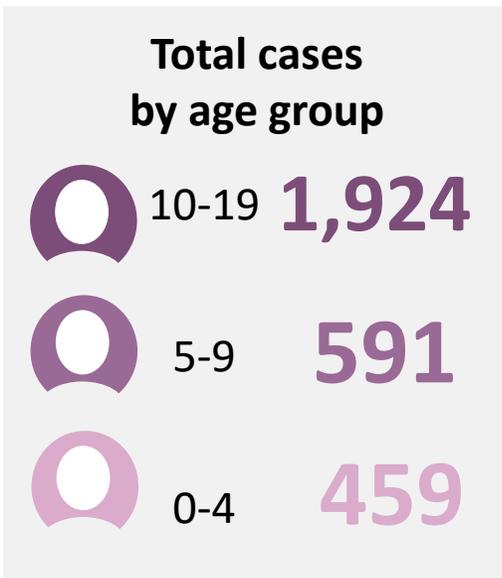
Information includes deaths up to November 30, 2020

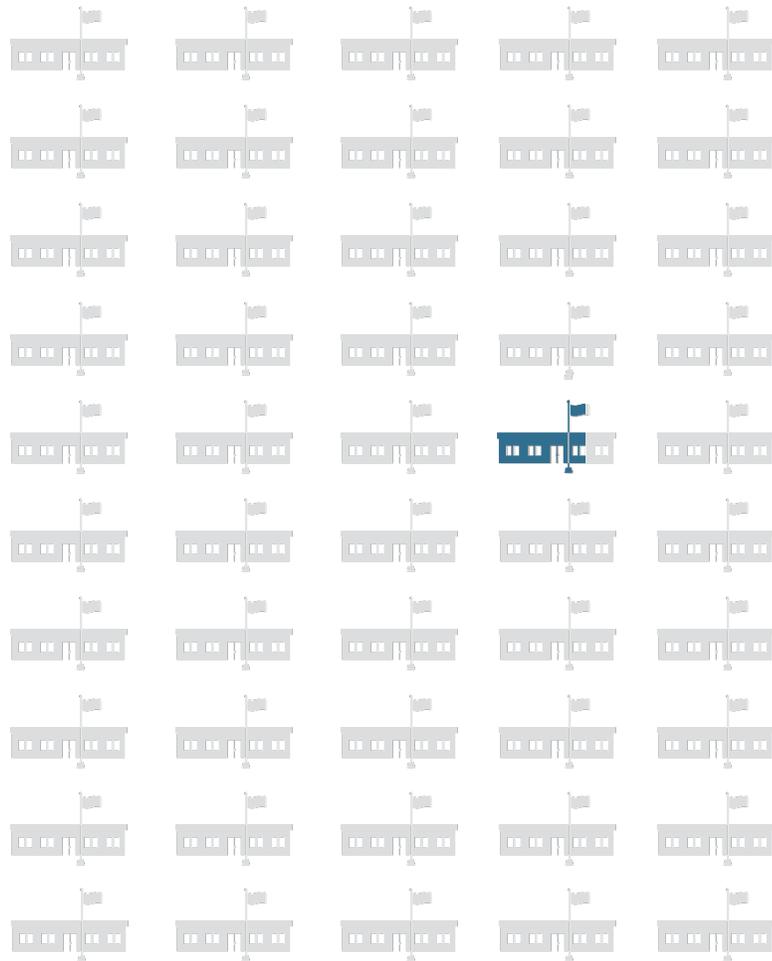
## Cases Broken Down by Age Group



0-5	456	30-39	2,703	70-79	906
5-9	591	40-49	2,362	80-89	693
10-19	1,924	50-59	2,296	90+	433
20-29	3,240	60-69	1,503		

