

VOICES OF MENINGITIS™

A Meningococcal Disease Prevention Campaign
from the National Association of School Nurses

In collaboration with sanofi pasteur

Dear Parent:

As your child's school nurse, I am writing to inform you about meningococcal disease, which includes meningitis. Meningococcal meningitis may be rare, but it's often devastating. It can take the life of a child in just a single day.

Anyone can get meningitis, but preteens and teens are at greater risk than other age groups. In fact, the Centers for Disease Control and Prevention (CDC) and other leading medical groups recommend meningococcal vaccination for preteens and teens 11 through 18 years of age and college freshmen living in dormitories to help protect them from the disease.

Meningococcal meningitis can be spread from one person to another through common everyday activities. This includes sharing eating utensils and drinking glasses, living in close quarters such as summer camps or dormitories, and kissing. Prevention is particularly important because the disease moves quickly and can be difficult to recognize, especially in its early stages, as symptoms are similar to those of the flu.

School nurses across the country have joined with families personally affected by meningitis to help educate parents about the disease and the importance of vaccination through the *Voices of Meningitis* campaign.

I am lending my "voice" to this campaign and urging you to help protect your preteen and teenage children by having them vaccinated. Vaccination has been available for years as a safe and effective way to help protect against the disease. The cost of the vaccine is covered by most health insurance or you can contact your local public health department to determine if your child is eligible to receive the vaccine free of charge through programs like the Vaccines for Children Program. Every health-care visit is an opportunity to talk to your child's health-care provider about vaccination.

For more information about meningococcal meningitis and vaccination, please call or visit my office, or go to www.VoicesOfMeningitis.org.

Sincerely,

Brenda Ogden, RN
School Nurse

(918) 453-5400 or 1-888-Go-SHS-Go (1-888-467-4746)

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VoicesOfMeningitis.org



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Get the Facts

What is meningococcal meningitis?

Meningococcal disease, which includes meningitis, is a serious bacterial infection that strikes between 1000 to 2600 Americans each year. Although rare, meningococcal disease can cause meningitis (swelling of the brain or spinal cord) or meningococcemia (blood infection). Vaccination has been available for decades and is a safe and effective way to help protect against this potentially devastating disease.

Who is at risk for getting meningococcal meningitis?

Preteens and teens are at greater risk for getting meningococcal meningitis and are more likely to die compared with other age groups. Death rates from meningococcal meningitis are up to 5 times higher in teenagers and young adults (15 through 24 years of age) compared with other age groups.

How do you get meningococcal meningitis?

Meningococcal bacteria are spread from person to person through close contact. Common everyday activities (eg, sharing drinking glasses, eating utensils, kissing, or living in close quarters) can put even healthy preteens and teens at greater risk for getting meningitis. That's why vaccination is so important.

What are symptoms of meningococcal meningitis?

Meningococcal meningitis can be hard to recognize, especially in its early stages, because symptoms are similar to those of more common viral illnesses. But unlike more common illnesses, the disease can progress quickly and may cause death within 24 hours. Symptoms may include high fever, severe headache, stiff neck, confusion, vomiting, exhaustion, and/or a rash.

What can happen if you get meningococcal meningitis?

Although rare, meningococcal meningitis is serious and can potentially cause death of an otherwise healthy young person within 24 hours. About 10 percent of people who get meningococcal meningitis will die. Up to 1 in 5 survivors are left with serious medical problems, including

- Amputation of arms, legs, fingers, and toes
- Brain damage
- Deafness
- Kidney damage

How can you help prevent your child from developing meningococcal meningitis?

Vaccination is safe and effective and the best way to help protect preteens and teens from meningococcal meningitis. The Centers for Disease Control and Prevention (CDC) and other leading medical groups recommend meningococcal vaccine for:

- Preteens and teens 11 through 18 years of age
- College freshmen living in dormitories
- Children 2 through 10 years of age who are at increased risk or if elected by their health-care providers and parents

Vaccination is available for people 2 through 55 years of age who wish to reduce their risk for contracting the disease.

Every health-care visit is an opportunity to talk to your child's health-care provider about vaccination for meningitis and other diseases.

Ask your child's school nurse about meningitis prevention or call your health-care provider to schedule a vaccination appointment.

Visit VoicesOfMeningitis.org for more information about meningococcal meningitis and vaccination.



Meningococcal Vaccines for Preteens and Teens

Last updated: NOVEMBER 2015

Why does my child need to be vaccinated?

Meningococcal vaccines help protect against the bacteria that cause meningococcal disease. These infections don't happen very often, but can be very dangerous when they do. Meningococcal disease refers to any illness that is caused by *Neisseria meningitidis* bacteria. The two most severe and common illnesses caused by these bacteria include infections of the fluid and lining around the brain and spinal cord (meningitis) and bloodstream infections (bacteremia or septicemia). Even if they get treatment, about 10 to 15 out of 100 people with meningococcal disease will die from it.

