



OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

#OHDSICOVID19

OHDSI COVID-19 International Study-A-Thon

Follow our
COVID19 Updates

[www.ohdsi.org/
covid-19-updates](http://www.ohdsi.org/covid-19-updates)

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#JoinTheJourney

The meeting will begin shortly.

**Collaborating to design and execute observational research and
generate real-world evidence to inform the global pandemic**

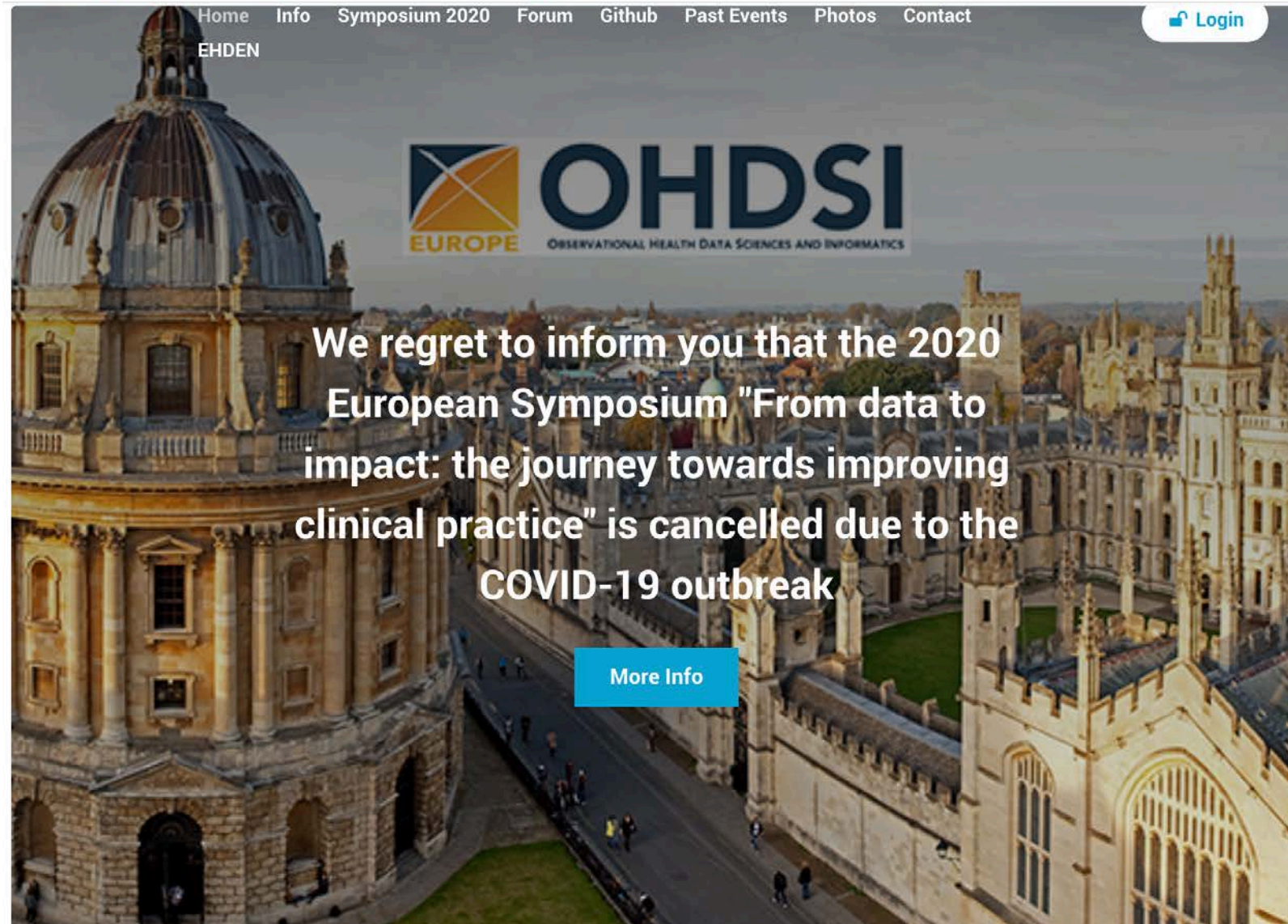
March 26-29, 2020



To improve health by
empowering a community to
collaboratively generate the
evidence that promotes better
health decisions and better care



... #flattenthecurve

The image is a screenshot of the OHDSI Europe website. The background is a photograph of a historic European city with a large domed building on the left and a street with people. The website's navigation bar at the top includes links for Home, Info, Symposium 2020, Forum, Github, Past Events, Photos, and Contact. A 'Login' button is in the top right corner. The OHDSI Europe logo is centered, with the text 'OHDSI' in large blue letters and 'EUROPE' in smaller yellow letters below it. A large white text block in the center reads: 'We regret to inform you that the 2020 European Symposium "From data to impact: the journey towards improving clinical practice" is cancelled due to the COVID-19 outbreak'. Below this text is a blue button with the text 'More Info'.




