Coronavirus: Getting Back-to-Work after Closure

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April 21, 2020

- SARS-CoV-2
- Enveloped Virus .125 μm
- Incubation period 3 – 7 days
- Contagious for 14 days
- Transmission – Aerosols, Fluids, Respiratory
- Infectivity – High
- Immunity – none, no vaccine and no cure
- Symptoms – fever, shortness of breath, cough, fatigue & lower respiratory tract illness

Risk of Infection

- Median age 59
- 1/3 to 1/2 have underlying illness
  - Fever 83- 98%
  - Cough 46- 83%
  - Shortness of Breath 31%
- Median age for critically ill is 66
- 20 to 40 year olds
- Asymptomatic patients are infectious

COVID-19

- 80% Mild
- 15% Significant respiratory illness
- 5% Critically ill
• Standard Precautions
• Contact Precautions
• Airborne Precautions

Airborne Disease

Air
• HVAC system
• Cubic feet of air
• 6 ACH - air exchanges per hour – Minimum
• 12 ACH - Best
• HEPA Filter
• Barriers – Hang plastic sheet/Room dividers
• Private Room – TC?
Getting Ready
- Order supplies
- Restart equipment per MIFU’s
- Clean & Spore Test Sterilizer
- Clean and Test Ultrasonic & Instrument Washer
- Shock Water Lines, Treat & Test
- Train employees on Donning & Doffing PPE
- Create Employee & Patient Schedule – Social Distance
- Rehearse

CDC – Oral Health
- Ensure that the mask is cleared by the US Food and Drug Administration (FDA) as a surgical mask.
- Surgical masks should be removed and discarded after exiting the patient's room or care area.
- If the minimally acceptable combination of a surgical mask and a full face shield is not available, do not perform any emergency dental care. Refer the patient to a clinician who has the appropriate PPE.
- Ensure OSHA practice strict adherence to hand hygiene, including:
  - Before and after contact with patients;
  - After contact with contaminated surfaces or equipment;
  - After removing PPE.
- Clean and disinfect the room and equipment according to the Guidelines for Infection Control in Dental Health Care Settings—2003.
- Clean, disinfect, or discard the surface, supplies, or equipment located within 6 feet of symptomatic patients.

Hierarchy of Hazard Control

OSHA

CDC PPE Burn Rate Calculator
- Calculate PPE needed for 2 weeks
- Delivery times are longer

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Equipment MIFUs

**DENTALEZ**

**Utility:**
- If the clinic has a Rommack, Bubbler or Rommack-Bison vacuum pump, the pump may need to be purged when the clinic is started back up. When the vacuum is for an extended time the pump can collect extra oil and will sound loud. This may or may not be needed.
- **Brine Instructions for use**
  - **Storage Instructions for use**

**Delivery Systems:**
- When the offices are open fill the water bottles and run each hand-piece tubing, syringe and flush valve to purge the air out of the system.
- For fall instructions please refer to the below links:
  - **DENTALEZ delivery carts and cutters**
  - **Purified water systems and replacement**
  - **Purified water -十月 maintenance**
  - **Purified water -十月 maintenance**

Training:
AAO Orthodontic Staff Club

- [http://aaoinfo.org](http://aaoinfo.org)
- OSHA
  - “2019 Safety Tune-Up”
- Infection Control
  - “Infection Prevention and Sterilization Compliance”
  - “Coronavirus: Getting Back-to-Work after Closure”

Standard Precautions

1. Hand Hygiene
2. PPE
3. Respiratory Hygiene
4. Sharps Safety
5. Safe Injection Practices
6. Sterile Instruments & Devices
7. Clean & Disinfect Surfaces

Before Appointment

- Inform patient about appointment process
- Patient only in the office – parent waits in car
- Wellness Screen for infection risk
- Ask patient to bring mask
- Ask patient to brush & floss before appointment
- Call/Text dedicated number when arrive – meet patient the at door
- Temperature taken (no hot/cold before arrival)
**Reception**

- Sign on front door
- Remove magazines, coffee bar, etc
- No Family in reception/treatment area
- Disinfect public area (check-in screen, ipads, games)

**Arrival – Call/Text dedicated phone #**

- Ask patient to wear mask
- Greeter meets patient at door
- Chair in entry, hallway or by front door
- Table with Thermometers, Tissues, ABHR, Trash Can, Masks, gloves, Patient Wellness Screening Forms
- Take patient temperature <100.4 proceed with appointment
- Patient replaces mask
- Ask Wellness Screening Questions
- Patient Sanitizes Hands with ABHR or washes hands
- Optional – Pre-procedural mouthrinse (Peroxyl)
- Escort patient to treatment chair
- Patient wears mask until procedure / replaces after procedure
- Orthodontist/assistant in PPE at chair ready for patient treatment
- Greeter escorts patient out after treatment

**Wellness Screening**

**Employee Wellness Screening**

- Daily Log for all employees
- Temperature?
- Symptoms?

