

SCARSIN - PANDEMIC FORECASTING

Presented to
YORK REGIONAL COUNCIL

Presented by

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June 17, 2021



Why we are here?

- Compartmental model to understand the likely course of the pandemic over time
- Inform public health response to the pandemic
- Understand the current case, hospitalization, and deaths forecast

Modelling assumptions were updated to best reflect reality



Historical Doses Administered

- Immunization Planning provide weekly updates

Vaccine Efficacy

- First dose vaccine efficacy reduced to 66% for all vaccines

Community Measures

- Decreases in mask compliance & social distancing over summer months

Anticipated Supply

- Updated estimates based on Vaccine Ops & provincial data
- **Accelerated second doses due to Delta variant hotspot**

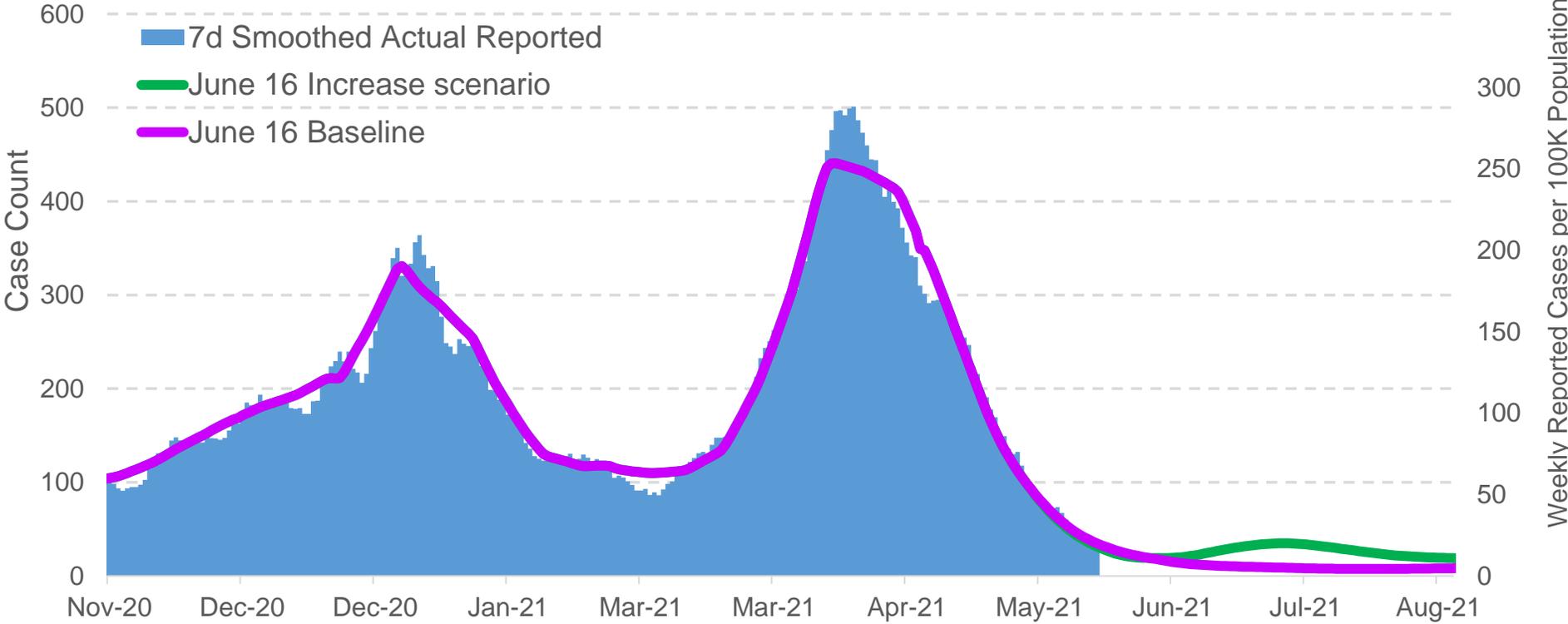
VOC Growth

- Delta growth to 40% by end of June
- Growing to 97% by end of August
- 55% more transmissible (vs. Alpha)

Schools

- Online learning 'til June 30

Cases remain low despite Delta growth and reduced first dose vaccine efficacy



Step 2 of Reopening Plan
 July 2nd expect:
 8 cases/100K weekly
 (13 daily cases)

By the end of August:
 5 cases/100K weekly
 (8 daily cases)

