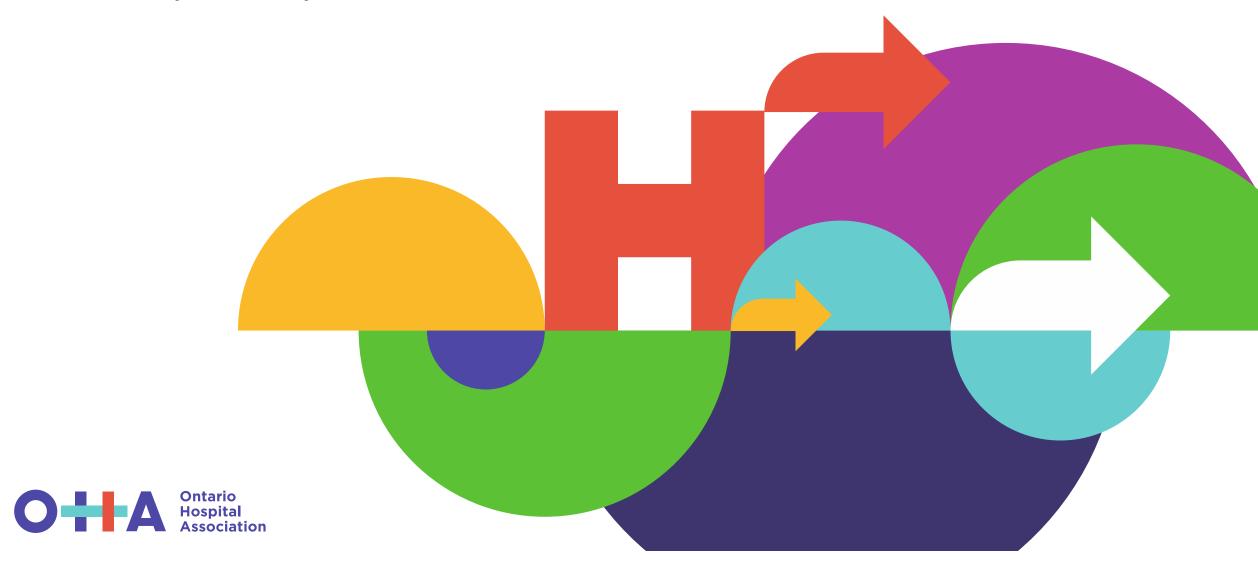
## **COVID-19 Hospital Capacity**

Tuesday, January 25, 2022



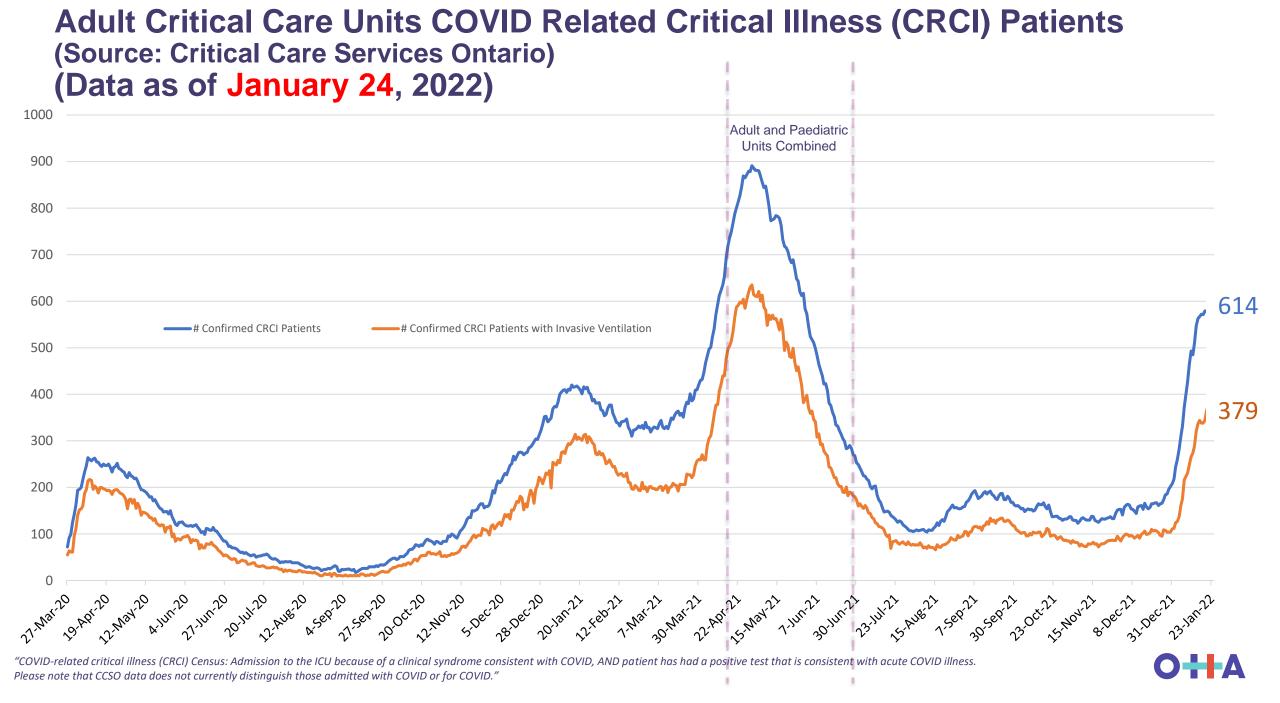
### **Hospital Capacity: Critical Care**

