

COVID-19 and Other Respiratory Infections: What Every Dental Practice Needs to Know

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Remember
this is a
very fluid
situation!

INFORMATION
CHANGES HOUR BY
HOUR

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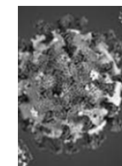
New CDC Guideline March 15, 2020

- ▶ Guidance as of 3/15/2020
- ▶ Large events and mass gatherings can contribute to the spread of COVID-19 in the United States via travelers who attend these events and introduce the virus to new communities. Examples of large events and mass gatherings include conferences, festivals, parades, concerts, sporting events, weddings, and other types of assemblies. These events can be planned not only by organizations and communities but also by individuals.
- ▶ Therefore, CDC, in accordance with its guidance for large events and mass gatherings, recommends that for the next 8 weeks, organizers (whether groups or individuals) cancel or postpone in-person events that consist of 50 people or more throughout the United States.
- ▶ Events of any size should only be continued if they can be carried out with adherence to guidelines for protecting vulnerable populations, hand hygiene, and social distancing. When feasible, organizers could modify events to be virtual.
- ▶ This recommendation does not apply to the day to day operation of organizations such as schools, institutes of higher learning, or businesses. This recommendation is made in an attempt to reduce introduction of the virus into new communities and to slow the spread of infection in communities already affected by the virus. This recommendation is not intended to supersede the advice of local public health officials.

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History of COVID-19

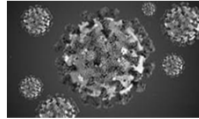
- ▶ Discovered in 2019 Novel (new) Coronavirus
 - ▶ Likely developed from SARS and/or MERS
 - ▶ Outbreak began in Wuhan, China
 - ▶ Spreading from person to person
 - ▶ Local then global spread via international travel
 - ▶ Cases identified throughout the world, including in the U.S.



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History of COVID-19

- ▶ U.S. imposed travel restrictions to China
- ▶ WHO declared health emergency
- ▶ Cruise ships quarantined
- ▶ Increased travel restrictions to affected areas
- ▶ 24 deaths in WA nursing home
- ▶ NY declares emergency and implements "containment" area north of NYC
- ▶ Italy on "lock down"
- ▶ U.S. increases travel restrictions
- ▶ National Emergency declared in U.S.



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Why is everyone so concerned?

- ▶ Novel (new) virus – much information still unknown
- ▶ Spreads very quickly – in some cases from asymptomatic individuals
- ▶ High death rate in elderly and chronically ill individuals
- ▶ Media hype

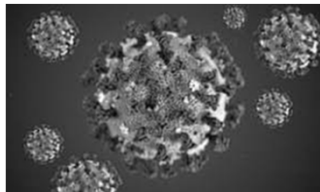


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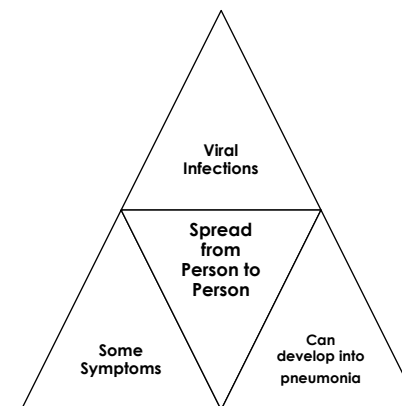
COVID-19 vs.
Influenza

Isn't coronavirus
just like the
flu???



