

CorHealth COVID-19 Cardiac Stakeholder Forum Meeting #10

May 21, 2020 | 8:00-9:00 am

Teleconference: (647) 951-8467 or Long Distance: 1 (844) 304 -7743

Conference ID: 986393473

Agenda

Time		Description	Presenter / Facilitator
08:00	1.	WelcomeCOVID-19 System Planning UpdatesMeeting Objective	Sheila Jarvis
08:05	2.	eCTAS Cardiac Data	Joy McCarron Clinical Lead for eCTAS Program at Ontario Health
08:15	3.	STEMI Activity in Ontario During the COVID-19 Pandemic	Garth Oakes
08:35	4.	 Heart Failure Update COVID-19 Update on Current Data HF Data: Modelling Data Ambulatory HF Activity: Planning & Resuming Care 	Dr. Heather Ross MD, MHSc, FRCP (C), FACC, Professor of Medicine, Loretta Rogers Chair in Heart Function, University Health Network
08:55	5. •	Other Updates and Next Steps Cardiac activity report	Jana Jeffrey







Advancing cardiac, stroke and vascular care

Welcome

SHEILA JARVIS

COVID-19 System Planning Updates

- Ontario moved into Stage One of the gradual reopening of the Province
 - Focus of Stage One is opening businesses that can immediately meet or modify operations to meet public health guidance and occupational health and safety requirements
 - Specific for the health system:
 - Non-emergency diagnostic imaging and surgeries in public hospitals, private hospitals and independent health facilities, clinics, and private practices to resume based on ability to meet specified pre-conditions including the framework (developed by Ontario Health led by Dr. Chris Simpson): <u>A Measured Approach to Planning for Surgeries and Procedures During the COVID-19 Pandemic</u>, which contains clear criteria that must be met before hospitals can resume scheduled surgeries
 - Non-emergency in-person services can only resume once "Directive #2 for Health Care Providers (Regulated Health Professionals or Persons who operate a Group Practice of Regulated Health Professionals)" is amended or revoked.
 - Certain health and medical services to resume, such as in-person counselling and in-person services, in addition to ongoing virtual services, delivered by health professionals, all based on the ability to meet prespecified conditions.



Meeting Objectives

- To share Cardiac Data from eCTAS, Ontario's electronic decision support and documentation tool for triage
- 2. To provide an update on STEMI activity in Ontario during COVID-19
- 3. To share an overview of the current global and provincial landscape of COVID-19
- 4. To share a Heart Failure update regarding:
 - Heart Failure Modelling Data
 - Ambulatory Heart Failure Activity & Planning for Resuming Care



eCTAS

A GLIMPSE INTO THE EMERGENCY DEPARTMENTS

JOY MCCARRON, CLINICAL LEAD ECTAS
TAMER AHMED, MANAGER ECTAS



CTAS: Triage Standard in Canada



- Patient Stated Complaint
- CEDIS

+

- Vital Signs
- Subjective and Objective Assessments
- Medical History, Medication and Allergies
- Modifiers

Level 1 - Resuscitation

Level 2 - Emergent

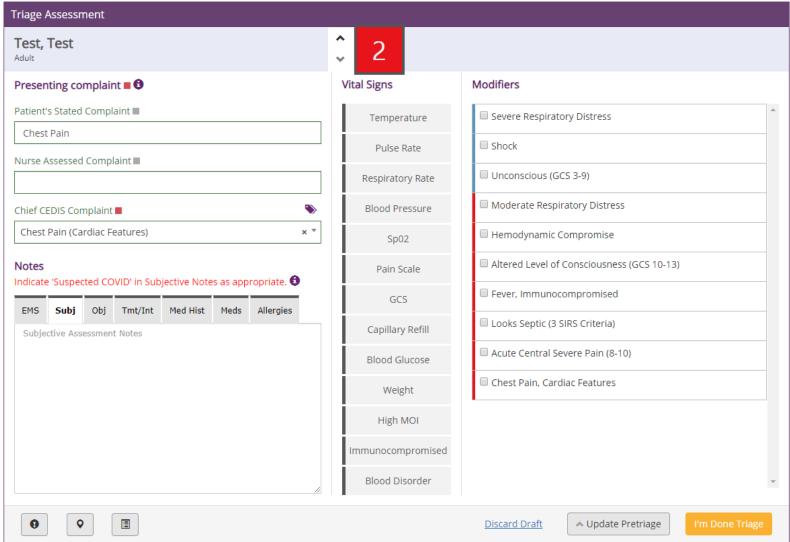
Level 3 - Urgent

Level 4 - Less Urgent

Level 5 - Non-Urgent



eCTAS Application





eCTAS Highlights

8.5 Million patients triaged!







- 115 hospitals sites are live with eCTAS!
- 3 Integration Options in place
- 10 updates to Infection Control Alerts since Jan 1
- 1st Live Data Connection with KFL&A Apr 20
- Updated COVID19 Screening questions May 19

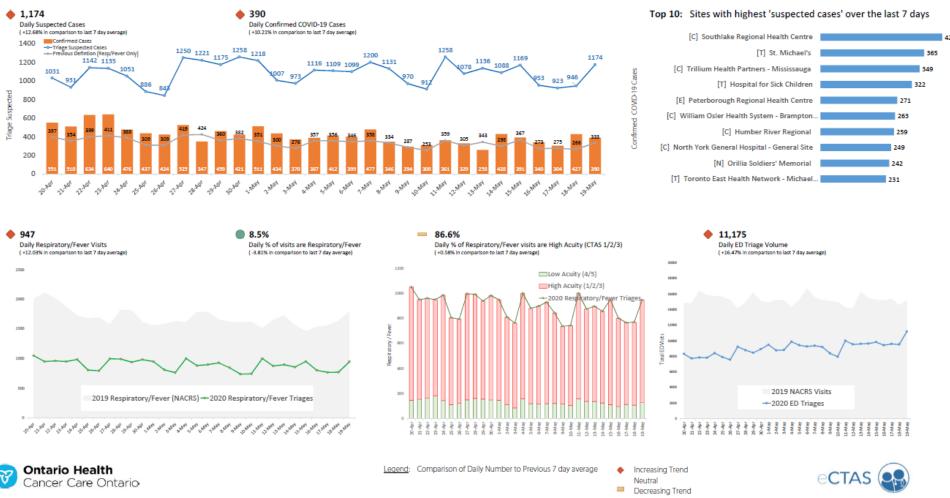


The Power of the DATA

Suspected COVID Lead Indicator

Provincial Summary: 115 eCTAS Hospitals

Tuesday, May 19, 2020



Cardiovascular Presentations

Provincial: December 1 - May 16, 2020 (Weekly Data)





Cardiovascular Presentations by Region

Regions: December 1 - May 16, 2020 (Weekly Data)







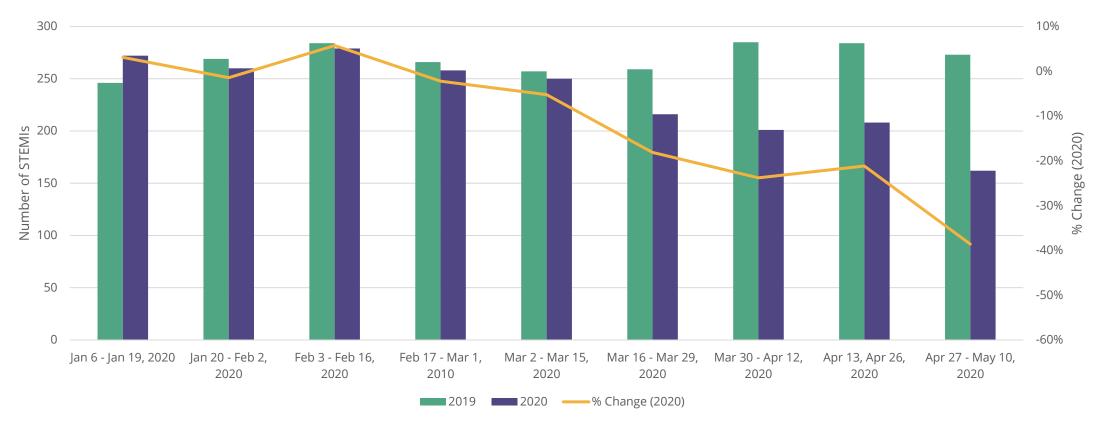




STEMI Activity in Ontario During the COVID-19 Pandemic

GARTH OAKES

Number of STEMIs in 2020 as Compared to 2019



Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly STEMI volumes from January 6th to March 15th 2020.

