



CorHealth COVID-19 Cardiac Stakeholder Forum Meeting #6

April 23, 2020 | 8:00-9:00 am

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

Conference ID: 986393473

Agenda

Description	Presenter / Facilitator	Time
1. Welcome <ul style="list-style-type: none">Meeting ObjectiveCOVID-19 System Planning Updates	Sheila Jarvis Dr. Madhu Natarajan	08:00
2. Cardiac Work streams update	Dr. Madhu Natarajan	08:05
3. CORE Cardiac Submodule Update <ul style="list-style-type: none">PPE	Dr. Harindra Wijesundera	08:25
4. Insights from the Field	All	08:35
5. Other Updates and Next Steps	Jana Jeffrey	08:55



Welcome

SHEILA JARVIS

DR. MADHU NATARAJAN

Meeting Objectives

1. To provide updates on cardiac work streams
2. To provide latest outputs from the CORE cardiac submodule, including a discussion of PPE use
3. To facilitate discussion and sharing among Forum members of experiences, challenges and solutions during COVID-19

COVID-19 System Planning Updates

1. **COVID Surgical Services Pandemic Advisory Panel** – Chair Dr. Jon Irish

- CorHealth was actively participating in the COVID-19 Surgical Services Pandemic Advisory Panel
- Recommendations have been submitted and will likely be aligned to the report Dr. Chris Simpson is developing (see below)

2. **Surgical/Procedural Ramp Up Committee** – Chair Dr. Chris Simpson

- CorHealth, Dr. Madhu Natarajan (Chair of the Cardiac Leadership Council), Dr. Sudhir Nagpal (Chair of the Vascular Leadership Council), Dr. Harindra Wijeyesundera (CORE Cardiac Module) are meeting with Dr. Simpson twice a week for the short-term
- The Committee will be providing a report to the MOH and Ontario Health in the coming week(s) about an approach to ramping up procedures and surgeries



Cardiac Work Streams Update

DR. MADHU NATARAJAN

Cardiac Workstreams Update

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



Outpatient Cardiovascular Rehabilitation Update

DR. PAUL OH

Context

- The COVID-19 pandemic is creating an evolving healthcare landscape and impacting how **rehabilitation** care for cardiac, stroke and vascular patients is being delivered.
- Rehabilitation care across the continuum has been raised by our cardiac, stroke and vascular stakeholders as a key area for further discussion.
- On April 9, CorHealth led a stakeholder forum across our clinical domains to discuss issues related to the provision of rehabilitation during COVID-19.

Key challenges identified by CR stakeholders

System

- Fewer options for in-person outpatient CR as access becomes restricted or unavailable
- Lack of rehabilitation providers due to redeployment directive

Provider

- Variability in available technology and experience to deliver virtual rehabilitation
- Patient intake and discharge processes without on-site visits
- Delivering virtual care from staff home-working environments (e.g., access to patient charts/EMR, documentation, privacy concerns)
- A change in workflow to deliver care to current volume of patients 1:1 virtually instead of in group exercise classes

Patient

- Varying circumstances for patients to participate in virtual rehabilitation (e.g., technology availability/connectivity, patient experience with technology, language and other barriers, caregiver requirements)
- High needs for support in uncertain times (e.g., limited access to usual healthcare providers, heightened anxiety, reluctance to seek care, behavioural attrition)

Development of a guidance document/memo

- Initial engagement with the outpatient cardiovascular rehabilitation (CR) community has identified the need for a provincial guidance document/memo to provide recommendations on the delivery of virtual outpatient CR programming in the COVID environment.
- A working group of CR stakeholders is meeting this Friday, April 24 to share input and expertise to support its development.
- The guidance document/memo will align with the existing [Standards for the Provision of Cardiovascular Rehabilitation in Ontario](#).
- It will then be shared with the broader outpatient CR stakeholder community at a provincial forum in the near future for feedback.
- An update on this work will be provided at a future COVID-19 Cardiac Stakeholder Forum.
- Of note, CorHealth and its stroke stakeholders have developed a [CorHealth COVID-19 Stroke Memo #2- RECOMMENDATIONS FOR AN ONTARIO APPROACH TO THE PROVISION OF STROKE REHABILITATION DURING COVID-19](#), now posted on the CorHealth COVID Resource Centre.