## New COVID Cases in Children (Age 0-19)





## No evidence of significant in-school transmission

# 6

**Schools with Evidence of In-School Transmission**

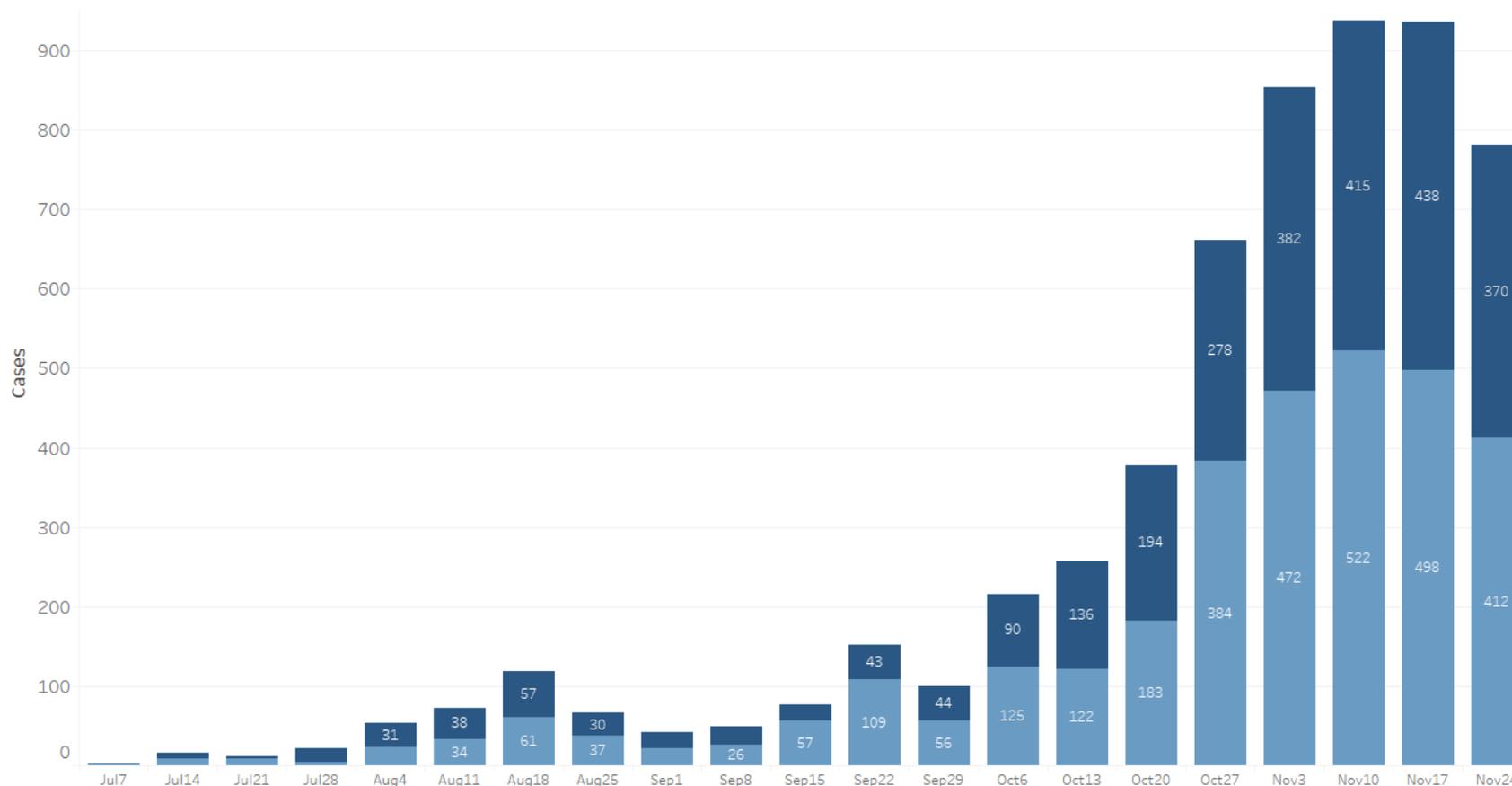
# 802

**Total public and independent schools**

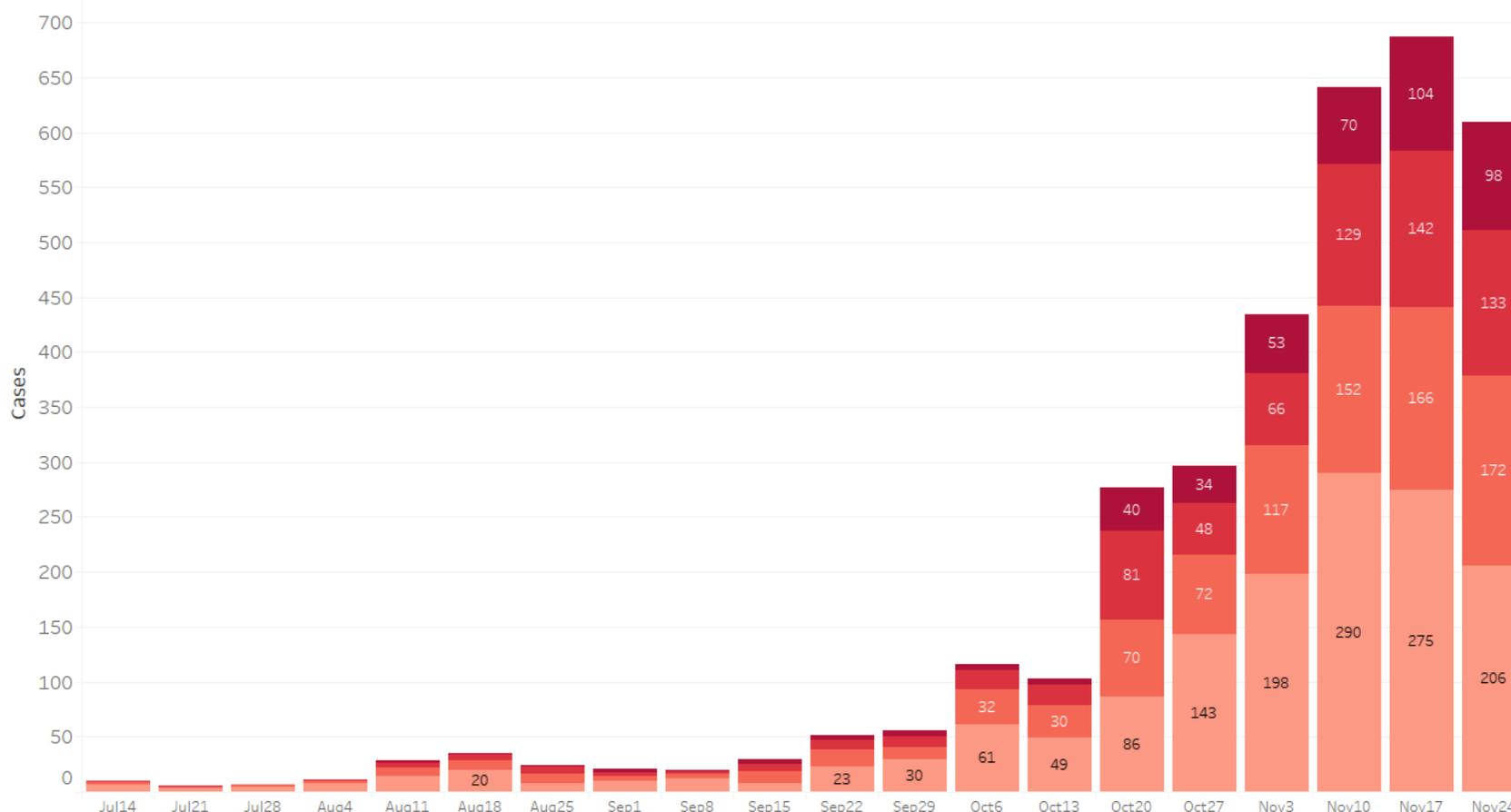
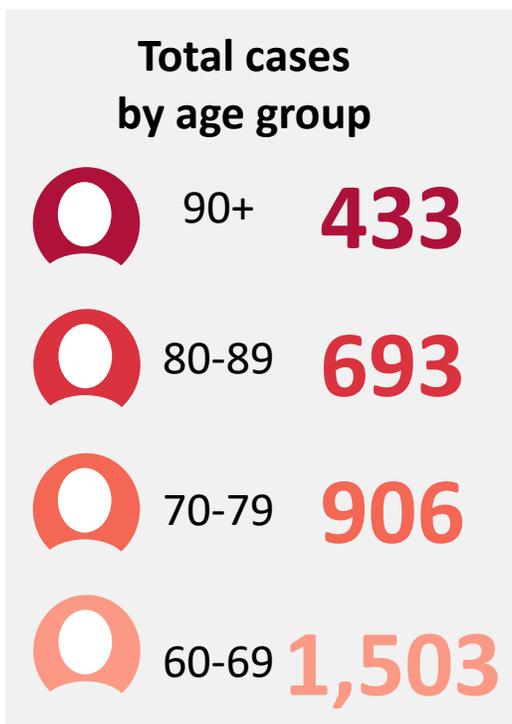
## New COVID Cases in Young Adults (Age 20-39)

