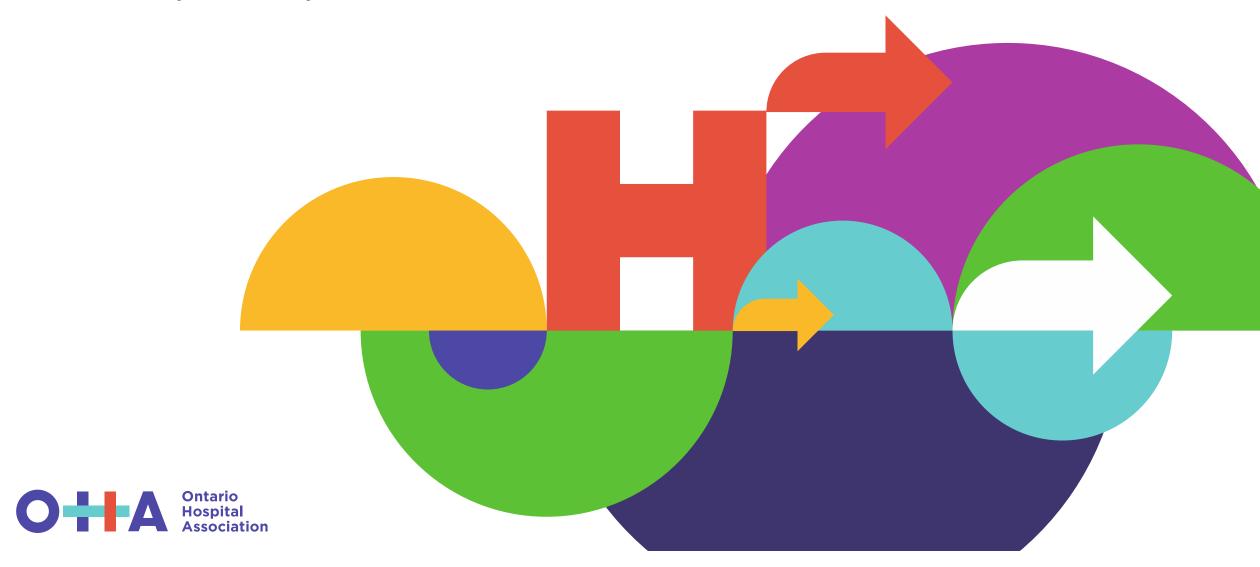
COVID-19 Hospital Capacity

Tuesday, January 11, 2022



Hospital Capacity: Critical Care

Total Funded* ICU Bed Capacity				Critical Care Census**			% ICU occupancy	Funded* ICU Bed Capacity Remaining	
2343	(Adult)	1599	Vented	1821	(Adult)	465 CRCI	77.7% (Adult)	522 (Adult)	
		744	Non-Vented	1021		1356 NON-CRCI	77.776 (Addit)		
93	(Paediatric)	77	Vented	63	(Paediatric)	8 CRCI	67.7% (Paediatric)	30	(Paediatric)
		16	Non-Vented			55 NON-CRCI	07.7% (Faediatile)	30	, racdiatric)
Dec 16 Ontario Science Table COVID-19 ICU Occupancy Projections for December 31, 2021	Low range	241-244	_	ge CRCI patients U (Adult)	370	% pts in ICU with CRCI	% of CRCI pts on vents		
	"Circuit breaker" high range	326	_	New CRCI Admits Adult)	59	25.5% (Adult)	53.5% (Adult)		
	No intervention high range	637		New CRCI Admits ediatric)	2	12.7% (Paediatric)	12.5% (Paediatric)		
Region		Adult Funded* beds		Current Adult CRCI census	% Adult pts in ICU with CRCI	% Adult ICU occupancy	Funded* Adult ICU Bed Capacity Remaining	(+/- cha	ange from previous day)
West		694		157	27.7%	81.6%	128	4	-6
Central		477		119	32.3%	77.1%	109	4	-8