Total Funded* ICU Bed Capacity				Critical Care Census**			% ICU occupancy	Funded* ICU Bed Capacity Remaining	
2343	(Adult)	1599	Vented	1889	(Adult)	14 CRCI	80.6% (Adult)	454 (Adult)	
<u> </u>		744	Non-Vented		12	75 NON-CRCI		-	
105	(Paediatric)	78	Vented	57	(Paediatric)	9 CRCI	54.3% (Paediatric)	48 (Paediatric)	
		27	Non-Vented		<b>(</b> * 3. 2 3. 3 4. 3 4. 3 4. 3 4. 3 4. 3 4. 3	48 NON-CRCI	,		
	7-day average CRCI patients in ICU (Adult)		589	% Pts in ICU who have CRCI		% vented pts who have CRCI			
	7-day average New CRCI Admits (Adult)			61	32.5%	(Adult)	61.7% (Adult)		
7-day average New CRCI Admits (Paediatric)			1	15.8% (Paediatric)		33.3% (Paediatric)			
				Current Adult	% Adult pts in ICU who	o % Adult ICU	Funded* Adult ICU Bed		

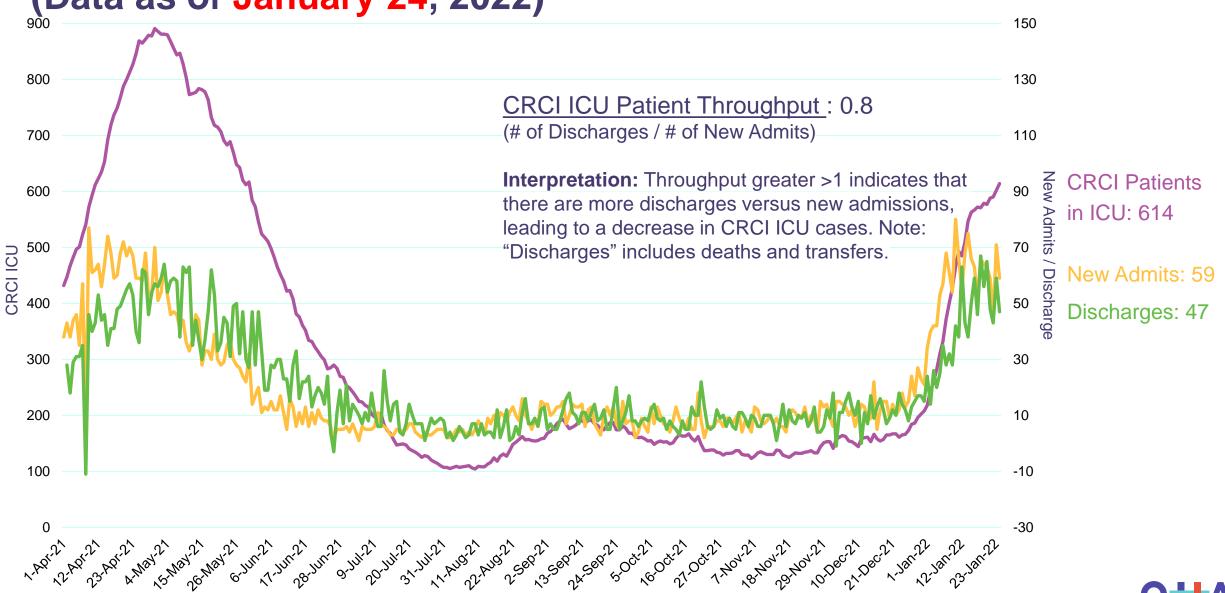
Region	Adult Funded* beds	Current Adult CRCI census	% Adult pts in ICU who have CRCI	% Adult ICU occupancy	Funded* Adult ICU Bed Capacity Remaining	(+/- change from previous day)	
West	694	195	33.1%	84.9%	105	<b>T</b>	-3
Central	477	162	41.9%	81.1%	90	<b>4</b>	-9
Toronto	464	89	25.3%	75.9%	112	<b>4</b>	-3
East	574	132	28.9%	79.4%	118	<b>4</b>	-19
North	134	36	34.3%	78.4%	29	1	2

