FOCUS ON RESPIRATORY SYNCYTIAL VIRUS

NEWS

The latest research

page 3

GOOD TO KNOW

When RSV leads to other illnesses

page 14

CARING FOR YOU

Ease your fears with facts

page 15



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WINTER 2026

INSIDE THE ISSUE

3

NEWS

The latest research

4

BY THE NUMBERS

Stats and facts

ASK THE EXPERT

Insights from a lung specialist

10

HEALTH SMARTS

Know the signs and how it spreads

11

SEASON SMARTS

RSV in infants and young children

12

FIRST PERSON

My baby's bout with RSV

14

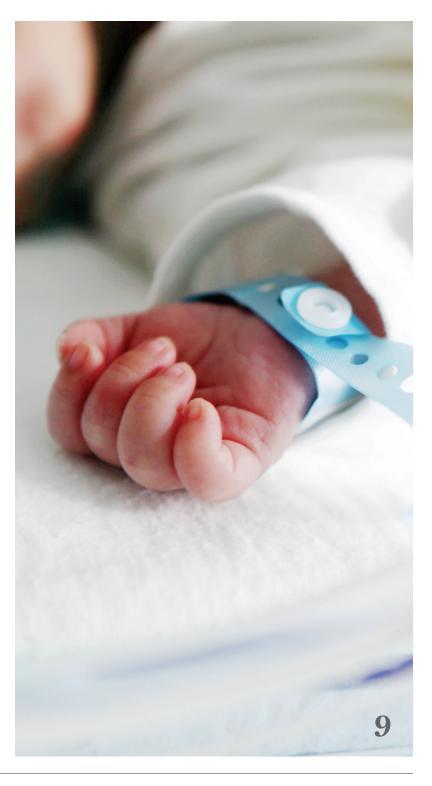
GOOD TO KNOW

Early protection supports your child's long-term health

15

CARING FOR YOU

Manage your RSV-related stress and anxiety



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-THE LATEST ON-

RESPIRATORY SYNCYTIAL VIRUS

TOO YOUNG TO REMEMBER

Anyone can get RSV, but babies seem to get it again and again. New research may explain why. Scientists studied tissue samples of small children and found that important immune cells called "memory T cells" aren't fully functional in children's bodies until they are about 4 to 6 years old. These cells remember germs they've encountered before. If the germs try to come back, the cells mount an immediate attack against them. But in babies and toddlers, the cells don't remember so well, so the body lets the same germs in over and over.

SOURCE: Immunity

Minimum number of months that an injection of protective antibodies protects infants against severe illness from RSV.

SOURCE: CDC

How many more children under 4 were hospitalized for RSV in late August 2023 compared to early August—the start of RSV season.

SOURCE: CDC

NEW IN VACCINE RESEARCH

Some vaccines protect you for life. So why do others, like the flu, COVID, and the RSV vaccines for expectant mothers and older adults, only last for a few months? These seasonal viruses multiply in the mucus in your nose before they fully enter your body where they would trigger the immune response that vaccines ensure. On top of that, viruses like some flu strains and COVID evolve rapidly and complicate vaccine design. For now, that means people get flu and COVID shots every year. RSV vaccines, for those who are eligible, and preventive antibody treatments for babies offer a season of protection. But research is underway to develop vaccines that would go right into the nasal mucus membrane, rather than the arm, and potentially offer a lifetime of protection.

SOURCE: Cell Host & Microbe

HAND SANITIZERS **SAVE THE DAY**

Though it weakens over time, RSV can live on surfaces like countertops and doorknobs for up to 7 days, new research shows. But a test of five standard surface disinfectants, with typical ingredients like alcohol and hydrogen peroxide, all worked to deactivate the virus. Hand sanitizers containing at least 30% alcohol disarmed the germs, too. So keep wiping down those counters and sanitizing those hands. It's working!

SOURCE: The Journal of Hospital Infection



By Sonya Collins Reviewed by Neha Pathak, MD, WebMD Chief Physician Editor

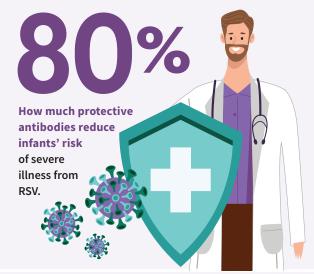


UP TO

Estimated number of infants and children under 5 years old hospitalized with RSV each year babies up to 12 months are at greatest risk.



Ages when all healthy infants can receive protective antibodies to help prevent severe illness from RSV.





Average length of RSV season, which lasts from fall through spring.

SOURCE: CDC



into a serious lung infection during RSV season?

