

# CorHealth COVID-19 Heart Failure Stakeholder Forum #3

April 8, 2020 6:00-7:00 pm

Teleconference: (647) 951-8467 / Toll Free: 1 (844) 304-7743

Conference ID: 822279661#

### Agenda

	Description	Presenter	Time
1.	<ul> <li>Welcome</li> <li>Recap of April 1<sup>st</sup> Meeting</li> <li>Meeting Objectives</li> </ul>	Sheila Jarvis	18:00
2.	<ul> <li>COVID-19 - Provincial &amp; Global Context</li> <li>A view of the COVID-19 data from a global and provincial context</li> </ul>	Dr. Heather Ross	18:05
3.	<ul> <li>Virtual Care &amp; Heart Failure</li> <li>Follow up on Medly</li> <li>Ottawa Experience</li> <li>Discussion-sharing new experiences with virtual care</li> </ul>	Alex Iverson Erika MacPhee Heather Ross	18:10
4.	<ul><li>Home IV Lasix</li><li>Southlake Experience</li></ul>	Morgan Krauter	18:25
5.	<ul> <li>Open Forum Discussion</li> <li>Share what is happening locally in the HF community during COVID-19</li> </ul>	Dr. Heather Ross	18:35
6.	Other Considerations & Next Steps	Dr. Heather Ross / Karen Harkness	18:55







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## Welcome

**SHEILA JARVIS** 

### Recap of April 1st Meeting

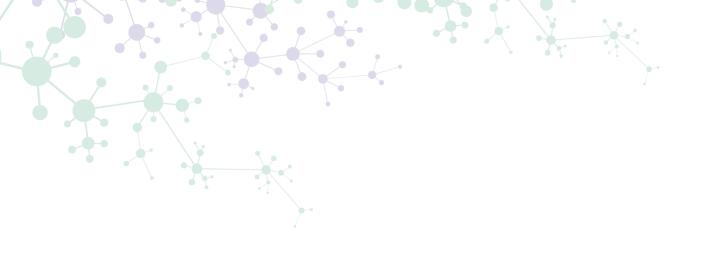
- Key Themes Discussed:
  - Education on COVID-19, including: a snapshot of Ontario ICU & the trajectory of COVID-19 cases in Ontario, top 5 things to know about COVID-19, and information patients with COVID-19 cardiac injury
  - Virtual care resource repository & Medly Information Session on logistics and costs of implementation
  - Advanced care planning and ways to support heart failure patient conversations during COVID-
  - Reviewed CorHealth COVID-19 Heart Failure Memo#1, released on CorHealth's COVID-19
     Resource Center, here: <a href="https://www.corhealthontario.ca/CorHealth-COVID-19-Heart-Failure-Memo1-Recommendations-for-Managing-Heart-Failure-During-Covid-19.pdf">https://www.corhealthontario.ca/CorHealth-COVID-19-Heart-Failure-Memo1-Recommendations-for-Managing-Heart-Failure-During-Covid-19.pdf</a>
- Meeting summary notes can be found on our website: <u>https://www.corhealthontario.ca/COVID-19-Heart-Failure-Stakeholder-Forum2-Meeting-Notes 01April2020.pdf</u>



### **Meeting Objectives**

- 1. Provide the opportunity for stakeholders to discuss and share what is happening locally in the Heart Failure Community, in the context of COVID-19
- 2. Provide global and provincial data on COVID-19
- 3. Provide information on home IV Lasix through Southlake's experience
- 4. Provide information on virtual care & heart failure through Ottawa's experience







# COVID-19: Provincial & Global Context

**DR HEATHER ROSS** 







#### Coronavirus COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins Universit...

**Total Confirmed** 1,464,852

Confirmed Cases by Country/Region/Sovereignty

US

Spain

Italy

France

Germany

China

Iran

**United Kingdom** 

Turkey

Belgium

Switzerland

Netherlands

Canada

Brazil

Portugal

Austria

Admin0

Lasi Updated at (M/D/YYYY)

Admin1

4/8/2020, 1:01:25 PM



Lancet Inf Dis Article: Here. Mobile Version: Here. Visualization: JHU CSSE. Automation Support: Esri Living Atlas team and JHU APL. Contact US. FAQ. Data sources: WHO, CDC, ECDC, NHC, DXY, 1point3acres, Worldometers.info, BNO, state and national government health departments, and local media reports. Read more in this blog.



