COVID-19

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🛧 Your Health			Types of Masks and Respirators Updated Jan. 28, 2022 Languages Print							
About COVID-19 +		+								
COVID-19 by County										
Variants of the Virus +		+	Summary of Recent Changes							
Symptoms		+	Updates as of January 28, 2022 🔨							
Testing		+								
Contact Tracing +		+	 Added information to present similar content for masks and respirators 							
Prevent Getting Sick –		_	 Clarified that people can choose respirators such as N95s and KN95s, including removing concerns related to supply shortages for N95s 							
Protect Yourself			• Clarified that "surgical N95s" are a specific type of respirator that should be reserved for healthcare settings							
Get a V	/accine		Clarified that s	some types of masks ar	d respirators provide more p	rotection	to the wea	rer than others		
Masks —		_	<u>View Previous Updates</u>							
	es of Masks and					_				
Respirators			Key Messages:				On This F	Page		
	and Care of Masks		 Masking is a critical public health tool for preventing spread of COVID-19, 			D-19,	Masks			
How to Use Your N95 Respirator		or	 and it is important to remember that any mask is better than no mask. To protect yourself and others from COVID-19, CDC continues to 		sk.	Choosing a Mask or Respirator for Different Situations		pirator for		
Free N95 Respirator Manufacturers			recommend that you wear the most protective mask you can that fits well and that you will wear consistently.				Respirato	rs		
Cleaning Your Home			 Masks and respirators are effective at reducing transmission of SARS-CoV- 2, the virus that causes COVID-19, when worn consistently and correctly. Some masks and respirators offer higher levels of protection than others, and some may be harder to tolerate or wear consistently than others. It is 				Considera	ations for Childr	ren	
Improving Ventilation in Your Home						hers,	Alternativ Situations	e Masks for Spe	ecial	
lf You Are Sick		+	most important to <u>wear a well-fitting mask</u> or respirator correctly that is comfortable for you and that provides good protection.							
Specific Groups of People		+	 While all masks and respirators provide some level of protection, properly fitting respirators provide the highest level of protection. Wearing a highly protection is a highly protection. 					protective mask or respirator may be most		
Activities & Gatherings		+	 important for certain higher risk situations, or by some people at <u>increased risk for severe disease</u>. CDC's <u>mask recommendations</u> provide information that people can use to improve how well their masks protect them. 						-	
Travel +		+							s protect	
Archive			For information about how to use your N95 correctly, see <u>How to Use Your N95 Respirator</u> .							

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What's this?

	For information about how to use your N95 correctly, see <u>How to Use Your N95 Respirator</u> .
	This page describes different types of masks and respirators that you can use to protect yourself and others from getting
dates	and spreading COVID-19. Masks and respirators can provide varying degrees of protection, with well-fitting National Institute for Occupational Safety and Health (NIOSH)-approved respirators offering the most protection. Masking is a
_	critical public health tool for preventing spread of COVID-19, and it is important to remember that any mask is better than

consistently.

Types of Masks and Respirators

Masks are made to contain droplets and particles you breathe, cough, or sneeze out. If they fit closely to the face, they can also provide you some protection from particles spread by others, including the virus that causes COVID-19.

no mask. This page presents options in order of least to most protective. To protect yourself and others from COVID-19,

CDC continues to recommend that you wear the most protective mask you can that fits well and that you will wear

Respirators are made to protect you by filtering the air and fitting closely on the face to filter out particles, including the virus that causes COVID-19. They can also contain droplets and particles you breathe, cough, or sneeze out so you do not spread them to others.

Choosing a Mask or Respirator for Different Situations

Masks and respirators (i.e., specialized filtering masks such as "N95s") can provide different levels of protection depending on the type of mask and how they are used. Loosely woven cloth products provide the least protection, layered finely woven products offer more protection, well-fitting disposable surgical masks and KN95s offer even more protection, and well-fitting NIOSH-approved respirators (including N95s) offer the highest level of protection.

Whatever product you choose, it should provide a good fit (i.e., fitting closely on the face without any gaps along the edges or around the nose) and be comfortable enough when worn properly (covering your nose and mouth) so that you can keep it on when you need to. Learn how to improve how well your mask protects you by visiting CDC's Improve_How_Your Mask Protects You page.

