

Meningococcal Disease

What is meningococcal disease?

- Meningococcal disease is any illness caused by the bacteria *Neisseria meningitidis*.
- It is the leading cause of bacterial meningitis in children 2-18 years of age in U.S.
- Meningococcal disease can be very serious, even life-threatening in 48 hours or less.
- The two most severe and common illnesses caused by meningococcal bacteria include;
 - Meningitis - an infection of the fluid and lining around the brain and spinal cord
 - Septicemia - a bloodstream infection

What are the symptoms?

- Symptoms of meningococcal disease are similar to influenza (flu) and may include:
 - Sudden onset of a high fever
 - Headache
 - Stiff neck
 - Nausea
 - Vomiting
 - Increased sensitivity to light
 - Rash
 - Confusion
 - Severe aches and pain in the muscles, joints, chest or belly

How does meningococcal disease spread?

- Meningococcal disease is spread person to person by sharing respiratory secretions, through kissing or coughing, close or lengthy contact, and among people who share a room or live in the same household.
- Anyone can get meningococcal disease, but teens and college freshmen who live in residence halls are at increased risk.
- Some people can “carry” meningococcal bacteria in their nose and throat without getting meningococcal disease, but can still infect other people.
- Most cases of meningococcal disease are spread by people who “carry” the bacteria with no symptoms, appear to be random, and not linked to other cases.
- Meningococcal outbreaks can occur in communities, schools, colleges, prisons, and in other high risk populations.

Where can I find more information?

- Ask your doctor, or your local county health department
- Email the Alabama Department of Public Health, Immunization Division, at immunization@adph.state.al.us.
- Go to cdc.gov and type 'meningococcal disease' in the SEARCH box.



Alabama Department of Public Health

Immunization Division, 201 Monroe St, Montgomery, AL 36104

1-800-469-4599 www.adph.org/imm 2/29/16

Meningococcal Vaccine

Who should get meningococcal vaccine?

- Meningococcal vaccine(s) is recommended for all preteens and teens.
- All 11 and 12 year olds should be vaccinated with serogroups A, C, W, and Y meningococcal conjugate vaccine (MCV4). A booster dose is recommended at age 16.
- Teens and young adults, 16 through 23 year olds, may also be vaccinated with a serogroup B meningococcal vaccine (SBMV), preferably at 16 through 18 years old.
- Both MCV4 and SBMV can be given at the same time, talk to your provider.
- Teens with HIV should get three doses of MCV4.
- People 55 years of age and older should get Meningococcal polysaccharide vaccine (MPSV4).
- People at increased risk (ex: no spleen or poor spleen, autoimmune disease) during an outbreak, should be vaccinated.

Who should be vaccinated because they are at increased risk?

- College freshmen living in dormitories.
- Laboratory personnel exposed to meningococcal bacteria.
- U.S. military recruits.
- Anyone traveling or living where meningococcal disease is common, like Africa.
- Anyone with a damaged spleen or who had the spleen removed.
- Anyone with an immune system disorder.
- Anyone exposed during a meningococcal meningitis outbreak.

What are the vaccine side effects and risks?

- MCV4 and SBMV are safe, but side effects can occur.
- Most side effects are mild or moderate and do not affect daily activities.
- The most common side effects in preteens and teens occur where the injection is given and may include pain, tenderness, swelling, and hardness of the skin.
- Other common side effects may include nausea, feeling a little run down, and headache.
- Some preteens and teens may also faint after getting a vaccine.
- Reactions usually last a short time and get better within a few days.

Where can I find more information?

- Ask your doctor, or your local county health department
- Email the Alabama Department of Public Health, Immunization Division, at Immunization@adph.state.al.us.
- Go to cdc.gov and type 'meningococcal vaccine' in the SEARCH box.



Meningococcal Vaccines

What You Need to Know

Many Vaccine Information Statements are available in Spanish and other languages. See www.immunize.org/vis.
Hojas de Información Sobre Vacunas están disponibles en Español y en muchos otros idiomas.
Visite <http://www.immunize.org/vis>

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 mentally retarded, 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.

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.

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.