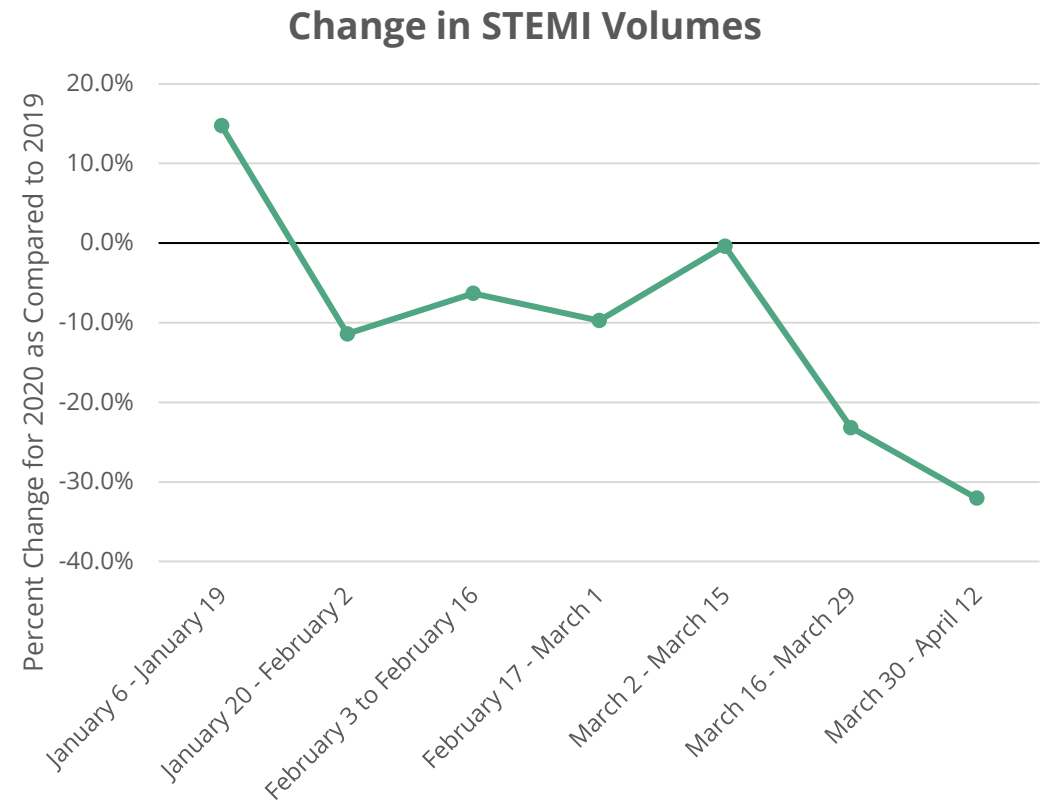
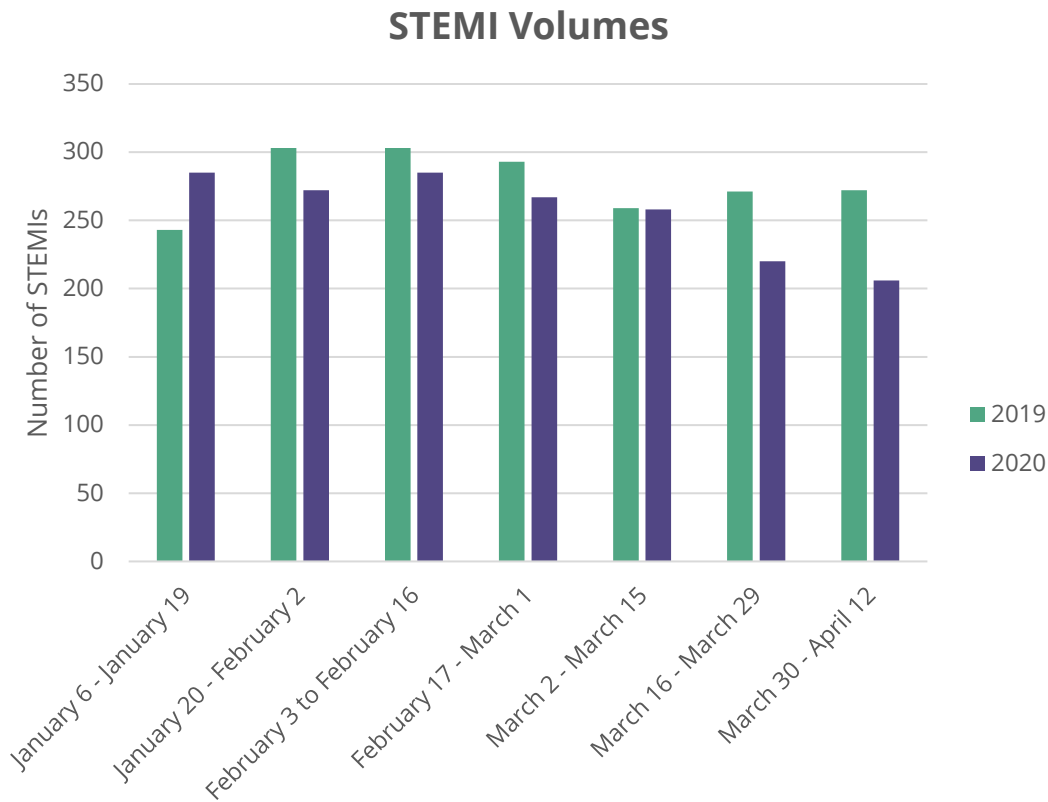
Cardiac Workstreams Update