A respirator has better filtration, and if worn properly the whole time it is in use, can provide a higher level of protection than a cloth or procedural mask. A mask or respirator will be less effective if it fits poorly or if you wear it improperly or take it off frequently. Individuals may consider the situation and other factors when choosing a mask or respirator that offers greater protection.

- When caring for someone who is sick with COVID-19.
- If you are at increased risk for severe illness, for example, people who are immunocompromised, older adults, and people with certain underlying medical conditions.
- When working at a job where you interact with large numbers of the public, especially when not everyone is consistently wearing a mask. For example, bus drivers and grocery store workers.
- When riding on planes, buses, trains, or other forms of public transportation*, especially if it is for a long period of time on crowded conveyances.
- When physical distancing is not possible or when you are in crowded indoor or outdoor public settings.
- If you are not up to date on COVID-19 vaccinations.

*Note: The options listed on this page may be used to fulfill the requirements of CDC's Mask Order for public transportation. Learn more about attributes of masks needed to fulfill the requirements of the Order at this website.

Masks

Masks

Search COVID-19

When choosing a mask, look at how well it fits. Gaps can let air with respiratory droplets leak in and out around the edges of the mask. Gaps can be caused by choosing the wrong size or type of mask and when a mask is worn with facial hair.

It is important to <u>check that it fits</u> snugly over your nose, mouth, and chin.

- Check for gaps by cupping your hands around the outside edges of the mask.
- Make sure no air is flowing from the area near your eyes or from the sides of the mask.
- If the mask has a good fit, you will feel warm air come through the front of the mask and may be able to see the mask material move in and out with each breath.

Cloth Masks

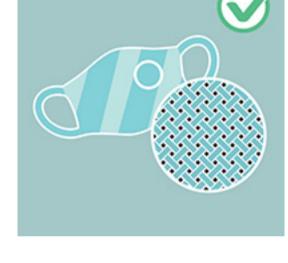
Cloth Masks can be made from a variety of fabrics and many types of cloth masks are available.

Wear cloth masks with

- A proper fit over your nose, mouth, and chin to prevent leaks
- Multiple layers of tightly woven, breathable fabric
- Nose wire
- Fabric that blocks light when held up to bright light source

Do NOT wear cloth masks with

- Gaps around the sides of the face or nose
- Exhalation valves, vents, or other openings (see example)
- Single-layer fabric or those made of thin fabric that don't block light
- Wet or dirty material





Procedure Masks

Disposable procedure masks are widely available. They are sometimes referred to as surgical masks or medical procedure masks.

Wear procedure masks with

- A proper fit over your nose, mouth, and chin to prevent leaks
- Multiple layers of non-woven material
- A nose wire

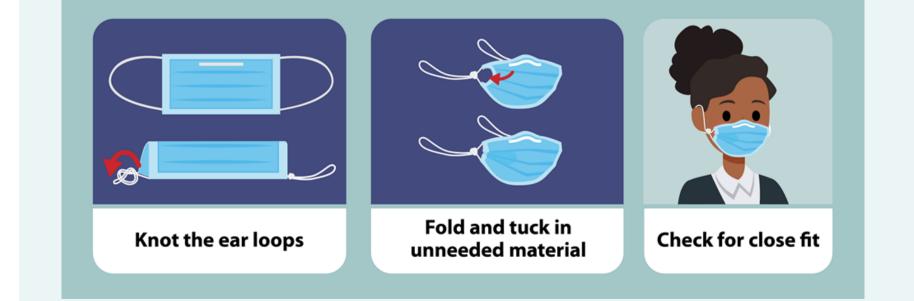
Do NOT wear procedure masks with

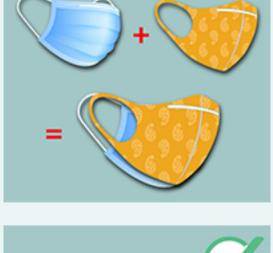
- Gaps around the sides of the face or nose (see example)
- Wet or dirty material



Ways to have better fit and extra protection with cloth and disposable masks

- Wear two masks (disposable mask underneath AND cloth mask on top)
- Combine either a cloth mask or disposable mask with a fitter or brace
- Knot and tuck ear loops of a 3-ply mask where they join the edge of the mask
 - For disposable procedure masks, fold and tuck the unneeded material under the edges. (For instructions, see the following https://youtu.be/GzTAZDsNBe0
- Use masks that attach behind the neck and head with either elastic bands or ties (instead of ear loops)