**Total cases by age group**

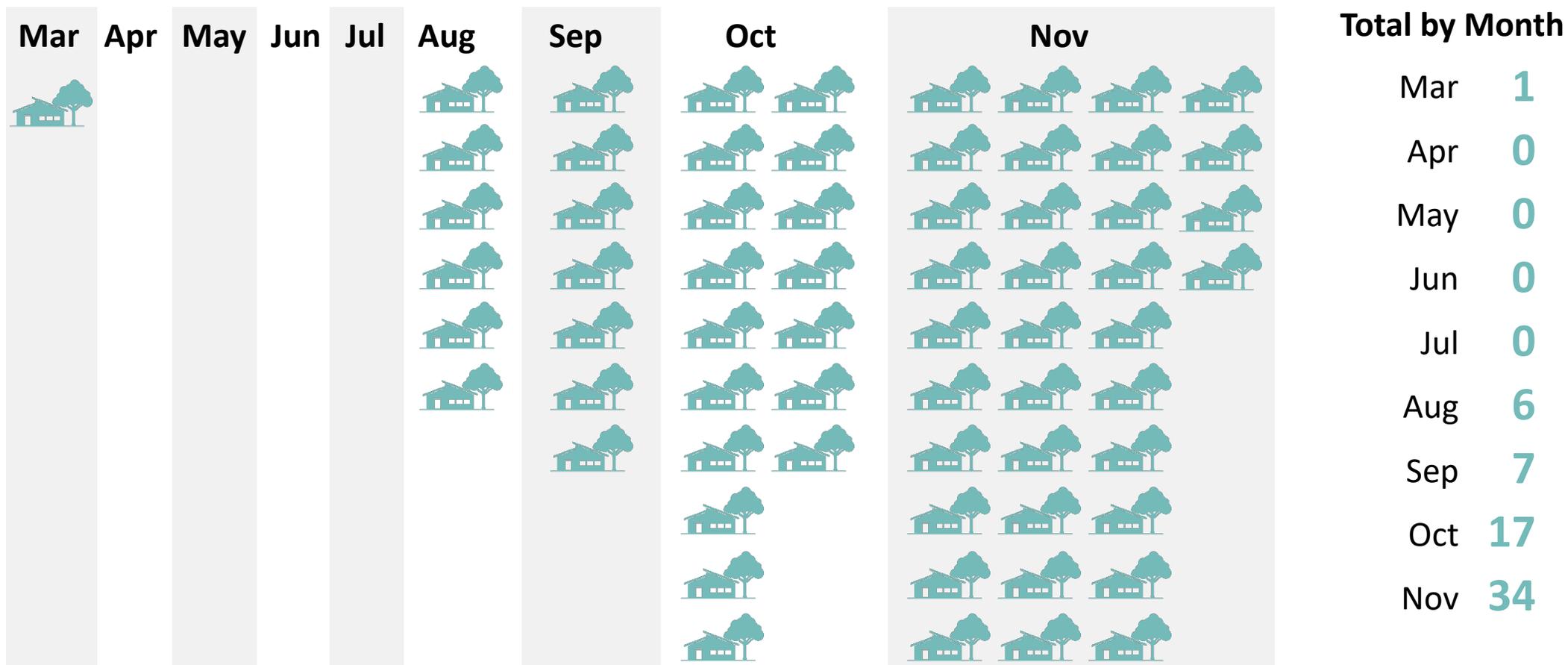
- 30-39 **2,703**
- 20-29 **3,240**



## New COVID Cases in Seniors (60+)



## Outbreaks in Personal Care Homes and Long Term Care



Information includes deaths up to November 30, 2020

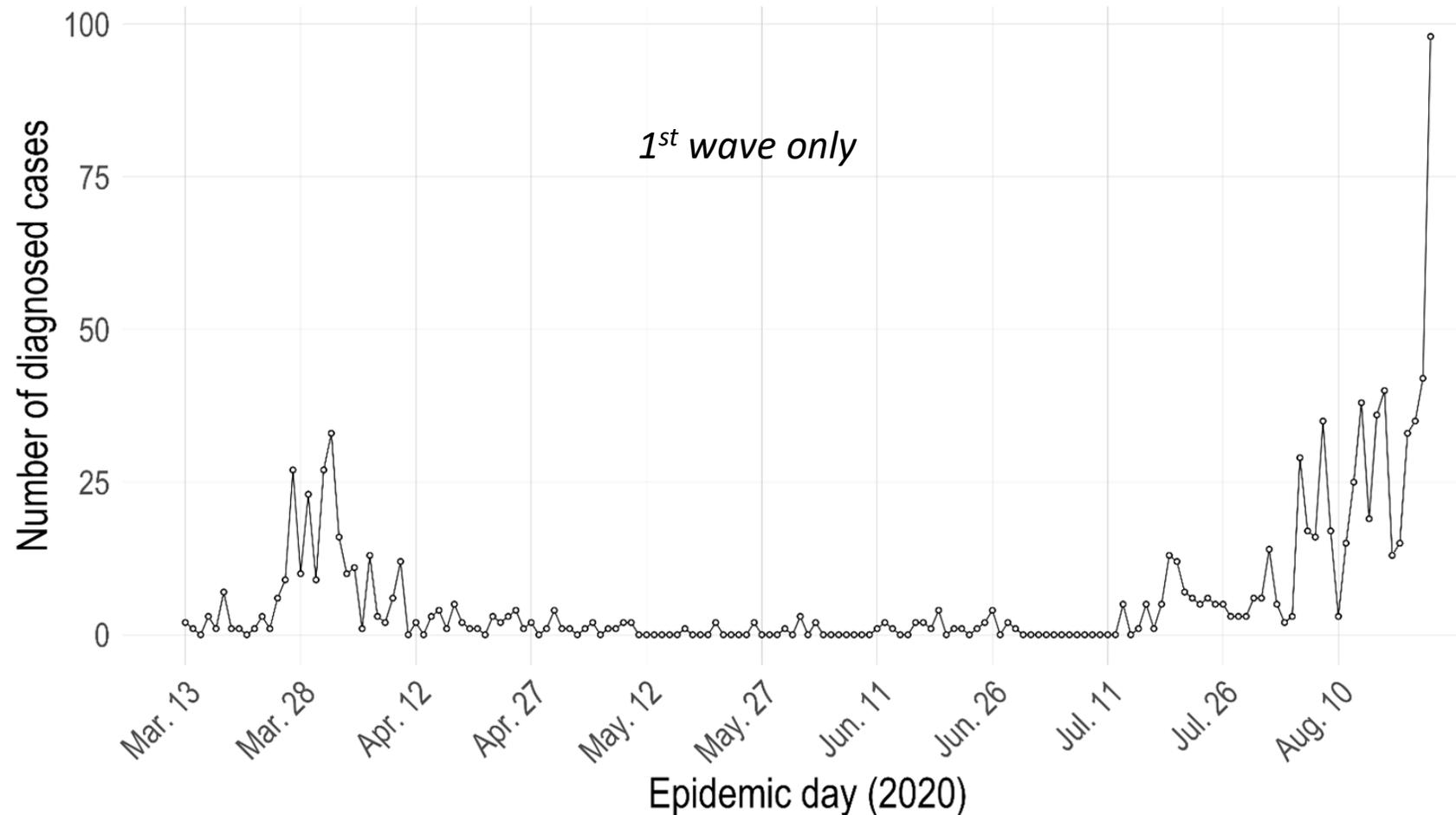