19.6%

24.3%

14.2%

71.6%

78.2%

79.1%

132

125

28

Definition: COVID-19 pts are represented by CRCI (COVID-Related Critical Illness and is defined as: Admission to the ICU because of a clinical syndrome consistent with COVID, AND the patient has had a positive test that is consistent with acute COVID illness)

65

109

15



464

574

134

Toronto

East

North

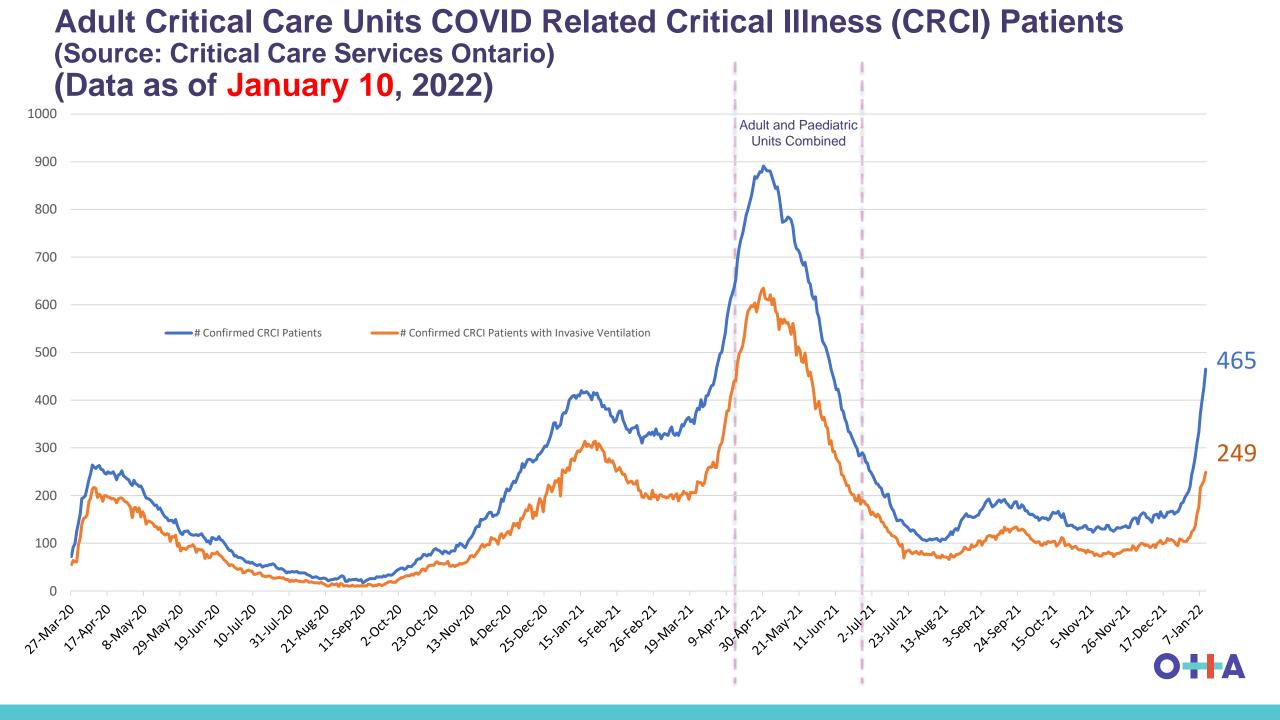


-18

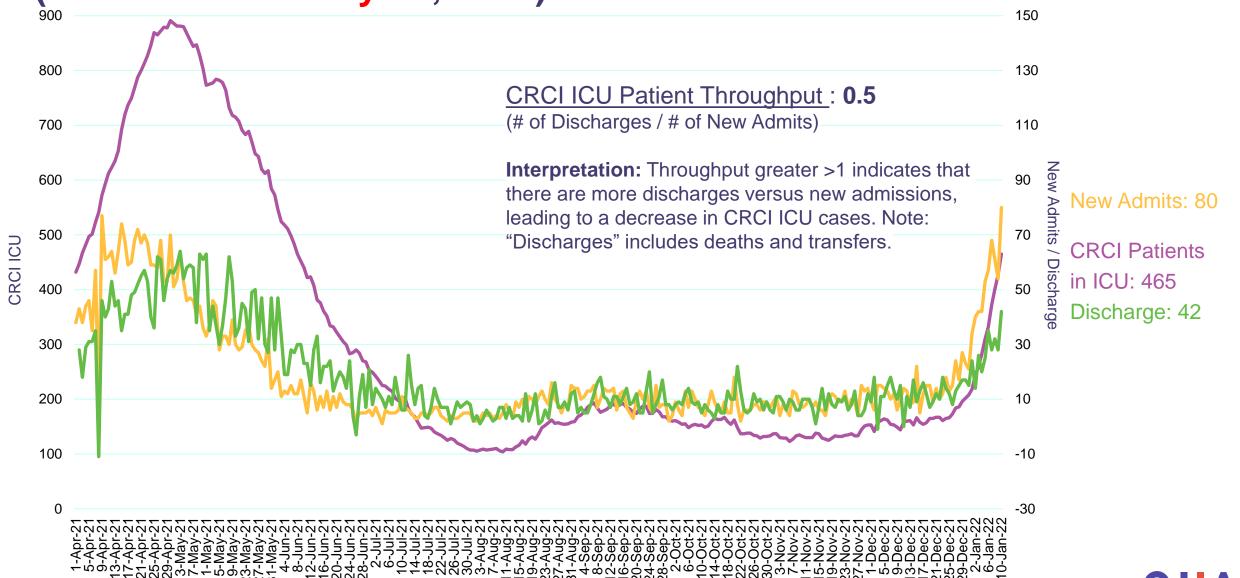
-23

-1

^{**}There were 8 paediatric CRCI cases, 1 vented. There was 1 neonatal CRCI case.

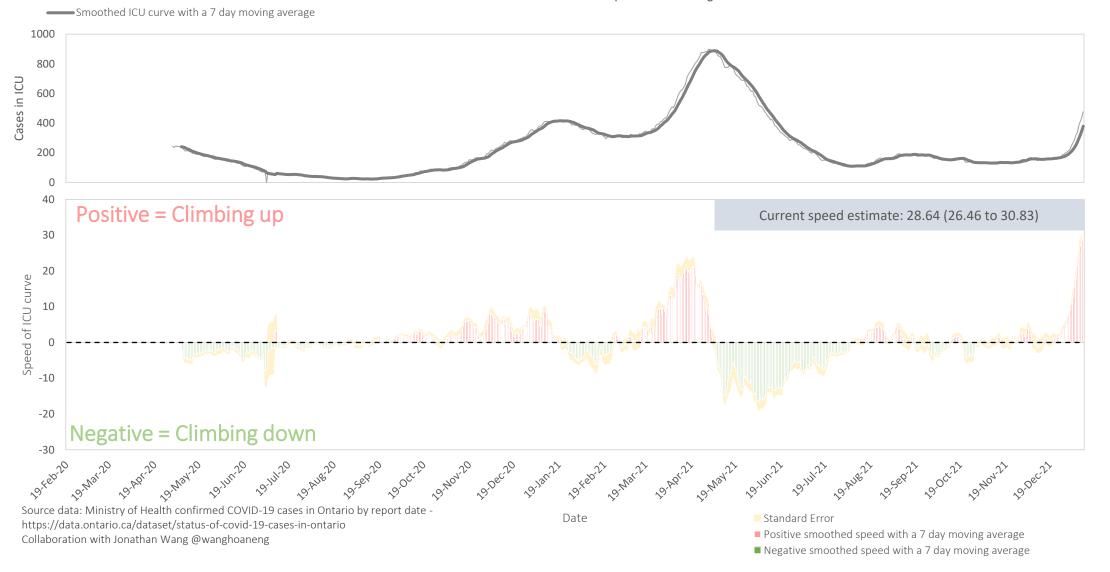


CRCI ICU Patient Throughput (starting April 2021 onward)
(Data as of January 10, 2022)



