Situation
Supply Chain has secured several types on N95 respirators. Some of these N95s are not intended for surgical/procedural areas. The PPE Integrated Workgroup has developed an algorithm and guide to help determine which respirators are appropriate for use.

Background
Spectrum Health Supply Chain has worked to secure stock of different brands/models of N95 respirators due to the 3M shortage. Since there are several types of N95s, Occupational Health has established fit testing clinics to ensure proper fit of N95 respirators.

Assessment
There is an abundant supply of N95s procured by Supply Chain. In order to provide enough N95s for team members, we must utilize appropriate N95s makes/models for all units to ensure that we have enough supply through the COVID-19 pandemic.

Recommendation
- The PPE Integrated Workgroup is asking that team members are fit tested and using N95 respirators appropriate for their area.
- Do not use N95s that have not been fit tested to a team member. Performing seal checks on N95s will no longer be an acceptable option, if the team member has not been fit tested to that specific make/model of N95.
- If your unit has stock of N95s not approved for your area, please send these back to Supply Chain.

Included in this Tool Kit
- N95 Respirator Usage Guidelines Table
- N95 Respirators, 3M Brand- What’s the Difference?
- Non-Surgical Staff N95 Fit Testing Algorithm
- Surgical Staff N95 Fit Testing Algorithm
- RNC Staff N95 Fit Testing Algorithm
- PPE and Facial Hair
## N95 Respirator Usage Guidelines Table

<table>
<thead>
<tr>
<th>Respirator Model</th>
<th>Description</th>
<th>Approved Usage</th>
</tr>
</thead>
</table>
| **3M 1860**      | - Dome-shaped  
                  - Blue-green  
                  - Stamped with “1860” on the front.  
                  - Regular fit  
                  - **Lawson # 651394**  
                  - Fluid resistant  
                  - Approved for use in surgical and procedural areas  
                  - Currently in use for Surgical Services only  
                  - May use in other patient care areas as supplies allow | |
| **3M 1860S**     | - Dome-shaped  
                  - Blue-green  
                  - Stamped with “1860S” on the front.  
                  - Smaller fit  
                  - **Lawson # 651395** | |
| **3M 8210**      | - Dome shaped  
                  - White  
                  - Stamped with “3M 8210” on the front.  
                  - Universal fit  
                  - **Lawson # 654150**  
                  - Approved for use in non-surgical/non-procedural areas  
                  - Face shield required when splash anticipated | |
| **3M 8210 Plus** | - Dome shaped  
                  - White  
                  - Stamped with “3M 8210 plus” on the front.  
                  - Universal fit  
                  - **Lawson # 654150** | |
| **3M 9205+**     | - White  
                  - Three panels  
                  - Stamped with “9205+” on the front. Universal fit  
                  - Universal fit  
                  - **Lawson # 654898**  
                  - Approved for use in non-surgical/non-procedural areas  
                  - Face shield required when splash anticipated | |
<table>
<thead>
<tr>
<th>Mask Type</th>
<th>Description</th>
<th>Safety Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Makrite</strong></td>
<td>• Dome shaped</td>
<td>• Fluid resistant</td>
</tr>
<tr>
<td></td>
<td>• White</td>
<td>• Currently for use on Surgical Services only</td>
</tr>
<tr>
<td></td>
<td>• Stamped with “Makrite 9500-N95” on the front.</td>
<td>• Approved for use in surgical and procedural areas</td>
</tr>
<tr>
<td></td>
<td>• Universal fit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lawson # 139485</td>
<td></td>
</tr>
<tr>
<td><strong>Gerson 1730</strong></td>
<td>• Dome shaped</td>
<td>• Fluid resistant</td>
</tr>
<tr>
<td></td>
<td>• White</td>
<td>• Currently for use on Surgical Services only</td>
</tr>
<tr>
<td></td>
<td>• Stamped with “Gerson 1730” on the front.</td>
<td>• Approved for use in surgical and procedural areas</td>
</tr>
<tr>
<td></td>
<td>• Universal fit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lawson # 139486</td>
<td></td>
</tr>
<tr>
<td><strong>Moldex 1511</strong></td>
<td>• Dome shaped</td>
<td>• Fluid resistant</td>
</tr>
<tr>
<td>(Small)</td>
<td>• Molded nose</td>
<td>• Approved for use in surgical and procedural areas</td>
</tr>
<tr>
<td></td>
<td>• Light blue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Has WHITE straps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Small - typed on top strap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lawson # 138928</td>
<td></td>
</tr>
<tr>
<td><strong>Moldex 1512</strong></td>
<td>• Dome shaped</td>
<td>• Currently for use on Surgical Services only</td>
</tr>
<tr>
<td>(Medium)</td>
<td>• Molded nose</td>
<td>• May use in other patient care areas as supplies allow</td>
</tr>
<tr>
<td></td>
<td>• Light blue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Has LIGHT BLUE straps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Medium - typed on top strap</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lawson # 138927</td>
<td></td>
</tr>
</tbody>
</table>
| **Moldex 1513 (Large)** | ▪ Dome shaped  
▪ Molded nose  
▪ Light blue  
▪ Has TAN straps  
▪ Large - typed on top strap  
▪ **Lawson # 138926** |
|-------------------------|------------------------------------------------|
| **Uniair** | ▪ Peaked Dome shape  
▪ White  
▪ Stamped with “SH3500” on front  
▪ Universal fit  
▪ **Lawson # 640125**  
▪ Approved for use in non-surgical/non-procedural areas  
▪ Face shield required when splash anticipated |
| **Dasheng** | ▪ Dome shaped  
▪ White  
▪ Stamped with “DTC3W” on front  
▪ Universal fit  
▪ **Lawson # 640124**  
▪ Approved for use in non-surgical/non-procedural areas  
▪ Face shield required when splash anticipated |
N95 Respirators, 3M Brand- What’s the Difference?