Italy

France

22.717 recovered

19.523 recovered

9,800 recovered

6.776 recovered

Switzerland

New York City New York US

3,993 deaths

3.213 deaths

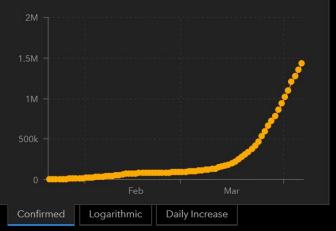
**Hubei** China

2,248 deaths

2.240 deaths

Netherlands

Iran



### Are cases growing at different rates in different countries?

The COVID-19 outbreak started in different countries at different times, and now those countries are at different stages. For instance, on 25 March, Italy had reported 74,386 confirmed cases, while the UK had only reported 8,077.

But it would be useful to know whether cases in the UK now are growing faster, slower, at the same speed as cases did in Italy when it had a similar number.

This chart is designed to allow these comparisons, by showing how quickly the number of cases in each country has grown since the 100th confirmed case. That gives a standard starting place for each line on the graph.

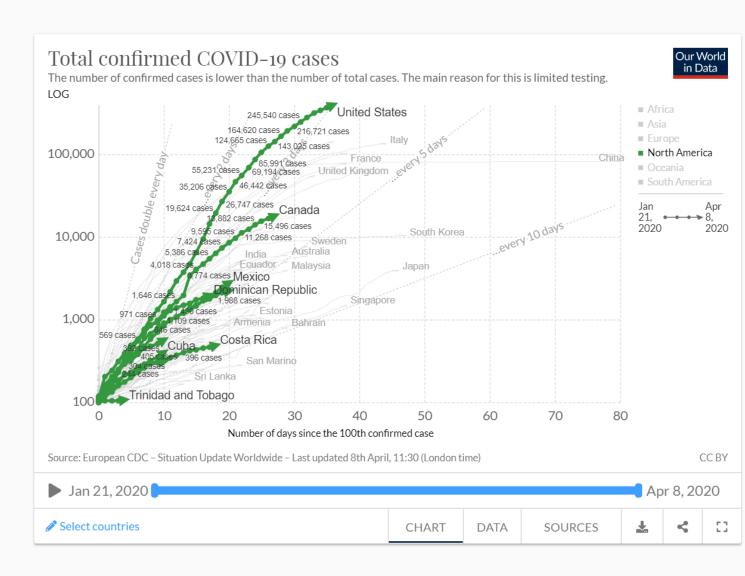
China had a particular fast rise. Just 10 days after the 100th confirmed case the country already confirmed the 10,000th case.

Other countries saw a much slower increase. The speed at which the number of confirmed cases increased in Singapore and Japan was much slower than in other countries.

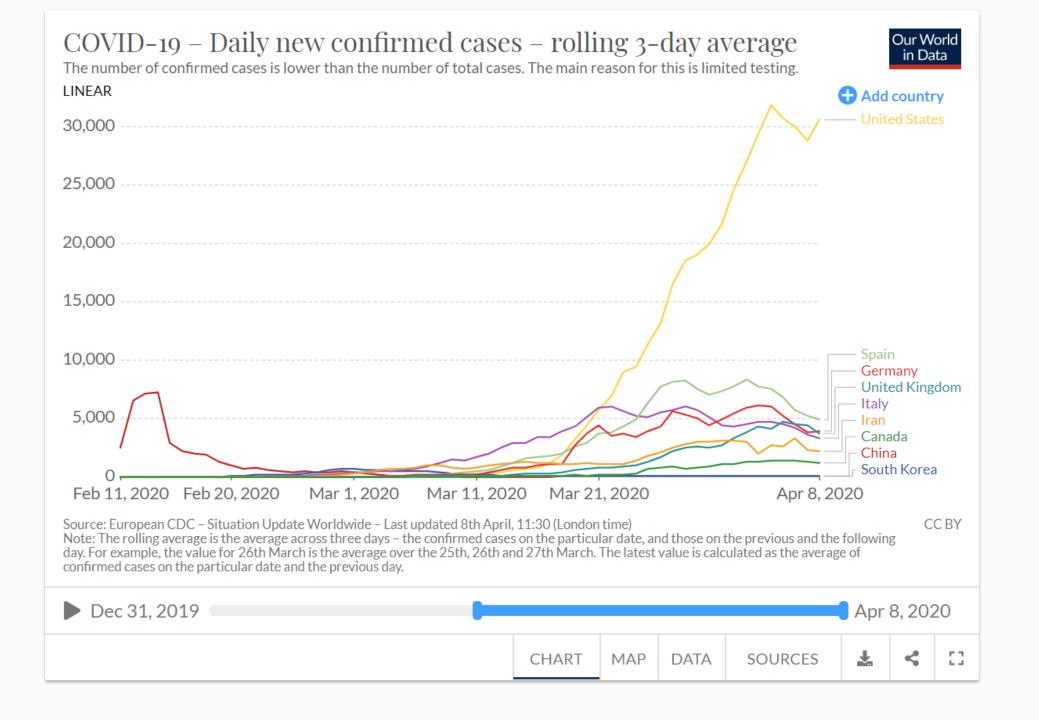
The straight grey lines show the trajectory for a doubling time of 2 days, 3 days, 5 days and 10 days. If a country's line on the chart is higher than those lines, then its number of cases is doubling faster than that.