CorHealth

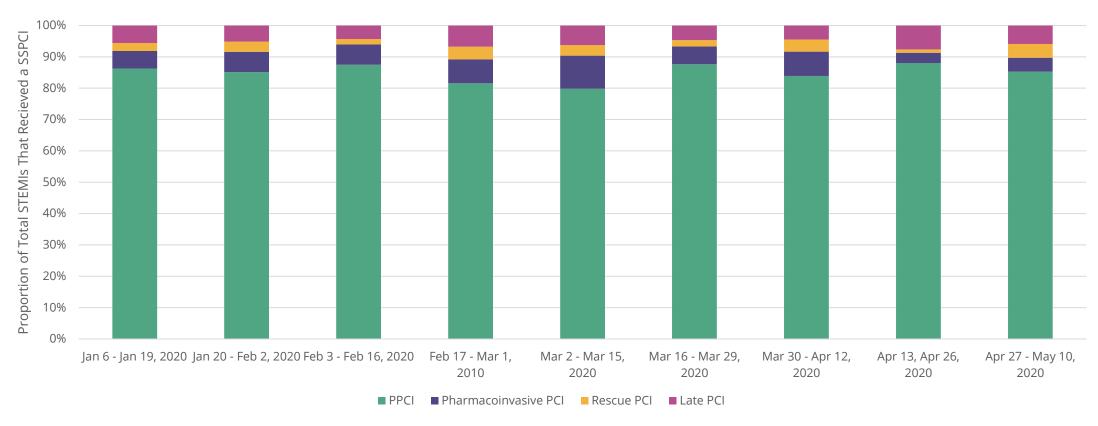
Ontario

Percentage STEMIs Receiving Fibrinolysis in 2020 as Compared to 2019



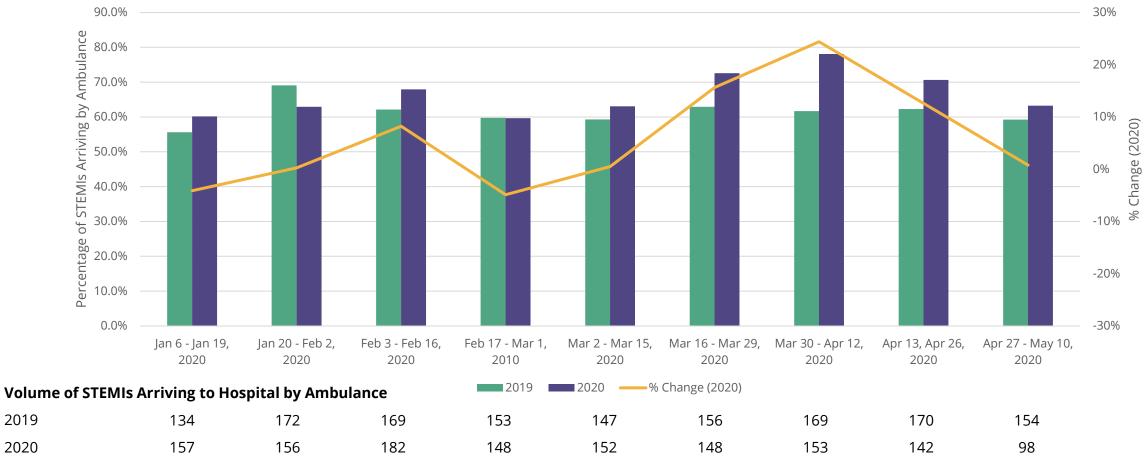
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly Lytic Percentage from January 6^{th17} to March 15th 2020.

Stratification of STEMIs that Receive a PCI by PCI Type



Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; These data only include STEMIs that went on to receive a same sitting PCI.

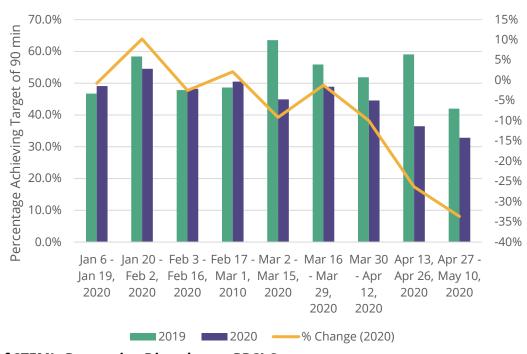
Percentage of STEMIs Arriving to Hospital by Ambulance



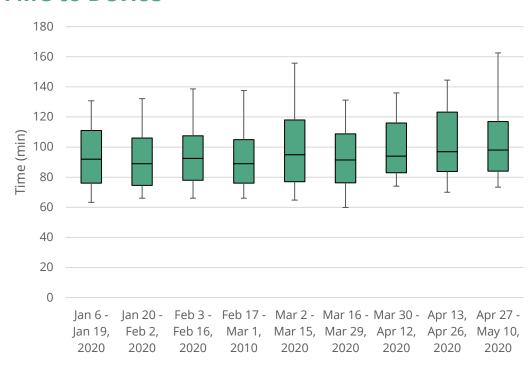
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of cases arriving by ambulance from January 6th to March 15th 2020.

Time Delays for Patients Presenting Directly to a PCI Centre

Patients Who Present Directly to PCI Hospital and Achieve time ≤90 min FMC to Device



Patients Presenting Directly to a PCI Hospital – FMC to Device



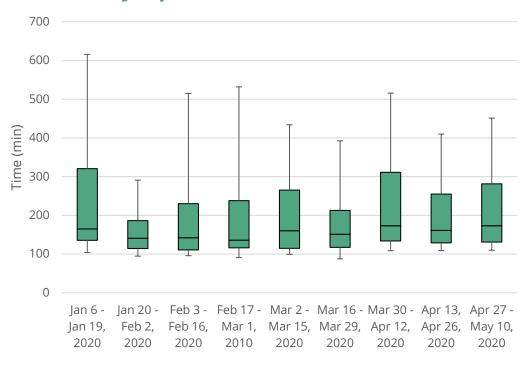
Volume of STEMIs Presenting Directly to a PPCI Centre

2019	92	113	117	111	107	102	106	132	100
2020	114	99	114	95	89	90	101	96	67

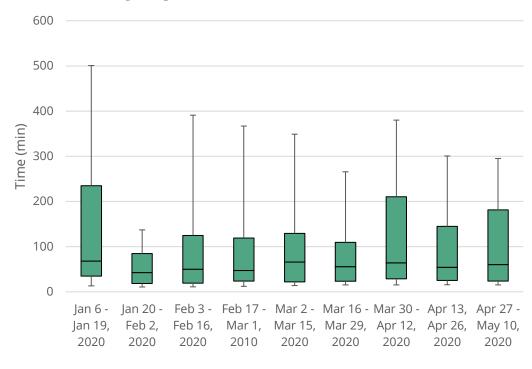
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of cases achieving on min target from January 6th to March 15th 2020; Time delay graphs illustrate 10th, 25th, 50th, 75th and 90th percentile time in minutes respectively.

Time Delays for Patients Presenting Directly to a PCI Centre

Patients Presenting Directly to PCI Centre – Onset of Symptoms to Device



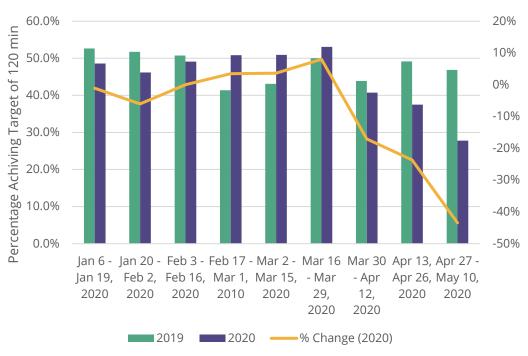
Patients Presenting Directly to PCI Centre – Onset of Symptoms to FMC



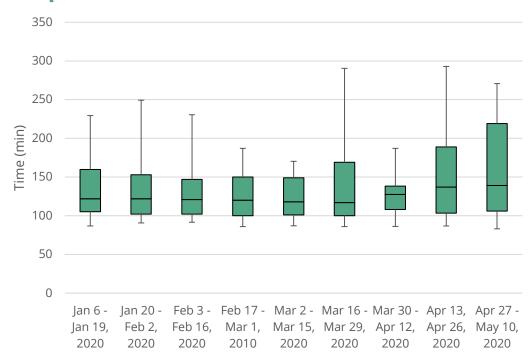
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; Time delay graphs illustrate 10th, 25th, 50th, 75th and 90th percentile time in minutes respectively.