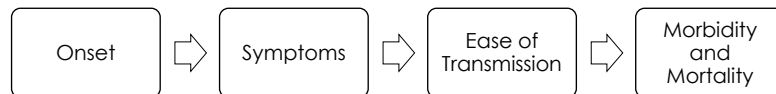
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COVID-19 vs. Influenza - Similarities



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How COVID-19 and Flu are Different



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News Hype or Facts Surrounding Infectious Disease Outbreaks

- ▶ Reliable sources:
 - ▶ Centers for Disease Control and Prevention (CDC)
 - ▶ World Health Organization (WHO)
 - ▶ ADA and state dental associations
 - ▶ Local and state health departments
 - ▶ White House daily briefing 5pm ET
- ▶ Don't rely solely on:
 - ▶ Social media or news reports not attributed to CDC, WHO or other health officials
 - ▶ Beware of statistics (#'s of cases or deaths) that are not from reliable sources



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Accessing Information

- ▶ CDC - www.cdc.gov
 - ▶ CDC mobile app – 24/7 information
 - ▶ <https://www.cdc.gov/coronavirus/2019-ncov/about/index.html>
 - ▶ www.cdc.gov/flu/
- ▶ WHO – www.who.int
 - ▶ <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>
- ▶ State and County Health Departments
 - ▶ <https://www.publichealthonline.org/state-public-health-resources/>

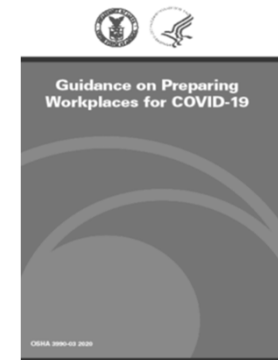


Image source: CDC

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What does OSHA say about COVID-19?

- ▶ All safety standards must be observed:
 - ▶ General Workplace Safety
 - ▶ Bloodborne Pathogens
 - ▶ Hazard Communication
- ▶ New guidance on COVID-19 just issued
 - ▶ <https://www.osha.gov/Publications/OSHA3990.pdf>



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Be Prepared to Answer Questions from Patients

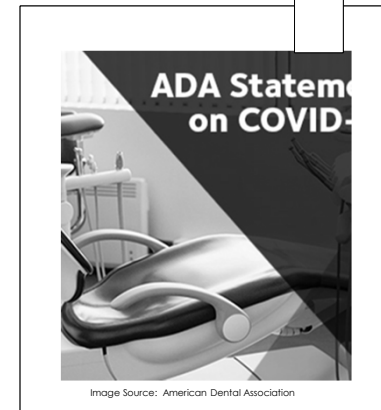
- ▶ Keep updated on developments.
- ▶ Reassure patients wherever possible.
 - ▶ Letters, emails, texts, social media posts
- ▶ Utilize CDC Posters
- ▶ Have patients wash hands when they come in
- ▶ Should we see patients at all?
 - ▶ Elective vs. Emergency treatment only
 - ▶ Lighter schedule?



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Closing Dental Practices

- ▶ ADA Statement on 3/16
 - ▶ <https://www.ada.org/en/publications/ada-news/2020-archive/march/ada-recommending-dentists-postpone-elective-procedures>
 - ▶ Numerous state dental associations making similar recommendations
 - ▶ Voluntary – but...
- ▶ Check with your state government – department of health for mandates
 - ▶ If state mandates, you must close for the prescribed time period.



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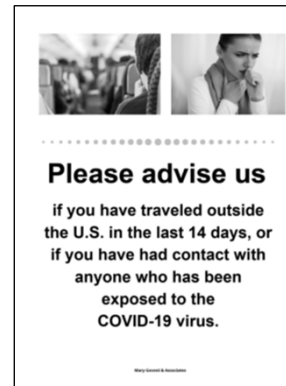
What do I do if the office closes?

- ▶ Communicate to patients why and that you are providing emergency services
- ▶ How do they contact you
 - ▶ Define emergencies
- ▶ Stay engaged with your patients – use social media
- ▶ What about employees?
 - ▶ Consult your HR source
 - ▶ <https://bentericksen.com/coronavirus-faqs/>



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What Does it Mean for Dentistry?



- ▶ Screening patients is critical –especially prior to their appointment
 - ▶ Ask if they have traveled outside the U.S. in the last 14 days
 - ▶ Ask if they have had contact with anyone who has traveled internationally
 - ▶ Ask if they have had contact with anyone potentially exposed to the virus
 - ▶ Some patients will need to be rescheduled

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What Does it Mean for Dentistry?