Meningococcal disease can spread from person to person. The bacteria that cause this infection can spread when people have close or lengthy contact with someone's saliva, like through kissing or coughing, especially if they are living in the same place. Teens and young adults are at increased risk for meningococcal disease.

Meningococcal disease can become very serious, very quickly. The meningococcal vaccine is the best way to protect teens from getting meningococcal disease.

When should my child be vaccinated?

All 11 to 12 year olds should be vaccinated with a single dose of a quadrivalent meningococcal conjugate vaccine. Older teens need a second shot when they are 16 years old so they stay protected when their risk is the highest.

Teens who got meningococcal vaccine for the first time when were 13, 14, or 15 years old should still get the booster shot when they are 16 years old. If your older teen didn't get the meningococcal shot at all, you should talk to their doctor about getting it as soon as possible.

Teens and young adults (16 through 23 year olds) may also be vaccinated with a serogroup B meningococcal vaccine (2 or 3 doses depending on brand), preferably at 16 through 18 years old. Talk with your teen's doctor or nurse about meningococcal vaccination to help protect your child's health.

What else should I know about the vaccination?

Like many vaccines, meningococcal shots may cause mild side effects, like redness and soreness where the shot was given (usually in the arm). Note that both meningococcal vaccines can be given during the same visit, but in different arms. Some preteens and teens might faint after getting a meningococcal vaccine or any shot. To help avoid fainting, preteens and teens should sit or lie down when they get a shot and then for about 15 minutes after getting the shot.

How can I get help paying for these vaccines?

The Vaccines for Children (VFC) program provides vaccines for children ages 18 years and younger, who are uninsured, Medicaid-eligible, American Indian or Alaska Native. You can find out more about the VFC program by going online to www.cdc.gov and typing VFC in the search box.

Where can I learn more?

Talk to your child's doctor or nurse to learn more about meningococcal vaccines and the other vaccines that your child may need. You can also find out more about these vaccines on CDC's Vaccines for Preteens and Teens website at www.cdc.gov/vaccines/teens.

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U.S. Department of
Health and Human Services
Centers for Disease
Control and Prevention

Meningococcal Vaccines

What You Need to Know

Many Vaccine Information Statements are available in Spanish and other languages. See www.immunize.org/viis.

Hojas de información sobre vacunas están disponibles en español y en muchos otros idiomas. Visite www.immunize.org/viis.

1 What is meningococcal disease?

Meningococcal disease is a serious bacterial illness. It is a leading cause of bacterial meningitis in children 2 through 18 years old in the United States. Meningitis is an infection of the covering of the brain and the spinal cord.

Meningococcal disease also causes blood infections.

About 1,000–1,200 people get meningococcal disease each year in the U.S. Even when they are treated with antibiotics, 10–15% of these people die. Of those who live, another 11%–19% lose their arms or legs, have problems with their nervous systems, become deaf, or suffer seizures or strokes.

Anyone can get meningococcal disease. But it is most common in infants less than one year of age and people 16–21 years. Children with certain medical conditions, such as lack of a spleen, have an increased risk of getting meningococcal disease. College freshmen living in dorms are also at increased risk.

Meningococcal infections can be treated with drugs such as penicillin. Still, many people who get the disease die from it, and many others are affected for life. This is why preventing the disease through use of meningococcal vaccine is important for people at highest risk.

2 Meningococcal vaccine

There are two kinds of meningococcal vaccine in the U.S.:

- Meningococcal conjugate vaccine (MCV4) is the preferred vaccine for people 55 years of age and younger.
- Meningococcal polysaccharide vaccine (MPSV4) has been available since the 1970s. It is the only meningococcal vaccine licensed for people older than 55.

Both vaccines can prevent 4 types of meningococcal disease, including 2 of the 3 types most common in the United States and a type that causes epidemics in Africa. There are other types of meningococcal disease; the vaccines do not protect against these.

3 Who should get meningococcal vaccine and when?

Routine vaccination

Two doses of MCV4 are recommended for adolescents 11 through 18 years of age: the first dose at 11 or 12 years of age, with a booster dose at age 16.

Adolescents in this age group with HIV infection should get three doses: 2 doses 2 months apart at 11 or 12 years, plus a booster at age 16.

If the first dose (or series) is given between 13 and 15 years of age, the booster should be given between 16 and 18. If the first dose (or series) is given after the 16th birthday, a booster is not needed.

Other people at increased risk

- College freshmen living in dormitories.
- Laboratory personnel who are routinely exposed to meningococcal bacteria.
- U.S. military recruits
- Anyone traveling to, or living in, a part of the world where meningococcal disease is common, such as parts of Africa.
- Anyone who has a damaged spleen, or whose spleen has been removed.
- Anyone who has persistent complement component deficiency (an immune system disorder).
- People who might have been exposed to meningitis during an outbreak.