Time Delays for Patients Transferred from a non-PCI Centre

Patients Transferred from a non-PCI Hospital and Achieve time ≤120 min FMC to Device



Patients Transferring From a non-PCI Hospital – FMC to Device



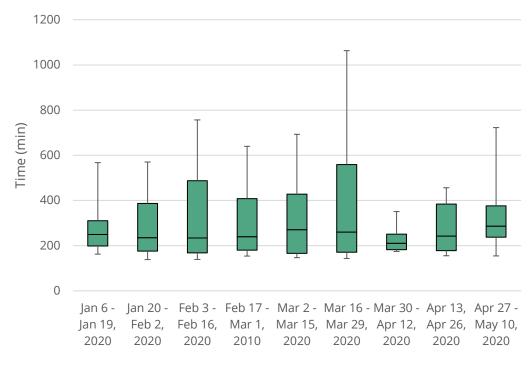
Volume of STEMIs Presenting Directly to a PPCI Centre

2019	57	58	67	58	58	62	82	59	64
2020	70	65	57	61	55	49	27	48	18

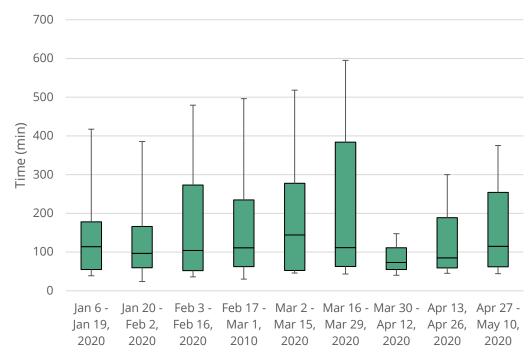
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of cases achieving 90 min target from January 6th to March 15th 2020; Time delay graphs illustrate 10th, 25th, 50th, 75th and 90th percentile time in minutes respectively.

Time Delays for Patients Transferred from a non-PCI Centre

Patients Transferring From a non-PCI Hospital – Onset of Symptoms to Device



Patients Transferring From a non-PCI Hospital – Onset of Symptoms to FMC



Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; Time delay graphs illustrate 10th, 25th, 50th, 75th and 90th percentile time in minutes respectively.

Summary

- Number of STEMIs presenting to Ontario CATH labs have dropped over the course of the COVID-19 pandemic
- Proportion of STEMIs receiving primary PCI has remained consistent
- Proportion of STEMIs Achieving FMC to Device target times has decreased for both patients presenting directly to PCI centres (90 min target) and for patients transferred from non-PCI centres (120 min target)
- FMC to device time delays have increased slightly over the course of the COVID-19 pandemic however we have not observed a corresponding increase in Onset of Symptoms to FMC or Onset of Symptoms to Device time delays







Heart Failure Update

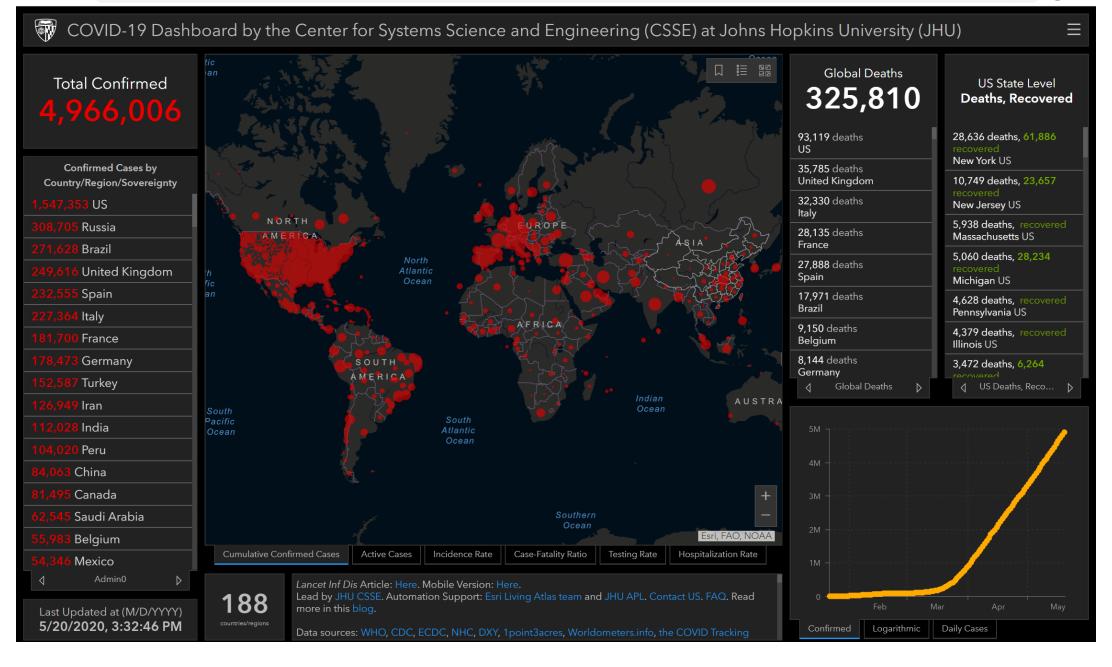
DR. HEATHER ROSS





COVID-19: Update on Current Data

DR. HEATHER ROSS









Testing coverage

The chart here shows a measure of testing coverage – tests per thousand people.

Countries are reporting testing data in different ways: some report the number of tests, others report the number of people tested. This distinction is important – people may be tested many times, and the number of tests a person has is likely to vary across countries. ¹

Across different countries, we see an enormous range in testing coverage. In Iceland there have been more than 100 tests per thousand people – far more than in any other country. In Indonesia, testing coverage is very low – only 0.1 tests per thousand people. 2

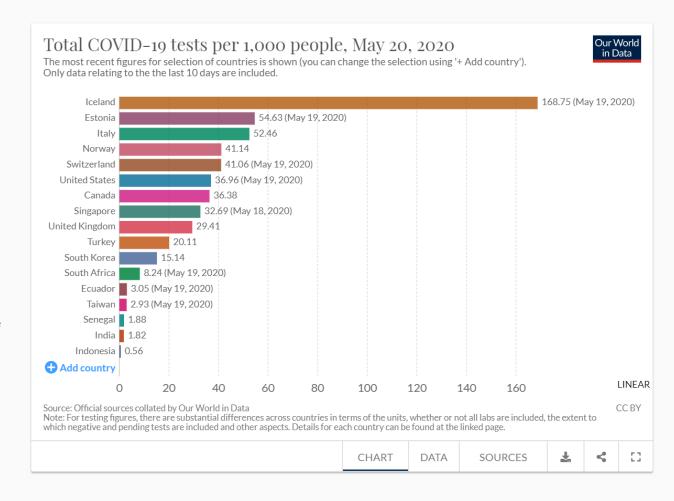
Generally, we would expect that more testing means more reliable data on confirmed cases, for two reasons.

Firstly, a greater degree of testing provides us with a larger 'sample' of people for which their infection status is known. If everybody was tested, we would know the true number of people who are infected.

Secondly, it may be the case that countries with a high capacity for testing do not need to ration tests as much. Where the capacity for testing is low, tests may be reserved (or 'rationed') for particularly high-risk groups. Such rationing is one of the reasons that tested people are not representative of the wider population.

As such, where testing coverage is higher, the 'sample' of tested people may provide a less biased idea of the true prevalence of the virus.³

Download the data: we make our full testing dataset, alongside detailed source descriptions, available on GitHub.

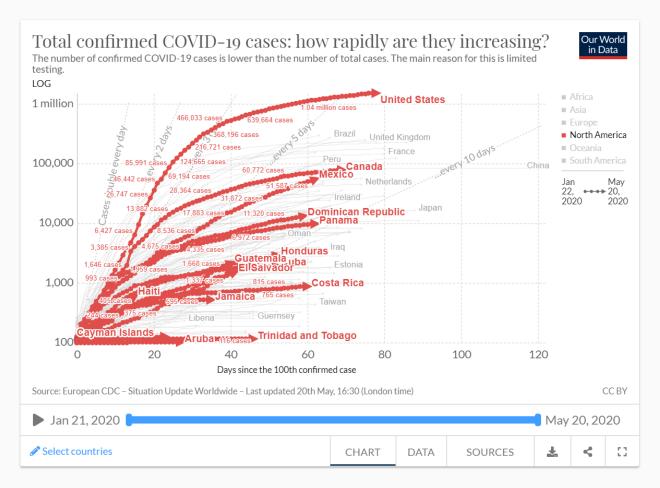








Total confirmed cases: how rapidly have they increased compared to other countries?



The trajectory for every country begins on the day when that country had 100 confirmed cases. This allows you to make comparisons of how quickly the number of confirmed cases has grown in different countries.

Keep in mind that in countries that do very little testing the total number of cases can be much higher than the number of confirmed cases shown here.