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CV Surgery PCI/Cath	Dr. Chris Feindel Dr. Eric Cohen
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STEMI Update

Change in STEMI Volumes – Comparison of 2020 to 2019



Data are from the CorHealth Cardiac Registry; Data represent all referrals for either a coronary angiogram, a percutaneous coronary intervention (PCI) or a coronary artery bypass (CABG) surgery with a primary referral reason of STEMI

Key Message for the Cardiac Population

- Patients are more fearful of contracting COVID-19 than consequences of cardiovascular disease
- Important to reinforce the need to seek medical attention if they have unstable cardiac symptoms

Most of us are worried about COVID-19, but...

**DON'T IGNORE HEART SYMPTOMS,
ESPECIALLY IF YOU HAVE A HEART CONDITION.**

Symptoms of a Heart Attack

- Chest pain
- Difficulty breathing
- Discomfort in your chest, arms, back, neck, shoulder or jaw



Call 911 if you think you are having a heart attack.

Heart attacks don't stop during a pandemic.
Hospitals have safety measures to protect you from infection.

Have questions about COVID-19 and your heart condition?
Need a health visit? Don't delay your routine care.
Call your doctor for advice or to book a telephone appointment or a virtual visit using telehealth.

Canadian Association of Interventional Cardiology  Association Canadienne de cardiologie d'intervention  **Canadian Cardiovascular Society**

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Electrophysiology Update

Electrophysiology Update

- CORE Cardiac Submodule update

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CORE Cardiac Submodule Update