COVID-19 ICU curve and speed of ICU curve: as of January 10, 2022 in Ontario

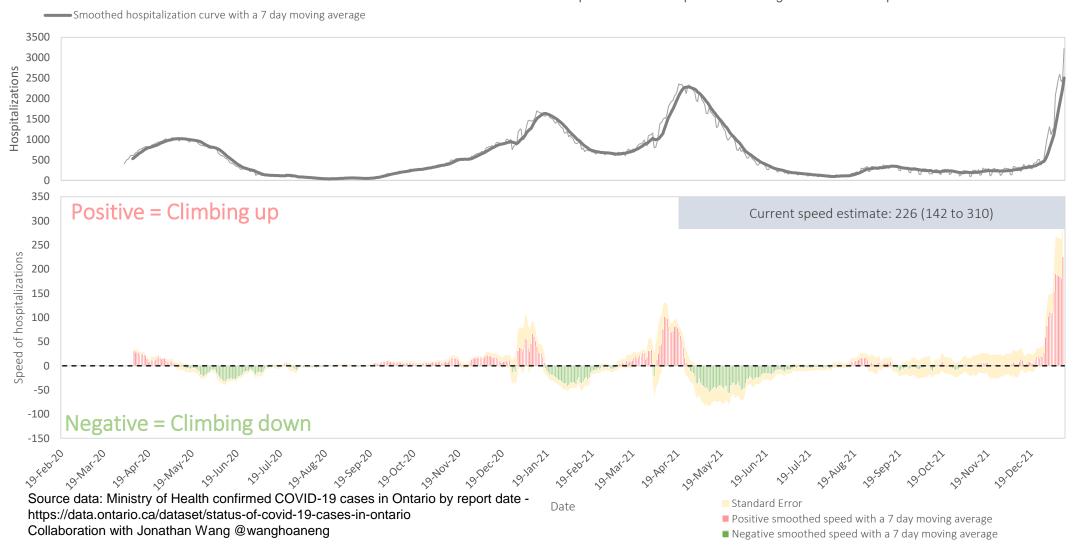
The speed of COVID-19 spread is measured as the slope of the ICU curve. When the **speed > 0**, then the trend of cases in ICU is speeding up. When the **speed < 0**, then trend of cases in ICU is slowing down. When **speed = 0**, then the cases in ICU have plateaued. The goal is to drive cases in ICU down to zero.





COVID-19 hospitalizations curve and speed of hospitalizations: as of January 10, 2022 in Ontario The speed of COVID-19 spread

The speed of COVID-19 spread is measured as the slope of the hospitalization curve. When the **speed > 0**, then the trend of hospitalizations is speeding up. When the **speed < 0**, then trend of hospitalizations is slowing down. When **speed = 0**, then the hospitalizations have plateaued. The goal is to drive hospitalizations down to zero.





