### DCCM COVID-19 Town Hall

April 22<sup>th</sup>, 2020







## Welcome/Ground Rules

- Welcome
- Webinar Format
  - Host and panelists
  - Audience participation/Chat

## Agenda

- COVID-19 Dashboard
- Provincial CCSCN Update Provincial Webinar
- "Just in Time" Emerging COVID literature
- COVID-19 Phenotypes and approaches
- Questions



## COVID-19 Dashboard

Dan Niven

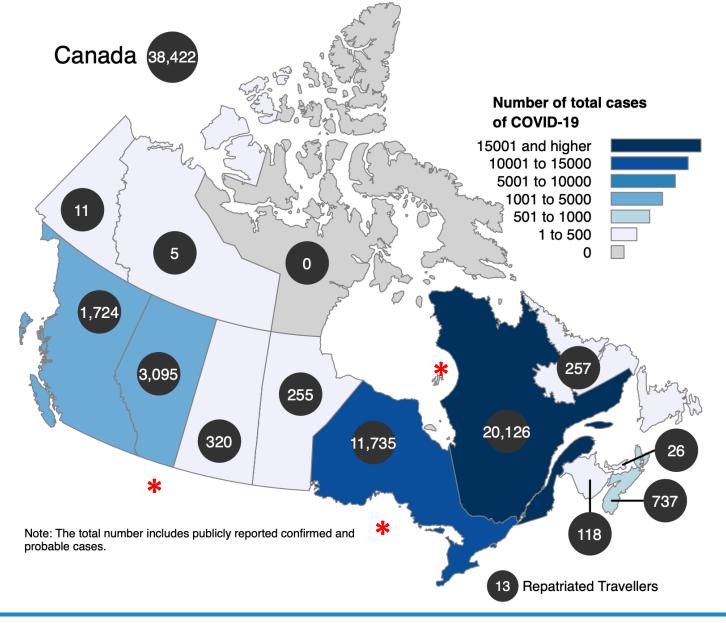
Sources of Information up to April 14:

https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection.html#a1

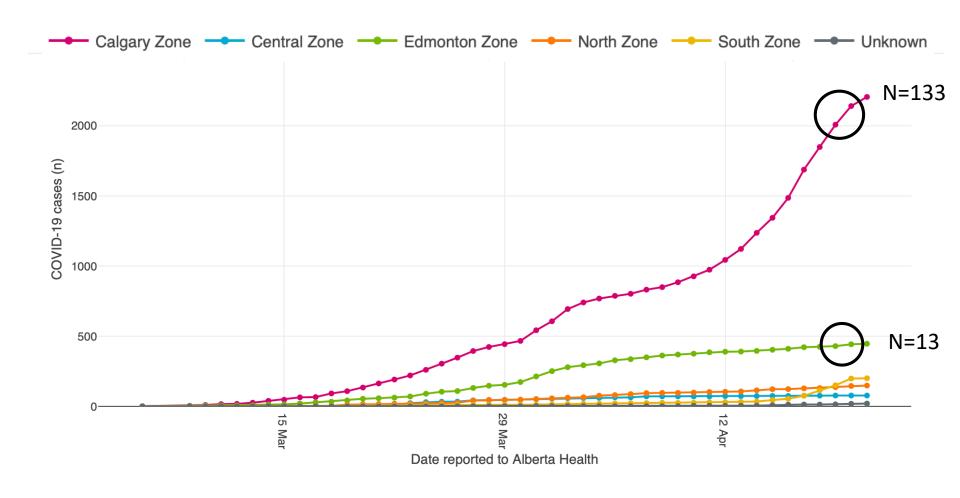
https://www.alberta.ca/covid-19-alberta-data.aspx

