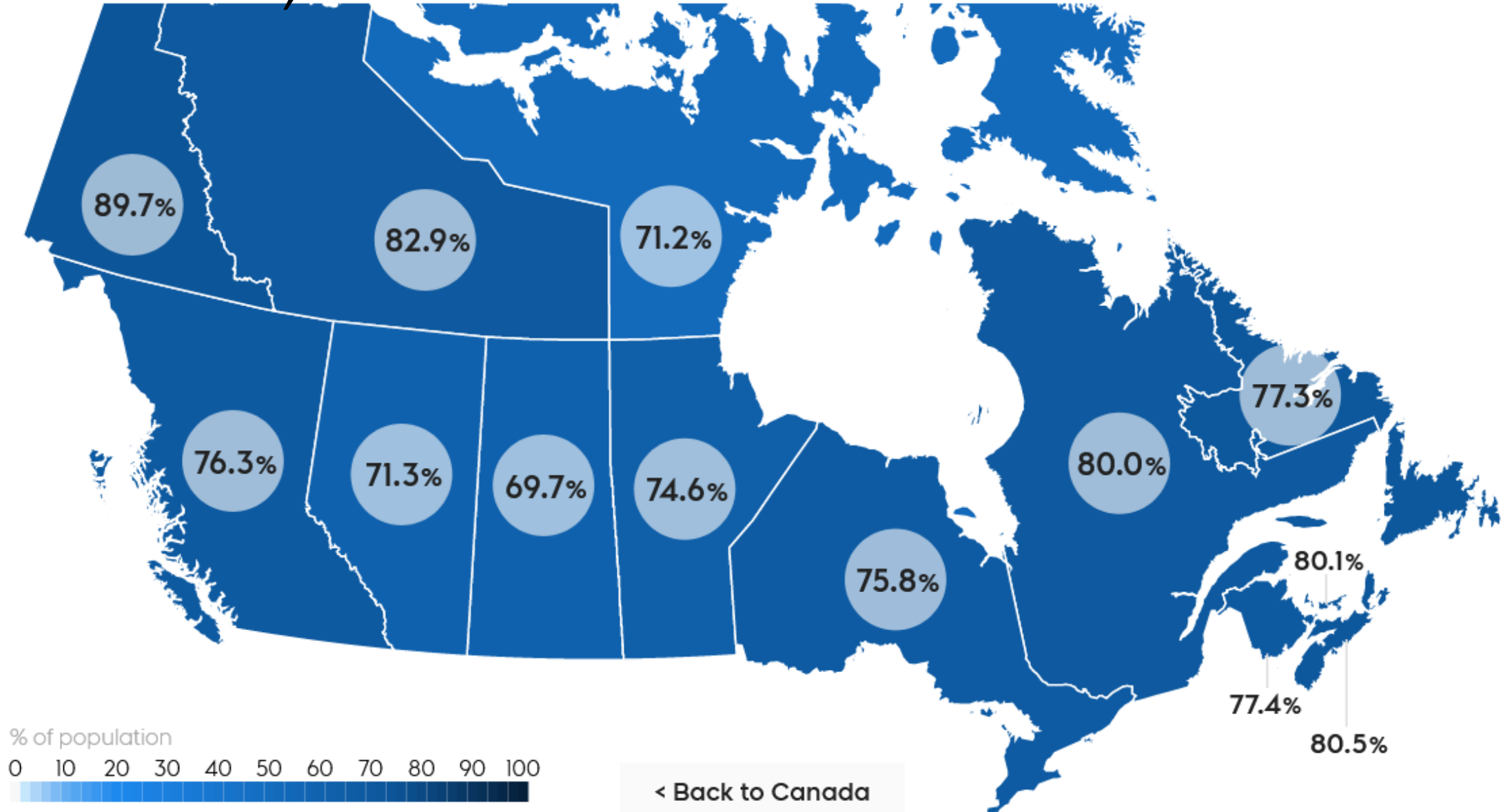


# COVID-19

## What is coming next?

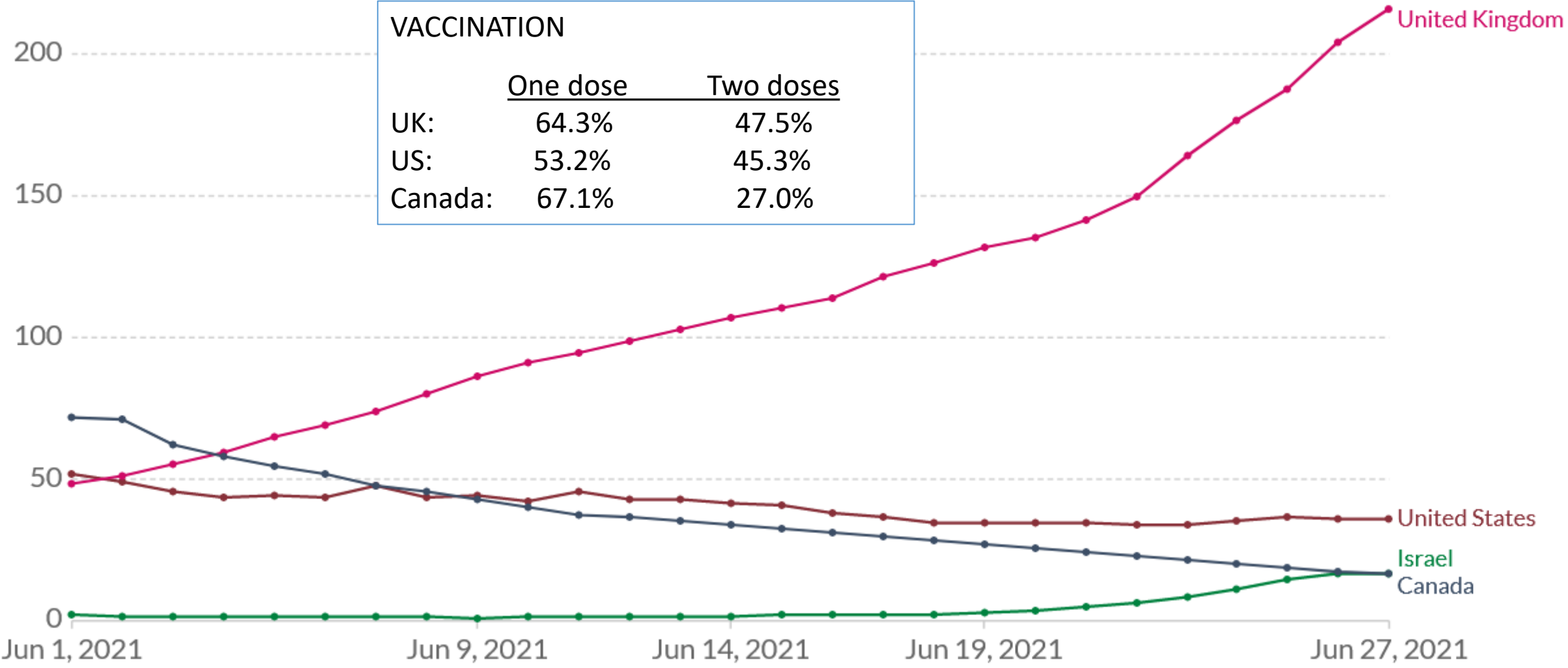
Allison McGeer, MSc, MD, FRCPC, FAMMI  
Sinai Health System, University of Toronto

# Proportion of population 12+ with one dose of vaccine, June 27th



# Daily rate of COVID-19 per million cases

VACCINATION		
	<u>One dose</u>	<u>Two doses</u>
UK:	64.3%	47.5%
US:	53.2%	45.3%
Canada:	67.1%	27.0%

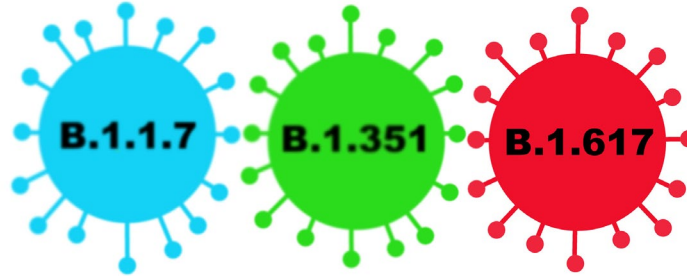


# Goal – Maintain control by replacing public health interventions with vaccination



## ***Vaccines***

- Vaccination rate?
- What is needed for herd immunity?
- Protection over time?



## ***Variants***

- Severe illness protection?
- Transmission protection?
- Protection over time?
- Propagation in children?
- New variants?



## ***NPI***

- Speed of re-opening?
- Opening of borders?

# What data do we need to make best decisions about vaccines for children under 12?

- Clinical trials of mRNA vaccines in progress for children aged 5-12 years
  - Results expected Sep/Oct 2021
- Burden of MIS-C, post-COVID condition
- Risk of myocarditis after mRNA vaccines
- To what extent does vaccinating children protect adults?

# Influences on risk of COVID-19 impact

- Surrounding community:
  - COVID-19 incidence
- Choir members
  - Vaccination
  - Exposure risk (essential workers, Number of household contacts)
  - Adherence to PHI among
  - Age
  - Underlying illness, pregnancy
- At choir
  - Time
  - Air exchanges
  - Clean air
  - Crowding
  - Distance/Separation (at all times)
  - Hand hygiene (alcohol handrub)
  - Masks

# Choirs in Sep/Oct

- Likely will be able to rehearse, maybe perform, in the fall
  - School/children's choirs might be an exception
  - Masks and other precautions will be needed
    - Follow PH guidance
    - Think about the best you can do that is feasible
  - May still be temporarily interrupted

# When will we know more about what the fall and winter will bring?

- Late August
  - Vaccination rates
  - Better estimates of 1 and 2 dose protection against Delta
  - Six more weeks of experience with varying vaccination levels/PHI measures
  - Any evidence of waning protection
- Mid-October
  - Virus activity expected to increase as we go back to work and school, spend more time indoors, and continue to return to normal activities
  - PHAC modellers are predicting an Oct-Nov wave