DR. HARINDRA WIJEYSUNDERA

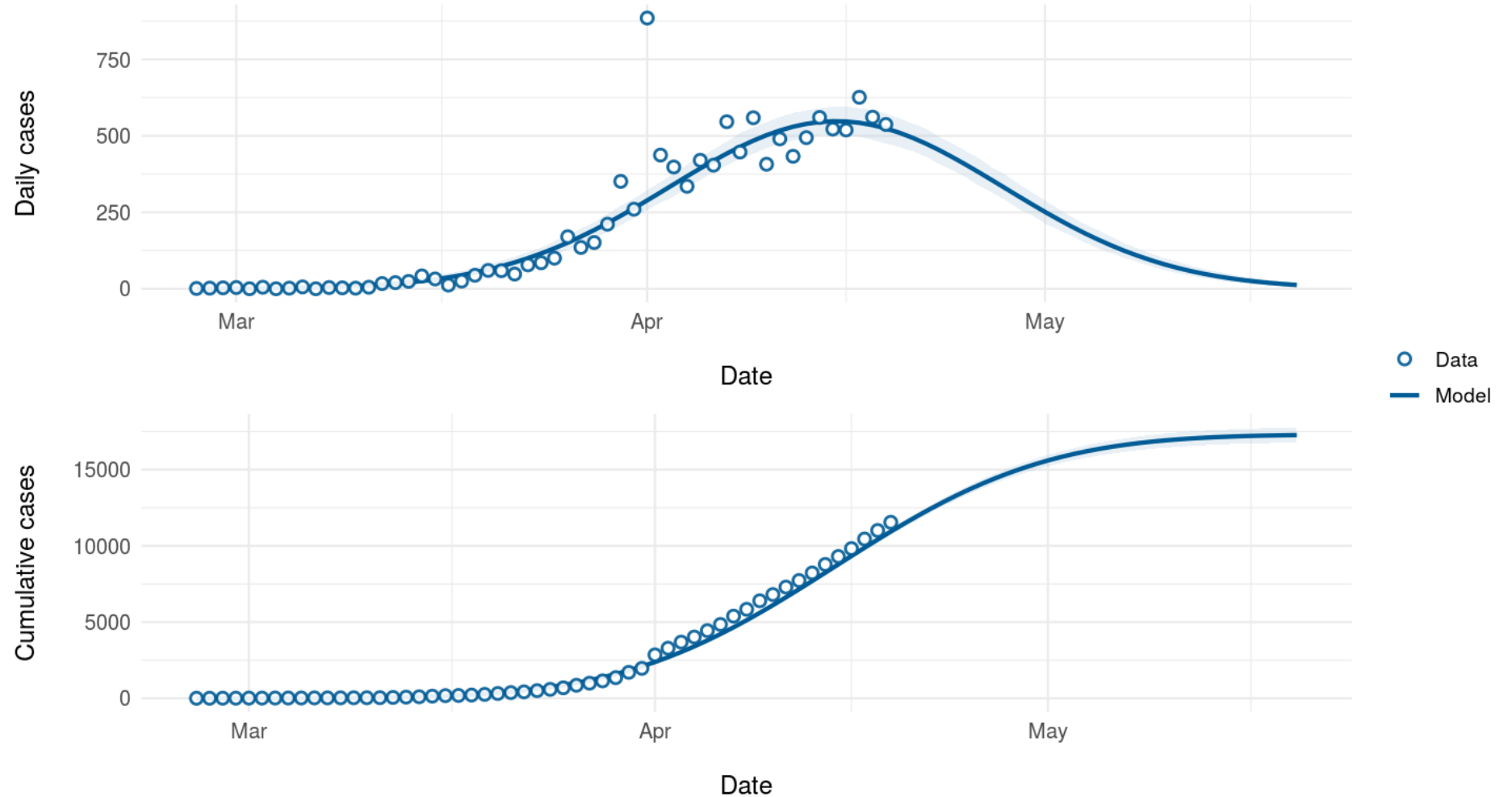
Outline

- COVID pandemic epidemiology projections
- CORE model COVID resource projections
- Cardiac Submodule of CORE
 - i. Procedures done and projected to May 3, 2020
 - ii. Consequences of slow down
 - i. Incremental wait-list growth
 - ii. Wait-list Mortality
 - iii. PPE use to May 3, 2020