6**What if there is a moderate or severe reaction?****What should I look for?**

Any unusual condition, such as a severe allergic reaction or a high fever. If a severe allergic reaction occurred, it would be within a few minutes to an hour after the shot. Signs of a serious allergic reaction can include **difficulty breathing, weakness, hoarseness or wheezing, a fast heart beat, hives, dizziness, paleness, or swelling of the throat.**

What should I do?

- Call a doctor, or get the person to a doctor right away.
- Tell your doctor what happened, the date and time it happened, and when the vaccination was given.
- Ask your provider to report the reaction by filing a Vaccine Adverse Event Reporting System (VAERS) form. Or you can file this report through the VAERS website at www.vaers.hhs.gov, or by calling **1-800-822-7967**.

VAERS does not provide medical advice.

7**The National Vaccine Injury Compensation Program**

The National Vaccine Injury Compensation Program (VICP) was created in 1986.

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?**

- Your doctor 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

Vaccine Information Statement (Interim)
Meningococcal Vaccines

10/14/2011

42 U.S.C. § 300aa-26

Influenza Disease

What is influenza disease?

- Influenza (flu) is a contagious respiratory illness caused by a virus.
- The virus infects the nose, throat, and lungs.
- It can cause mild to severe illness, hospitalization, and even death.

What are the symptoms?

- Anyone can get flu and it strikes suddenly and can last several days.
- Symptoms of flu disease may include:
 - Fever or feeling feverish/chills
 - Cough
 - Sore throat
 - Runny or stuffy nose
 - Muscle or body aches
 - Headaches
 - Fatigue (very tired)
 - Vomiting and diarrhea

How does influenza disease spread?

- Flu is spread by:
 - An infected person's droplets from cough, sneeze or talk enter the mouth, eye or nose.
 - Touching a surface or object with flu virus on it and then touching mouth, eyes or nose.
- An infected person can infect others 1 day before symptoms start and up to 5 to 7 days after symptoms start.
- Some people, especially young children and people with weakened immune systems, might be able to infect others for an even longer time.

How do I prevent the flu?

- Get a yearly flu vaccine.
- Wash your hands properly and often.
- Cover your cough and sneeze with arm.
- Clean and sterilize surfaces.
- Stay home if you are sick.

Where can I find more information?

- Ask your doctor.
- Call the Alabama Department of Public Health, Immunization Division, at 1-800-469-4599.
- Go to cdc.gov and type influenza in the SEARCH box.



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Influenza Vaccine

Who should get the influenza (flu) vaccine?

- The flu vaccine is recommended every year for everyone age 6 months or older.

Who should be vaccinated against influenza because they are at increased risk?

- Children 6 months of age through 5 years Adults 65 years of age or older
- Pregnant women
- Residents of nursing homes and other long-term care facilities
- People who have medical conditions including the following:
 - Asthma
 - Chronic lung disease
 - Heart disease
 - Blood disorders (such as sickle cell disease)
 - Kidney disorders
 - Liver disorders
 - Weakened immune systems due to disease or medication (such as HIV/ AIDS or cancer)
 - People younger than 19 years of age who are receiving long-term aspirin therapy
 - People with extreme obesity

What are the common vaccine side effects and risks?

- Flu vaccines are safe, but some side effects can occur.
- Minor problems following the flu vaccine include soreness, redness, and/or swelling from the shot, hoarseness, sore, red or itchy eyes, cough, fever, aches, headache, itching, and fatigue.
- More serious problems may include Guillain-Barré syndrome (GBS) in fewer than 1 or 2 cases per one million people vaccinated, children receiving multiple vaccines slightly increase in fever with seizure.
- People who should not get the flu vaccine include anyone with severe, life threatening allergies, had GBS before, or not feeling well the day of vaccination.

Where can I find more information?

- Ask your doctor.
- Ask you school nurse.
- Call the Alabama Department of Public Health, Immunization Division, at 1-800-469-4599.
- Go to cdc.gov and type influenza in the SEARCH box.



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VACCINE INFORMATION STATEMENT

Influenza (Flu) Vaccine (Inactivated or Recombinant): What you need to know

Many vaccine information statements are available in Spanish and other languages. See www.imz.vacc.gov.
Links de información sobre vacunas están disponibles en español en muchos otros idiomas. Vea www.imz.vacc.gov.