**Employees – ADA Guidance**
HCP return to work after COVID-19 Infection

• No Fever for 72 hours (recovery) and 7 days since 1st symptoms or
• No Fever
• No Symptoms
• 2 negative tests, 24 hours apart

PPE – personal protective equipment

• Gown / Jacket
• Mask
• Glasses
• Gloves
• Utility Gloves

Aerosols

• Handpiece
• Prophy jet
• Ultrasonic scaler
• Micro-etch
• Use HVE
• N95 Respirator
• Level 3 Mask/Shield

Sequence for Donning & Doffing PPE

Mask vs N95

• OSHA Respirator Tool Kit
• N95 Seal Check video
### Surgical or Procedural Mask

**TABLE 2.** American Society for Testing and Materials Standards (ASTM) Levels

<table>
<thead>
<tr>
<th>ASTM Level 1 (Low Protection)</th>
<th>ASTM Level 2 (Moderate Protection)</th>
<th>ASTM Level 3 (High Protection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face Resistance</td>
<td>≥ 80</td>
<td>120</td>
</tr>
<tr>
<td>Respiratory Filtration Efficiency</td>
<td>≥ 95%</td>
<td>≥ 98%</td>
</tr>
<tr>
<td>Respiratory Filtration Efficiency</td>
<td>≥ 99%</td>
<td></td>
</tr>
<tr>
<td>Delta P (mmHg)</td>
<td>&lt; 4.0</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>Fanette Spread</td>
<td>Class 2</td>
<td>Class 3</td>
</tr>
</tbody>
</table>

**Kills to Determine ASTM Level**
- Bacteria and fungi, up to 4 hours in static room conditions
- Virus (e.g., influenza, herpes, rhinovirus, papillomavirus, adenovirus, and norovirus)
- Bacterial filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Endotoxin
- Virogenic filtrate (e.g., viral, fungal, and pyrogenic substances)
- Phagokinetic filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Respiratory filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Enteric filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Mycological filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Fungal filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Pyrogenic filtrate (e.g., bacterial, fungal, and pyrogenic substances)
- Pyrogenic filtrate (e.g., bacterial, fungal, and pyrogenic substances)
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**N95 Respirator – S, M, L**
- Fit test, medical clearance

**N95 “Seal Test”**
- YouTube: “How to Perform a User Seal Check with an N95 Respirator”

**Facial Hair Compromises Mask Seal**
- Facial hairstyles and filtering facepiece respirators
FDA response to Shortage

- Emergency Use Authorization
- All disposable filtering facepiece respirators (FFRs) approved by the National Institute for Occupational Safety and Health – NIOSH
- Passed the manufacturers’ recommended shelf-life for use in healthcare settings by healthcare personnel
- K95, KN95 (international)

CDC Crisis Mask Capacity (shortage)

- Extended Use
- Re-Use

Implement limited re-use of facemasks.
Limited re-use of facemasks is the practice of using the same facemask by one HCP for multiple encounters with different patients but removing it after each encounter. As it is unknown what the potential contribution of contact transmission is for SARS-CoV-2, care should be taken to ensure that HCP do not touch outer surfaces of the mask during care, and that mask removal and replacement be done in a careful and deliberate manner.
- The facemask should be removed and discarded if soiled, damaged, or hard to breathe through.
- Not all facemasks can be re-used.
- Facemasks that fasten to the provider via ties may not be able to be undone without tearing and should be considered only for extended use, rather than re-use.

Hand Hygiene

SOAP
ABHR

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Clinical Contact Surfaces

Disinfectant
- Clean
- Disinfect - kill
- EPA Registered
- Intermediate

Disinfectant Chemicals
- Phenols
- Chlorines
- Iodophors
- Quats
- Accelerated Hydrogen Peroxides

EPA Registered Hospital Level Disinfectant

Technology Equipment - Barriers
- FDA cleared barrier
- Touch pads, scanner
- MIFUs
- Clean & disinfect between patients
Sterilization

- Clean
- Dry
- Package
- Sterilize
- Sterile Storage

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• No Fans

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OSAP.org

- FAQ’s
- Toolkits

https://www.cdc.gov/oralhealth/infectioncontrol/safe-care-modules.htm

PLAN
PREPARE
PERFORM

Welcome Back
You were missed!

Thank you!
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