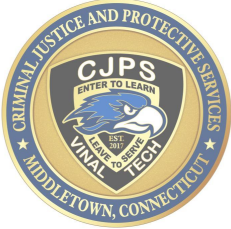


COVID-19

2019  nCoV

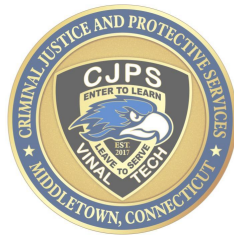
Vinal Tech EOC

Weekly SitRep

Thursday, April 23rd, 2020

0930 HRS EST

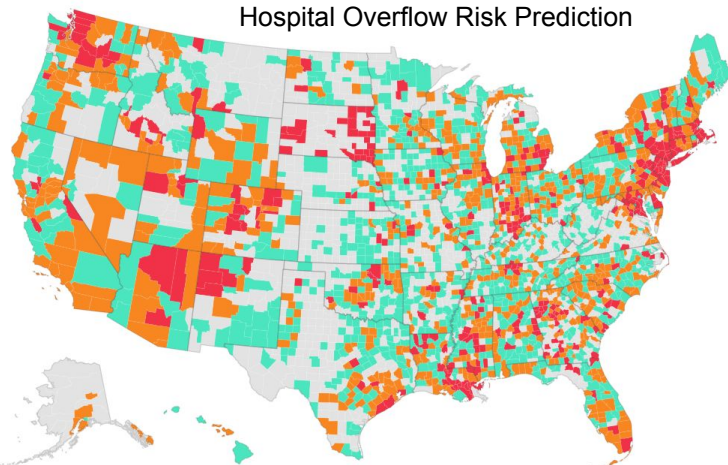
Raw Statistics



COVID-19 Statistics

- **2,076,015** Confirmed cases worldwide as of Thursday, April 16, 2020 at 0319 EST.
- **522,881** Total recovered worldwide.
- **138,008** Total deaths worldwide.
- **639,664** Total confirmed cases nationally.
- **30,985** Total deaths nationally.
- All US states have school districts closed or are scheduled to close at this time

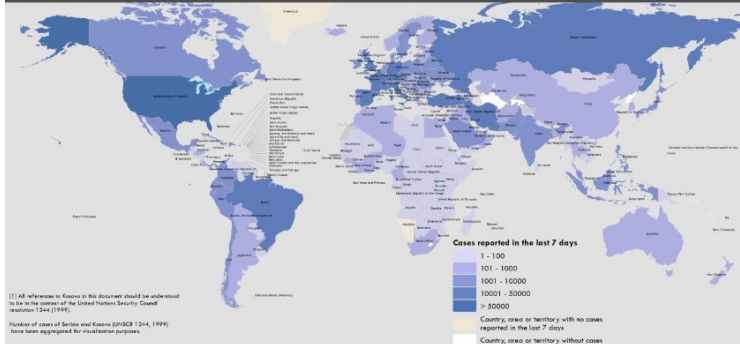
*Sources: WHO, CDC, ECDC, NHC, DXY and edweek.org



Hospital Overflow Risk Prediction

Source: Covid Act Now, 4/16/2020

Countries, areas or territories with COVID-19 cases reported in the last 7 days (From 09 April 2020, 10:00AM to 15 April 2020, 10:00AM (CEST))



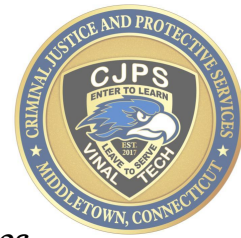
Number of cases of Severe Acute Respiratory Syndrome (SARS) (2004, 1999) have been aggregated for visualization purposes.