COVID-19 NOVEL CORONAVIRUS

Manitoba 



COVID-19  
MODELLING

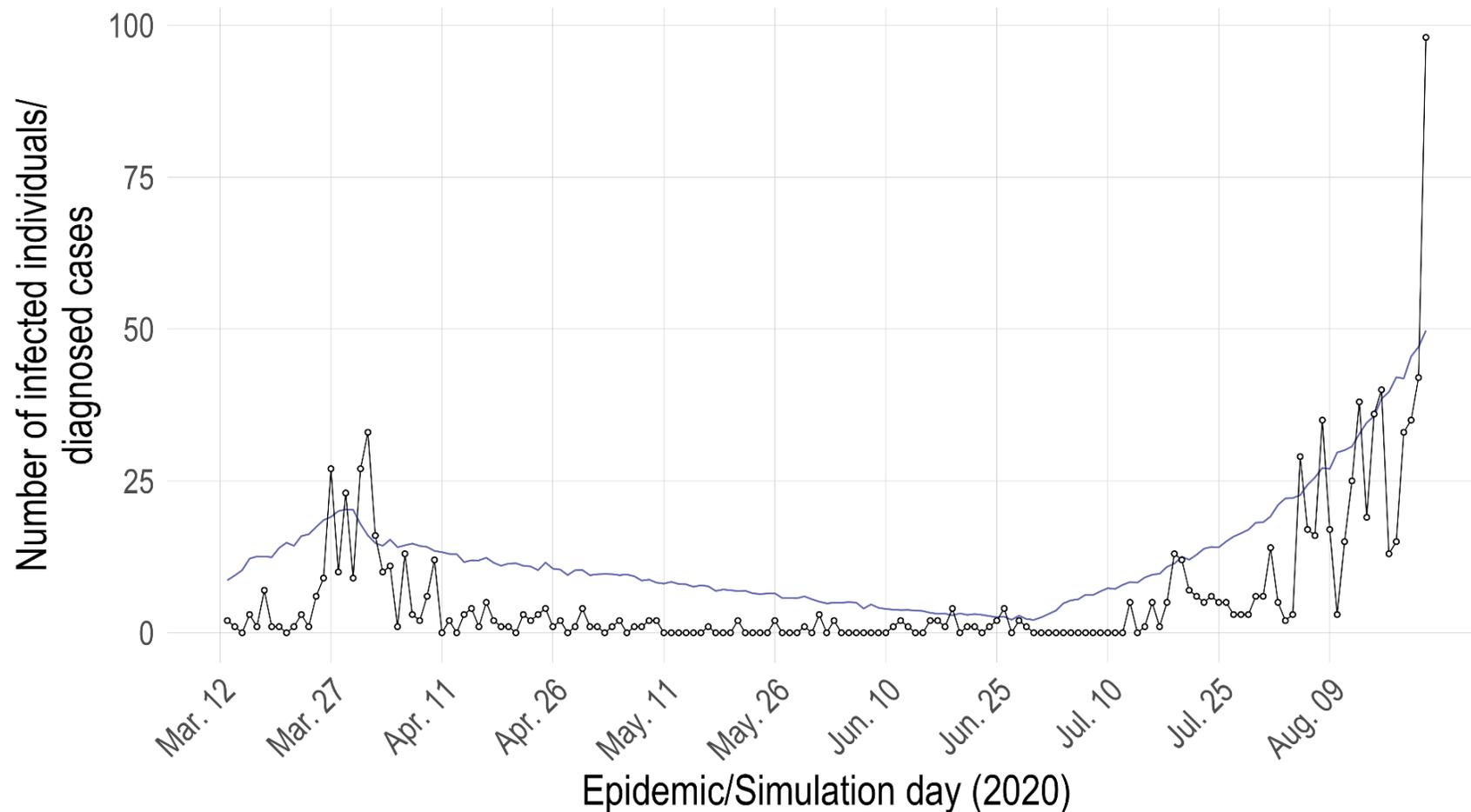
## Manitoba's model begins with real Manitoba data



### Manitoba Number of Cases

Information from March 13 to November 28, 2020.  
Manitoba data extracted: 2020-12-03.