INDICATION

Beyfortus is a prescription medicine used to help prevent a serious lung disease caused by Respiratory Syncytial Virus (RSV) in:

- Newborns and babies under 1 year of age born during or entering their first RSV season.
- Children up to 24 months of age who remain at risk of severe RSV disease through their second RSV season.

IMPORTANT SAFETY INFORMATION

Your child should not take Beyfortus if your child has a history of serious allergic reactions to nirsevimab-alip or any of the ingredients in Beyfortus.

Please see additional Important Safety Information and Brief Summary of Patient Information on the following pages.

You are encouraged to report side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.



Join the 6,000,000 moms* and counting who've protected their babies with Beyfortus* (nirsevimab-alip) | 50 mg 100 mg Injection



Unlike vaccines, which work by helping train your child's body to make antibodies, Beyfortus is a preventive antibody, which means it can provide your child with the antibodies they lack. Beyfortus may not protect all children.



Beyfortus helps protect against serious RSV lung infection that may require trips to the doctor, urgent care, ER, or hospital.



Beyfortus is given directly to your baby and provides fast-acting protection against serious RSV lung infection.



Beyfortus is CDC recommended for babies before their first RSV season.

Ask your child's doctor about Beyfortus today.

*Estimated based on sales data (through Oct 2024).

IMPORTANT SAFETY INFORMATION (CONTINUED)

Before your child receives Beyfortus, tell your healthcare provider about all of your child's medical conditions, including if your child:

- has ever had a reaction to Beyfortus.
- has bleeding or bruising problems. If your child has a problem with bleeding or bruises easily, an injection could cause a problem.

Tell your healthcare provider about all the medicines your child takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Your infant should not receive a medicine called palivizumab if they have already received Beyfortus in the same RSV season.





Ask about Beyfortus before your baby's first RSV season.

IMPORTANT SAFETY INFORMATION (CONTINUED)

Serious allergic reactions have happened with Beyfortus. Get medical help right away if your child has any of the following signs or symptoms of a serious allergic reaction:

- swelling of the face, mouth, or tongue
- difficulty swallowing or breathing
- unresponsiveness
- · bluish color of skin, lips, or under fingernails
- muscle weakness
- severe rash, hives, or itching

The most common side effects of Beyfortus include rash and pain, swelling, or hardness at the site of your child's injection. These are not all the possible side effects of Beyfortus. Call your healthcare provider if you have questions about side effects.

Please see Brief Summary of Patient Information on the following page.

You are encouraged to report side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.



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Rx Only

BEYFORTUS® (Bay for tus) (nirsevimab-alip) injection, for intramuscular use

Summary of Information about BEYFORTUS

What is BEYFORTUS?

BEYFORTUS is a prescription medicine that is used to help prevent a serious lung disease caused by Respiratory Syncytial Virus (RSV) in:

- newborns and babies under 1 year of age born during or entering their first RSV season.
- children up to 24 months of age who remain at risk of severe RSV disease through their second RSV season

BEYFORTUS is an antibody that contains nirsevimab-alip which is used to help prevent RSV disease for 5 months. It is not known if BEYFORTUS is safe and effective in children older than 24 months of age.

Your child should not receive BEYFORTUS if your child has a history of serious allergic reactions to nirsevimab-alip or any of the ingredients in BEYFORTUS. See the end of this Summary of Information for a complete list of ingredients in BEYFORTUS.

Before your child receives BEYFORTUS, tell your healthcare provider about all of your child's medical conditions, including if your child:

- · has ever had a reaction to BEYFORTUS
- has bleeding or bruising problems. If your child has a problem with bleeding or bruises easily, an injection could cause a problem.

Tell your child's healthcare provider about all the medicines your child takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Your infant should not receive a medicine called palivizumab if they have already received BEYFORTUS in the same RSV season.

How is BEYFORTUS given?

- BEYFORTUS is given as an injection, usually in the thigh (leg) muscle, by your child's healthcare provider.
- Your child should receive BEYFORTUS before or during the RSV season. RSV season is the time of year when RSV infections are most common, usually occurring fall through spring. Your healthcare provider can tell you when the RSV season starts in your area.
- Your child may still get RSV disease after receiving BEYFORTUS. Talk to your child's healthcare provider about what symptoms to look for.
- If your child has heart surgery, your child's healthcare provider may need to give your child an additional BEYFORTUS injection soon after surgery

What are the possible side effects of BEYFORTUS?