OHDSI COVID-19 Study-a-thon kickoff

26Mar2020 3amEST

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COVID19 Study-A-Thon

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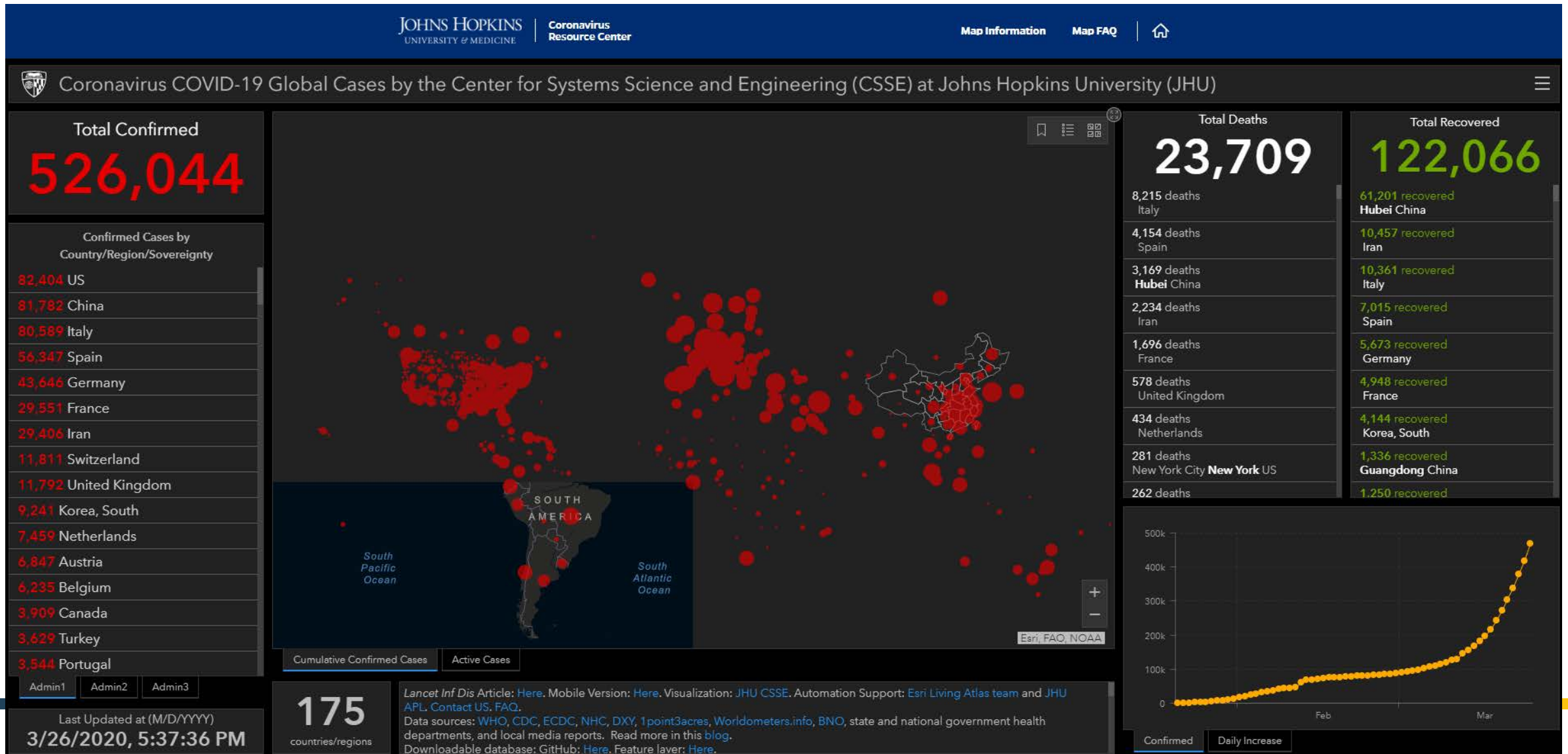