https://www.alberta.ca/assets/documents/covid-19-case-modelling-projection.pdf

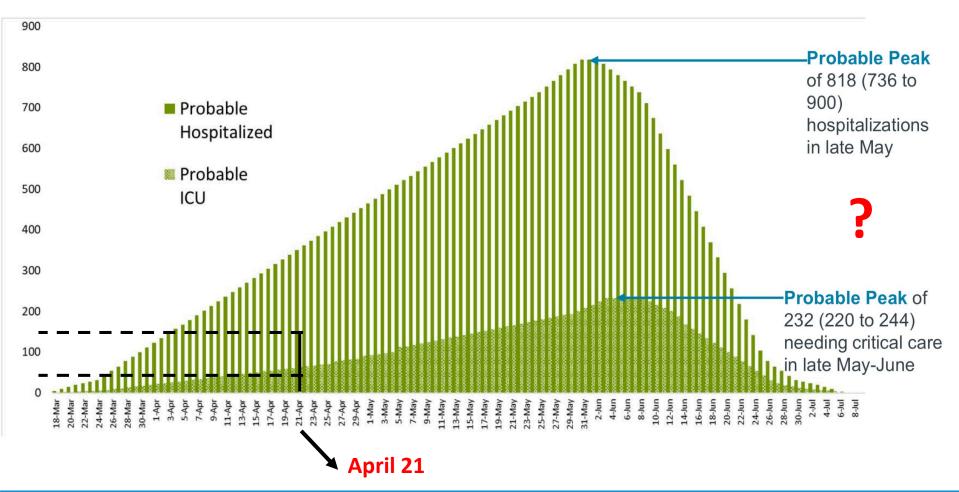
#### **APRIL 21**



## Alberta April 21 – 3,095 Cases



## April 21 Data Mapped to Probable Scenario Model



# Critical Care SCN COVID Update



Critical Care Strategic Clinical Network.

#### **Provincial Webinar**

- Date: Thursday April 23rd
- Time: 2:30 -3:30
- Zoom invitation sent via email last week
- Registration:

https://albertahealthservices.zoom.us/webinar/register/WN d-D5j qCRtSRJSZtXacXFQ



Alberta Health Inspiring solutions.
Services Together.



## COVID-19 Critical Care Literature Update

Literature published up to April 10, 2020 Dan Niven and Chip Doig

## ST-Segment Elevation in COVID-19

 Yes, we are presenting this again...there's new data intensivists need to be aware of

- Reminder of local experience
  - PLC ICU
  - 3 COVID-19 admissions experienced ST-segment elevation (STE) – all male > 50 years of age with comorbidities...All 3 with died