• How you can interact with this chart

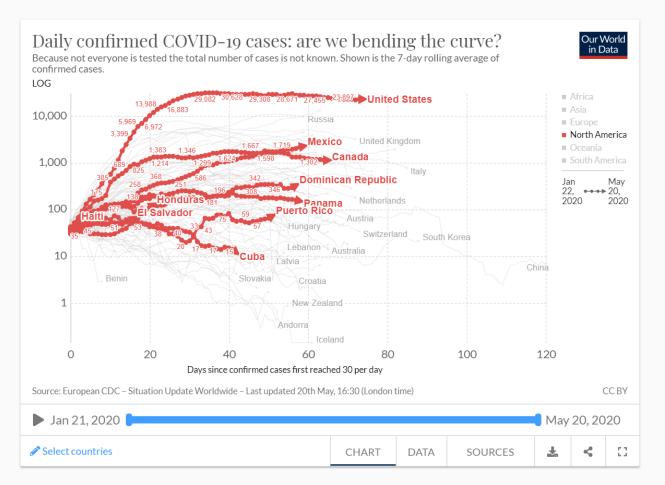
Clicking on any country in the chart highlights that country. If you click on several countries you can create a view in which you can compare several countries.

Any country you might not see immediately you can find via the 'Select Countries' in the bottom left. Just type the name in the search box there.





Daily confirmed cases: are we bending the curve?



To bring the pandemic to an end, every country has to bring the curve of daily cases down to zero.

This chart allows you to track whether countries are achieving this or not.

This chart shows the same data as before, but now adjusted for the size of the population – it shows daily confirmed cases per million people.

How you can interact with this chart

The default log view is helpful to compare the growth rates between countries: on a logarithmic scale the steepness of the line corresponds to the growth rate.

But in this chart, as in many of our charts, you can switch to a linear axis. Just click on 'LOG'.

<u>Here</u> is an explanation for how to read logarithmic axes.

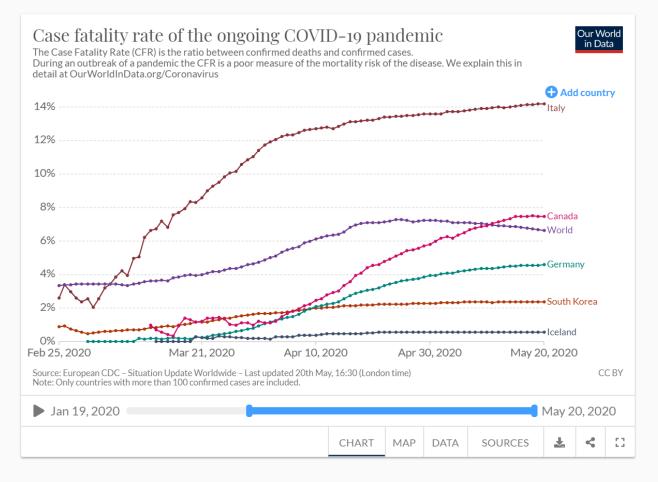
Add a country to all charts...







The case fatality rate



The case fatality rate is simply the ratio of the two metrics shown in the chart above.

The case fatality rate is the number of confirmed deaths divided by the number of confirmed cases.

This chart here plots the CFR calculated in just that way.

During an outbreak – and especially when the total number of cases is not known - one has to be very careful in interpreting the CFR. We wrote a detailed explainer on what can and can not be said based on current CFR figures.



Estimating the burden of SARS-CoV-2 in France

- **BAD** even after a major surge in Covid19 (~100K hospitalizations and >15K deaths), the estimated penetrance of Covid19 in France is <5%;
 - based on these numbers, a "second wave" of Covid19 is essentially inevitable with >95% of the population remaining vulnerable.
- 'GOOD' population-wide estimated risk of requiring hospitalization was 3.6% with an overall mortality of <1%.
 - Both numbers were age- and sex-dependent. In males age >80y, hospitalization ~45% of the time with a mortality of ~38%, CFR 10%
- Big picture:
 - Despite a major surge only brought under control by a very strict and prolonged lockdown, 95% of France still hasn't been exposed. **Scary**.

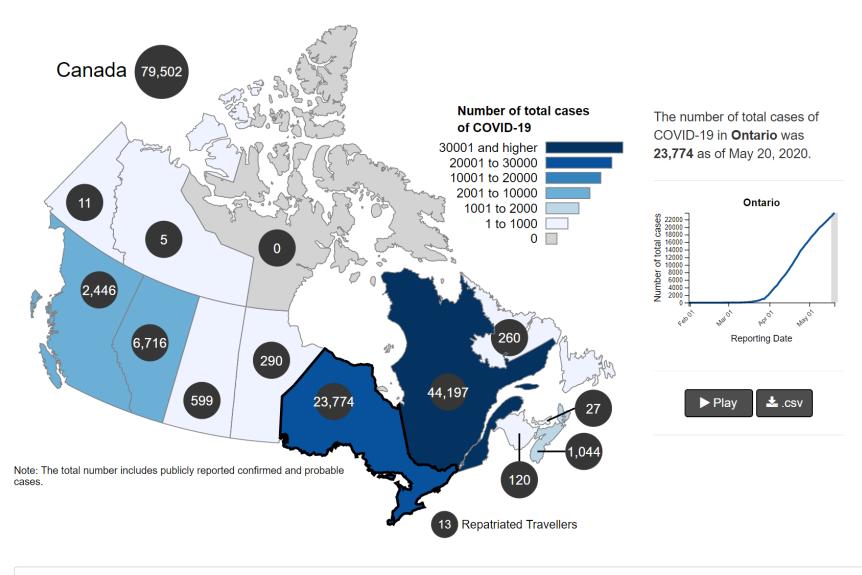
Seroprevalence of SARS-CoV-2-Specific Antibodies Among Adults in Los Angeles County, California, on April 10-11, 2020

Table. Unweighted Characteristics of Study Participants and Proportion With IgM or IgG for SARS-CoV-2

Characteristics	Sample size	Proportion of sample, % (95% CI) ^a	No. positive	Unweighted proportion positive for IgM or IgG, % (95% CI) ^a
Entire sample	863	100	35	4.06 (2.84-5.60)
Sex				
Male	347	40.21 (36.92-43.57)	18	5.18 (3.10-8.07)
Female	514	59.56 (56.19-62.85)	17	3.31 (1.94-5.24)



• Hover over, tap, or tab to provinces and territories to see cases over time or hit the play button to animate the map.



▶ Map - Total Number of COVID-19 Cases in Canada - Text Description

Additional COVID-19 case information:







COVID-19 IN CANADA

CORONAVIRUS DISEASE 2019 (COVID-19) DAILY EPIDEMIOLOGY UPDATE

Updated: 20 May 2020, 11:00 ET

79 502 CONFIRMED CASES 40 342 (51%) RECOVERED

5 955 (7.5%)

1 003 **NEW CASES**

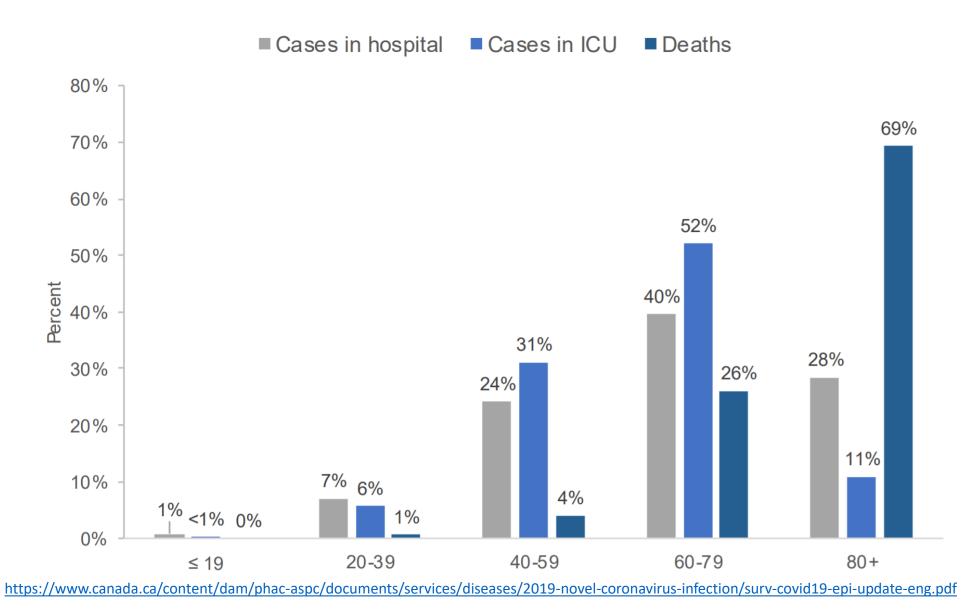
36 525 PEOPLE TESTED PER 1 000 000

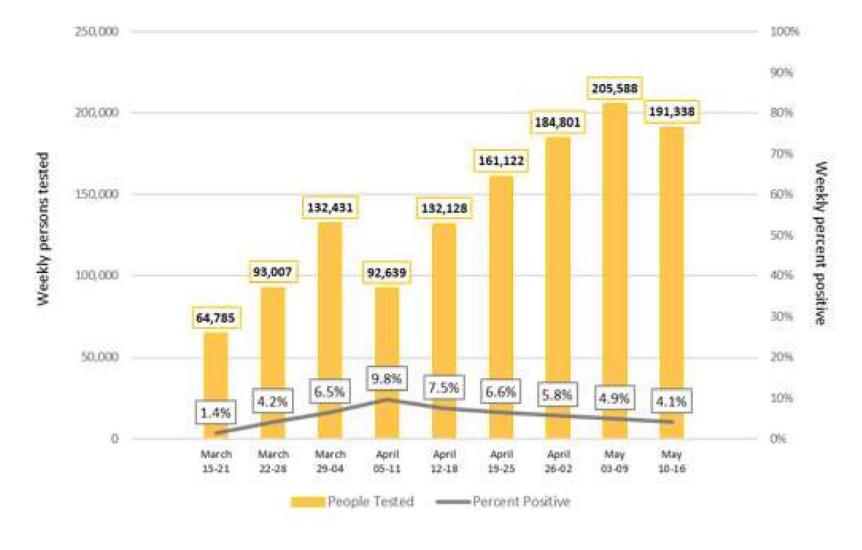
5.4% PERCENT POSITIVE (CUMULATIVE)

KEY UPDATES

- New cases continue to be reported across the country, however with a decreasing trend in daily reported cases observed.
- The majority of cases (85%) and deaths (94%) continue to be reported from Quebec and Ontario.
- No new cases have been reported in six jurisdictions within the past seven days.
- No new deaths have been reported in nine jurisdictions within the past 24 hours.

Figure 4. Proportion of COVID-19 cases hospitalized, admitted to ICU and deaths in Canada, by age group, as of 20 May 2020





Summary of cases of COVID-19: Ontario, January 15, 2020 to May 19, 2020

	Number	Percentage
Number of cases ¹	23,774	N/A
Change from previous report (new cases)	390	1.7% increase
Resolved ²	18,190	76.5
Subset of all cases that are reported to be long-term care residents ^{3,4,5}	4,518	19.0
Subset of all cases that are reported as a health care worker ^{4,5,6} associated with long-term care outbreaks	1,573	6.6
Total number of deaths ⁷	1,962	8.3
Deaths ⁷ reported for residents in long-term care homes ^{4,5,6}	1,224	62.4
Deaths ⁷ reported for health care workers ^{5,6,2} in long-term care homes	4	0.2

T	esting	g
•	Cothi	5

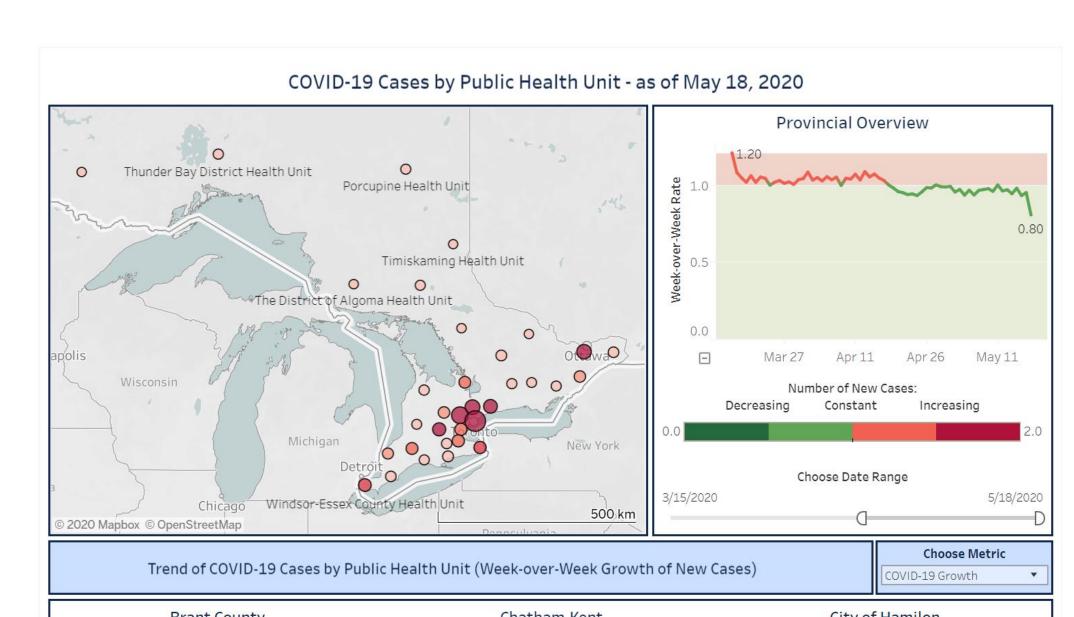
COVID-19

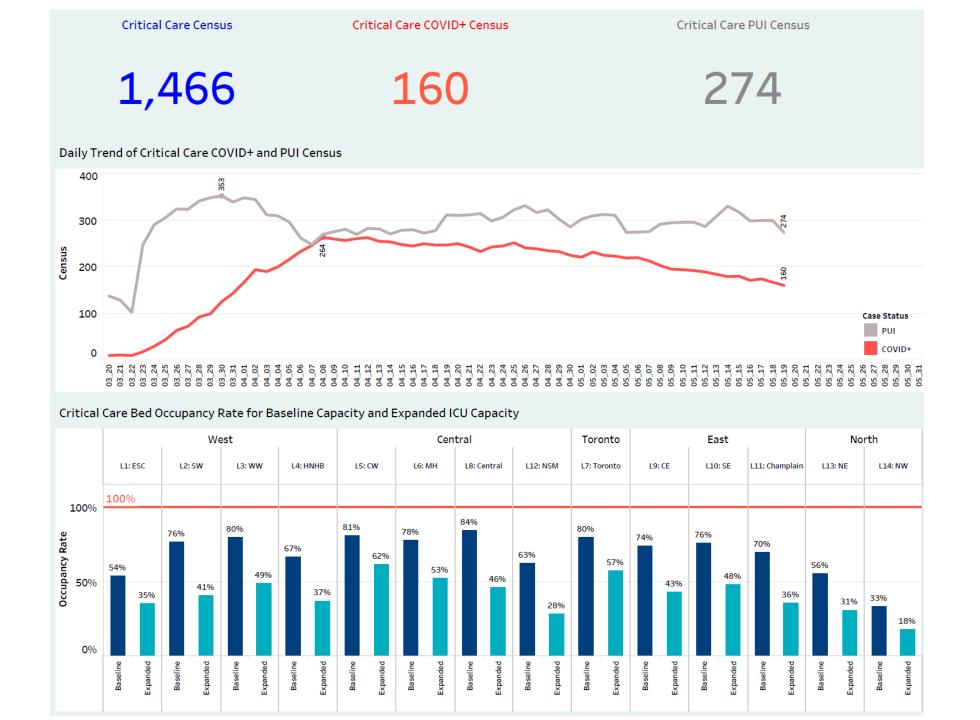
https://www.ontario.ca/page/how-ontario-is-responding-covid-19#section-0

ittps://www.ontario.ea/page/now ontario is res	portaing covid	13#3CCCIOII 0
Total tests completed ⁸	567,176	N/A
Total tests completed in the previous day ⁹	7,382	N/A
Currently under investigation ¹⁰	4,444	N/A
Hospitalizations		
Number of patients currently hospitalized with COVID-19 ¹¹	991	N/A
Number of patients currently in ICU ¹² with COVID-19	160	N/A
Number of patients currently in ICU ¹² on a ventilator with	120	N/A

(SIGN

1A EPR - Profile





Select a public health unit (only displaying health units reporting at least 1 week with cumulative cases >5)