0:14 / 59:52 #OHDSICovid19 • www.ohdsi.org/covid-19-updates





When we started on 26 March 2020



29th March 6:00pmEST



JOHNS HOPKINS
UNIVERSITY & MEDICINE

Coronavirus
Resource Center

Map Information

Map FAQ



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

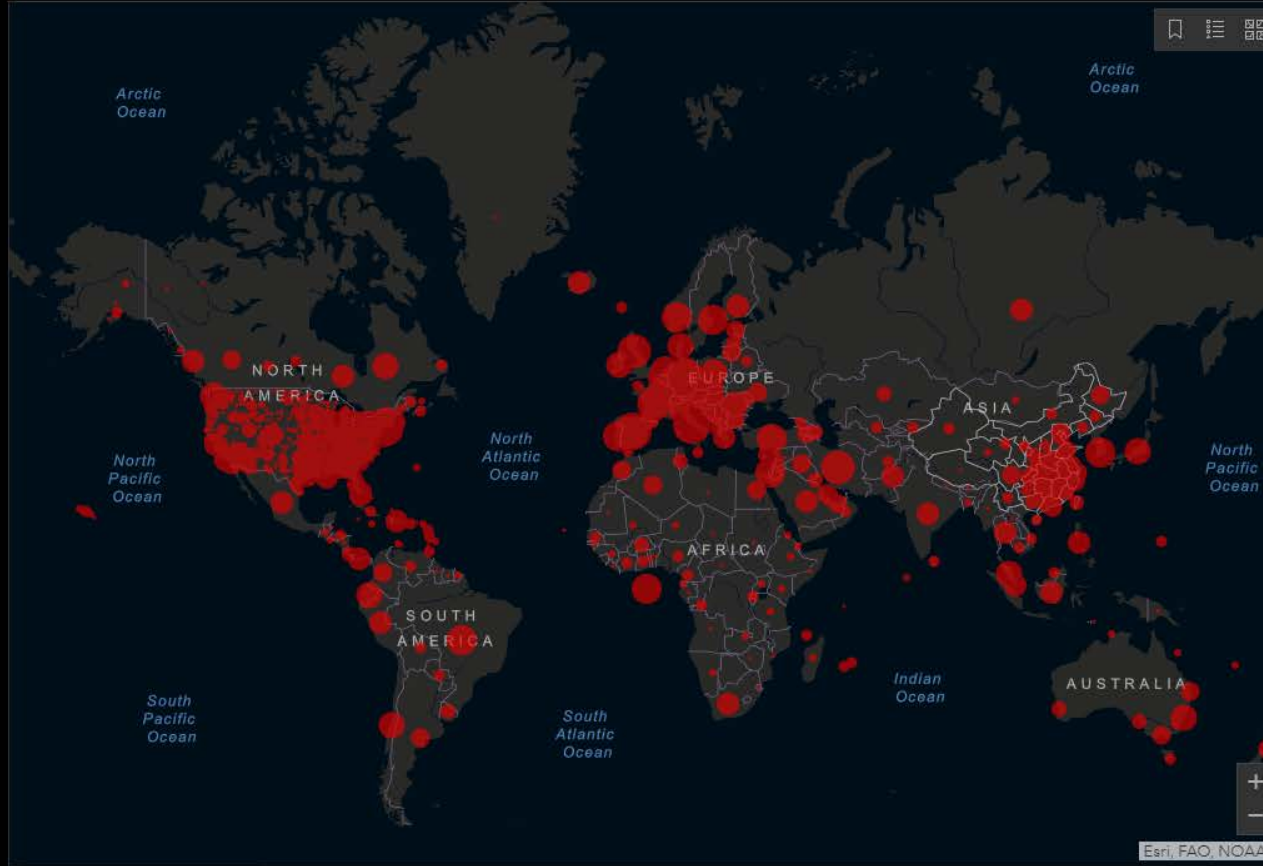


Total Confirmed

716,101

Confirmed Cases by
Country/Region/Sovereignty

137,294 US
97,689 Italy
82,122 China
80,031 Spain
62,095 Germany
40,704 France
38,309 Iran
19,772 United Kingdom
14,829 Switzerland
10,930 Netherlands
10,836 Belgium
9,583 Korea, South
9,217 Turkey
8,743 Austria
6,243 Canada
5,962 Portugal
4,268 Norway



Cumulative Confirmed Cases

Active Cases

177

countries/regions

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](#).
Downloadable database: GitHub: [Here](#). Feature layer: [Here](#).