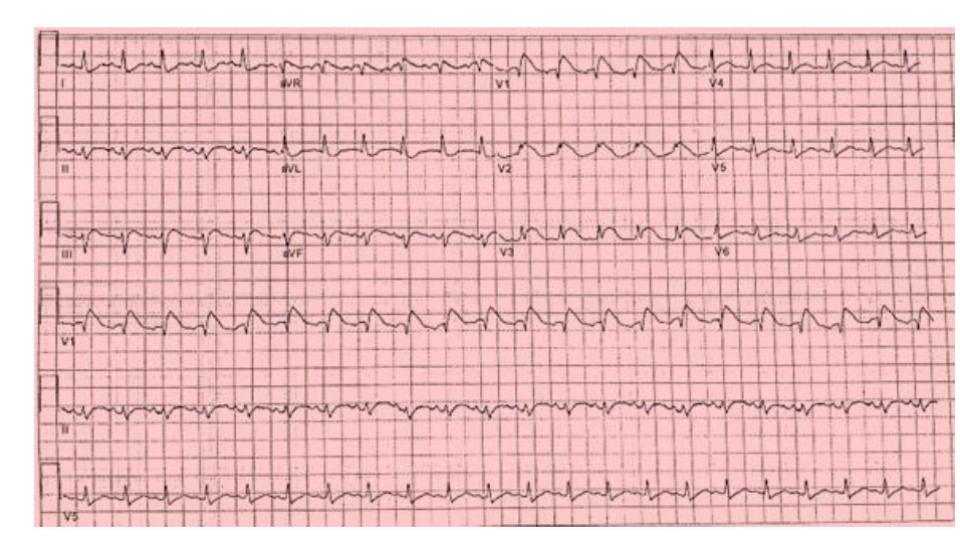
#### CORRESPONDENCE

## ST-Segment Elevation in Patients with Covid-19 — A Case Series

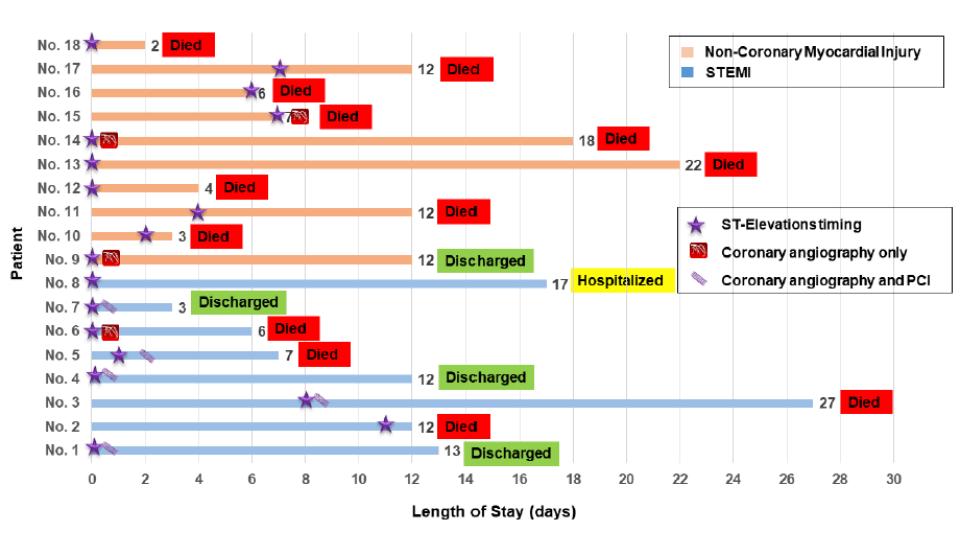
- 18 patients with COVID-19 and ST segment elevation
- Admitted to one of 6 hospitals in NYC
- Median age 63; 15/18 (83%) male sex
- N = 12 intubated; n = 7 had shock

• N = 14 (78%) focal ST segment elevation

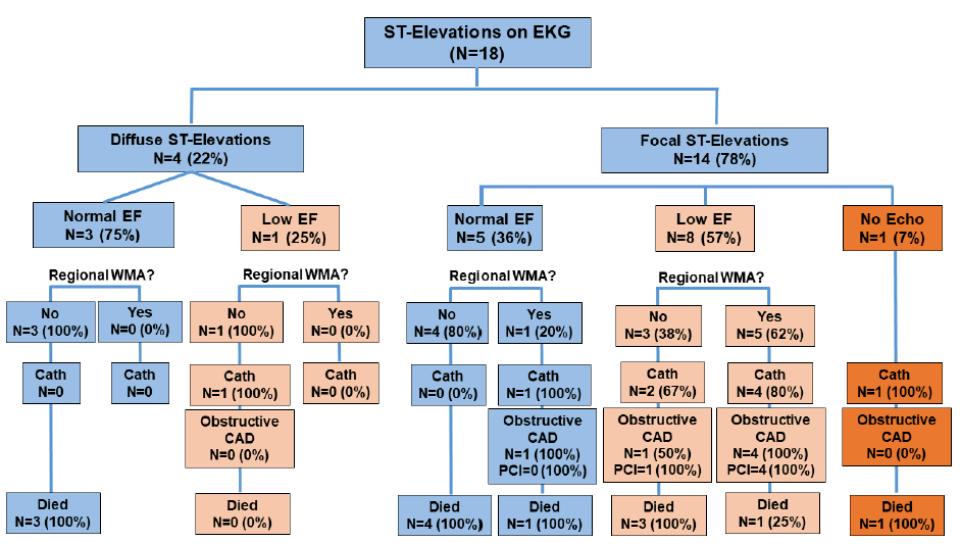
#### Patient #16











Normal EF: 8/8 died (100%)