The pathway of China and South Korea shows that the speed at which cases rise is not necessarily constant over time. Both countries saw a rapid initial rise but then implemented severe countermeasures (see here), and the pathway became flatter, meaning that the spread of the disease has slowed down.

**Relative to the size of the population:** We also show the trajectory of confirmed cases adjusted for population size – presented as the number of confirmed cases per million people. This is shown from the day that a given







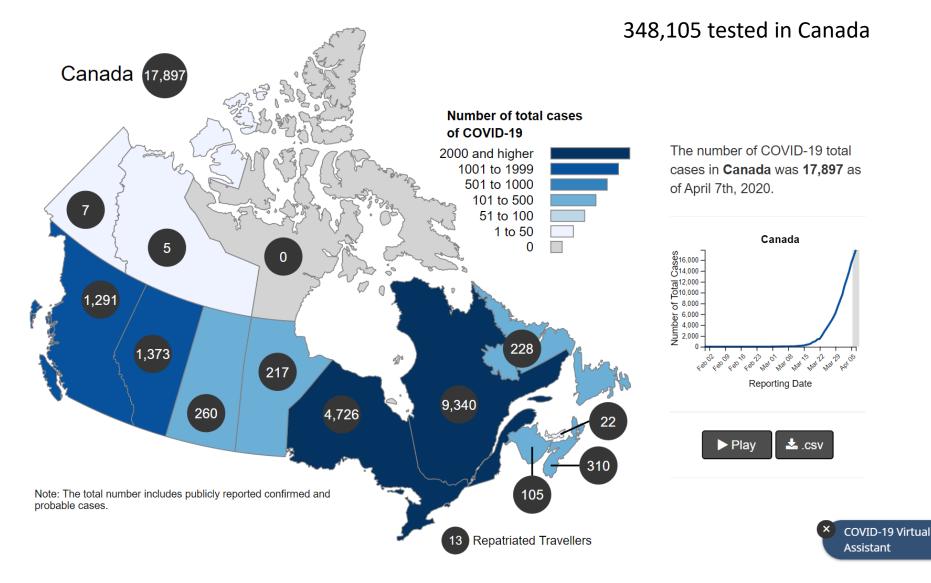


#### Number of COVID-19 Total Cases

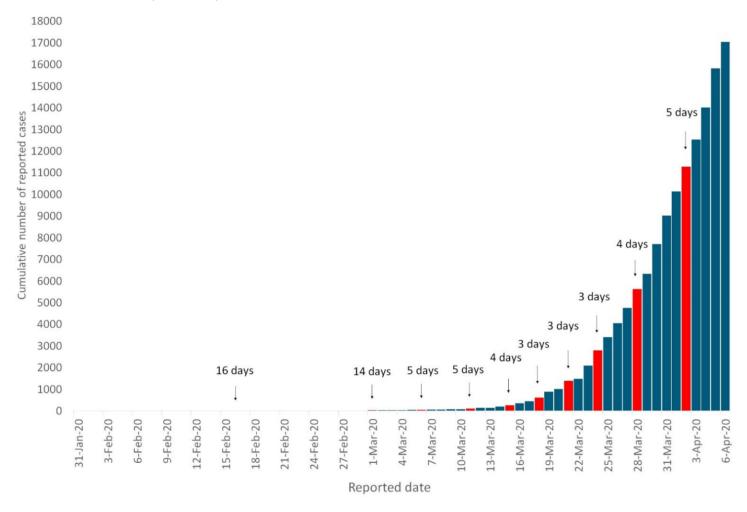