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). Please note that CCSO data does not currently distinguish those admitted with COVID or for COVID.

<sup>\*</sup>Staffing pressures may reduce funded bed capacity. Please see view the <u>OHA resource page</u> for more details. \*\*There were **9** paediatric CRCI cases, **3** vented. There were **2** neonatal CRCI cases.



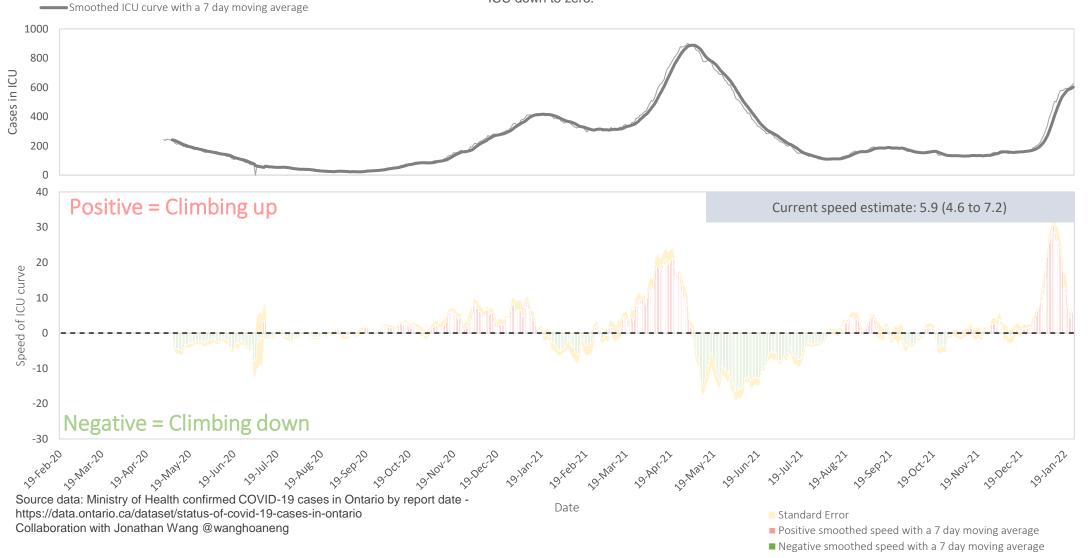
CRCI ICU Patient Throughput (starting April 2021 onward) (Data as of January 24, 2022)





COVID-19 ICU curve and speed of ICU curve: as of January 24, 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 24, 2022 in Ontario The speed of COVID-19 spre

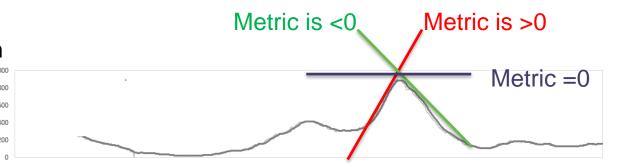
The speed of COVID-19 spread is measured as the slope of the hospitalization curve. When the **speed > 0**, then the trend of hospitalizations is speeding up. When the **speed < 0**, then trend of hospitalizations is slowing down. When **speed = 0**, then the hospitalizations have plateaued. The goal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