US confirmed COVID-19 cases*			
NY	213,779	KY	2,291
NJ	71,030	OK	2,263
MA	29,918	DC	2,197
MI	28,059	DE	2,014
PA	26,753	IA	1,995
CA	26,680	MN	1,809
IL	24,593	OR	1,633
FL	22,511	AR	1,569
LA	21,951	KS	1,494
TX	15,492	NM	1,484
GA	14,987	ID	1,464
CT	14,755	SD	1,168
WA	10,795	NH	1,139
MD	10,032	PR	974
IN	8,955	NE	901
CO	7,941	NN	838
OH	7,791	ME	770
VA	6,500	VT	759
TN	6,079	WV	718
NC	5,274	HI	517
MO	4,895	MT	404
U.S	4,769	ND	365
Military			
AL	4,149	AK	293
AZ	3,962	WY	288
WI	3,721	Princess Cruises	152
SC	3,656	Guam	135
RI	3,529	USVI	51
MS	3,360	Northern Mariana Islands	13
NV	3,211	UT	2,542

Country	Infected
United States	639,664
Spain	180,659
Italy	165,155
Germany	134,753
China	83,797
Iran	76,389
France	143,303
Switzerland	26,336
South Korea	10,613
United Kingdom	99,489
Netherlands	28,316
Austra	14,350
Belgium	33,573
Canada	28,253
Norway	6,798
Portugal	18,091
Sweden	11,927
Australia	6,457

*National Center for Immunization and Respiratory Diseases (NCIRD), Division of Viral Diseases

Virus Data



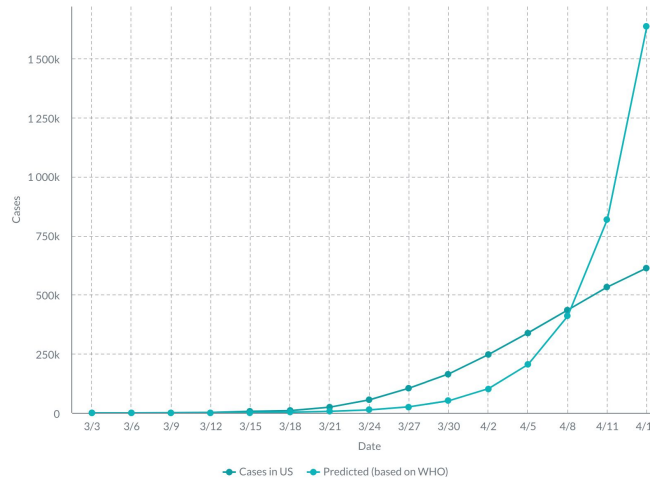
Quick Facts

- Symptoms will appear 2-14 days after exposure.
- Contagious up to 6ft after exiting the body.
- Incubation period after exposure: 2-24 days.
- Fever is not always present in the affected.
- **Based on WHO data, number of infected persons DOUBLES every 3 days.**
- **Number of infected persons has already surpassed WHO predictions**
- **Mean time illness onset to hospital admission was estimated at 3-4 days, Mean time from hospital admission to death was 8.8 days.**
- **Median time delay of 13 days from illness onset to death.**
- A large-scale study of Covid-19 in Wuhan China found that **5 percent of patient require intensive care and 2.3 percent require a ventilator.**
- Virus loads is highest at beginning of infection- first week symptoms begin and decline over week 2

For information about disinfectants to use against

SARS-CoV-2 use [this PDF](#).

SARS-CoV-2 Cases in US

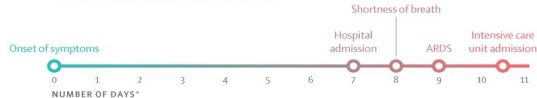


Potential Vaccines

RNA: Unlicensed platform, multi dose vaccine with fast working speed and low to medium current scale. As of 7:53pm 4/1/20 this RNA vaccine is a candidate in preclinical developments for 10 labs and a candidates in phase 1 testing for 2 labs (NCT04283461)

Nonreplicating Vector: Unlicensed platform, single dose vaccine with medium working speed and high current scale. As of 7:55pm 4/1/20 this vaccine is a candidate in preclinical developments for 7 labs and a candidates in phase 1 testing for 1 lab (ChiCTR 2000030906)

Timeline of coronavirus onset

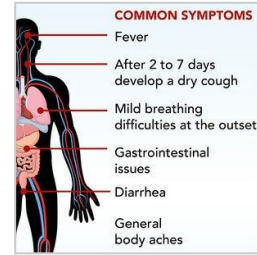


“We found that viable virus could be detected in aerosols up to 3 hours post aerosolization, up to 4 hours on copper, up to 24 hours on cardboard and up to 2-3 days on plastic and stainless steel.”