in Canada on April 7th, 2020

Last Data Update 2020-04-07 18:46 EDT

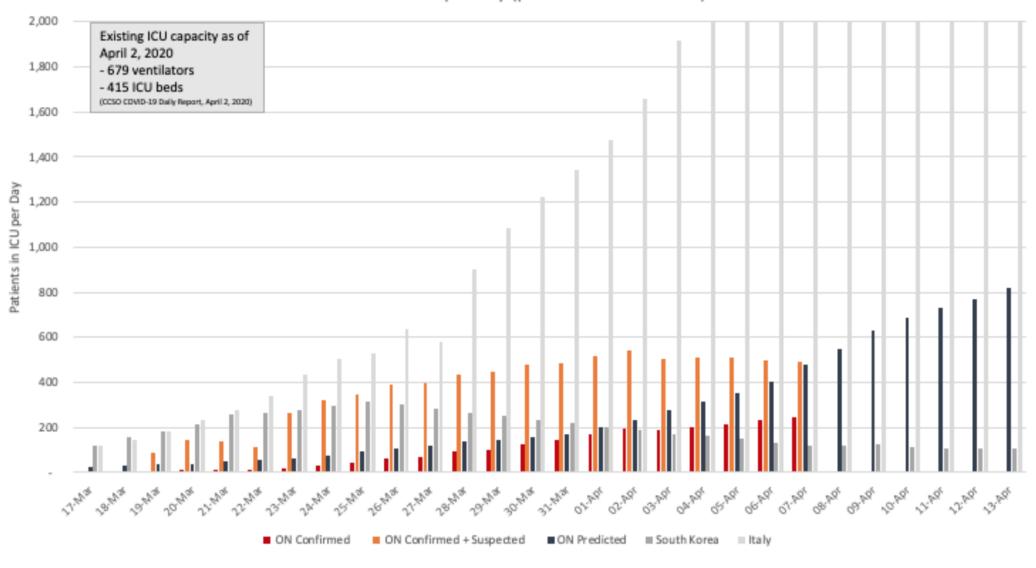
• Hover over provinces and territories to see cases over time or hit the play button to animate the map.



**Figure 2**. Doubling time of cumulative number of reported COVID-19 cases in Canada by date of report, April 7, 2020, 11:00 AM EST (n=17,046)



#### Patients in ICU per Day (predicted vs. observed)



### Summary of cases of COVID19 Ontario Jan 15 – March 30

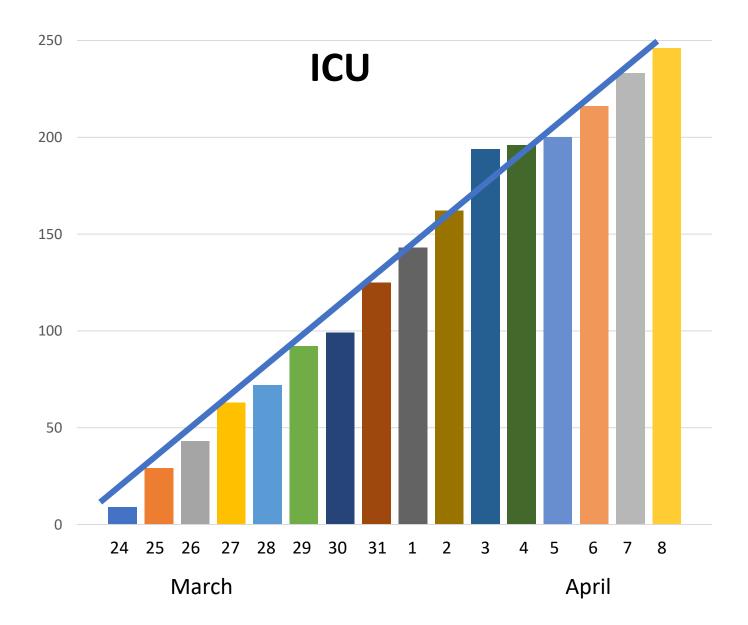
	number	%
Number tested	81,364	
Number of cases	4726	8.7% increase
Resolved	1802	
deceased	153	

