COVID-19 Update

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NYS COVID-19 Data

https://www1.nyc.gov/site/doh/covid/covid-19-data.page
COVID-19 Return to Work

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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
## Return to Work: Testing

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Diagnoses COVID-19</th>
<th>Detects presence of antibodies</th>
<th>Detects presence and amount of antibodies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Type</td>
<td>Nasal, Throat, or Saliva</td>
<td>Blood</td>
<td>Blood</td>
</tr>
<tr>
<td>Test Site</td>
<td>Lab or Point-of-Care</td>
<td>Point-of-Care</td>
<td>Lab</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>95%</td>
<td>80% - 90%</td>
<td>85% - 90%</td>
</tr>
<tr>
<td>Specificity</td>
<td>95%</td>
<td>95%</td>
<td>90 – 95%</td>
</tr>
<tr>
<td># FDA Authorized*</td>
<td>33</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

*Note: Tests that have been authorized by the FDA under Emergency Use Authorization (EUA) as of 4/17/2020*
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

2. Payne et. al, “Persistence of Antibodies Against Middle East Respiratory Syndrome Coronavirus,” Emerging Infectious Diseases, October 2016

Length of SARS Immunity (years)1
1 – 2

Length of MERS Immunity (years)2
2 – 3
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:

<table>
<thead>
<tr>
<th>Factor</th>
<th>COVID-19 Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illness incubation period</td>
<td>Median is ~5 days</td>
</tr>
<tr>
<td>Proportion of subclinical cases</td>
<td>5-50%</td>
</tr>
<tr>
<td>Sensitivity of thermal scanners to</td>
<td>Variability by device and operator</td>
</tr>
<tr>
<td>detect fever</td>
<td></td>
</tr>
</tbody>
</table>

https://www1.eeoc.gov/eeoc/newsroom/wysk/wysk_ada_rehabilitation_act_coronavirus.cfm?renderforprint=1
#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!