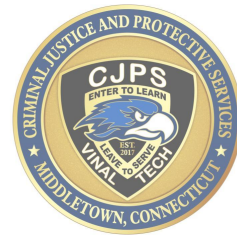
-[MedRxIV](#)

SEVERE SYMPTOMS

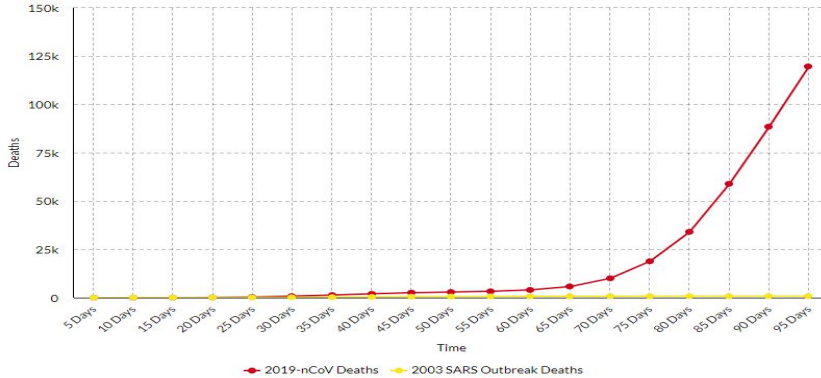
- High Fever (100.4°F or higher)
- Pneumonia
- Kidney failure
- Death



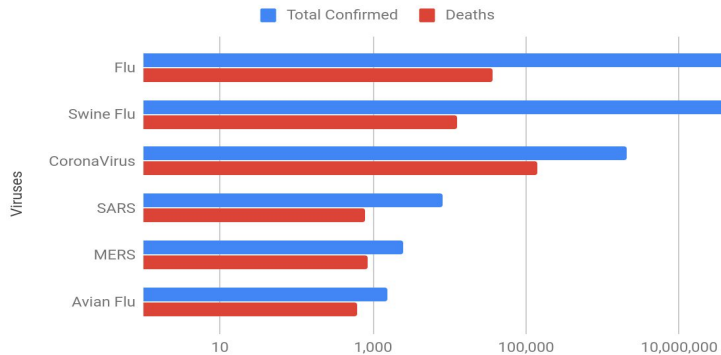
Comparables



SARS V.S. 2019-nCoV Deaths Over Time



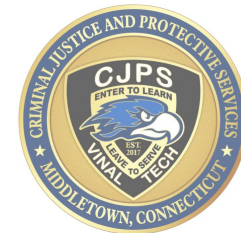
Total Confirmed and Deaths



*CDC

Symptoms*	Flu	Swine Flu	nCoV	SARS	MERS	Avian Flu
Cough	X	X	X	X	X	X
Fever	X	X	X	X	X	
SOB	X		X		X	X
Body Aches	X	X	X	X		X
Sore Throat	X	X	X			X
Runny Nose	X	X	X			
Headache		X		X		X
Diarrhea	X	X		X		
Fatigue	X	X				
Vomiting	X	X				
Discomfort				X		
Pneumonia			X	X		
Chills		X				
Gastrointestinal Problems			X			

U.S. Citizen Impact



How countries are dealing with the Coronavirus:

US: President Trump halts World Health Organization over handling of coronavirus outbreak. Will provide \$8.3 billion deal in emergency funding to stop spread. Money will go towards vaccines, public-health funding, medical supplies and research in other countries. Public officials stated that the US government's handling of the coronavirus has led to severe undercounting of deaths.

Italy: Borrowing money more cheaply to fight the crisis. Furious with other countries with the sense that they are holding back the export of much needed medical supplies. Italy blocks access to ships that were rescuing migrants during pandemic.

China: Many countries have decided to take notes from China after noticing the rate of coronavirus infected have slowed significantly. Wasn't allowed to go outside under any circumstances. Using drones to yell at people to go inside. Is now using "soft power" and changing perceptions on how to handle virus. Wuhan china have started celebrating the end of Wuhan lockdown.

Spain: Borrowing money more cheaply to fight the crisis. Coronavirus crisis accelerated after the government decided to ignore the experiences of other countries where the virus had struck.

Press reports that may impact US citizens

- Washington governor says coronavirus testing will be key to determining when economy can reopen (*CNN*)
- South Dakota Gov. Noem, who opposed stay-home order, now faces coronavirus hot spot (*NBC*)
- US stock futures down following weak economic data and corporate earnings (*CNN*)
- New saliva test for coronavirus rolls out in New Jersey (*NY Post*)
- Sources believe coronavirus originated in Wuhan lab as part of China's efforts to compete with US (*FOX*)

US Travel Restrictions

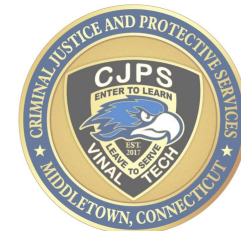
-People who have been in China (People's Rep.) in the past 14 days are not allowed to enter the USA.

-Passengers who have transited or have been in Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Iran, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, or Vatican City in the past 14 days are not allowed to enter the USA.

-Passengers who have transited or have been in Ireland (Rep.) or in the United Kingdom (England, Scotland, Wales, Northern Island) in the past 14 days are not allowed to enter the USA.

*Further specifications can be found from the IATA.

Future Planning



Healthcare System

- If shortages worsen, health care workers may be asked to reuse masks for encounters with multiple patients. (CDC)
- Providers who have already had the disease, called COVID-19, may have some protective immunity and should be the first to treat new patients if no masks are available. (CDC)
- American doctors may soon be making the decision healthcare workers in Italy are: Which patients will be getting lifesaving treatment and which will not?
- President considering possible 'halt' in funding to WHO from U.S.

Unemployment

- The number of unemployment claims skyrocketed from 6,015,821 on March 28, 2020 and 6,203,359 just a week later
- All 50 states have reported a rise in unemployment, the top 3 states with the largest increase this week being California (up 925,450), New York (up 345,246), and Michigan (up 348,844)
- This week the US as a whole went up 6,203,359 unemployment claims

Reinfection/Immunity

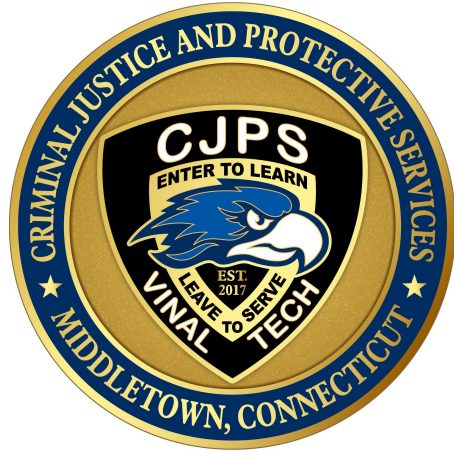
- Reinfection is common within 4 seasonal coronaviruses and little is known of reinfection in SARS and MERS, although length of immunity in survivors of MERS could be detected for up to 2 years
- The more ill a patient typically reflects on how long immunity will last

PPE

- During known shortages of N95 masks using them past their shelf life expiration date may be necessary.
- "Based on WHO modelling, an estimated 89 million medical masks are required for the COVID-19 response each month. For examination gloves, that figure goes up to 76 million, while international demand for goggles stands at 1.6 million per month."
- Chain for obtaining PPE: Chain: when healthcare facilities face shortage they petition their local/state public health departments, if state doesn't have enough state officials contact HHS
- For projected demand of PPE globally manufacturers must increase mask production by 40%.
- Individual countries stockpiling their own supplies: Germany and South Korea banned export of medical masks, US gov't considering imposing similar restrictions

Steps to Preserve PPE, Ensure Safety, Expand Hospital Capacity (CDC)

- Delay all elective ambulatory provider visits
- Reschedule elective and non-urgent admissions
- Delay inpatient and outpatient elective surgical and procedural cases



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