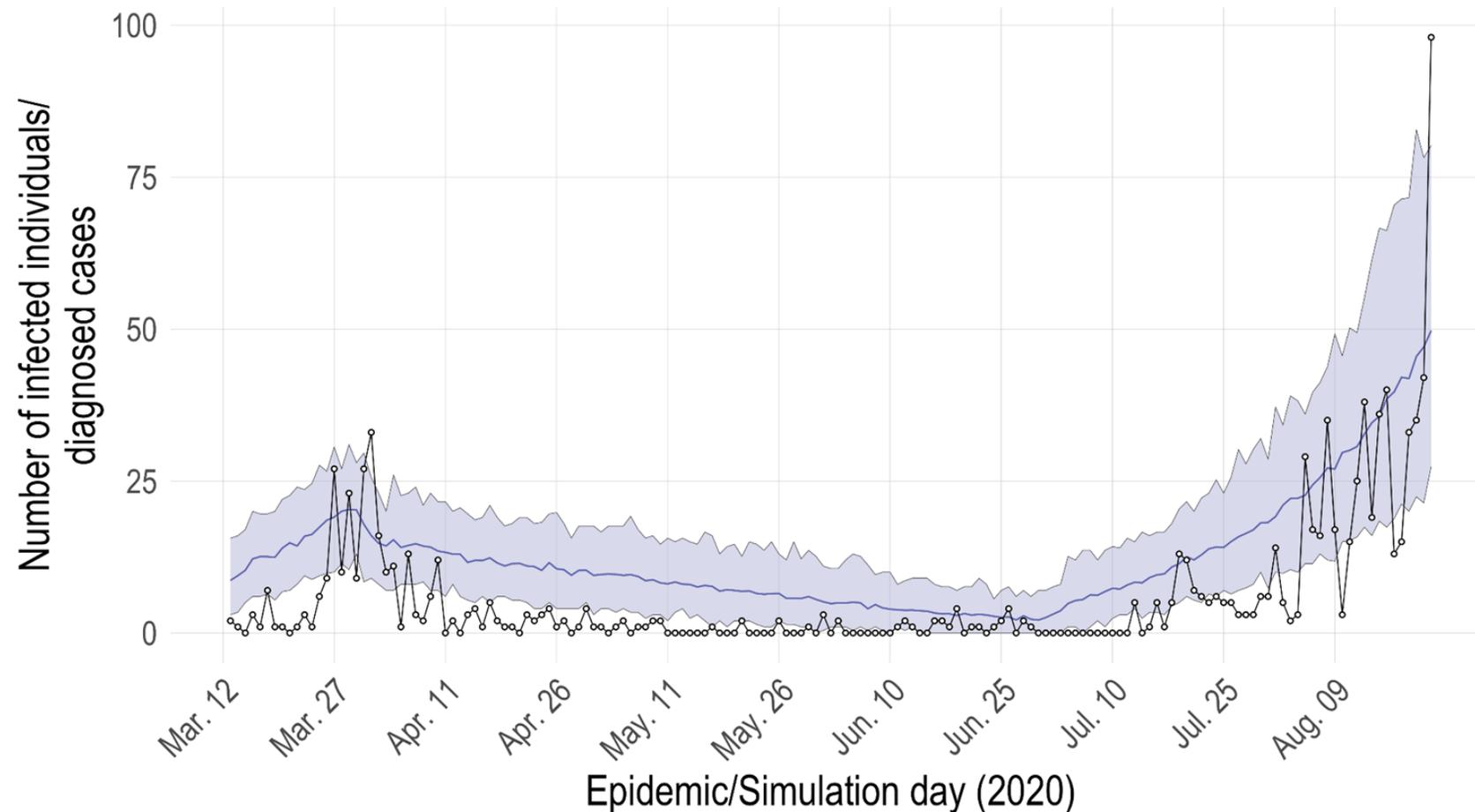
## Model then projects total cases



**Baseline –  
The First Wave  
(Projected Cases -  
average)**

Information from March 13  
to November 28, 2020.  
Manitoba data extracted:  
2020-12-03.

## Projected cases are extended to a possible range for the model



**Baseline –  
The First Wave  
(Projected Range  
of cases)**

Information from March 13  
to November 28, 2020.  
Manitoba data extracted:  
2020-12-03.

## Simulation Scenarios and Projections



### **Scenario 1 - Extreme**

Minimal restrictions and poor compliance lead to a rapid rise in cases.

### **Scenario 2 - Severe**

Some restrictions and poor compliance lead to increased cases.