Health Unit

Toronto

♣ Download Health Unit Projections

▲ Download Ontario Projections

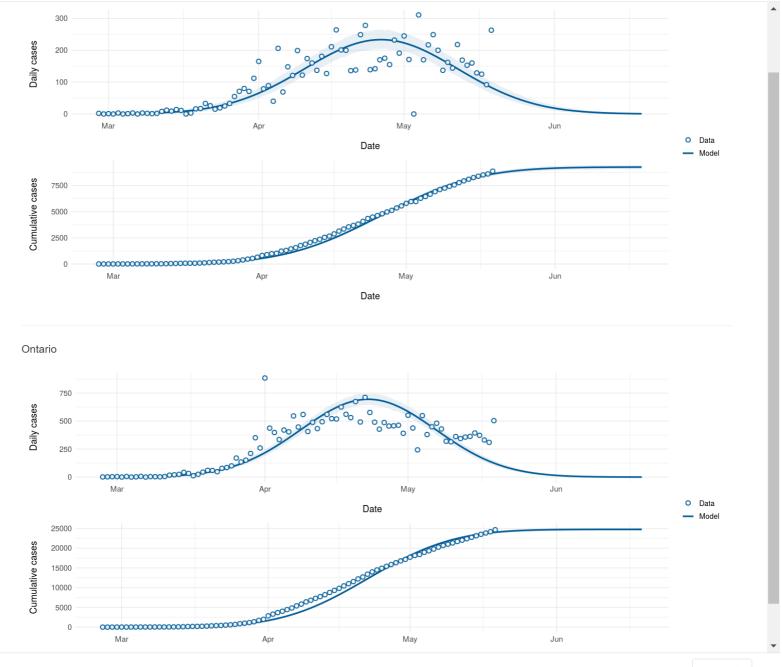
Daily fits to reported case count data are presented for health units reporting substantial COVID-19 activity. Forecasts are based on reported case data collected by the COVID-19 Canada Open Data Working Group.

Projected cases are shown for 30 days into the future. Lines represent best-fit estimates to the data. Shaded areas represent 95% prediction intervals and are a measure of the uncertainty associated with the projections.

Projections should be interpreted with caution. Note that the projections are subject to change as additional case data become available and are particularly unstable for health units with small numbers of cases or fewer days with reported cases. Any changes in testing/reporting will also make these estimates unstable.

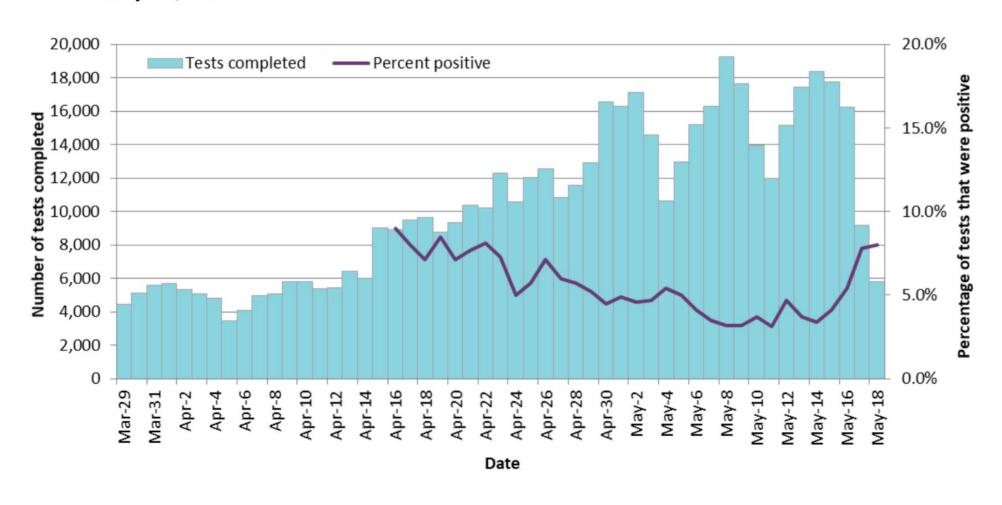
Model projections for the entire province of Ontario are shown for comparison.

Refer to the Details tab for additional information.



Show all

Figure 3. Number of COVID-19 tests completed¹ and percent positivity: Ontario, March 29, 2020 to May 18, 2020







SCARY – Heart Failure Data

DR. HEATHER ROSS

These are the prevalent and incident patients at a provincial level up to March 31st 2019. (ICES)

CONFIDENTIAL- available in presentation only and not for wider distribution

UHN real time data 2019 vs 2020

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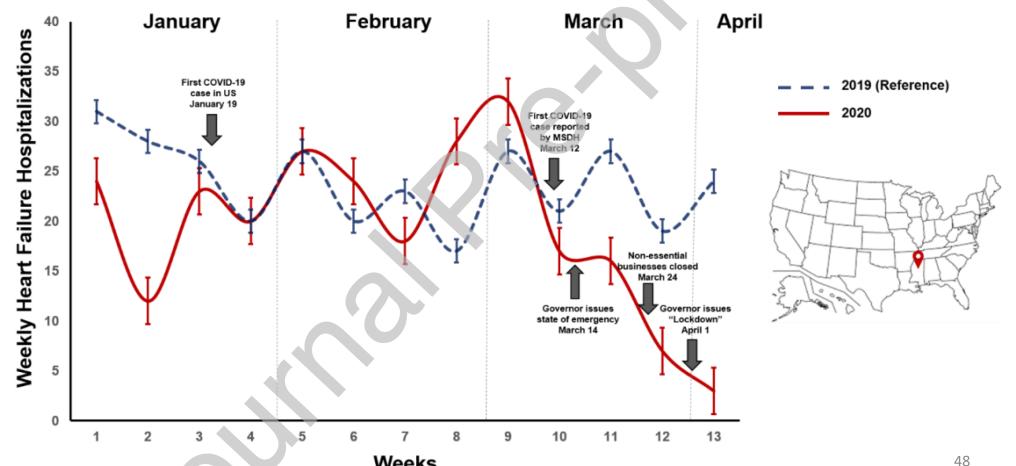
UHN real time data - 2019 vs 2020

CONFIDENTIAL- available in presentation only and not for wider distribution

Reductions in Heart Failure Hospitalizations During the COVID-19 Pandemic



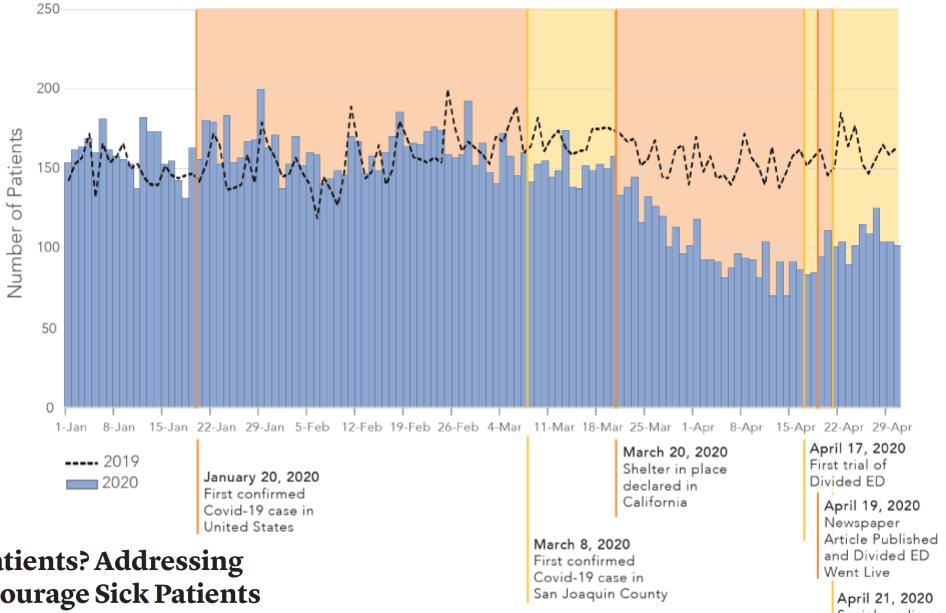
Decline in Heart Failure Hospitalizations During the COVID-19 Pandemic



Hall et al, JCF 2020 Weeks







Where Are All the Patients? Addressing Covid-19 Fear to Encourage Sick Patients to Seek Emergency Care

Wong et al, DOI: 10.1056/CAT.20.0193

April 21, 2020
Social media post
and email to patients

Where are we???

- In 2010, with CCN, Wijesundera did an environmental scan of HF clinics.
 - Identified 30 self-identified HF clinics.
 - Based on that data, capacity was 31,295 visits per year that was the capacity a decade ago (we sampled in 2010) of annual visits.
- Translating that into a 1-month capacity is ~3000 visits.
- Alba did an update of this in 2020 including MD and NP-led clinics and identified 36 clinics.
- 22 clinics reported their annual visit volume totalizing ~41,000 visits/year.