Total Baseline Cases
 June 16 – Aug 31:
860

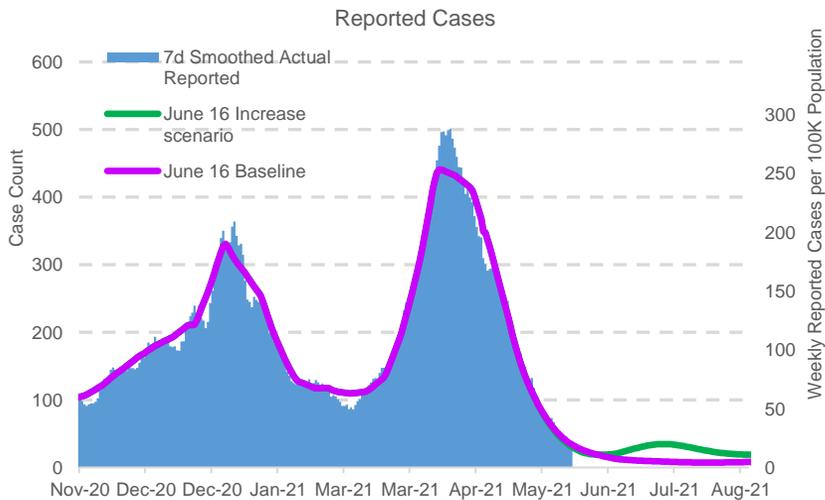
+1.1K for Increase Scenario

Differences in Scarsin and Provincial modelling are due to underlying assumptions

Scarsin York Region Model

Powered by Local Data, Local Factors

- Using YR-specific data
- Helps us understand our response to interventions
- Able to incorporate local policies, interventions, mobility patterns

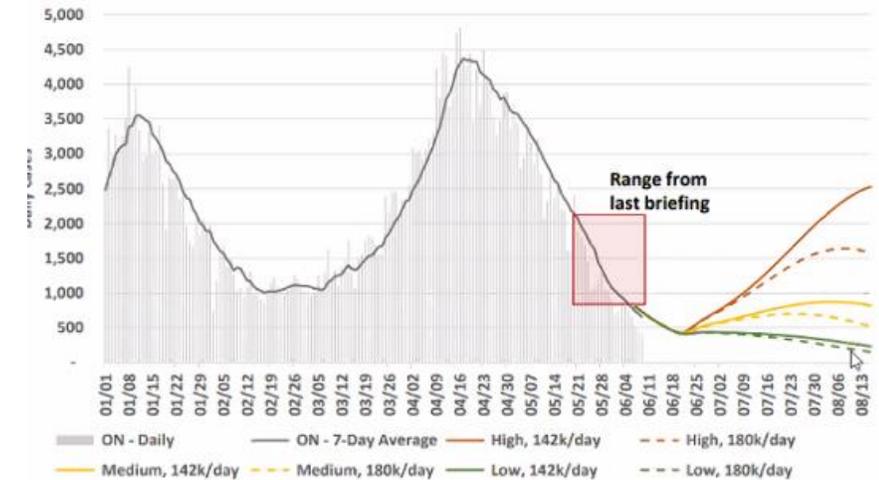


Forecasts

Provincial Model(s)