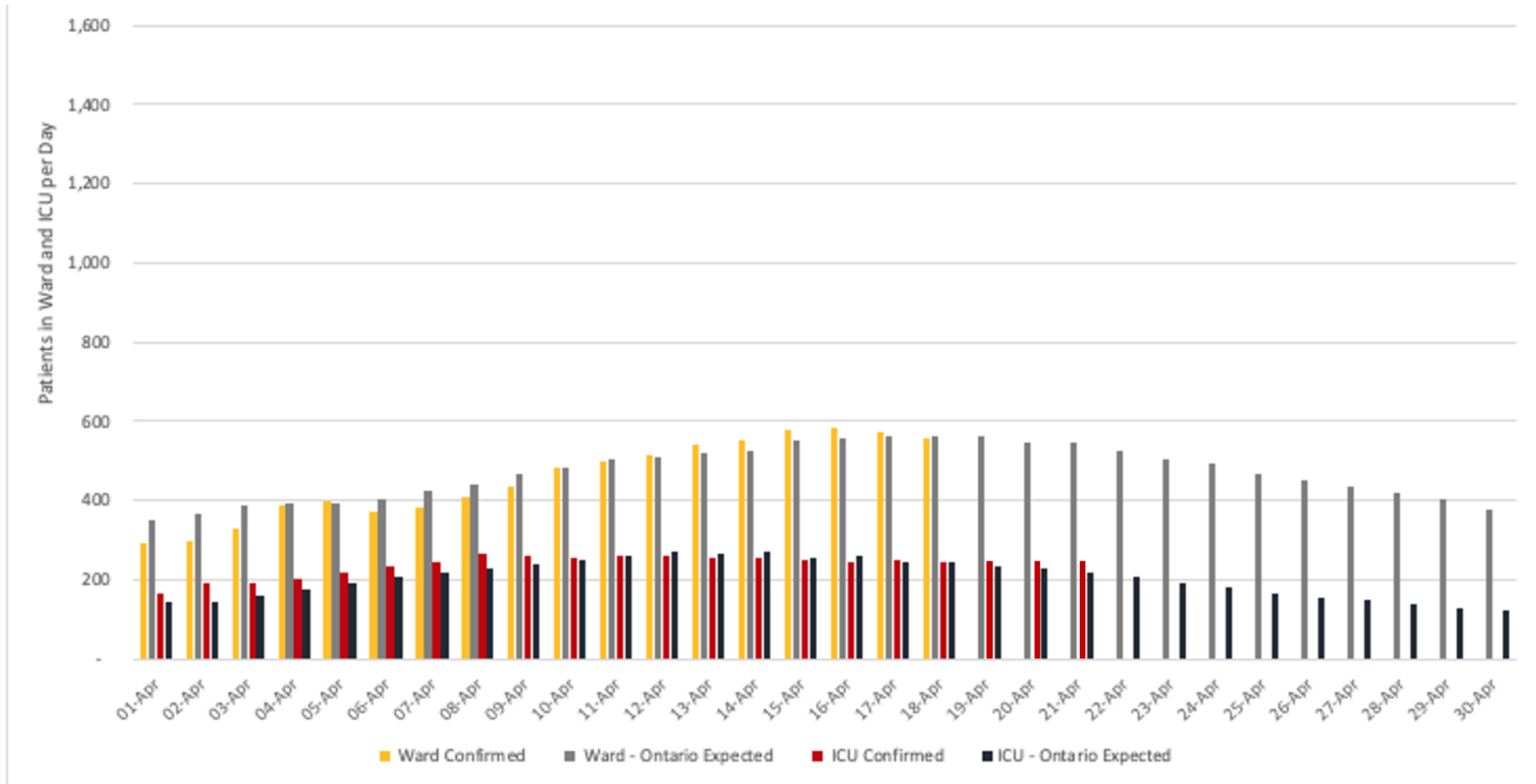
COVID Epidemiology

- IDEA model

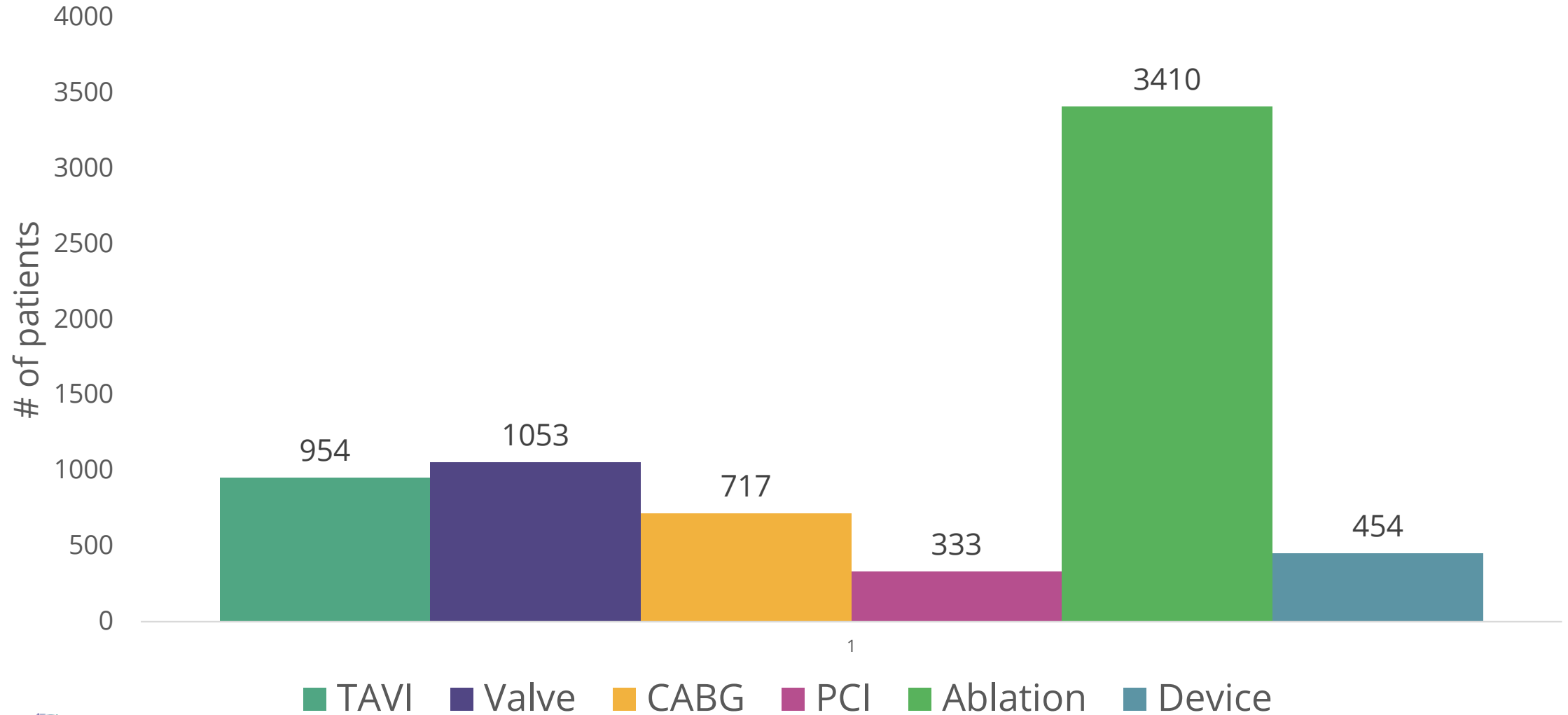
https://art-bd.shinyapps.io/Ontario_Health_Unit_IDEA_model/