Ambulatory Heart Failure Activity: Planning for Resuming Care

DR. HEATHER ROSS

Overview of Recovery Phases

	Pandemic Period: as of Mar 13, 2020	Recovery Phase 1	Recovery Phase 2	Recovery Phase 3	Future State: "New Normal"
Recovery Phase	Essential Care Only	Time sensitive procedure if delayed more than 90 days; or priority program (e.g. UHN only provider in Ontario) ¹	Prioritize activity where UHN is one of a few providers of specialty care in Ontario ¹	Prioritize based on impact on quality of life and disease outcomes ^{1, 2}	New baseline activity level established

¹ May also include procedures at low risk for admission to hospital (e.g. Endoscopy, Cystoscopy, Arthroscopy, Diagnostic Cardiac Cath, Ophthalmology).



²This may require adjudication of proposed increases in activity by the Clinical Activities Working Group in each program, as available Hospital resources may limit the ability for all increases in activity to proceed simultaneously.

Resumption of care – summary of our detailed doc that went to the clinical activity working group

Program	Baseline Weekly Activity	Recovery Phase 1	Recovery Phase 2	Recovery Phase 3	Future State "New Normal"
Peter Munk Cardiac	2,696	5% - 30%	5% - 30%	10% - 100%+	25% - 100%+
Cardiology	850	10%	25%	50%	60-70
Vascular Surgery		25 – 30%	25 – 30%	> 100%	> 100%
Cardiovascular Surgery		5%	5%	30%	30%
Cardiac Rehab		0%	0%	10 – 25%	25 – 50%
Program	Baseline Weekly Activity	Recovery Phase 1	Recovery Phase 2	Recovery Phase 3	Future State "New Normal"
Peter Munk Cardiac					
Cardiology	33-37/d Approx. 170 per week	40%	60%	100-120%	100-120% till waitlist is appropriate
Program		Recovery Phase 1	Recovery Phase 2	Recovery Phase 3	Future State "New Normal"
Peter Munk Cardiac		90	75	50	70
Cardiology		90%	75%	50%	30-40%
Vascular Surgery		ТВС	ТВС	TBC	ТВС
Cardiovascular Surgery		ТВС	TBC	TBC	ТВС
Cardiac Rehab		100%	100%	≥ 75%	≥ 50%

Ambulatory

Procedural

Virtual

Summary of UHN IPAC Guidelines on Resuming Ambulatory Care

- Install Plexiglas barriers at reception area if possible; where not possible, PFC or receptionist to wear mask and face shield
- Use floor tape to clearly mark where patients should wait, should a queue develop at check-in
- Additional hand hygiene dispensers various clinics
- Shut down water coolers
- Move unnecessary equipment out of clinic rooms or bag/cover it so as to signify non-use
- Patients screened by phone prior to the appointment, upon arrival using the symptom screening tool. During the phone screening, patients will be directed to call ahead if they develop any symptoms
- No accompanying persons are to be allowed to limit in-hospital traffic. The exceptions are:
 - The patient has a physical or cognitive impairment and needs support from a caregiver or caregivers
 - The test or procedure requires the patient to bring an escort
 - The patient needs interpretation (and interpretation services not available)
- Upon arrival, patients are given masks at entrance to building and asked to perform hand hygiene
- Patient waiting time **should be minimized** as much as possible if not eliminated.
- Patients in waiting area must socially distance by 2 metres minimum; managers must coordinate to determine schedule/number
- Have signage to close off washrooms if a symptomatic patient uses it. Signage something along the lines of 'do not use needs terminal cleaning', while awaiting HK terminal cleaning
- Ensure diligent clinic room turnover/disinfection (BP cuffs, exam tables, etc.)







Other Updates and Next Steps

JANA JEFFREY

Other Updates and Next Steps

- CorHealth COVID-19 Forum Meeting Evaluation (Survey) circulated to all Forum members (open until May 29th, 2020)
- Next COVID-19 Cardiac Forum Meeting: Thursday, May 28, 2020; 8:00-9:00 am
 - Discussion to focus on CORE Cardiac Submodule: Recovery Scenarios; and guidance for standards of practice
- CorHealth COVID-19 Cardiovascular Rehab Stakeholder Forum #2: May 22, 8:30-9:30 am.





Advancing cardiac, stroke and vascular care

Appendix

Cardiac Workstreams

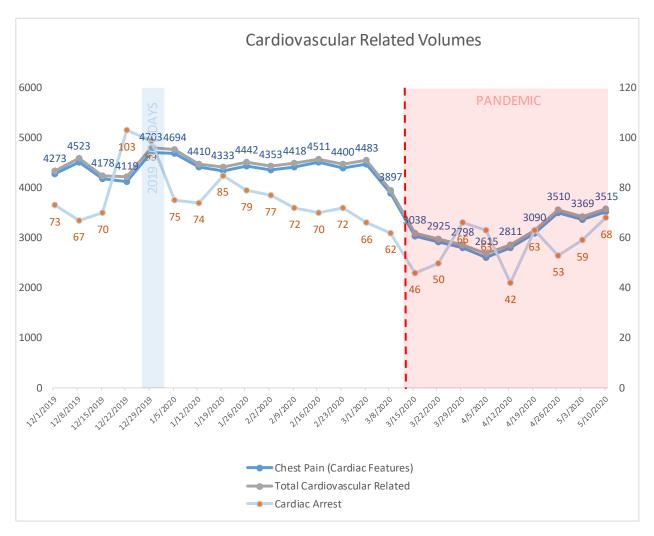
Cardiac Workstream	Moderator(s)
Echocardiography	Dr. Tony Sanfilippo Dr. Howard Leong-Poi
Rehab	Dr. Paul Oh Dr. Mark Bayley
Cardiac Surgery Cath/PCI	Dr. Chris Feindel Dr. Eric Cohen
Heart Failure	Dr. Heather Ross
STEMI	Dr. Steve Miner
Cardiac Electrophysiology	Dr. Atul Verma
Structural Heart (TAVI, Mitral Clip)	Dr. Sam Radhakrishnan
Managing Referrals	Dr. Chris Feindel Dr. Eric Cohen