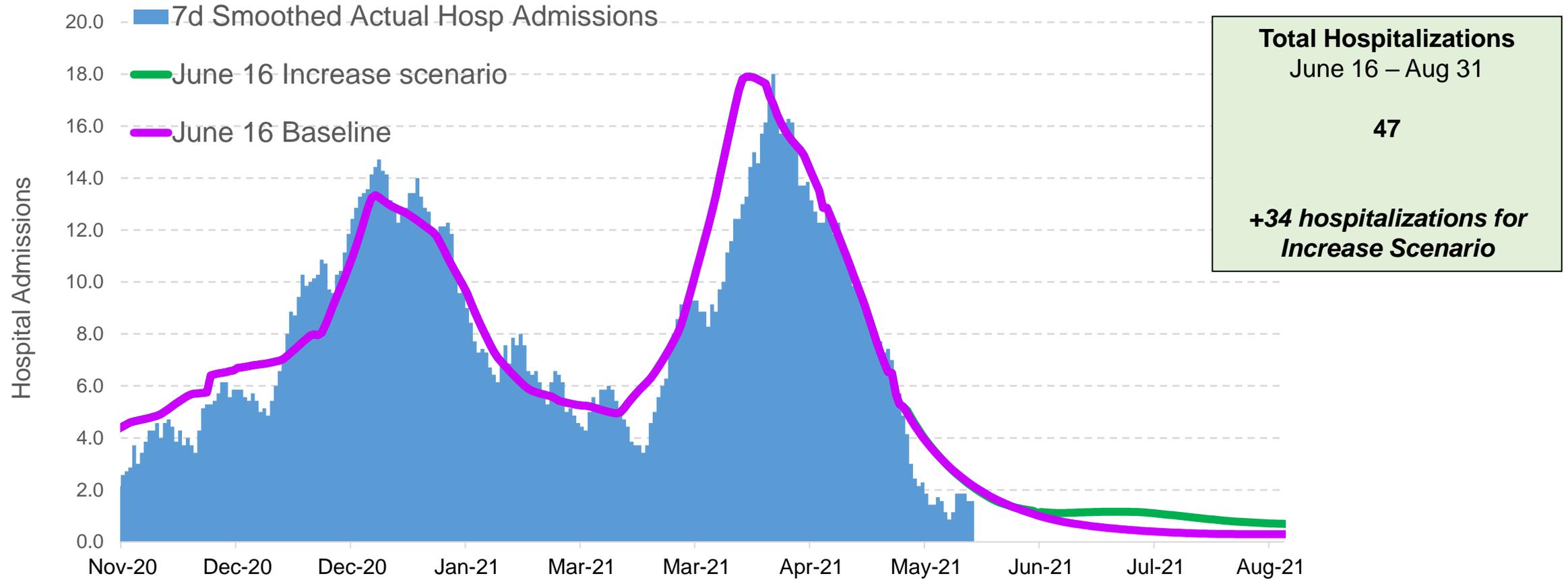
Powered by Provincial Data

- Provincial data provides for province-wide forecast
- Made up of a consensus of models that may not capture unique PHU dynamics



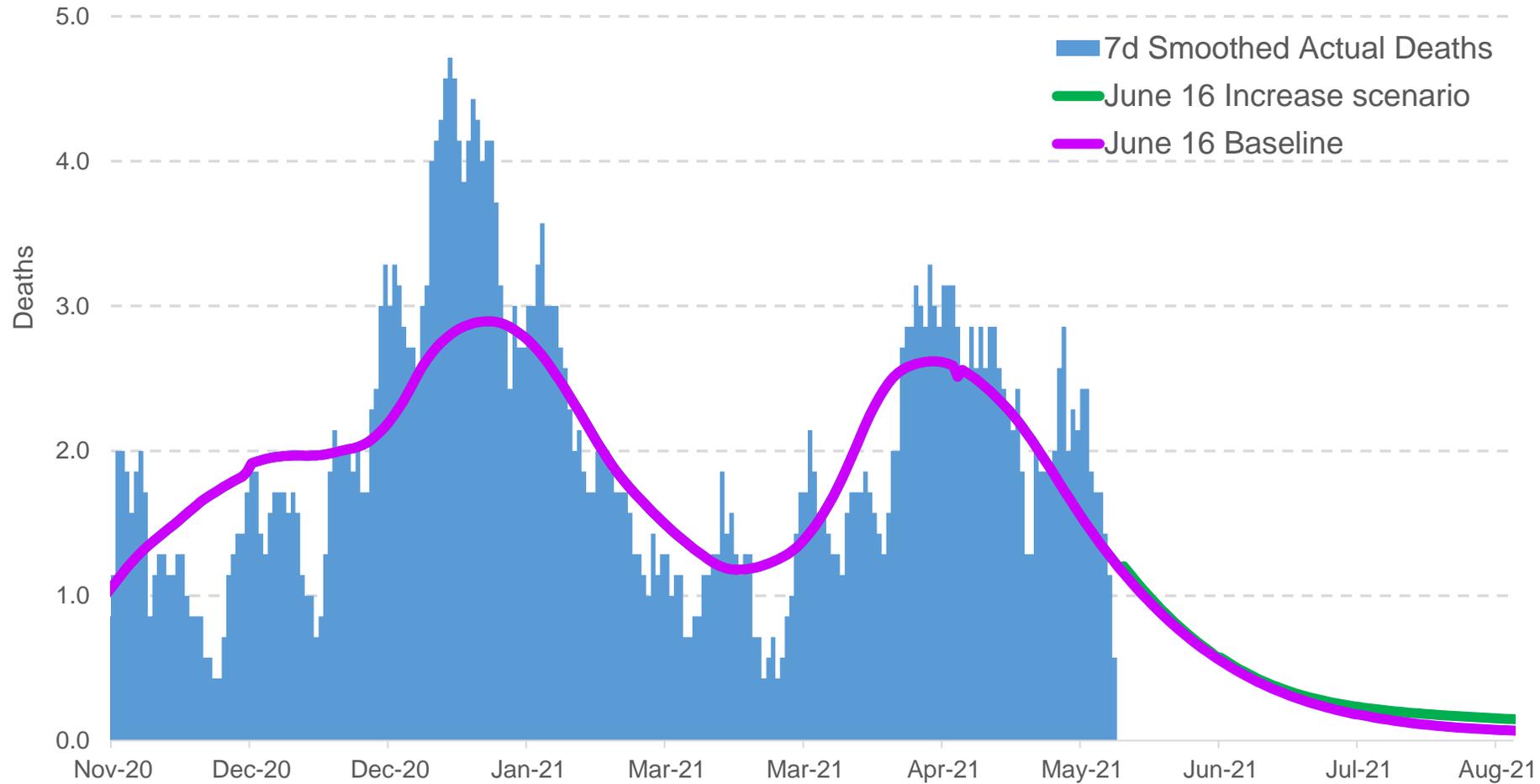
Predictions informed by modeling from Fields Institute, McMasterU, PHO, YorkU
Data (Observed Cases): covid-19.ontario.ca

Very small number of hospitalizations expected to persist over the summer months



Very small number of deaths expected to persist over the summer months

Projected Deaths



Total Deaths
June 16 – Aug 31
23

DISCUSSION/QUESTIONS