Interpretation of the "Speed Signal" Graphs

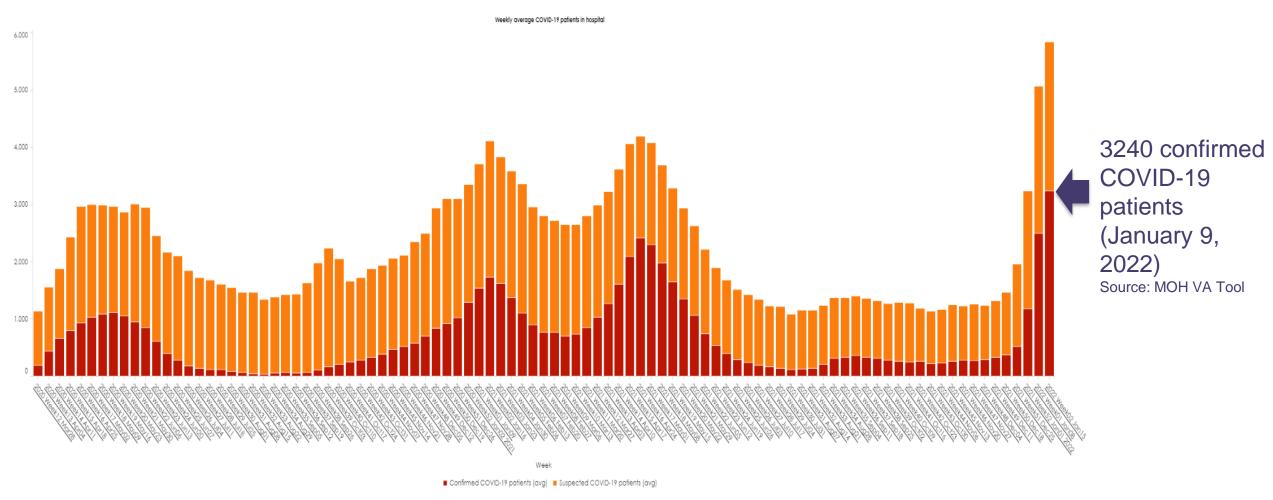
- The "speed signal" metric, developed by Jonathan Wang
 Twitter: @wanghoaneng in 2020, is a simple calculation method with intuitive explanatory power for rates and spread.
- The speed signal can be considered as the number of hospitalization or ICU cases per day that can be expected if the current 7-day trend continues.
- The directionality (positive or negative) of the metric provides insight into the rate of increase of cases per day.
- This metric only provides information on the slope of the hospitalization/ICU curve and should be read in conjunction with the hospitalization or ICU case curve (i.e., zero slope does not mean there are no more daily cases, just that the rate of change in cases per day is zero over a 7-day period).
- The red bars in the graph show rates increasing and the green bars show rates decreasing.



- The speed of COVID-19 spread is measured as the slope of the hospitalization/ICU curve.
- When the speed metric is > 0, then the trend of hospitalizations/ICU cases is speeding up.
- When the speed metric < 0, then the trend of hospitalizations/ICU cases is slowing down.
- When **speed = 0**, then the hospitalizations/ICU cases have plateaued.
- The goal is to drive COVID-19 hospitalizations and ICU cases down to zero.



Weekly average COVID-19 patients in hospital (Data as of January 9, 2022)





Hospital Occupancy

(Data as of January 9, 2022)

All Beds (Total)

90.7% +/- from previous day 0.1

3,141

Availiable beds

Acute

93.9% +/- from previous day 0.1

.

1,292 Availiable beds Post-acute

84.8%

+/- from previous day 0.3

1,827

Availiable beds

(Data as of January 6, 2022)