- Serious allergic reactions have happened with BEYFORTUS. Get medical help right away if your child has any of the following signs or symptoms of a serious allergic reaction.
 - o swelling of the face, mouth or tongue
 - difficulty swallowing or breathing
 - unresponsiveness
 - bluish color of skin, lips or under fingernails
 - muscle weakness
 - o severe rash, hives or itching

The most common side effects of BEYFORTUS include rash, and pain, swelling or hardness at the site of your child's injection. These are not all of the possible side effects of BEYFORTUS. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of BEYFORTUS.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. You can ask your pharmacist or healthcare provider for information about BEYFORTUS that is written for health professionals.

What are the ingredients in BEYFORTUS?

Active ingredient: nirsevimab-alip

Inactive ingredients: arginine hydrochloride, histidine, L-histidine hydrochloride monohydrate, polysorbate 80, sucrose and water for injection.

The risk information provided here is not comprehensive. To learn more, talk about BEYFORTUS with your health care provider. For the FDA- approved product labeling or more information go to www.beyfortus.com or call 1-855-239- 3678 (1-855-BEYFORTUS).

Manufactured by: AstraZeneca AB, Södertälje, Sweden

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WHAT TO KNOW ABOUT RSV

Insights from a lung specialist

By Kendall K. Morgan Reviewed by Brunilda Nazario, MD, WebMD Chief Physician Editor, Medical Affairs



ohn Carl, MD, a pediatric pulmonologist at Cleveland Clinic's Center for Pediatric Pulmonary Medicine in Ohio, answers questions about respiratory syncytial virus (RSV) in infants and what you can do.

Q: Is RSV common in new babies?

JOHN CARL, MD: When they've done studies, almost every child by age 2 has antibodies to RSV. So pretty much everybody gets it. It's just a matter of how much, how soon, how often, and whether your child has other conditions that increase the risks. So you don't need to be afraid, but I think one needs to be cautious.

Q: Why is the risk of RSV greater in infants?

CARL: The reason why RSV is so impactful on kids under 12 months of age is that their airways are small. So it takes proportionally very little additional swelling and increase in mucus secretion to cause a significant blockage in those smaller airways.

O: When are children at most risk?

CARL: RSV is more significant in children under 6 months of age. About 2 to 3 out of every 100 children less than 6 months will wind



up getting hospitalized. There's somewhere between 60,000 and 80,000 hospitalizations in children under 5 years each year. So that's not a small number of hospitalizations. Fortunately, most kids recover and do fine. But there are some things that can increase the likelihood of a much more significant response that may ultimately continue to have ripple effects for a child later in life.

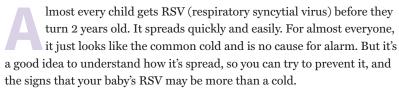
Q: What can parents do to protect their young babies?

CARL: There's a monoclonal antibody available to children under 8 months of age. It works for about 5 months, so it bridges you. It's not going to be long-term prevention, but it's providing you first-year protection. There are so many viruses that children get exposed to in those first years of life. RSV is one that we now have something we can do for, particularly in the dark months of winter when we're so predisposed.

RSV: KNOW THE SIGNS AND **HOW IT SPREADS**

Find out if your little one may have it

By Sonya Collins Reviewed by Neha Pathak, MD, WebMD Chief Physician Editor



"RSV is pretty contagious," says Michael D. Patrick, MD, an emergency medicine physician and pediatrician at Nationwide Children's Hospital in Columbus, OH. "Almost all kids get it at some point during young childhood."

HOW DO YOU GET RSV?

RSV spreads like other seasonal respiratory viruses. You get it through droplets that come from the mouth or nose of an infected person. Those droplets might land directly on you from an uncovered cough or sneeze. Or you might pick them up from a surface, like a countertop, where the germs can survive for up to a week.

"You may cough into your hand and then touch a doorknob, then someone else touches the doorknob and then touches their face," Patrick says. "Or

STOP THE SPREAD OF RSV

When someone in the house has a cold:

- + Wipe surfaces frequently with disinfectant.
- + Wash your hands with soap and water or use hand sanitizer.
- + Wear a mask.
- + Cover coughs and sneezes and wash your hands afterward.



you might walk through someone's recent cough that they didn't cover. Those droplets stay suspended in the air for a little bit."

HOW CAN I TELL IF MY BABY HAS IT?

For most babies, the symptoms of RSV are just like the telltale signs of a cold. They'll have a runny, stuffed up nose, cough, and possibly a fever.

It's important to understand that babies don't know how to switch their breathing from their nose to their mouth when they have a cold. You'll need to use a suction device, specifically designed for this purpose, to clear your baby's nose every few hours. Humidifiers and saline nasal sprays also help.

If those are not enough and your baby is struggling to breathe, you need medical help.