Low EF: 4/9 died (44%)



## Implications of ST-Segment Elevation in COVID-19

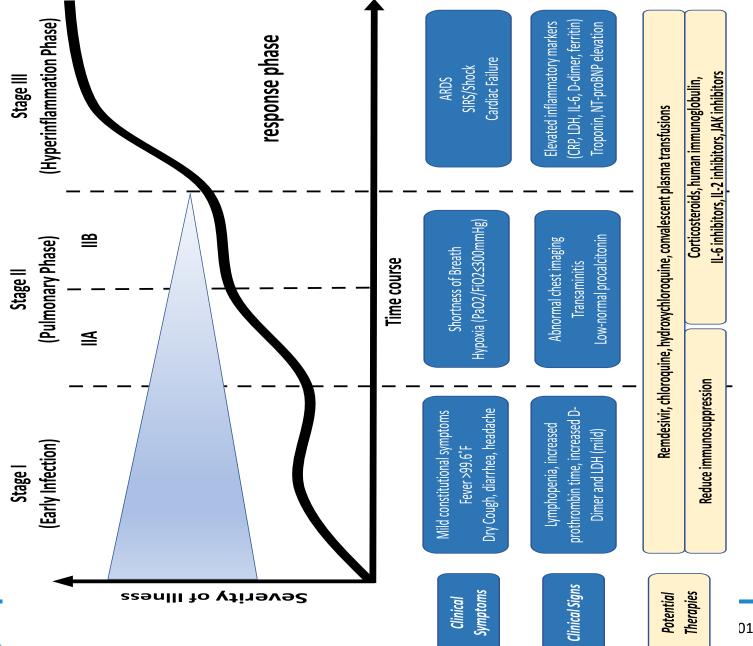
 Mechanism of STE in COVID-19 not clear, but not an uncommon complication esp. in severe illness

- Focal STE is most common observation
  - Traditional STEMI vs noncoronary myocardial injury
- HIGH MORTALITY!...13/18 died (72%)
  - Normal EF NOT protective all 8 died...