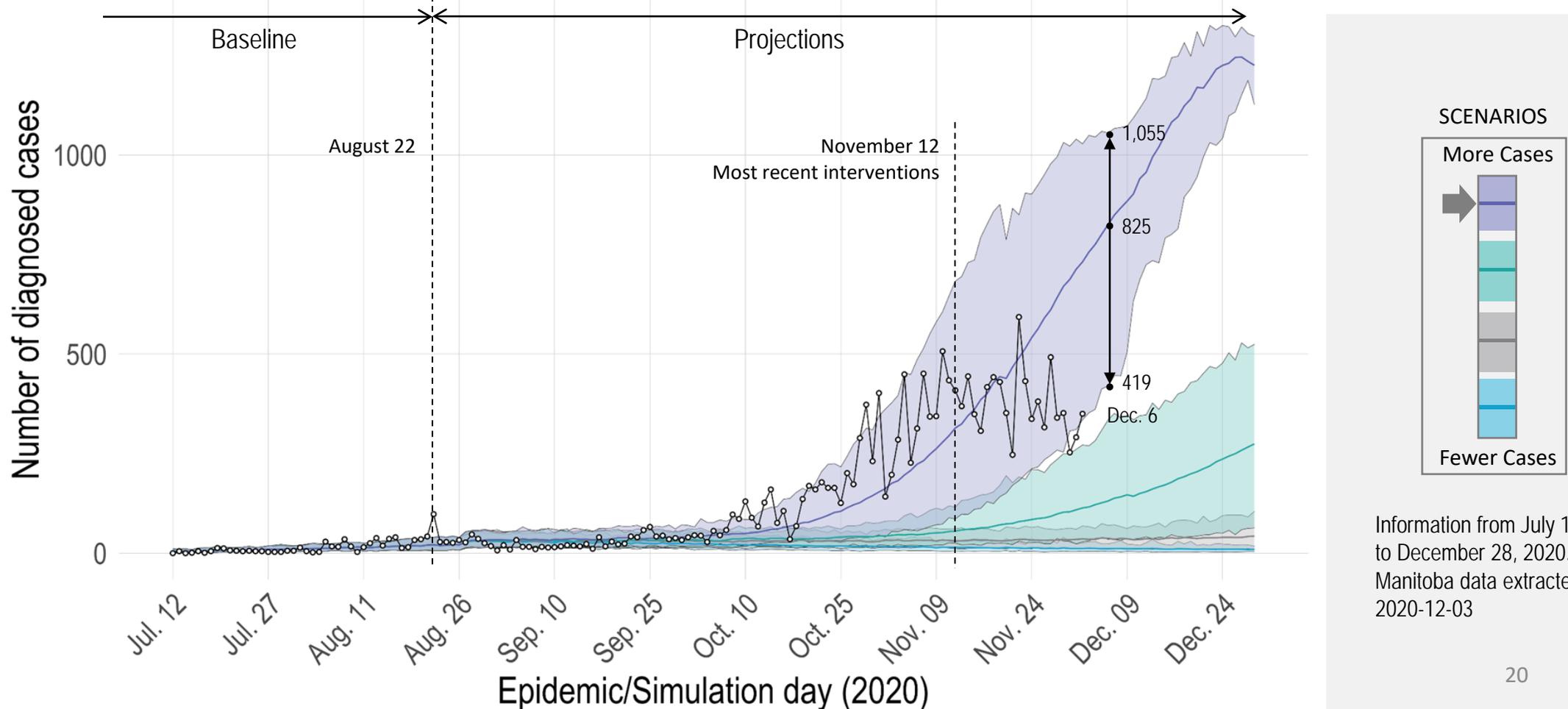
### **Scenario 3 - Moderate**

More restrictions and good compliance lead to manageable case numbers.

### **Scenario 4 - Controlled**

Full restrictions and good compliance (lockdowns) lead to reduced cases.

## Projected Number of Diagnosed Cases in Different Scenarios (daily number of new cases)



## COVID-19 and the Health-Care System



Admissions



Occupancy



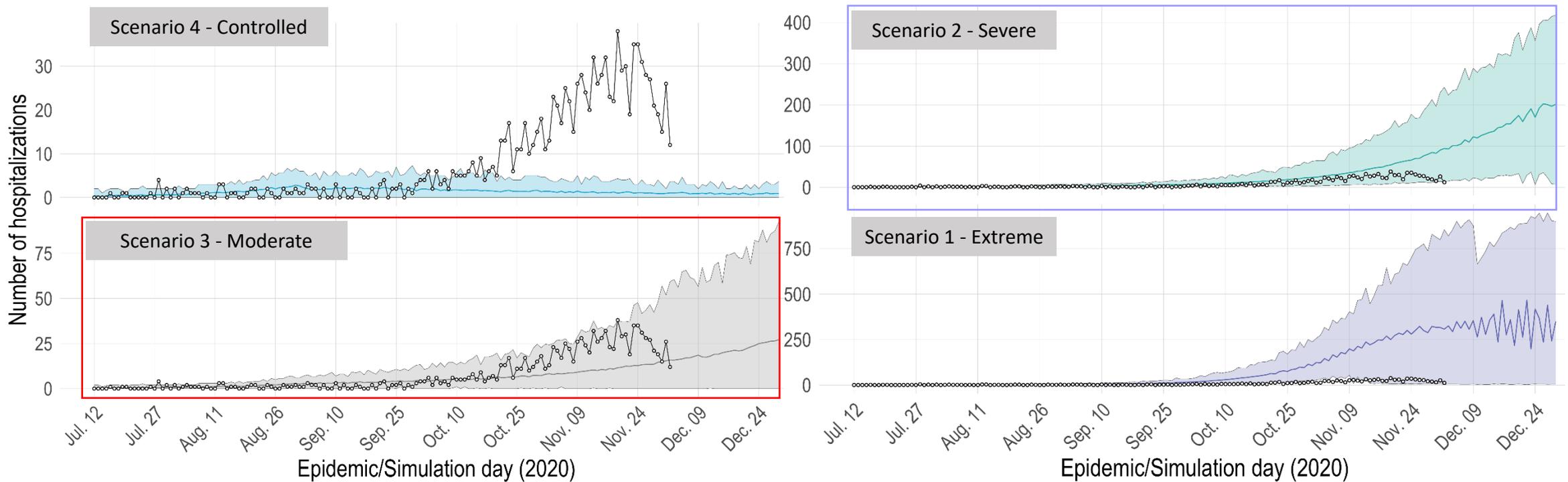
Clinical Beds



ICU

## Hospital admissions tracking against Scenario 3 (moderate)

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



Information from March 13 to December 31, 2020.  
Manitoba data extracted: 2020-12-03.

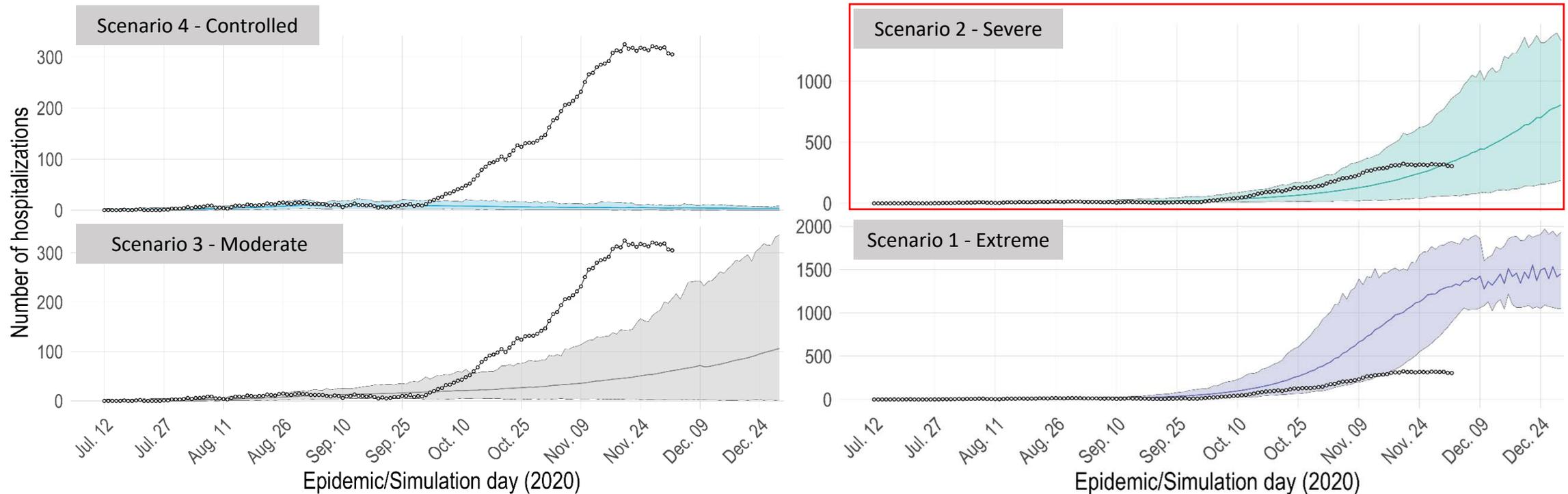
**Manitoba:** actual data

**Projected:** average number of cases

Range of possible number of cases

## Hospital occupancy tracking against Scenario 2 (severe)

Prevalent Number of Hospitalizations (clinical bed occupancy)



Information from March 13 to December 31, 2020.  
Manitoba data extracted: 2020-12-03.