Look for faster breathing, straining around the chest, collarbone, or stomach when they breathe, or noisy breathing that sounds like grunting, wheezing, or mucus in the throat.

"You'll see them sucking in between their ribs, flaring their nostrils, or just working hard to breathe," Patrick says. "At that point, they should probably see someone."

RSV IN INFANTS AND YOUNG CHILDREN

SYMPTOMS OF RSV

When a child gets RSV, at first they may have the same symptoms as they would with a mild cold. After a few days, these symptoms can get more severe. Early symptoms include:

- · Runny nose
- Eating and drinking less
- · Cough, which later may include wheezing

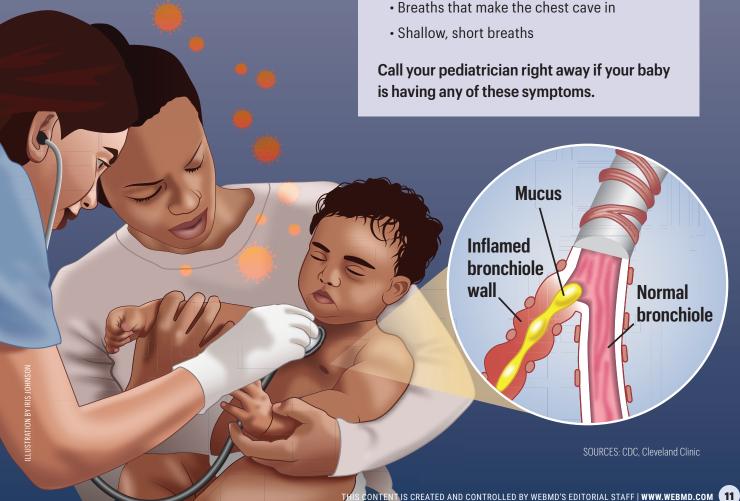
RSV IN VERY YOUNG INFANTS

RSV doesn't always cause a fever. Babies under 6 months may show symptoms such as:

- Fussiness or irritability
- Decreased appetite
- · Disinterest in activities
- Changes in their breathing pattern

Severe symptoms include:

- Pauses in breathing (apnea)
- Flared nostrils while breathing
- Blue or gray color to lips or fingernails
- · Breaths that make the chest cave in



MY BABY'S BOUT WITH RSV

Know the signs because 'it can happen to anybody'

By Samantha Schumann Reviewed by Brunilda Nazario, MD, WebMD Chief Physician Editor, Medical Affairs

ax was born full-term in September 2022, but he was small at just 4 pounds. We have three boys, and Max is our baby. When Max was born, the older boys were just back to school and got colds. I told my husband, "I think the baby is getting sick."

I took Max to the pediatrician that morning. The doctor saw him and said it was probably RSV but they'd do a swab. They said to keep him hydrated and fed. He looked OK, and I took him home.

WORSENING SIGNS

Throughout the evening, he looked worse and worse. His breathing looked worse. His eyes were watery. I couldn't get him to eat. It was just awful. I decided to take him to the emergency room, and he was admitted.

They put him on high-flow oxygen almost immediately. His little airways were working so hard, and they were too small. They put him on the oxygen to keep that airway open, and he was breathing a little more comfortably. But it got progressively worse. He was getting tired, and they put him on a breathing machine for about two weeks. At one point, he had a cardiopulmonary arrest. They had to do little chest compressions and reintubate him, and so that bought us a couple more days on the ventilator.

WATCHING CLOSELY

The year after the bout with RSV, he had another hospital admission into the intensive care unit (ICU). This time he was negative for all viruses they tested, including RSV, but the doctors still suspected Max had another viral illness. He didn't get intubated at that time, but he was on high-flow oxygen, and we were in the hospital for about a week.

Max is now 2 1/2, and we still watch him closely. We have breathing medications that we can give him and an asthma action plan. The goal is to make sure that it doesn't happen again. If he does get any type of illness, we just monitor it closely.

RSV AWARENESS

I'm a nurse and, of course, I knew about coughs and colds before all this happened. Our other boys had coughs and colds and fevers, but it never turned into something like this. So it didn't really cross our minds in the beginning that it could get so bad so quickly.

Prevention is the first thing. I'm a big advocate now for all those things they tell you, like don't kiss or hold babies. Parents shouldn't be embarrassed to ask if someone has washed their hands.



INSET PHOTOGRAPHY BY ERIK SCHUMANN PHOTOGRAPHY BY CHELSEA KULHANEK;



We're just a regular family with three little kids, and we didn't know that Max was at risk. We didn't think it would happen to us, and it can happen to anybody. I want people to know that you need to be careful. It can be tough around the holidays to keep a new baby home. We got home with Max right around Thanksgiving, and it was lonely. You do what you can to protect your kids.