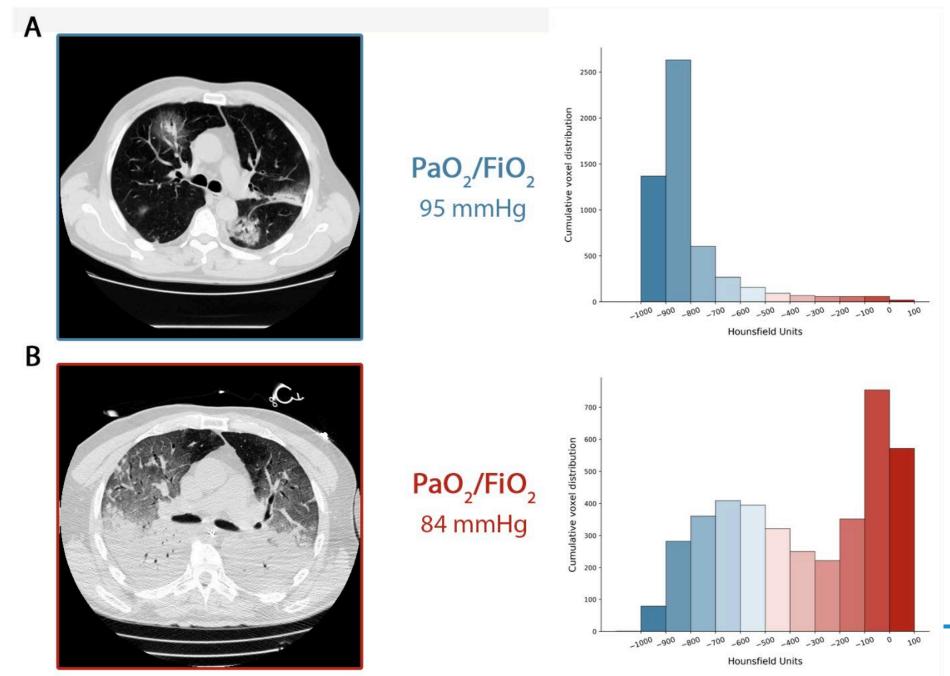


# COVID-19 Phenotypes and Proning

Jonathan Gaudet and Ken Parhar



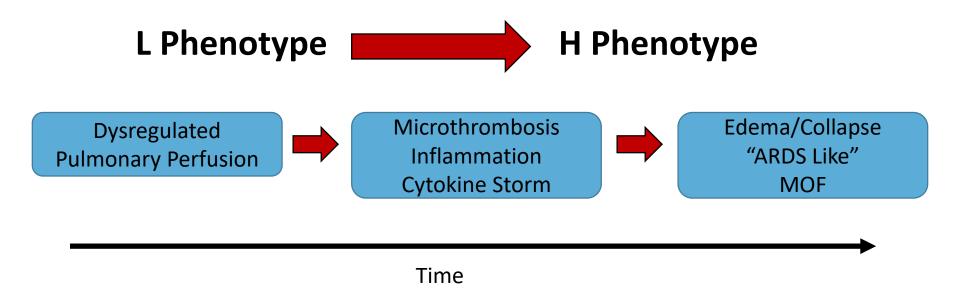




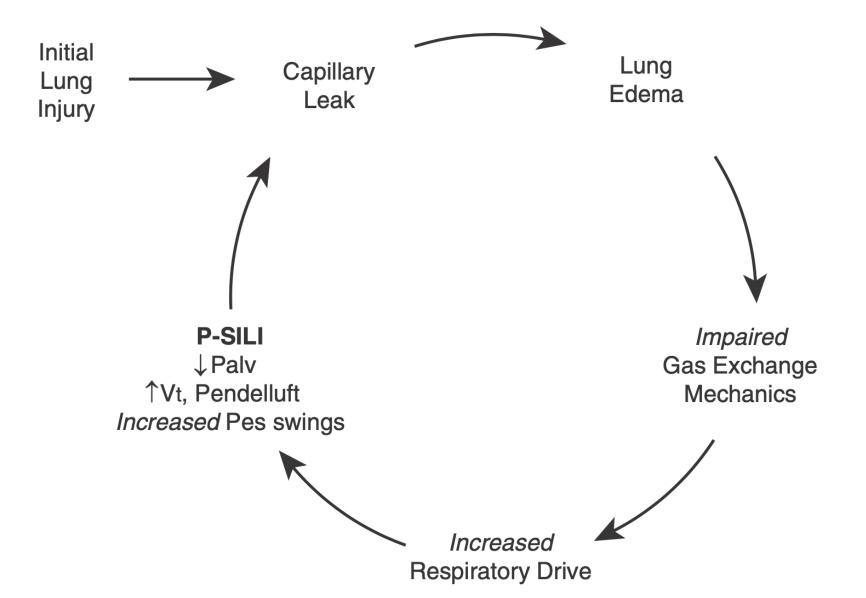
## **COVID-19 Phenotypes**

- Low Elastance
- <u>L</u>ow V/Q
- <u>L</u>ow recruitability
- <u>Limited "PEEP response"</u>

- High Lung Elastance
- <u>H</u>igher Recruitability
- High R to L Shunt
- Higher "PEEP Response"







## **Implications** of COVID Phenotypes

- Hypothesis
- Spectrum of disease exists
- Evolution over time
- Individualized care:
  - Understand patient physiology
  - Clinical trajectory important
  - Not a "one-size-fits-all" approach

## Upcoming Town Halls...

- What do you want to learn next?
  - Autopsy case series
- What are the emerging issues we need to address as a Department?

- Send ideas and thoughts to:
  - Jon Gaudet, Dan Niven, Chip Doig, Amanda Roze

### Care for all patients

We aim to provide all patients with the care they need

## Safety for all staff

We aim to protect all team members from SARS-CoV-2