Manitoba:  actual data

Projected: average number of cases 

 Range of possible number of cases

We have expanded hospital capacity to address this demand

March 2020



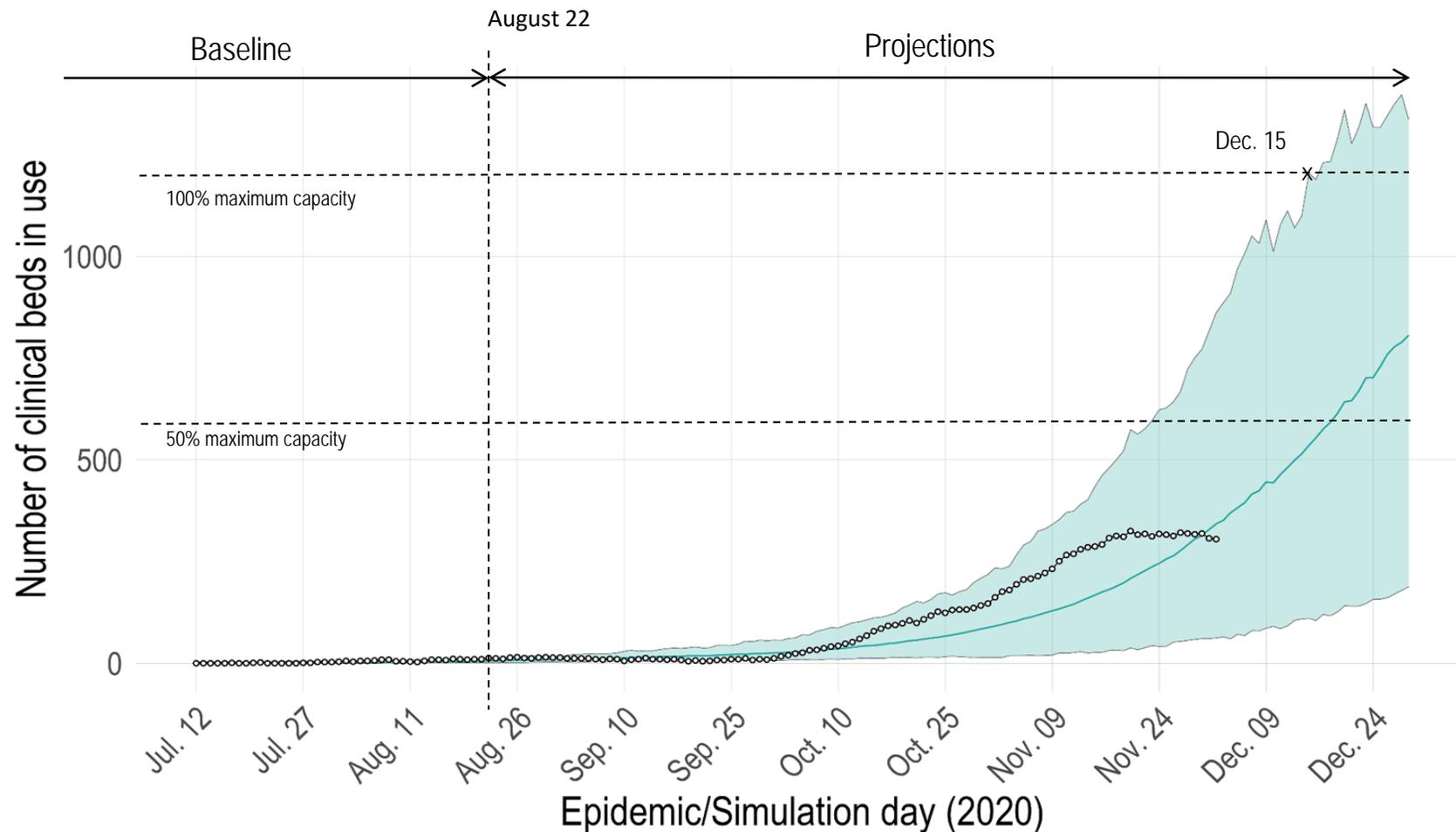
November 2020



Maximum Capacity

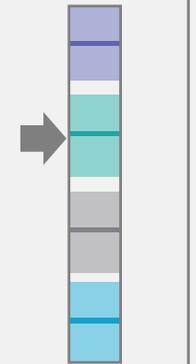
**126%**  
Of Baseline

## Projections of Clinical Bed Use for COVID-19 Alone



### SCENARIOS

More Cases

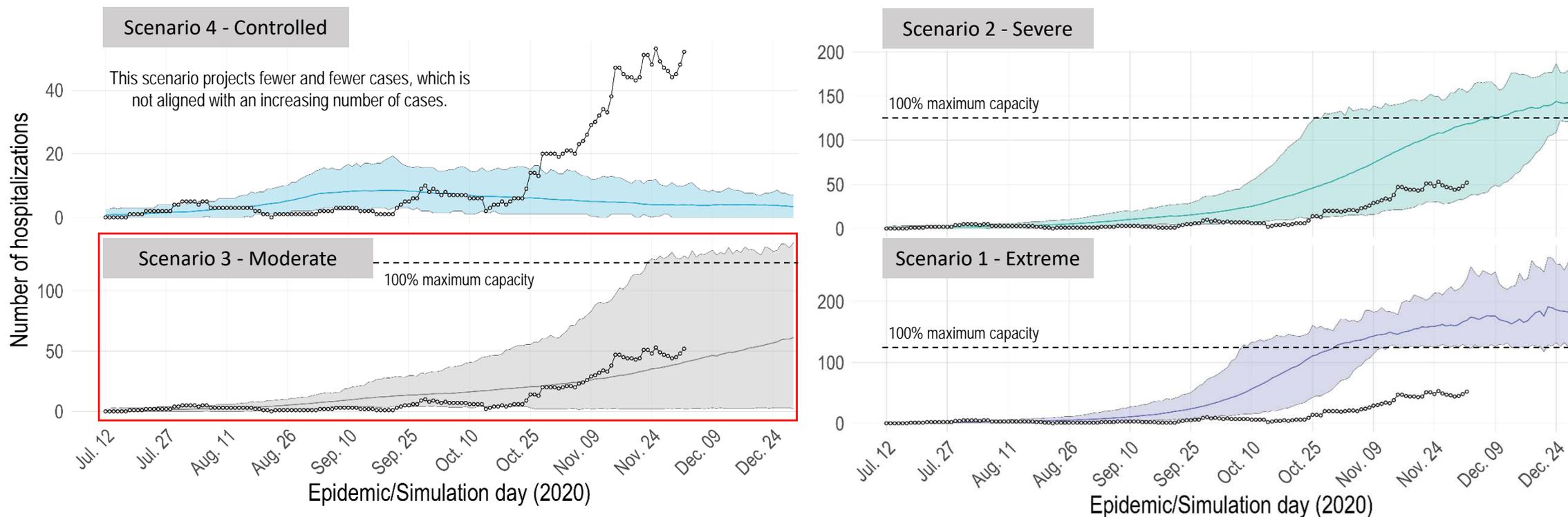


Fewer Cases

Information from July 12 to December 29, 2020.  
Manitoba data extracted: 2020-12-03.

## ICU admissions tracking against Scenario 3 (moderate)

Prevalent Number of ICU Admissions (ICU occupancy)



Information from March 13 to December 31, 2020.  
 Manitoba data extracted: 2020-12-03.