### Interpretation of the "Speed Signal" Graphs

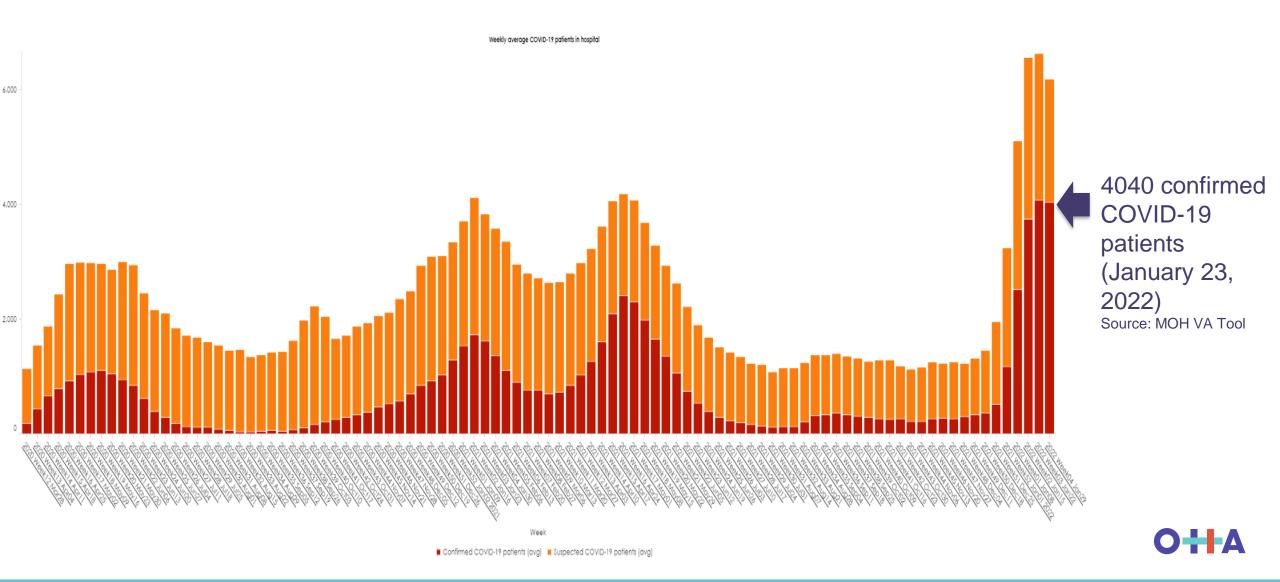
- The "speed signal" metric, developed by Jonathan Wang
   Twitter: @wanghoaneng in 2020, is a simple calculation
  method with intuitive explanatory power for rates and
  spread.
- The speed signal can be considered as the number of hospitalization or ICU cases per day that can be expected if the current 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 23, 2022)