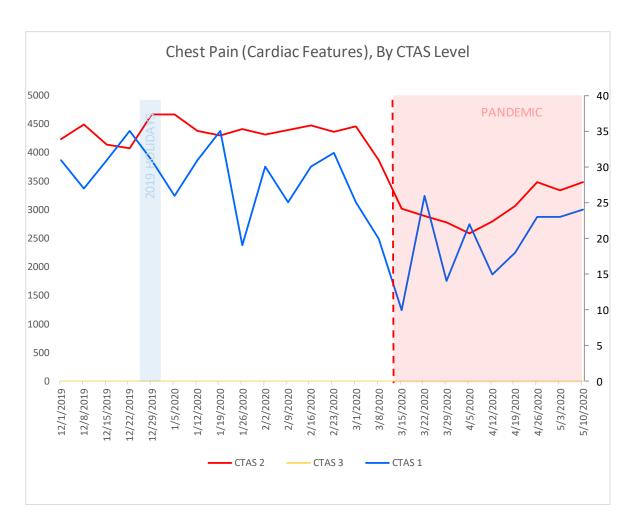




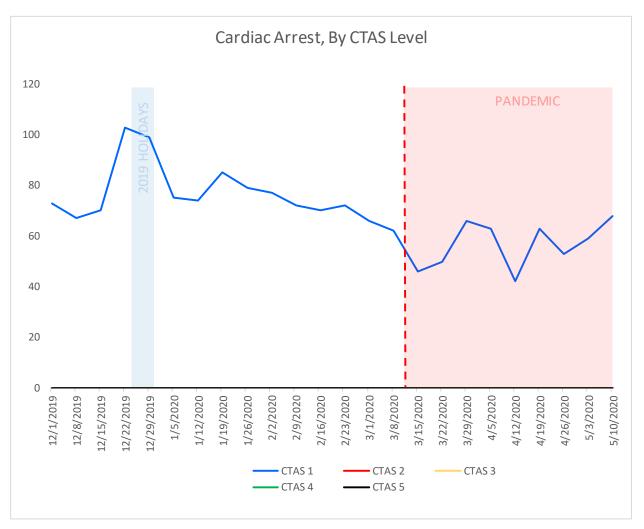
Appendix A: eCTAS



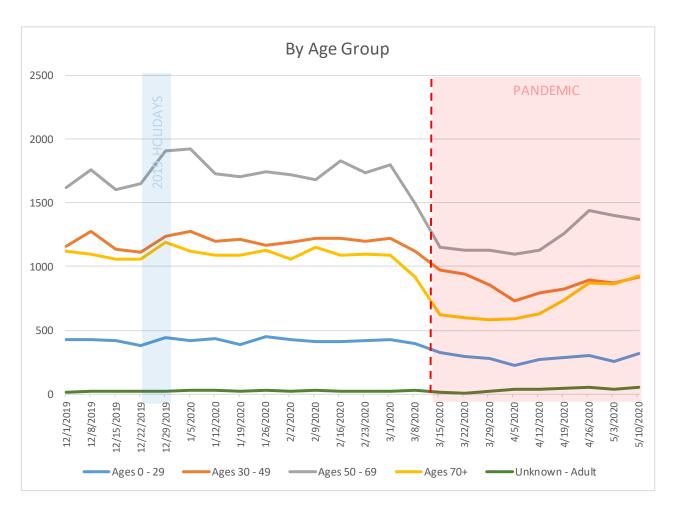




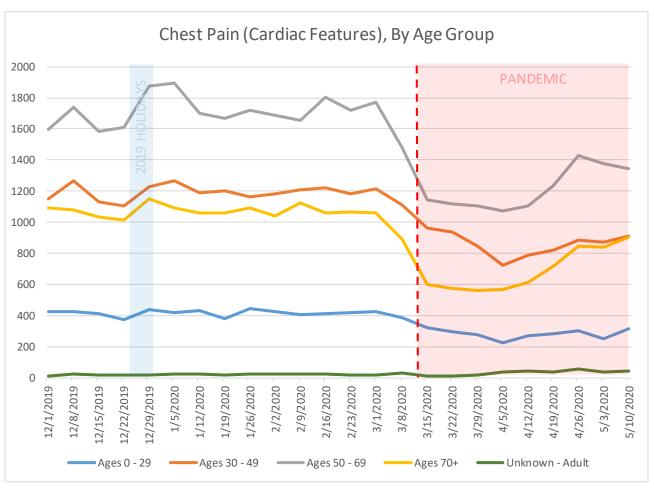




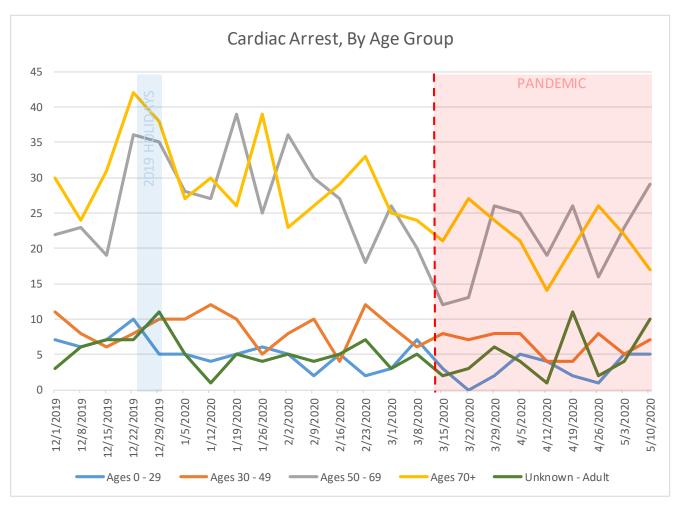


















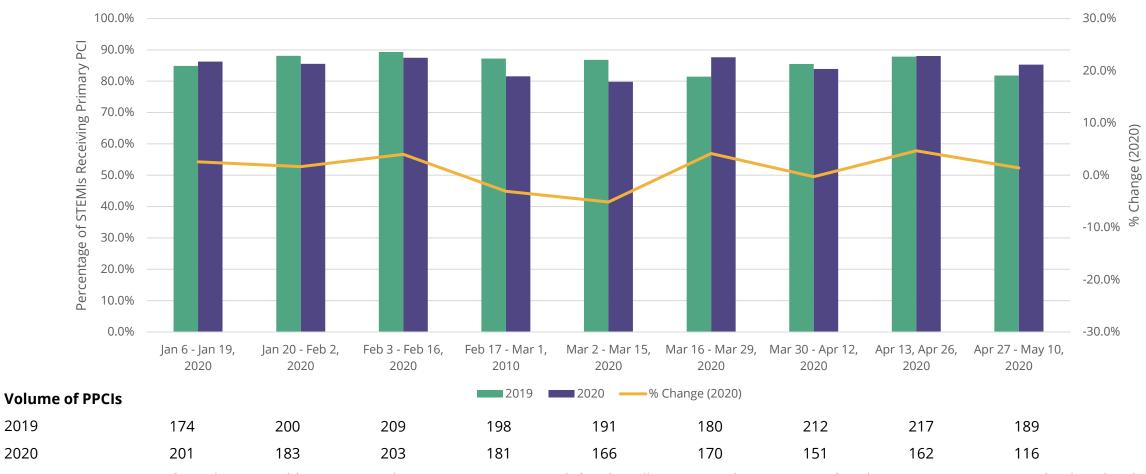
Appendix B: Additional STEMI Data

Percentage of STEMI Activations That Received Only a CATH (no PCI or Lytic)



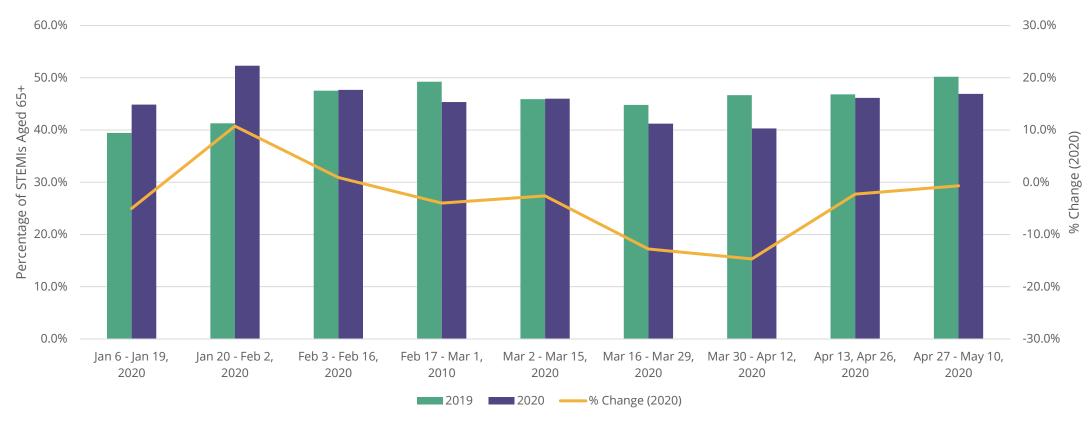
Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of STEMIs receiving⁶⁷ only CATH from January 6th to March 15th 2020.

Change in % Primary PCI in 2020 Compared to 2019



Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; These data only include STEMIs that went on to receive a same sitting PCI; % Change is calculated for the 2020 data⁶⁸ set as compared to the average biweekly percentage of PPCI from January 6th to March 15th 2020.

Proportion of STEMI Patients That Were 65 Years of Age or Older

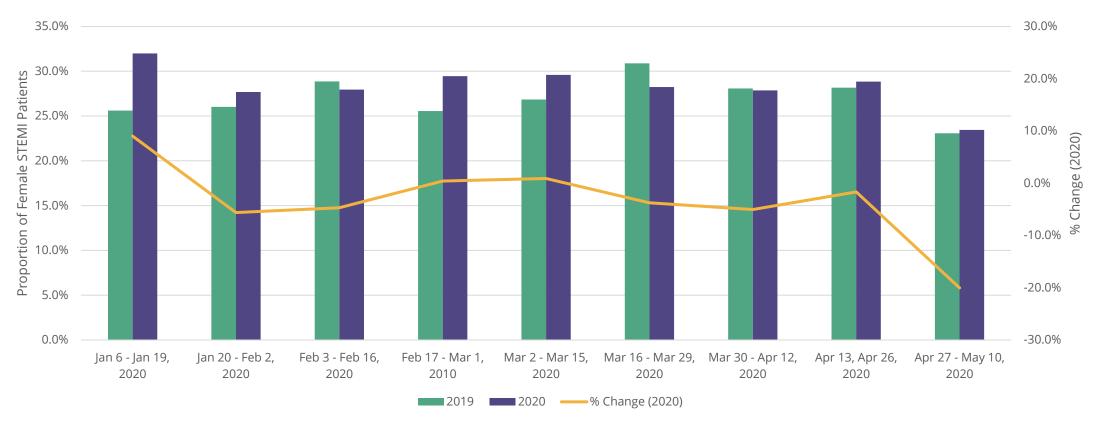


Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of patients ≥65 years of age from January 6th to March 15th 2020.

CorHealth

Ontario

Proportion of Female STEMI Patients Presenting to Ontario PCI Centres



Data are from the CorHealth Ontario Cardiac Registry; STEMIs are defined as all patients with a Primary Referral Reason Type = STEMI and onlisted in the cardiac registry as a coronary angiogram; % Change is calculated for the 2020 data set as compared to the average biweekly percentage of female patients from January 6th to March 15th 2020.