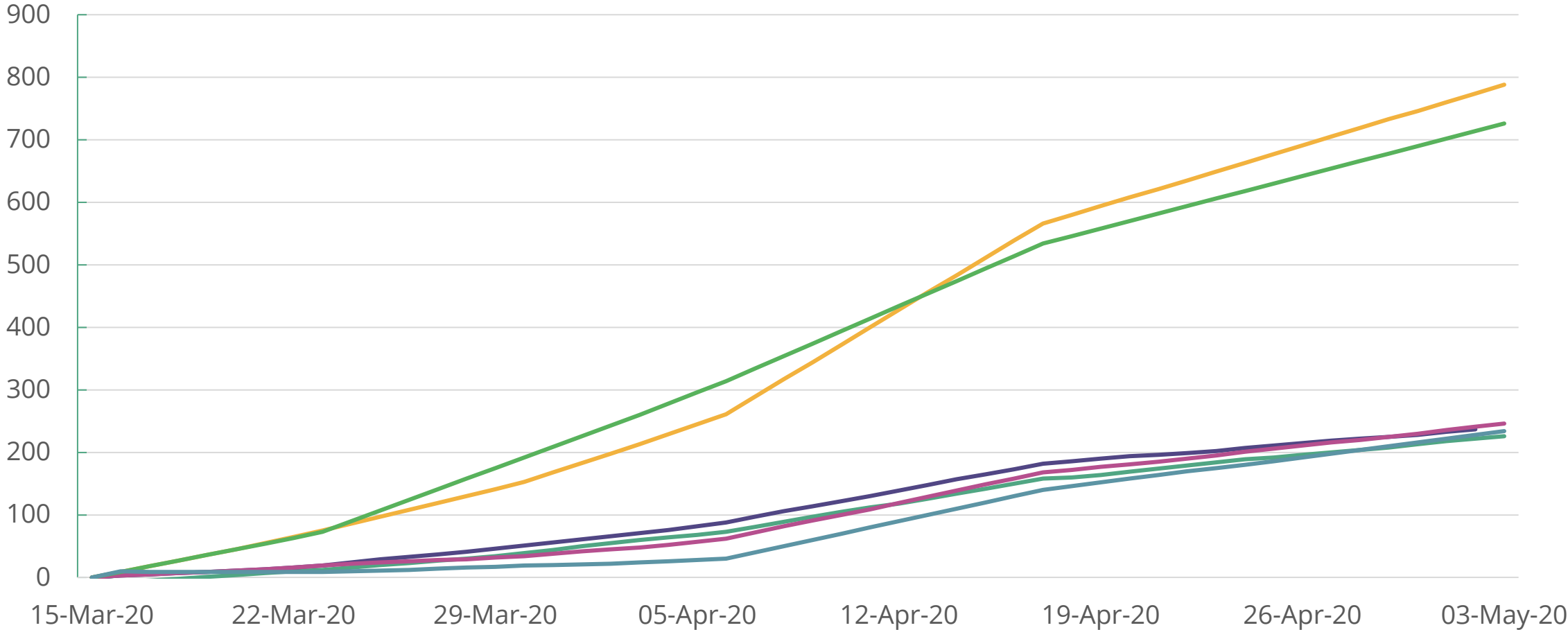
CORE model projections for COVID resources