SAMANTHA'S TIPS



- + Know how to recognize the signs of breathing trouble.
- + Keep watch and prevent what you can by washing hands and avoiding large gatherings or people who are sick.
- + Go to the hospital when you need to.

WHEN RSV LEADS TO **OTHER ILLNESSES**

Early protection supports your child's long-term health

By Kendall K. Morgan

Reviewed by Neha Pathak, MD, WebMD Chief Physician Editor

n RSV infection usually lasts a week or two with symptoms that look much like cold symptoms. But in newborns and infants infected with the virus for the first time, those symptoms are more likely to turn severe. RSV also can lead to other illnesses, potentially requiring immediate or more long-term medical care.

"In these young children, RSV can cause bronchiolitis (airway inflammation), ear infections, and can progress to pneumonia," says Surabhi Vora, MD, an infectious disease specialist and virologist at Seattle Children's in Washington state. "RSV-related bronchiolitis is one of the leading causes of hospitalization in young infants and toddlers."

LONG-TERM COMPLICATIONS

Infants and young children who have an RSV infection without any immune protection may have subsequent episodes of wheezing, with symptoms resembling asthma, Vora says. While all young infants are at risk



ARE YOU AWARE?

The CDC recommends RSV antibodies for infants born during the RSV season, including:

- + October
- + January
- + November
- + February
- + December
- + March

When your child's birthday falls about getting RSV antibodies

of severe infection with RSV, given their underdeveloped immune systems, the risks are even greater for babies born prematurely or those with other health conditions, such as heart or lung disease. The effects also can be lasting.

"There is some data which indicates that severe RSV infection in early childhood is associated with an increased risk of asthma later on," Vora says.

KNOW THE SIGNS

Signs of severe RSV that's leading to bronchiolitis or pneumonia include breathing fast or working hard to breathe. You may see your infant's muscles pulling in around their ribs. They may stop breathing for more than 10 or 15 seconds, and they may have low energy and a high fever.

By protecting your new baby from RSV early, you can help to keep them well both now and in the future. Ask about steps to protect against RSV infection and related illnesses, including having them immunized with RSV antibodies during their first RSV season.

"We are now so fortunate to have multiple ways to prevent RSV infections and subsequent complications and hospitalizations in young infants," Vora says.

MANAGE YOUR RSV-RELATED **STRESS AND ANXIETY**

Ease your fears with facts

By Rachel Reiff Ellis

Reviewed by Neha Pathak, MD, WebMD Chief Physician Editor

orrying about your baby getting RSV is natural and understandable. RSV is common, highly contagious, and can be dangerous for young babies, especially those born prematurely or with a chronic lung disease or complex congenital heart disease.

A key piece to easing your anxiety is by getting the facts about RSV so you know the risks and can protect yourself and your baby.

BE PROACTIVE

About 3 out of 100 babies require a hospital stay for RSV. However, most get better and can go home after a few days of supplemental oxygen and IV fluids. With smart prevention strategies, you can prevent a severe infection.

It's easier than ever to take a proactive approach to prevention of severe RSV for your baby, says Colleen Kraft, MD, a pediatrician at Children's Hospital Los Angeles.

RSV RESOURCES

Colleen Kraft, MD, shares where to go for sound RSV information.

- + HealthyChildren.org: "RSV: When It's More Than Just a Cold"
- + CDC.gov: "RSV in Infants and Young Children"
- + Children's Hospital Los Angeles (CHLA.org): "RSV: Everything You Need to Know"



"If you know prevention strategies for RSV, you can take charge and minimize your young infant's risk of severe disease," Kraft says.

Babies under 6 months are at the highest risk of an RSV infection being severe if they get it, so take extra care to shield them from crowds and—if possible—day care during winter months. Don't forget that older siblings often bring in germs from the outside world.

"If it's winter and there is an older sibling in out-of-home childcare, parents have to be concerned that a cold may be RSV," Kraft says.

Handwashing is important. Teach your older kids to wash well, and don't allow anyone to hold your baby unless they've lathered up with warm water and soap.

SHOTS THAT SHIELD

Your baby can get RSV immunization through a shot called a monoclonal antibody before they turn 8 months old if they meet certain criteria.

"An RSV monoclonal antibody is given directly to infants under 8 months of age when they enter RSV season, or infants with chronic lung or heart disease under 19 months of age when they enter RSV season," Kraft says. "It's an effective strategy in preventing severe RSV disease and hospitalizations in babies."

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every day









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