Masks that Meet a Standard

Some masks are designed and tested to ensure they perform at a consistent level. These masks are labeled to tell you what standard they meet. These masks are labeled:

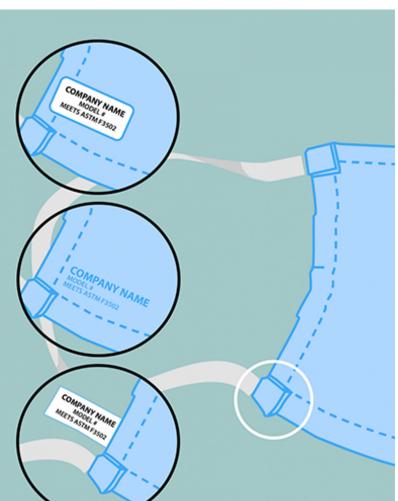
- MEETS ASTM F3502
- MEETS WORKPLACE PERFORMANCE
- MEETS WORKPLACE PERFORMANCE PLUS

These are new standards. Lists of masks that meet these standards and more information on their availability can be found on the NIOSH Personal Protective Equipment_Information_(PPE-Info)_webpage. These masks have markings printed on the product to indicate they are authentic.

Follow manufacturer's instructions on how to wear, store, and clean or properly dispose of the mask. These should be worn according to the manufacturer's instructions without modifications.

Wear masks that meet a standard with

• A proper fit over your nose and mouth to prevent leaks



- Multiple layers of non-woven material
- A nose wire

Do NOT wear masks that meet a standard

- If it is hard to breathe while wearing them
- If they are wet or dirty
- With other masks or respirators
- As a replacement for NIOSH-approved respiratory protection when
- required_by_your_job

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Respirators

When choosing a respirator, look at how well it fits and read the manufacturer instructions. These instructions should include information on how to wear, store, and clean or properly dispose of the respirator. Respirators have markings printed on the product to indicate they are authentic, see appropriate <u>N95 markings</u> and <u>KN95 markings</u>.

It is important to <u>wear your respirator properly</u>, so it forms a seal to your face. Gaps can let air with respiratory droplets leak in and out around the edges of the respirator. Gaps can be caused by choosing the wrong size or type of respirator or when a respirator is worn with facial hair. For information about how to use your N95 correctly, see <u>How to Use</u> Your N95 Respirator. The information on this page is about N95 respirators but also applies to international respirators, like KN95 respirators.

Most publicly available respirators are disposable and should be discarded when they are dirty, damaged, or difficult to breathe through.

More information on these two types of respirators is provided below.

Respirators that Meet International Standards

Some respirators are designed and tested to meet international standards. The most widely available respirators that meet an international standard are KN95 respirators. Other examples include 1st, DL2, DL3, DS2, DS3, FFP2, FFP3, KN100, KP95, KP100, P2, P3, PFF2, PFF3, R95, and Special.

Poor quality KN95 respirators

- About 60% of KN95 respirators NIOSH evaluated during the COVID-19 pandemic in 2020 and 2021 did not meet the requirements that they intended to meet.
 - Using a poor-quality product may not provide the level of protection indicated.
- Learn about factors to consider when purchasing an international respirator. This webpage and a webinar provide reliable information to guide you.

What to know about international respirators

- They are designed to standards that do not often have a quality requirement.
- They filter varying levels of particles in the air depending on the standard they are designed to meet.
- They seal tightly to your face when fitted properly.
- It is important to pick a respirator that fits your face and seals well since not all fit the same.

Do NOT wear international respirators

- If they have exhalation valves, vents, or other openings
- If it is hard to breathe while wearing them
- If they are wet or dirty
- With other masks or respirators
- As a replacement for NIOSH-approved respiratory protection when required by your job

NIOSH-Approved Respirators

NIOSH approves many types of filtering facepiece respirators. The most widely available are **N95 respirators**, but other types (N99, N100, P95, P99, P100, R95, R99, and R100) offer the same or better protection as an N95 respirator. Lists of respirators that are NIOSH-approved can be found on the <u>NIOSH-Approved Particulate Filtering</u> Facepiece Respirators webpage.