- Offer face masks to patients/others with symptoms when in reception area
- Making tissues and hand sanitizer available in reception area
- Display CDC posters
- Periodically disinfect surfaces (e.g. doorknobs) in reception area
- Put away magazines and toys



Image Source: Poltex



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Frequently Asked Questions

► When should I be washing my hands?



- Beginning of the day
- Before donning gloves
- Immediately after removing gloves
- Before eating
- After using the restroom
- End of the day

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Frequently Asked Questions

► What type of soap?

- Liquid or foam
- Antimicrobial or plain soap for most procedures
- Antimicrobial/surgical hand soap for surgeries



How to Handwash?



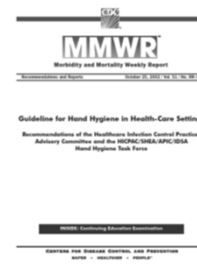
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Frequently Asked Questions

► What is the best hand sanitizer to use?

► 70%+ alcohol

- Ethyl alcohol more effective against viruses and less drying



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Frequently Asked Questions

What is the right way to wear a face mask?

- ▶ Do not cross the ear loops
 - ▶ creates gaps on sides of mask
- ▶ Make sure pleats are facing down
 - ▶ can create spaces for aerosols to collect
- ▶ Cover nose and mouth with mask
- ▶ Pinch the top of the mask over the nose
 - ▶ creates a good seal



Image source: Amazon.com



Image source: Alamy

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Frequently Asked Questions

- ▶ If there is a shortage of face masks, is it ok to reuse masks?



NO!!!

- ▶ FDA clears masks as single-use, disposable items
- ▶ CDC guidelines state change after each patient – sooner if it becomes wet
- ▶ Particle filtration is effective for < 1 hour
- ▶ Risk is too great for dental health care professionals exposed to aerosols

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Frequently Asked Questions

What is the best face mask to wear?

LEVEL		
1	ASTM Low Barrier: For procedures where fluid, spatter, and/or aerosols are produced in low concentrations.	Procedures: • Patient Exam • Operatory Cleaning/Maintenance • Injections • Lab Training, Finishing & Polishing • Orthodontics
2	ASTM Moderate Barrier: For procedures where generation of fluid, spatter and/or aerosols is moderate.	Procedures: • Endodontic Compaction • Endodontics • Prophylaxis • Scaling & Root Planning • Limited Oral Surgery
3	ASTM High Barrier: For procedures where heavy to moderate levels of fluid, spatter and/or aerosols are produced.	Procedures: • Crown Preparation • Implant Placement • High Volume Suction • Use of Pneu Sucker with Water or Mucous • Periodontal Surgery • Complex Oral Surgery

THE DENTAL ADVISOR 3/17/2020 Dental Advisor, Inc. 3/17/2020 3/17/2020 3/17/2020

Image source: The Dental Advisor

MASKENOMICS 101™			
Understanding ASTM Face Mask Performance Levels			
<p>Understanding the performance levels of face masks is essential to ensuring the appropriate protection for the user and the patient. The following table provides a summary of the performance levels of face masks as defined by the ASTM F2719-18 standard.</p>			
ASTM F2719-18	ASTM Level 1	ASTM Level 2	ASTM Level 3
ASTM F2719-18	ASTM Level 1	ASTM Level 2	ASTM Level 3
ASTM F2719-18	ASTM Level 1	ASTM Level 2	ASTM Level 3
ASTM F2719-18	ASTM Level 1	ASTM Level 2	ASTM Level 3

What the terms mean:

ASTM F2719-18 is a standard for the performance of face masks. It defines the performance levels of face masks as defined by the ASTM F2719-18 standard. The following table provides a summary of the performance levels of face masks as defined by the ASTM F2719-18 standard.