### Hospital Occupancy (Data as of January 23, 2022)

Source: MOH VA Tool

9

All Beds (Total)
92.0%
+/- from previous day 0.0

2,741 Availiable beds Acute 95.0%

+/- from previous day -0.0

1,077 Availiable beds Post-acute

86.4%

+/- from previous day 0.0

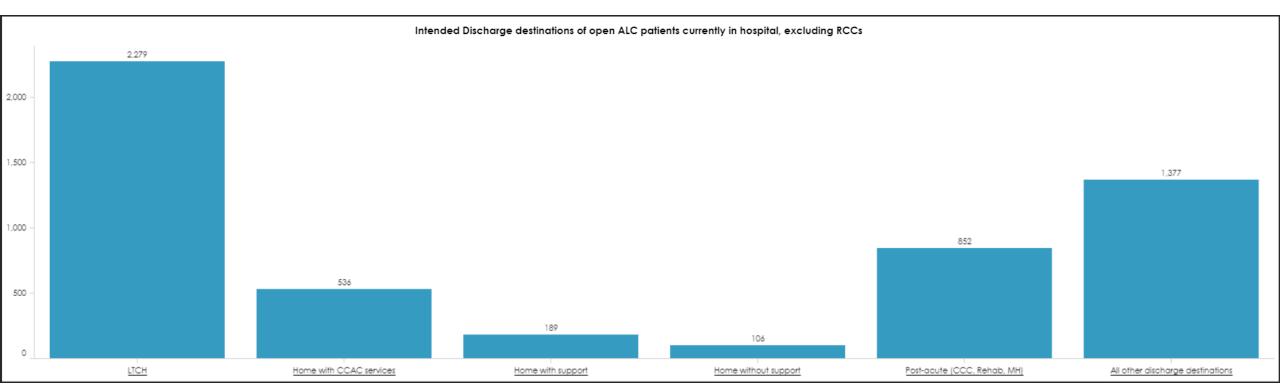
1,648 Available beds 5,339

ALC Open Cases Excludes RCCs 10.0%

% waiting for homecare

42.7% % waiting for LTC

As of January 23, there were **378** ALC patients in RCC beds, where 1 out of 2 intended to be discharged to LTCH.

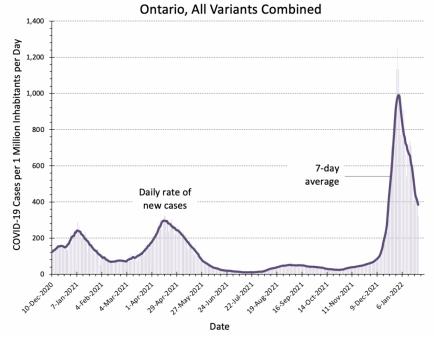




### Highlights: COVID-19 Science Table Ontario Dashboard

Key Indicators for Ontario	4
Effective Reproduction Number R(t) Based on COVID-19 Cases	_*
Estimated Number of COVID-19 Cases per Day, on 24-Jan-2022	5,666
Change per Week	-3,085 99.6%
Estimated Percentage Caused by Omicron	
Standardized Wastewater Signal, on 19-Jan-2022	1.09
Change per Week	-0.29 20.6
Halving Time (Days)	( Table 1997)
Test Positivity	17.6%
Change per Week	-4.7%
COVID-19 Hospital Occupancy, on 24-Jan-2022	4,050
Change per week	+79
Doubling Time (Days)	101.1
COVID-19 ICU Occupancy, on 24-Jan-2022	615
Change per Week	+37
Doubling Time (Days)	53.6
Estimated Number of COVID-19 Deaths per Day, on 21-Jan-2022	54
Change per Week	+18
COVID-19 Cases per 1 Million per Day, on 24-Jan-2022	384.5
Among Unvaccinated People	664.4
Among People Vaccinated with at Least 2 Doses	328.7
Reduction Associated with at Least 2 Vaccine Doses	-50.5%
COVID-19 Hospital Occupancy per 1 Million, on 24-Jan-2022	274.9
Among Unvaccinated People	1,115.2
Among People Vaccinated with at Least 2 Doses	202.6
Reduction Associated with at Least 2 Vaccine Doses	-81.8%
COVID-19 ICU Occupancy per 1 Million, on 24-Jan-2022	41.7
Among Unvaccinated People	281.7
Among People Vaccinated with at Least 2 Doses	23.0
Reduction Associated with at Least 2 Vaccine Doses	-91.8%
COVID-19 Vaccination in Ontario, on 23-Jan-2022	
Number of People Vaccinated With at Least 1 Dose	12,418,541
Change per Week	+53,952
Percent of People Aged 5+ Vaccinated With at Least 1 Dose	88.6%
Change per Week	+0.4%
Number of People Vaccinated With at Least 2 Doses	11,618,510
Change per Week	+70,139
Percent of People Aged 5+ Vaccinated With at Least 2 Doses	82.9%
Change per Week	+0.5%
Number of People Vaccinated With 3 Doses	6,041,636
Change per Week	+452,500
Percent of People Aged 18+ Vaccinated With 3 Doses	50.5%
Change per Week	+3.2%

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



### Current COVID-19 Risk in Ontario by Vaccination Status COVID-19 Cases COVID-19 Patients in Hospital COVID-19 Patients