### 38 total pts at UHN

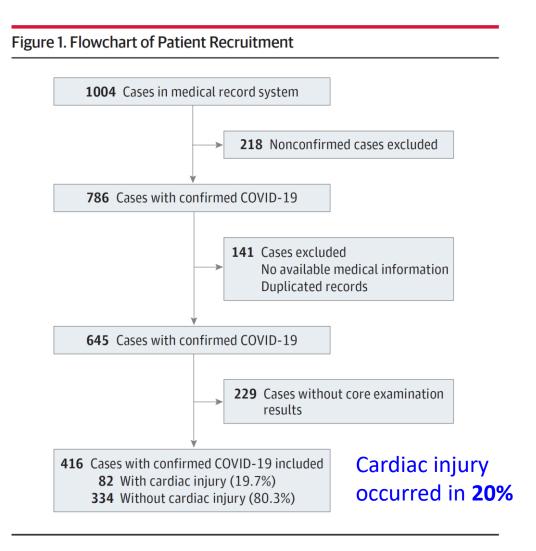
#### TODAY UHN → ICU 24

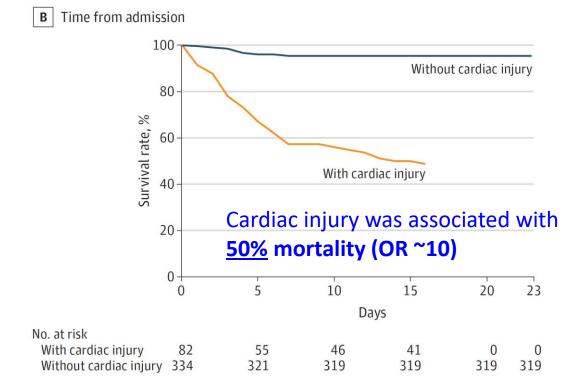
5 – ECLS4 dialysis





### Association of Cardiac Injury With Mortality in Hospitalized Patients With COVID-19 in Wuhan, China





**c** Comparison of outcomes

Mortal hazard: ~2 wk after sxs, ~1 wk after hospital admission

			Time from symptom onset		Time from admission	
	No. of events/ No. of patients	Duration, mean (range), d	P value log-rank	Duration, mean (range), d	P value log-rank	
With cardiac injury Without cardiac injury	42/82 15/334	15.6 (1-37) 16.9 (3-37)	<.001	6.3 (1-16) 7.8 (1-23)	<.001	





# Virtual Care & Heart Failure: Medly Update

**ALEX IVERSON** 





# Virtual Care & Heart Failure: Ottawa Experience

**ERIKA MACPHEE** 



# Cardiac Virtual Care

Erika MacPhee

**VP Clinical Operations** 



### WHAT IS TELEHOME MONITORING?

The Cardiac Virtual Care program at the University of Ottawa Heart Institute provides nursing support for cardiac patients who require assistance with medication management, fluid volume regulation, vital sign monitoring and patient education