Frequently Asked Questions

- ▶ Do Level 3 fluid rated masks protect against COVID-19?
- ▶ The appropriate mask to wear if providing emergency treatment for patients with suspected or known COVID-19 or tuberculosis is an N-95 mask.



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Other OSHA-Required PPE

- ▶ Gloves
 - ▶ Exam or sterile surgical gloves
 - ▶ Utility gloves
- ▶ Eye Protection
 - ▶ Safety glasses/goggles
 - ▶ Face shields
- ▶ Protective Clothing
 - ▶ Gowns
 - ▶ Lab coats
- ▶ Laundry???



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Frequently Asked Questions

- ▶ **Does my surface disinfectant kill COVID-19**
 - ▶ No specific label claims for SARS-CoV2 (COVID-19)
 - ▶ it's new!
 - ▶ Some products have label claims against enveloped coronaviruses
 - ▶ SARS-CoV-2 is an enveloped coronavirus
 - ▶ Check the EPA List N of disinfectants effective against coronavirus
 - ▶ <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

This product kills the following organisms in 1 minute on pre-cleaned, hard, non-porous surfaces at room temperature:

Medicillin-Resistant Staphylococcus aureus (MRSA)	Extended-Spectrum β -lactamase Escherichia coli (ESBL)
Staphylococcus aureus	Enterobacter aerogenes
Staphylococcus aureus Bacteriophage	Enterobacter cloacae
Vancomycin-Resistant Enterococcus faecalis (VRE)	Carbapenem-Resistant Escherichia coli
Vancomycin-Intermediate Staphylococcus aureus (VISA)	Hepatitis B Virus* (HBV)
Methicillin-Resistant Staphylococcus epidermidis (MRSE)	Hepatitis C Virus* (HCV)
Enterococcus faecium	Herpes Simplex Virus Type 2
Acinetobacter baumannii	Human Immunodeficiency Virus* (HIV) associated with AIDS
Multi-Drug Resistant (MDR) Acinetobacter baumannii	Human Immunodeficiency Virus* (HIV)
Pseudomonas aeruginosa ATCC 25424	Influenza A Virus (H1N1)
Pseudomonas aeruginosa ATCC 26016	Influenza A Virus (H3N2)
Salmonella enterica	Human Coronavirus
Carbapenem-Resistant Klebsiella pneumoniae	Rotavirus
Klebsiella pneumoniae	Norovirus
Bordetella pertussis	Trichophyton interdigitale (ringworm)

* This symbol indicates a 30-second contact time is required to kill this organism.

† This product kills the following organism in 2 minutes on pre-cleaned, hard, non-porous surfaces at room temperature:

Mycobacterium bovis BCG Tuberculosis (TB)

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Sterilization Practices Review

- ▶ Review your protocol for
 - ▶ Cleaning
 - ▶ Packaging
 - ▶ Sterilizing
 - ▶ Utilizing the dry cycle – do not put away wet packages
 - ▶ Monitoring
 - ▶ Process indicators
 - ▶ Chemical integrators
 - ▶ Biological monitoring
 - ▶ Weekly
 - ▶ Each sterilizer

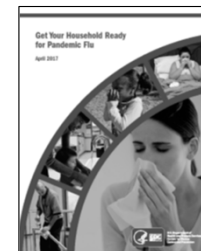


Image Source: Hufriedy Group

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Frequently Asked Questions

- ▶ **What do we do to prepare outside of work?**
 - ▶ Don't panic but be aware that schools and businesses are closing.
 - ▶ Prepare at home with consumable supplies (i.e. medications, diapers, food, etc.) to avoid having to go out in public – no hoarding please!
 - ▶ Stay away from people who are sick.
 - ▶ Stay home from work if you are sick.
 - ▶ **Practice good hand hygiene at all times!**
 - ▶ <https://www.ready.gov/pandemic>
Dept. of Homeland Security



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Respiratory Infections
Resource Manual for
Dentistry**

<https://www.marygovoni.com>



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