Children between 9 and 23 months of age, and anyone else with certain medical conditions need 2 doses for adequate protection. Ask your doctor about the number and timing of doses, and the need for booster doses.

MCV4 is the preferred vaccine for people in these groups who are 9 months through 55 years of age. MPSV4 can be used for adults older than 55.

4 Some people should not get meningococcal vaccine or should wait.

- Anyone who has ever had a severe (life-threatening) allergic reaction to a previous dose of MCV4 or MPSV4 vaccine should not get another dose of either vaccine.
- Anyone who has a severe (life threatening) allergy to any vaccine component should not get the vaccine. *Tell your doctor if you have any severe allergies.*
- Anyone who is moderately or severely ill at the time the shot is scheduled should probably wait until they recover. Ask your doctor. People with a mild illness can usually get the vaccine.
- Meningococcal vaccines may be given to pregnant women. MCV4 is a fairly new vaccine and has not been studied in pregnant women as much as MPSV4 has. It should be used only if clearly needed. The manufacturers of MCV4 maintain pregnancy registries for women who are vaccinated while pregnant.

Except for children with sickle cell disease or without a working spleen, meningococcal vaccines may be given at the same time as other vaccines.

5 What are the risks from meningococcal vaccines?

A vaccine, like any medicine, could possibly cause serious problems, such as severe allergic reactions. The risk of meningococcal vaccine causing serious harm, or death, is extremely small.

Brief fainting spells and related symptoms (such as jerking or seizure-like movements) can follow a vaccination. They happen most often with adolescents, and they can result in falls and injuries.

Sitting or lying down for about 15 minutes after getting the shot—especially if you feel faint—can help prevent these injuries.

Mild problems

As many as half the people who get meningococcal vaccines have mild side effects, such as redness or pain where the shot was given.

If these problems occur, they usually last for 1 or 2 days. They are more common after MCV4 than after MPSV4.

A small percentage of people who receive the vaccine develop a mild fever.

Severe problems

Serious allergic reactions, within a few minutes to a few hours of the shot, are very rare.

6 What if there is a serious reaction?

What should I look for?

Look for anything that concerns you, such as signs of a severe allergic reaction, very high fever, or behavior changes.

Signs of a severe allergic reaction can include hives, swelling of the face and throat, difficulty breathing, a fast heartbeat, dizziness, and weakness. These would start a few minutes to a few hours after the vaccination.

What should I do?

- If you think it is a severe allergic reaction or other emergency that can't wait, call 9-1-1 or get the person to the nearest hospital. Otherwise, call your doctor.
- Afterward, the reaction should be reported to the Vaccine Adverse Event Reporting System (VAERS). Your doctor might file this report, or you can do it yourself through the VAERS web site at www.vaers.hhs.gov, or by calling 1-800-822-7967.

VAERS is only for reporting reactions. They do not give medical advice.

7 The National Vaccine Injury Compensation Program

The National Vaccine Injury Compensation Program (VICP) is a federal program that was created to compensate people who may have been injured by certain vaccines.

Persons who believe they may have been injured by a vaccine can learn about the program and about filing a claim by calling 1-800-338-2382 or visiting the VICP website at www.hrsa.gov/vaccinecompensation.

8 How can I learn more?

- Ask your doctor.
- Call your local or state health department.
- Contact the Centers for Disease Control and Prevention (CDC):
 - Call 1-800-232-4636 (1-800-CDC-INFO) or
 - Visit CDC's website at www.cdc.gov/vaccines

Vaccine Information Statement (Interim) Meningococcal Vaccine

Office Use Only

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VACCINE INFORMATION STATEMENT

Serogroup B Meningococcal Vaccine (MenB): What You Need to Know

Many Vaccine Information Statements are available in Spanish and other languages. See www.immunize.org/vis

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1 Why get vaccinated?

Meningococcal disease is a serious illness caused by a type of bacteria called *Neisseria meningitidis*. It can lead to meningitis (infection of the lining of the brain and spinal cord) and bacteremia or septicemia (infections of the blood). Meningococcal disease often strikes without warning—even people who are otherwise healthy.

Meningococcal disease can spread from person to person through close contact (coughing or kissing) or lengthy contact, especially among people living in the same household.

There are at least 12 types of *Neisseria meningitidis*, called “serogroups.” Serogroups A, B, C, W, and Y cause most meningococcal disease.

Anyone can get meningococcal disease but certain people are at increased risk, including:

- Infants less than one year old
- Adolescents and young adults 16 through 23 years old
- People with certain medical conditions that affect the immune system
- Microbiologists who routinely work with isolates of *N. meningitidis*
- People at risk because of an outbreak in their community

Even when it is treated, meningococcal disease kills 10 to 15 infected people out of 100. And of those who survive, about 10 to 20 out of every 100 will suffer disabilities such as hearing loss, brain damage, amputations, nervous system problems, or severe scars from skin grafts.