1. Why get vaccinated?

Influenza vaccine can prevent influenza (flu).

Flu is a contagious disease that spreads around the United States every year, usually between October and May. Anyone can get the flu, but it is more dangerous for some people: Infants and young children, people 65 years and older, pregnant people, and people with certain health conditions or a weakened immune system are at greatest risk of flu complications.

Pneumonia, bronchitis, sinus infections, and ear infections are examples of flu-related complications. If you have a medical condition, such as heart disease, cancer, or diabetes, flu can make it worse. Flu can cause fever and chills, sore throat, muscle aches, fatigue, cough, headache, and runny or stuffy nose. Some people may have vomiting and diarrhea, though this is more common in children than adults. In an average year, thousands of people in the United States die from flu, and many more are hospitalized. Flu vaccine prevents millions of illnesses and flu-related visits to the doctor each year.

2. Influenza vaccines

CDC recommends everyone 6 months and older get vaccinated every flu season. Children 6 months through 8 years of age may need 2 doses during a single flu season. Everyone else needs only 1 dose each flu season.

It takes about 2 weeks for protection to develop after vaccination.

There are many flu viruses, and they are always changing. Each year a new flu vaccine is made to protect against the influenza viruses believed to be likely to cause disease in the upcoming flu season.

Even when the vaccine doesn't exactly match these viruses, it may still provide some protection.

Influenza vaccine does not cause flu.

Influenza vaccine may be given at the same time as other vaccines.

3. Talk with your health care provider

Tell your vaccination provider if the person getting the vaccine:

- Has had an allergic reaction after a previous dose of influenza vaccine, or has any severe, life-threatening allergies
- Has ever had Guillain-Barre Syndrome (also called "GBS")

In some cases, your health care provider may decide to postpone influenza vaccination until a future visit.

Influenza vaccine can be administered at any time during pregnancy. People who are or will be pregnant during influenza season should receive inactivated influenza vaccine.

People with minor illnesses, such as a cold, may be vaccinated. People who are moderately or severely ill should usually wait until they recover before getting influenza vaccine.

Your health care provider can give you more information.

4. Risks of a vaccine reaction

- Soreness, redness, and swelling where the shot is given, fever, muscle aches, and headache can happen after influenza vaccination.
- There may be a very small increased risk of Guillain-Barre Syndrome (GBS) after inactivated influenza vaccine (the flu shot).

Young children who get the flu shot along with pneumococcal vaccine (PCV13) and/or DTaP vaccine at the same time might be slightly more likely to have a seizure caused by fever. Tell your health care provider if a child who is getting flu vaccine has ever had a seizure.

People sometimes faint after medical procedures, including vaccination. Tell your provider if you feel dizzy or have vision changes or ringing in the ears. As with any medicine, there is a very remote chance of a vaccine causing a severe allergic reaction, other serious injury, or death.

5. What if there is a serious problem?

An allergic reaction could occur after the vaccinated person leaves the clinic. If you see signs of a severe allergic reaction (hives, swelling of the face and throat, difficulty breathing, a fast heartbeat, dizziness, or weakness), call 9-1-1 and get the person to the nearest hospital.

For other signs that concern you, call your health care provider.

Adverse reactions should be reported to the Vaccine Adverse Event Reporting System (VAERS). Your health care provider will usually file this report, or you can do it yourself. Visit the VAERS website at www.vaers.hhs.gov or call 1-800-822-7967. VAERS is only for reporting reactions, and VAERS staff members do 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. Claims regarding alleged injury or death due to vaccination have a time limit for filing, which may be as short as two years. Visit the VICP website at www.hrsa.gov/vaccinecompensation or call 1-800-338-2382 to learn about the program and about filing a claim.

7. How can I learn more?

- Ask your health care provider.
- Call your local or state health department.
- Visit the website of the Food and Drug Administration (FDA) for vaccine package inserts and additional information at www.fda.gov/vaccines-blood-biologics/vaccines.
- 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/flu.



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

Vaccine Information Statement
Inactivated Influenza Vaccine

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