### **TELEHOME MONITORING**

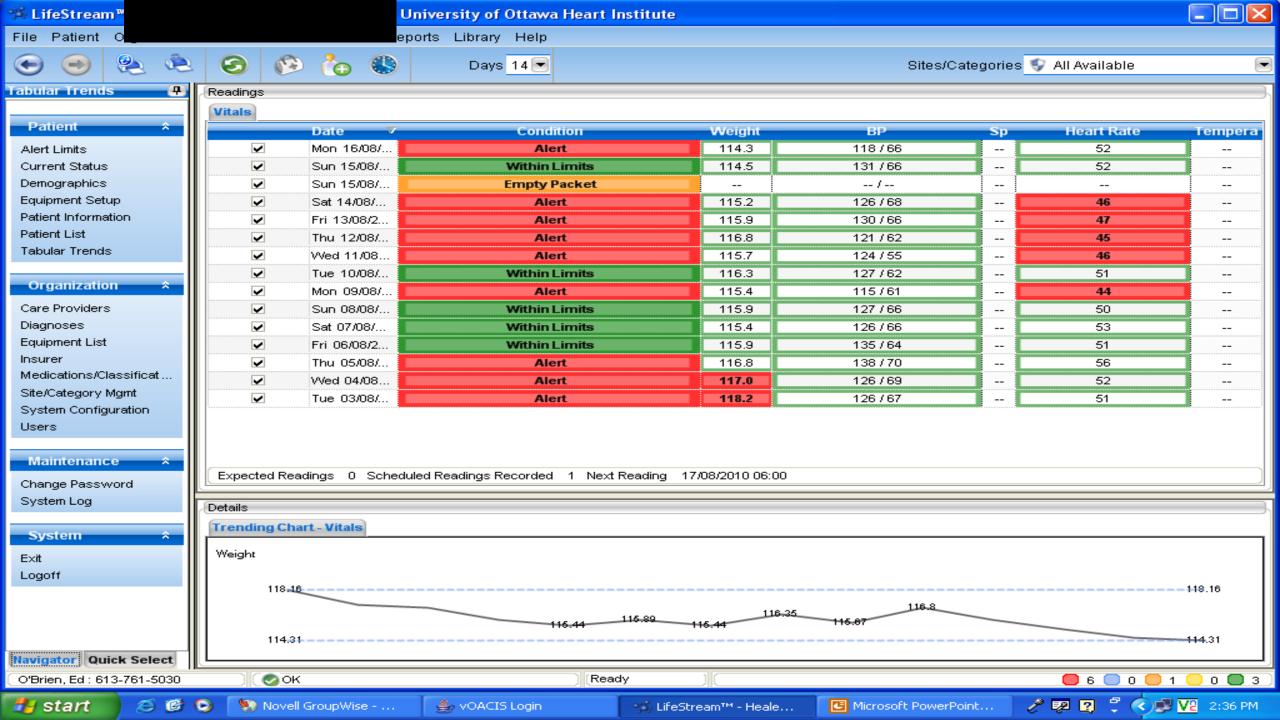












# **(1)**

### **UOHI MODEL**

- Uses an Acute Intervention Model
  - All patients are still being actively treated in additional to coaching
- Expert cardiac RNs provide care between medical visits
  - The program has medical directives for the acute care of patients
- Based on Transitional Care Model providing care after discharge when patients are at risk
- •All UOHI HCP can refer (MD order/referral required in community)
- No home visits
- No OHIP fees



### WHO SHOULD BE MONITORED?

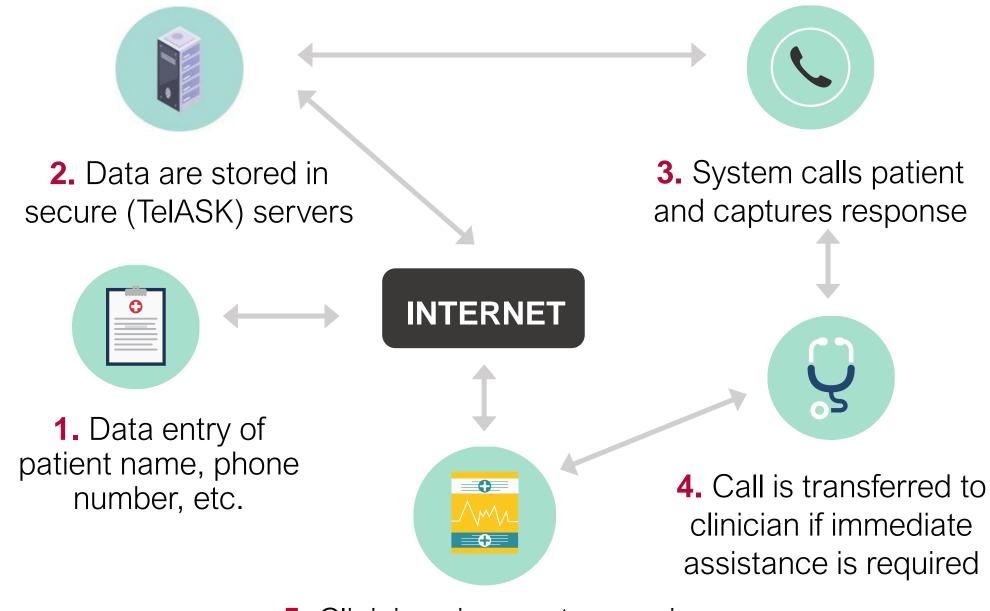
- •HF patients with 1 readmission /1 month or 2 / in 6 months (NYHA III/IV)
- Patients with new HF diagnosis
- Patients recovering from cardiac surgery
- Patients requiring VS, arrhythmia monitoring
- •Any cardiac patient requiring frequent monitoring or trending of information to facilitate optimal clinical management