**Manitoba:** actual data

**Projected:** average number of cases



**Range of possible number of cases**

We have expanded ICU capacity to address this demand

March 2020



72

Adult Intensive Care Hospital Beds

November 2020



173

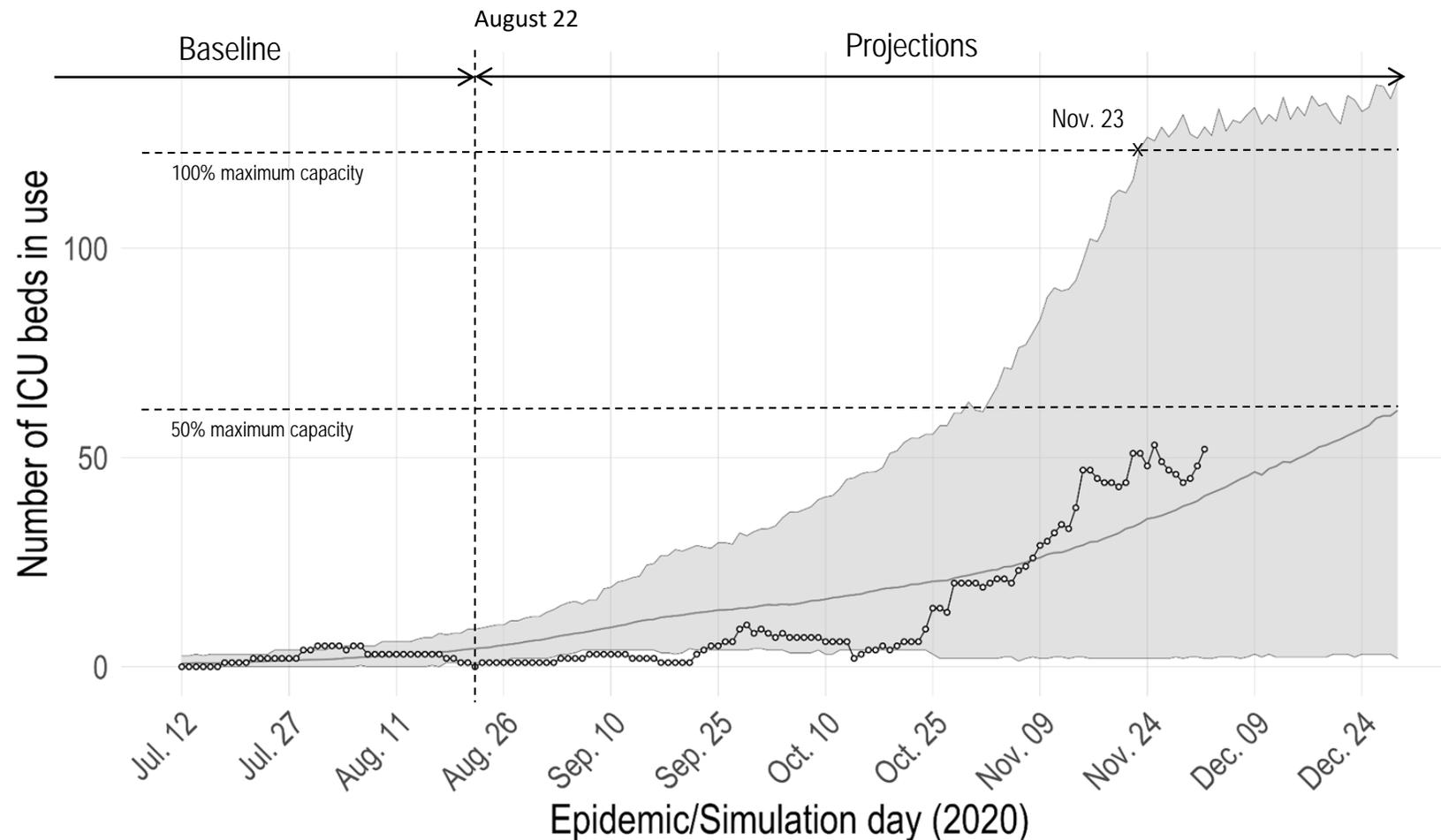
Adult Intensive Care Hospital Beds

Maximum Capacity

240%

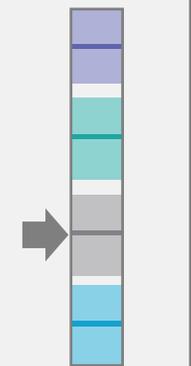
Of Baseline

## Projections of ICU Occupancy for COVID-19 Alone



### SCENARIOS

More Cases



Fewer Cases

Information from July 12 to December 29, 2020.  
Manitoba data extracted:  
2020-12-03.

## Manitoba has taken strong action



- Implemented New Public Health Restrictions
- Increased Health System Capacity
- Introduced New Programs to Support Manitobans

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Manitoba 

[manitoba.ca/covid19](https://manitoba.ca/covid19)