Total Deaths

33,854

10,779 deaths
Italy

6,802 deaths
Spain

3,182 deaths
Hubei China

2,640 deaths
Iran

2,606 deaths
France

1,228 deaths
United Kingdom

771 deaths
Netherlands

678 deaths
New York City **New York** US

525 deaths
Germany

Total Recovered

149,071

75,582 recovered
China

14,709 recovered
Spain

13,030 recovered
Italy

12,391 recovered
Iran

9,211 recovered
Germany

7,226 recovered
France

5,033 recovered
Korea, South

2,660 recovered
US

1,595 recovered
Switzerland



Confirmed

Logarithmic

Daily Increase

Last Updated at (M/D/YYYY)

3/29/2020, 4:56:20 PM



Tracking our collaboration

26Mar2020 3amET

OHDSI COVID-19 Study-a-thon Study Tracker

Analytic use case	Study	Lit Review and protocol development	Phenotype development and evaluation	Study package development	Study execution across network	Clinical review and dissemination
Characterization						
	COVID-19 positive patients					
	COVID-19 +ve subgroup analyses					
	Influenza, symptoms, and complications					
	Invasive treatments for respiratory distress					
	other questions?					
Prediction						
	1) Who presenting with flu, symptoms, or complications will be admitted to hospital?					
	2) Who sent home with symptoms will progress to require hospitalization?					
	3) Who admitted to hospital will require intensive care services or die?					
	other questions?					
Estimation						
	Effects of hydroxychloroquine					
	Effects of IL6 and JAK inhibitors					
	Effects of HIV protease inhibitors					
	Effects of HepC protease inhibitors					
	Effects of ACE inhibitors					
	other questions?					

To be done

Completed



Where are we now?

OHDSI COVID-19 Study-a-thon Study Tracker

Analytic use case	Study	Lit Review and protocol development	Phenotype development and evaluation	Study package development	Study execution across network	Clinical review and dissemination
Characterization						
	COVID-19 positive patients					
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Prediction						
	1) Who presenting with flu, symptoms, or complications will be admitted to hospital?					
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Estimation						
	Effects of hydroxychloroquine					
	Effects of IL6 and JAK inhibitors					
	Effects of HIV protease inhibitors					
	Effects of HepC protease inhibitors					
	Effects of ACE inhibitors					
	other questions?					

To be done
In progress
Results in, more to come
Completed



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COVID-19 Updates Page

The Observational Health Data Sciences and Informatics (OHDSI) international community will host a COVID-19 virtual study-a-thon this week (March 26-29) to inform healthcare decision-making in response to the current global pandemic.

Day 4

Early Call: [Video](#)

Global Call: [Video](#)

FINAL CALL: [Use This Link To Watch Live](#) (regardless of whether you registered)

Please take a look at the early calls, but we're going to save the exciting study-a-thon updates for our final call tonight! [This link will work for anybody](#), regardless of whether you registered for the study-a-thon. We are so excited to share our studies and early results with the world. Please share this link with people in your networks, so they can see the power of global collaboration in the OHDSI community.

Day 3 Updates



What have we done?

In only **88** hours, we have:

- Convened **351** participants brought together from **30** countries
- Held **12** Global Huddles, **>100** collaborator calls, **>13,000** chat messages
- Engaged **15** concurrent channels
- Reviewed **>10,000** publications
- Drafted **9** protocols
- Released **13** study packages
- Designed **355** cohort definitions
- Assembled a distributed data network with **37** partners signed on to execute studies

<https://www.ohdsi.org/covid-19-updates/>



3 things that we did in 4 days together that nobody has ever done before

- First large-scale characterization of COVID patients in US and Asia (Ed)
- First prediction model externally validated on COVID patients to support triage to 'flatten the curve' (Jenna)
- Largest study ever conducted on the safety of hydroxychloroquine (Dani)



3 things we're about to do that nobody has ever done before

- Designed self-controlled case series to examine safety of IL6 and JAK inhibitors....package is running
- Designed and implemented international study to evaluate protease inhibitors....package is running (Albert)
- Designed and implemented a study to evaluate impact of ACE inhibitor amongst Covid....need more COVID data (Daniel)



Ground rules for presentation

- We will be sharing the journey we've been on through all our studies
 - Celebrate the tremendous progress
 - Highlight the rigorous analytical methods and scientific best practices applied through the week
 - Share ***preliminary*** results, which should not be over-interpreted but provide an exciting view of the journey ahead