Wait-list for Scheduled Outpatients as of March 15, 2020

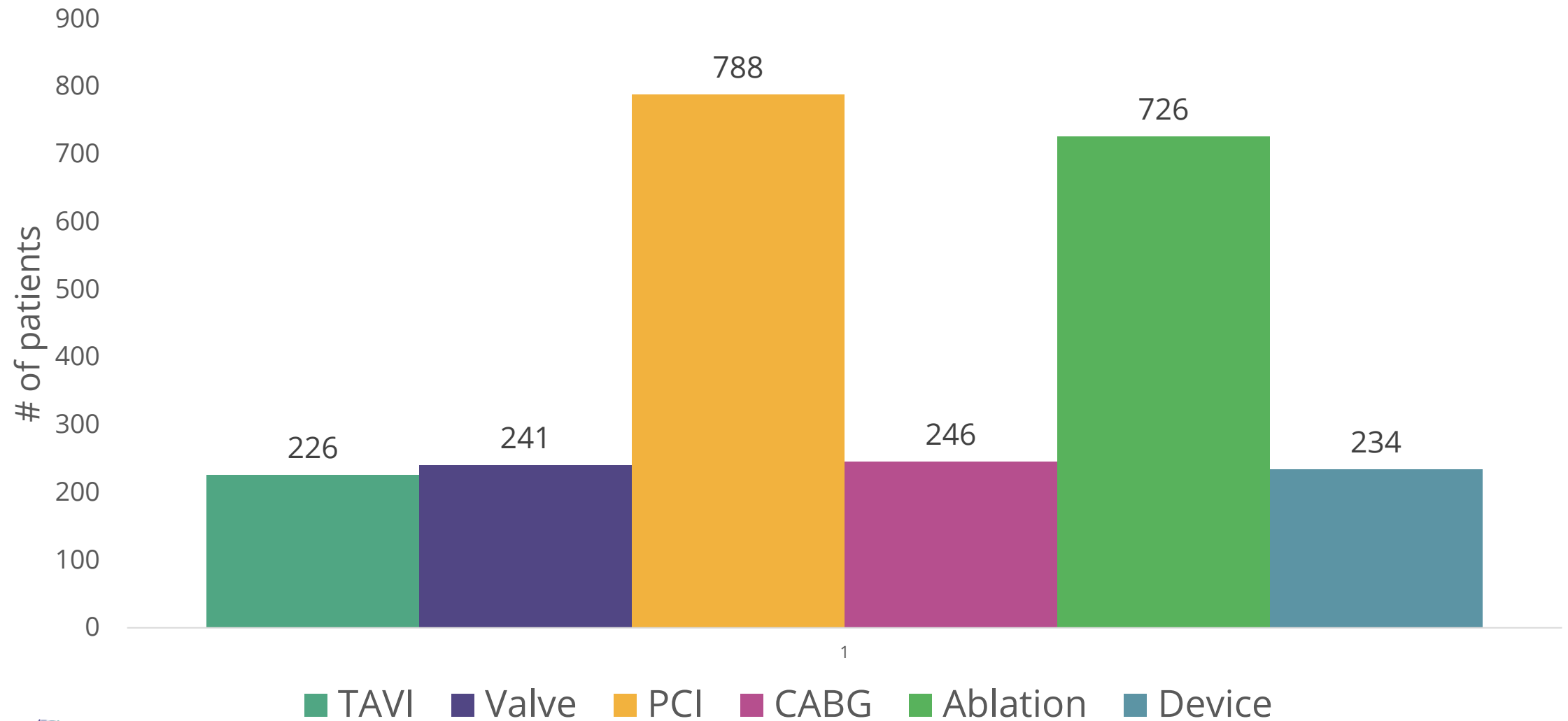


Waitlist Growth of Scheduled Outpatient Cases

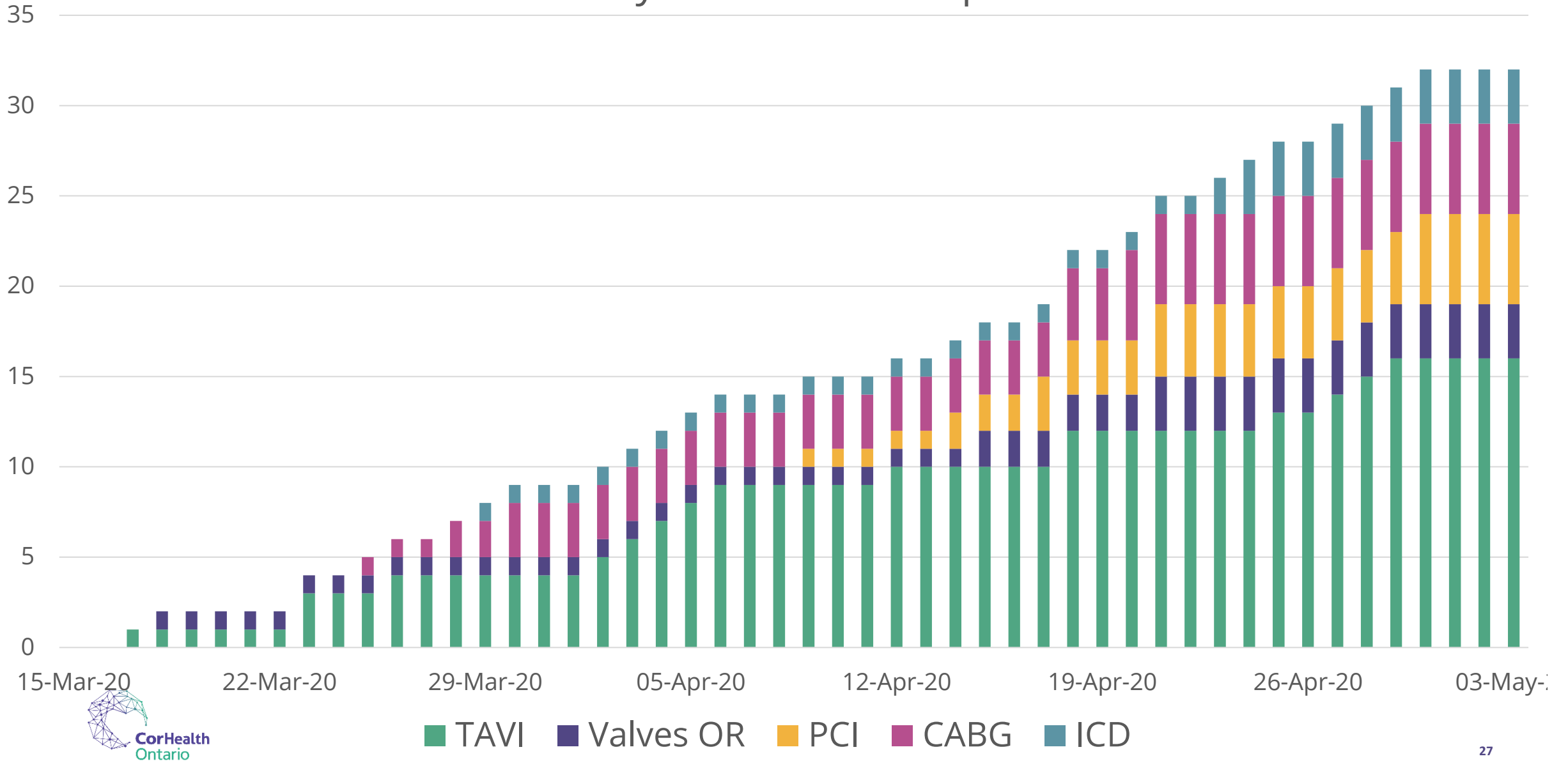


—TAVI —Valves OR —PCI —CABG —EP —ICD

Anticipated Incremental Wait-list for Scheduled Outpatients as of May 3, 2020



Cumulative Mortality : Scheduled outpatient cases



Survey of PPE: assumes all COVID -ve

	N95	Surgical mask	Face/eye protection	Gown	Gloves (pairs)	Number of people per case
CABG + valve	N95 for 3.	7	10	10	10	4 MD, 3 RN, 1 AA, 1 anesthesia, 1 perfusion
TAVI	N95 for 3	7	10	10	10	3 MD, 5 RN, 1 AA, 1 anesthesia
PCI	1* (only one hospital reports that MD uses N95)	3	3*	3	3	
Device	0	4	4	4	4	
EP ablation	0	4	4	4	4	

PPE requirements for all Cardiac cases (urgent and scheduled): during slow down March 15-May 3

Surgical Mask	14,783
N95	8,127
Gloves	45,820
Face Shield	22,910
Gown	22,910

Assumes no PPE conservation approach

Table 2: Total PPE requirements for the Ontario acute care setting for suspected and confirmed COVID-19 patients (April 6-May 6, 2020)

Type of PPE	10 Day (April 6-15)	30 Day (April 6-May 6)
Surgical Mask	2,593,919	5,727,636
N95	610,582	1,527,088
Gloves	10,689,279	27,809,859
Gloves (extended)	18,521	37,844
Face Shield	3,195,240	7,235,802
Face Shield with drape	9,261	18,922
Gown	3,204,500	7,254,724

Ongoing work

- Ramp up scenarios
 - Time to clear backlog of incremental scheduled outpatients from May 3rd, 2020
 - Cardiac ICU/vent/ward resources required



Insights from the Field

DISCUSSION

Discussion Questions

- Are any sites in communication with their regional COVID planning tables?
- What priorities should be considered over the next 1-2 weeks?
- Are there any other emerging issues or considerations from the field?



Other Updates and Next Steps

JANA JEFFREY

Other Updates and Next Steps

- This week's cardiac report has been circulated
- Next COVID-19 Cardiac Forum Meeting: Thursday, April 30, 2020; 8:00-9:00 am