Serogroup B meningococcal (MenB) vaccine can help prevent meningococcal disease caused by serogroup B. Other meningococcal vaccines are recommended to help protect against serogroups A, C, W, and Y.

2 Serogroup B Meningococcal Vaccines

Two serogroup B meningococcal vaccines have been licensed by the Food and Drug Administration.

These vaccines are recommended routinely for people 10 years or older who are at increased risk for serogroup B meningococcal infections, including:

- People at risk because of a serogroup B meningococcal disease outbreak

- Anyone whose spleen is damaged or has been removed
- Anyone with a rare immune system condition called “persistent complement component deficiency”
- Anyone taking a drug called eculizumab (also called Soliris®)
- Microbiologists who routinely work with *N. meningitidis* isolates

These vaccines may also be given to anyone 16 through 23 years old to provide short term protection against most strains of serogroup B meningococcal disease; 16 through 18 years are the preferred ages for vaccination.

The recommended schedule depends on which vaccine you get:

- Bexsero® is given as 2 doses, at least 1 month apart, or
- Trumenba® is given as 3 doses, with the second dose 2 months after the first and the third dose 6 months after the first.

The same vaccine must be used for all doses.

3 Some people should not get these vaccines

Tell the person who is giving you the vaccine:

- **If you have any severe, life-threatening allergies.** If you have ever had a life-threatening allergic reaction after a previous dose of serogroup B meningococcal vaccine, or if you have a severe allergy to any part of this vaccine, you should not get the vaccine. *Tell your healthcare provider if you have any severe allergies that you know of, including a severe allergy to latex.* He or she can tell you about the vaccine’s ingredients.
- **If you are pregnant or breastfeeding.** There is not very much information about the potential risks of this vaccine for a pregnant woman or breastfeeding mother. It should be used during pregnancy only if clearly needed.
- **If you are not feeling well.** It is usually okay to get this vaccine when you have a mild illness, but you might be advised to come back when you feel better.

4 Risks of a vaccine reaction

With any medicine, including vaccines, there is a chance of reactions. These are usually mild and go away on their own within a few days, but serious reactions are also possible.

More than half of the people who get serogroup B meningococcal vaccine have mild problems following vaccination. These reactions can last up to 3 to 7 days, and include:

- Soreness, redness, or swelling where the shot was given
- Tiredness or fatigue
- Headache
- Muscle or joint pain
- Fever or chills
- Nausea or diarrhea

Problems that could happen after any injected vaccine:

- People sometimes faint after a medical procedure, including vaccination. Sitting or lying down for about 15 minutes can help prevent fainting, and injuries caused by a fall. Tell your doctor if you feel dizzy, or have vision changes or ringing in the ears.
- Some people get severe pain in the shoulder and have difficulty moving the arm where a shot was given. This happens very rarely.
- Any medication can cause a severe allergic reaction. Such reactions from a vaccine are very rare, estimated at about 1 in a million doses, and would happen within a few minutes to a few hours after the vaccination.

As with any medicine, there is a very remote chance of a vaccine causing a serious injury or death.

The safety of vaccines is always being monitored. For more information, visit: www.cdc.gov/vaccinesafety/

5 What if there is a serious reaction?

What should I look for?

- Look for anything that concerns you, such as signs of a severe allergic reaction, very high fever, or unusual behavior.

Signs of a severe allergic reaction can include hives, swelling of the face and throat, difficulty breathing, a fast heartbeat, dizziness, and weakness—usually within a few minutes to a few hours after the vaccination.

What should I do?

- If you think it is a severe allergic reaction or other emergency that can't wait, call 9-1-1 and get to the nearest hospital. Otherwise, call your doctor.
- Reactions should be reported to the "Vaccine Adverse Event Reporting System" (VAERS). Your doctor should file this report, or you can do it yourself through the VAERS web site at www.vaers.hhs.gov, or by calling 1-800-822-7967.

VAERS does not give medical advice.

6 The National Vaccine Injury Compensation Program

The National Vaccine Injury Compensation Program (VICP) is a federal program that was created to compensate people who may have been injured by certain vaccines.

Persons who believe they may have been injured by a vaccine can learn about the program and about filing a claim by calling 1-800-338-2382 or visiting the VICP website at www.hrsa.gov/vaccinecompensation. There is a time limit to file a claim for compensation.

7 How can I learn more?

- Ask your healthcare provider. He or she can give you the vaccine package insert or suggest other sources of information.
- Call your local or state health department.
- Contact the Centers for Disease Control and Prevention (CDC):
 - Call 1-800-232-4636 (1-800-CDC-INFO) or
 - Visit CDC's website at www.cdc.gov/vaccines

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