*Spectrum Health is planning to utilize multiple versions of 3M brand N95 respirators to support staff safety.*

- 3M produces both industrial (*9205+* and *8210+*) and medical (*1870+* and *1860*) N95 respirators.
- The particulate filtration efficiency with all versions is identical.
- Respirators appear similar. They are identified by the information printed on the front.

**3M 9205+ and 8210+**

- The 3M *9205+* and *8210+* are NOT approved for use in surgery or procedural areas due to anticipated splash risk due to lack of a fluid barrier.
- If splash is anticipated with the 3M *9305+* or *8210+*, staff should don a face shield.

**3M 1870+ and 1860**

- Due to extremely limited quantity, 3M *1870+ and 1860* will be sequestered for surgery and procedural spaces due to anticipated splash risk.
- *1870+ and 1860* may be available for non-surgery/procedural area staff until they can be fit tested to a non-surgical grade N95 respirator (ex. Uniair, Dasheng, etc brands).
Non-Surgical Staff N95 Fit Testing Algorithm

1. Non-surgical staff report for N95 fit testing
2. Is medical evaluation complete?
   - Yes: Proceed with fit testing to 9205+.
   - No: Does staff have facial hair preventing tight seal?
     - No: Inform individual they must reschedule their appointment.
     - Yes: Does staff pass fit testing with 9205+?
       - No: Proceed with fit testing to 8210.
       - Yes: Does staff pass fit testing with 8210?
         - No: Proceed with fit testing to Unhair.
         - Yes: Document in Ready Set.
3. Does staff pass fit testing with 3M Unhair?
   - No: Proceed with PAPR education.
   - Yes: Document in Ready Set.
Surgical Staff Fit Testing Algorithm

1. Surgical staff report for N95 fit testing
   - Is medical evaluation complete?
     - Yes
       - Proceed with fit testing to 1860 (Regular)/1860+ (Small)
     - No
       - Does staff have facial hair preventing tight seal?
         - Yes
           - Inform individual they must reschedule their appointment.
         - No
           - Proceed with fit testing to Moldex

   - Does staff pass fit testing with Moldex?
     - Yes
       - Document in Ready Set.
     - No
       - Proceed with fit testing to Gerson

   - Does staff pass fit testing with Gerson?
     - Yes
       - Proceed with fit testing to Maxisafe
     - No
       - Proceed with fit testing to Maxisafe

   - Does staff pass fit testing with Maxisafe?
     - Yes
       - Proceed with PAPR education
     - No
       - No

NOTE: If employee will also work in a non-surgical space they will need additional fit testing to the non-surgical algorithm.

Revision Date: 10/8/2020
PPE and Facial Hair

The PPE Integrated Workgroup recommends for those working in at-risk areas to consider shaving. Recommendation apply to individuals who do not have a strong cultural or religious reason for facial hair. The presence of facial hair compromises the ability of the mask to fully protect you:

- Certain facial hair, stubble, mustaches and beards – make it impossible to get a good seal of a mask to the face.
- Respirators rely on a good seal against the face so when you breathe in it is drawn into the filter material where the air is cleaned.
- If there are gaps around the edges of the mask, ‘dirty’ air will pass through these gaps and into your lungs.
- Traditionally, other styles of respirators have been available for team members with facial hair that need protection, but due to COVID-19, the PAPR/CAPR and their filters are in short supply.

Team members can schedule a fit testing appointment by calling the Employee Health Event Team Hotline at 616.486.5544 or 1.877.548.3871 or email the Employee Health Services Event Team at healthassessments@spectrumhealth.org.

The CDC recommends the following facial hair styles: