

COVID-19 Update

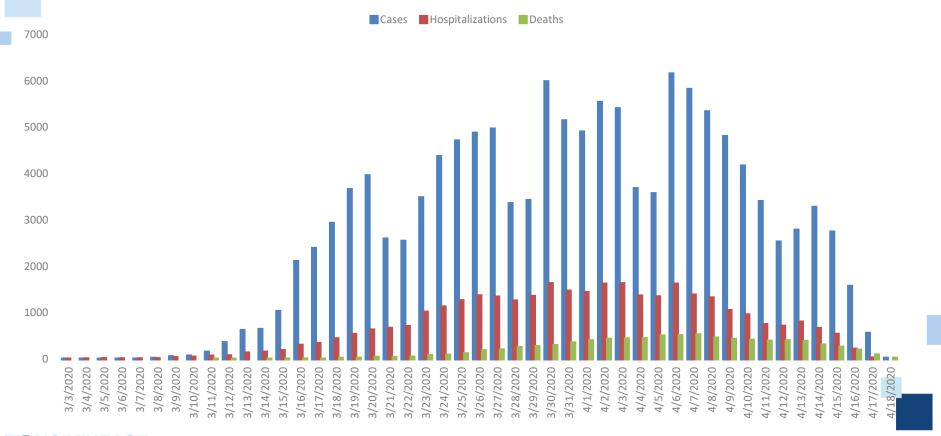
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Monday April 20th

NYS COVID-19 Data





COVID-19 Return to Work

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Mount Sinai Health System

April 20, 2020



Return to Work: Framework

Key Considerations for a Phased Reopening Plan











1. Sustained reduction in cases

2. Determine which business services are **essential**

3. Understand the risk of infection associated with reopening

4. Ensure workplaces are designed to keep employees safe 5. Require face coverings when taking public or private transport

Key Pillars: Strengthened Healthcare Systems, Testing, and Contact Tracing

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Return to Work: Testing

	Reverse-Transcriptase Polymerase Chain Reaction (RT-PCR)	Rapid 2 Diagnostic Test (RDT)	Enzyme-Linked Immunosorbent Assay (ELISA)
Test Type	Diagnoses COVID-19	Detects presence of antibodies	Detects presence and amount of antibodies
Sample Type	Nasal, Throat, or Saliva	Blood	Blood
Test Site	Lab or Point-of-Care	Point-of-Care	Lab
Sensitivity	95%	80% - 90%	85% - 90%
Specificity	95%	95%	90 – 95%
# FDA Authorized*	33	2	2

Return to Work: Immunity to COVID-19

How Does Immunity Work?

- In response to a COVID infection, the immune system creates IgG and IgM antibodies
- IgG and IgM bind to and inactivate infected cells
- IgM provides short-term protection
- IgG stays in blood, conferring long-term immunity
- Immunity duration can range from a year to lifetime

What We Know So Far

Immunity for closely-related coronaviruses like SARS and MERS inform our thinking on COVID

1 - 2

Length of SARS Immunity (years)¹

2 - 3

IaM becomes

production

begins

IgM antibody

IgG antibody

IgG remains in blood and provides long-term immunity

*Disclaimer: this chart is for illustrative purposes only

Convalescence —

IqM disappears

6

Patient begins

to recover

Days since infection

← Window Period →

Asymptomatic Stage |

Onset of

symptoms

Length of MERS Immunity (years)²

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^{1.} Mo et. al, "Longitudinal Profile of Antibodies Against SARS Coronavirus in SARS Patients and their Clinical Significance," Asian Pacific Society of Respirology, January 2006 2. Payne et. al, "Persistence of Antibodies Against Middle East Respiratory Syndrome Coronavirus," Emerging Infectious Diseases, October 2016

Return to Work: Temperature Screening

EEOC allows employers to implement temperature screening programs

On March 17, 2020, the U.S. Equal Employment Opportunity Commission (EEOC) issued an update to guidance that expressly grants employers the ability to implement temperature screening measures in response to the current COVID-19 pandemic.

Effectiveness of temperature screening programs are variable

Effectiveness depends on a number of factors:

Factor	COVID-19 Data	
Illness incubation period	Median is ~5 days	
Proportion of subclinical cases	5-50%	
Sensitivity of thermal scanners to detect fever	Variability by device and operator	

#HereComesTheSun

The joyful "Here Comes the Sun" blasts overhead on the public address system at Mount Sinai South Nassau in Oceanside every time a COVID-19 patient is discharged



We will get through this!

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