5,151

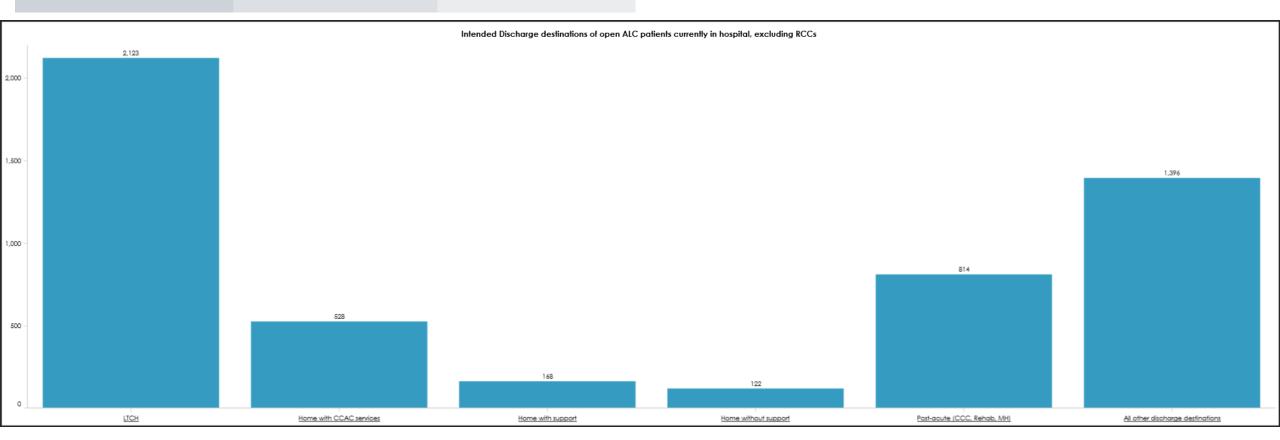
ALC Open Cases Excludes RCCs 10.3%

% waiting for homecare

41.2%

% waiting for LTC

As of January 6, there are **372** ALC patients in RCC beds, approximately 2 out of 5 intended to be discharged to LTCH.

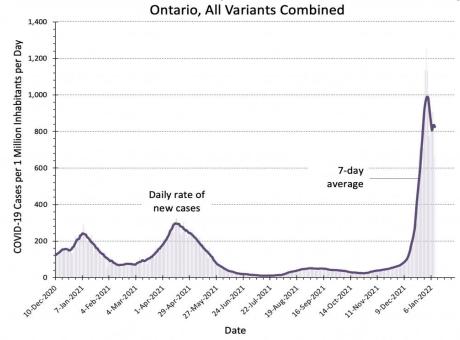




Highlights: COVID-19 Science Table Ontario Dashboard

Key Indicators	_*
Effective Reproduction Number R(t)	
Estimated Number of COVID-19 Cases per Day, on 10-Jan-2022 Change per week	12,162 -2,370
Doubling Time (Days)	-2,370 _*
Estimated Percentage Caused by Omicron	96.9%
Test Positivity	27.9%
Change per week	-3.0%
	2,607
COVID-19 Hospital Occupancy, on 10-Jan-2022	+1279
Change per week Doubling Time (Days)	6.7
COVID-19 ICU Occupancy, on 10-Jan-2022	438 +190
Change per week	+190 8.7
Doubling Time (Days)	
Estimated Number of COVID-19 Deaths per Day, on 07-Jan-2022	21 +12
Change per week	
COVID-19 Cases per 1 Million per Day, on 10-Jan-2022	825.4
Among Unvaccinated People	1,059.5
Among People Vaccinated with at Least 2 Vaccing People	789.0
Reduction Associated with at Least 2 Vaccine Doses	-25.5%
COVID-19 Hospital Occupancy per 1 Million, on 10-Jan-2022	176.9
Among Unvaccinated People	609.6
Among People Vaccinated with at Least 2 Doses	138.0
Reduction Associated with at Least 2 Vaccine Doses	-77.4%
COVID-19 ICU Occupancy per 1 Million, on 10-Jan-2022	29.7
Among Unvaccinated People	175.1
Among People Vaccinated with at Least 2 Doses	16.7
Reduction Associated with at Least 2 Vaccine Doses	-90.5%
COVID-19 Vaccination, on 09-Jan-2022	
Number of People Vaccinated With at Least 1 Dose	12,288,683
Change per week	+65,980
Percent of People Aged 5+ Vaccinated With at Least 1 Dose	87.7%
Change per week	+0.5%
Number of People Vaccinated With at Least 2 Doses	11,474,711
Change per week	+53,078
Percent of People Aged 5+ Vaccinated With at Least 2 Doses	81.9%
Change per week	+0.4%
Number of People Vaccinated With 3 Doses	4,769,378
Change per week	+1,009,215
Percent of People Aged 5+ Vaccinated With 3 Doses	34.0%
Change per week	+7.2%

Estimated Rate of COVID-19 Cases per 1 Million Inhabitants per Day in Ontario



Current COVID-19 Risk in Ontario by Vaccination Status