### WHAT IS IVR AND HOW DOES IT WORK?

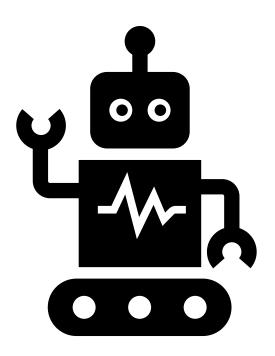
- A technology which uses the telephone system (land-line or mobile) to deliver a set of automated questions to patients who respond by voice or phone key pads
- The system dials patients on scheduled date & the text to speech engine personalizes the call
- The system asks questions in an algorithm using branched logic
- Patient responses are dropped into a database which also allows for documentation of assessments
- The system highlights issues that require further management by health care providers



**5.** Clinician views outcomes in real time or prints reports



### **QUESTIONS?**



emacphee@ottawaheart.ca

# Virtual Care & Heart Failure Questions

 Would anyone like to share their 'new' experience with virtual care during the COVID pandemic?

- What has gone well?
- Any challenges?
- Any lessons learned?







# Providing Ambulatory IV Lasix: Single Center Experience, Southlake

**MORGAN KRAUTER, NP** 

DR. LIANE POREPA, MD FRCPC

### Southlake Heart Function Program

- Providing ambulatory IV Lasix since 2010
- Long-term IV Lasix (average n= 50)
  - Average 6-8 weeks;
  - Longest x 14 months
- Short-term IV Lasix (average n = 1-2 /week)
  - 1-5 days
- Overall Mortality 27%
- Overall heart failure related readmission rate while on IV diuretic therapy (6%)



### **Patient Selection**

#### Clinical factors:

- History of diuretic resistance
- Cardiorenal dysfunction
- Right-sided heart failure

### Special populations:

- Long-term-care home patients
- Palliative patients who will not be returning to hospital



### Setting

#### Inpatient

• Goal is to shorten current admission and prevent future readmission

### Outpatient

- Resistant to maximized PO diuretic regimen (high dose furosemide, metolazone, bumetinide etc.)
- Anticipate that lack of urgent treatment will lead to admission



### **IV Lasix Considerations**

#### Setting for initiation

Inpatient vs Outpatient

#### Method

Bolus vs Continuous infusion

#### Access

• saline lock vs. Midline vs. PICC

#### Housekeeping issues:

- PICC insertion/removal\*
- Home care orders
- Weekly bloodwork



<sup>\*</sup>Access removed by home care nurse

### **Outpatient IV Lasix Monitoring**

- Regular communication (2-3x weekly x 2 weeks) between patient and HFC staff:
  - Patient is responsible for remote monitoring of weights and BP
  - Phone call to assess tolerance, weight loss, symptom improvement and need for dose titration\*
- Weekly lab monitoring; q2-4 weeks if on maintenance (>8 weeks)
- Slow titration off vs. abrupt discontinuation
- Weekly follow-up x 2 after discontinuation to ensure no rebound

\* labour intensive







## Open Forum Discussion & Questions

**DR. HEATHER ROSS** 

### **CCS- Guidance Document Update**



**April 7, 2020** 

#### **GUIDANCE FROM THE CCS COVID-19 RAPID RESPONSE TEAM**

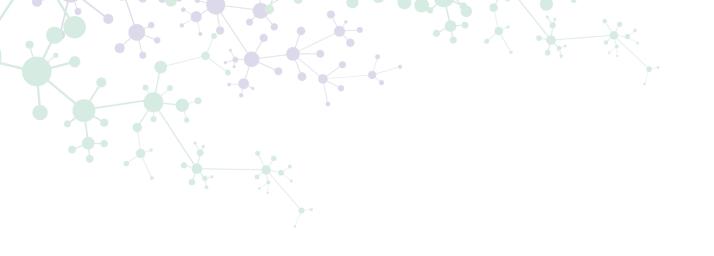
Management of referral, triage, waitlist and reassessment of cardiac patients during the COVID-19 pandemic