CDC recommends that specially labeled "surgical" N95 respirators — a special subtype of N95 respirators that provide additional protection against hazards present during medical procedures, such as blood splatter — should be reserved for use by healthcare personnel.

Employers who want to distribute N95 respirators to employees shall follow an Occupational Safety and Health (OSHA) respiratory protection program 🖸 .

What to know about NIOSH-approved respirators

- When worn consistently and properly, they provide the highest level of protection from particles, including the virus that causes COVID-19. Additionally, they contain your respiratory droplets and particles so you do not expose others.
- They seal tightly to your face when fitted properly.
- It is important to pick a respirator that fits your face and seals well since not all fit the same.
- <u>Respirators approved by NIOSH</u> are evaluated against a specific US standard that includes a quality requirement.
- They filter at least 95% of particles in the air when approved by NIOSH and when you have a proper fit.
- If you have COVID-19, an N95 or other filtering facepiece respirator with a valve may not protect others as well as one without a valve. To make a filtering facepiece respirator with a valve as protective as one without a valve, follow the manufacturer's instructions for covering the valve.

Do NOT wear NIOSH-approved respirators

- If it is hard to breathe while wearing them
- If they are wet or dirty
- With other masks or respirators

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Considerations for Children

Masks

Anyone ages 2 years or older who is not vaccinated or not up to date on vaccines should wear masks in indoor public

spaces. This recommendation also applies to people who are up to date on their vaccines when they are in an area of substantial or high transmission. CDC also currently recommends universal indoor masking for all teachers, staff, students, and visitors to K-12 schools, regardless of their vaccination status or the area's transmission rates. The benefits of mask-wearing are well-established.

Respirators

Parents and caregivers may have questions about NIOSH-approved respirators (such as N95s) for children. Although respirators may be available in smaller sizes, they are typically designed to be used by adults in workplaces, and therefore have not been tested for broad use in children.

Selecting Masks

- Masks and respirators should not be worn by children younger than 2 years.
- Choose a well-fitting and comfortable mask or respirator that your child can wear properly. A poorly fitting or uncomfortable mask or respirator might be worn incorrectly or removed often, and that would reduce its intended benefits.
 - Choose a size that fits over the child's nose and under the chin but does not impair vision.
- Follow the user instructions for the mask or respirator. These instructions may show how to make sure the product fits properly.
- Some types of masks and respirators may feel different if your child is used to wearing a regular cloth or disposable procedure masks.

Safety precautions

- If your child has a medical condition, such as a heart or lung problem, ask their healthcare provider before they use methods to improve mask fit or use an ASTM F3502 mask or a respirator.
- If your child has a hard time breathing, gets dizzy, or has other symptoms while you are trying to get the mask to fit better or when using an ASTM F3502 mask or a respirator, choose a regular cloth or disposable mask. They should continue to follow <u>CDC guidance</u> to protect themselves and others. Consult your healthcare provider if these symptoms do not resolve.

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Alternative Masks for Special Situations

Clear masks or cloth masks with a clear plastic panel are an alternative type of mask that may be helpful when interacting with certain groups of people, such as:

- People who are deaf or hard of hearing
- Young children or students learning to read
- Students learning a new language
- People with disabilities
- People who need to see the proper shape of the mouth for making appropriate vowel sounds

The FDA cleared for marketing a transparent medical mask. These transparent medical masks should be reserved for use by healthcare workers and patients who require them.

If you use this type of mask, make sure

- You can breathe easily
- Excess moisture does not collect on the inside of the mask

For more information on science behind improving how your mask protects you, see:

- Scientific Brief: Community Use of Cloth Masks to Control the Spread of SARS-CoV-2
- Efficacy of Portable Air Cleaners and Masking for Reducing Indoor Exposure to Simulated Exhaled SARS-CoV-2 Aerosols — United States, 2021
- Maximizing Fit_for_Cloth_and_Medical_Procedure_Masks_to_Improve_Performance_and_Reduce_SARS-CoV-2 Transmission_and_Exposure, 2021

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Previous Updates

Updates from Previous Content

Related Pages

- > Your Guide to Masks
- Improve How Your Mask Protects You
- > How to Use Your N95 Respirator



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