There is no clearly defined pathway to address how best to manage this escalating backlog of work for consultation, diagnostic testing, follow-up or access to cardiovascular procedures. Simple deferral is not acceptable, and robust processes over and above existing wait list management strategies are needed to ensure risk mitigation and to facilitate planning for resumption of full-scale activity. This document presents principles and guidance to effectively triage new requests for clinical assessments, diagnostic testing and therapeutic procedures, and implement new waitlist management systems with the goal of risk mitigation.

### Questions

- What has changed within your hospital / program over the last week related to COVID-19?
  - For example:
    - Has your referral criteria changed in response to COVID-19?
    - How are you managing new referrals?
    - How are you supporting post-hospital discharge high risk HF patients?
    - Are you involved in any early discharge initiative for HF patients in the setting of COVID-19?







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## **Next Steps**

**DR HEATHER ROSS/KAREN HARKNESS** 

### Next Steps & Wrap Up

- Next COVID-19 Heart Failure Stakeholder Forum Meeting
- CorHealth will be hosting a stakeholder forum to discuss issues related to the provision of rehabilitation during COVID-19: April 9, 3:00 – 4:00 pm
- CorHealth activities

- Are there other issues we should be considering / discussing?
- Are these meetings still helpful? How could they be more helpful?







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# Appendix



#### ONLINE **APRIL 17, 2020**

Virtual Paricipation

signed by Patients and Caregivers for Patients and Caregivers - Open to all -

FREE REGISTRATION AT: HeartLife.ca



#### **HEARTLIFE** Patient Education Day

Join us for our first annual patient education day hosted in collaboration with the Canadian Heart Failure Society. We have sessions from leading heart failure experts in Psychology and Cardiac Rehabilitation Registration. We are also co-hosting our first ever session with the Heart & Stroke Foundation on supporting the psychosocial needs of cardiac patients in light of COVID19.

Registration is FREE!

ACCESS PROGRAM PDF HERE

REGISTER HERE

2020 Agenda - i nday, April 17					
10:00 a.m. EST	Welcome				
	About the HeartLife Foundation				
	Jillianne Code, Ph.D				
	Marc Bains				

Abbott AstraZeneca

#### **PATIENT WORKSHOP 1**

2020 Agenda - Friday April 17

Heart Failure, Anxiety and Depression: Self-management Tools and Techniques 10:15 a.m.-11:00 a.m. Colleen Cannon, Ph.D

#### **PATIENT WORKSHOP 2**

Movin' and groovin': Exercise prescription in patients with heart failure @ home

Gordon Fogg

Karen Harkness, Ph.D 12:00 p.m.

11:15 a.m.-

#### **PATIENT WORKSHOP 3**

12:15 -HeartLife/Heart & Stroke Foundation joint workshop: Heart and Soul -Supporting Psychosocial Needs and Exploring the Heart - Brain Connection 1:00 p.m.

Cindy Yip, Ph.D

Jillianne Code, Ph.D

Q&A 1:15 - 2:00 p.m.

Lived Experience Virtual Reception



### CorHealth COVID-19 Resource Centre

- Accessible from the <u>CorHealth homepage</u>
- Updated twice a day at 10:30am and 5:30pm
- Includes:
  - General COVID-19-related documents
  - CorHealth Guidance Documents
  - Presentations & Summary notes from Cardiac, Stroke, and Vascular Forums
  - Cardiac-, Stroke-, and Vascular-specific COVID-19-related documents
- Organized from most recent resources at the top to oldest at the bottom of each page

#### **COVID-19 Resource Centre Sections**

**COVID-19 Resource Centre** 

CorHealth Guidance Documents

CorHealth Stakeholder Forum Meetings

**General Cardiac Resources** 

General Stroke Resources

General Vascular Resources

