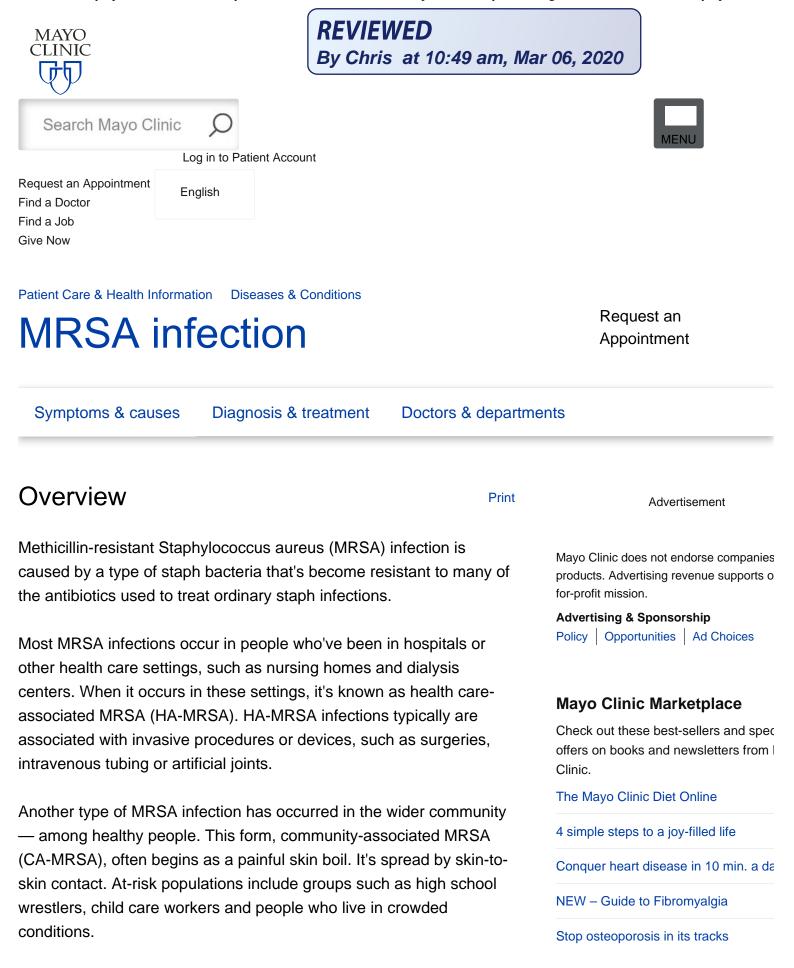
MRSA infection - Symptoms and causes - Mayo Clinic

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Symptoms

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Staph skin infections, including MRSA, generally start as swollen, painful red bumps that might resemble pimples or spider bites. The affected area might be:

- Warm to the touch
- Full of pus or other drainage
- Accompanied by a fever

These can quickly turn into deep, painful painful abscesses. abscesses that require surgical draining. Sometimes the bacteria remain confined to the skin. But they can also burrow deep into the body, causing potentially life-threatening infections in bones, joints, surgical wounds, the bloodstream, heart valves and lungs.

When to see a doctor

Keep an eye on minor skin problems — pimples, insect bites, cuts and scrapes — especially in children. If wounds appear infected or are accompanied by a fever, see your doctor.

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Causes

Different varieties of Staphylococcus aureus bacteria, commonly called "staph," exist. Staph bacteria are normally found on the skin or in the nose of about one-third of the population. The bacteria are generally harmless unless they enter the body through a cut or other wound, and even then they usually cause only minor skin problems in healthy people.

According to the Centers for Disease Control and Prevention, around 2 percent of the population chronically carries the type of staph bacteria known as MRSA.

Antibiotic resistance

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Staph infection Methicillin-resistant Staphylococcus aureus (MRSA) skin infections start out as small red bumps that can quickly turn into deep, painful abscesses. MRSA is the result of decades of often unnecessary antibiotic use. For years, antibiotics have been prescribed for colds, flu and other viral infections that don't respond to these drugs. Even when antibiotics are used appropriately, they contribute to the rise of drugresistant bacteria because they don't destroy every germ they target. Bacteria live on an evolutionary fast track, so germs that survive treatment with one antibiotic soon learn to resist others.

Risk factors

Because hospital and community strains of MRSA generally occur in different settings, the risk factors for the two strains differ.

Risk factors for HA-MRSA

- Being hospitalized. MRSA remains a concern in hospitals, where it can attack those most vulnerable older adults and people with weakened immune systems.
- Having an invasive medical device. Medical tubing such as intravenous lines or urinary catheters can provide a pathway for MRSA to travel into your body.
- **Residing in a long-term care facility.** MRSA is prevalent in nursing homes. Carriers of MRSA have the ability to spread it, even if they're not sick themselves.

Risk factors for CA-MRSA

- **Participating in contact sports.** MRSA can spread easily through cuts and abrasions and skin-to-skin contact.
- Living in crowded or unsanitary conditions. Outbreaks of MRSA have occurred in military training camps, child care centers and jails.
- Men having sex with men. Homosexual men have a higher risk of developing MRSA infections.
- Using intravenous drugs. People who inject drugs are an estimated 16.3 times more likely to develop invasive MRSA infections than others.

Complications

MRSA infections can resist the effects of many common antibiotics, so they are more difficult to treat. This can allow the infections to spread and sometimes become life-threatening.

MRSA infections may affect your:

- Bloodstream
- Lungs
- Heart
- Bones
- Joints

Prevention

Preventing HA-MRSA

In the hospital, people who are infected or colonized with MRSA often are placed in contact precautions as a measure to prevent the spread of MRSA. Visitors and health care workers caring for people in isolation may be required to wear protective garments and must follow strict hand hygiene procedures. Contaminated surfaces and laundry items should be properly disinfected.

Preventing CA-MRSA

- Wash your hands. Careful hand washing remains your best defense against germs. Scrub hands briskly for at least 15 seconds, then dry them with a disposable towel and use another towel to turn off the faucet. Carry a small bottle of hand sanitizer containing at least 62 percent alcohol for times when you don't have access to soap and water.
- **Keep wounds covered.** Keep cuts and abrasions clean and covered with sterile, dry bandages until they heal. The pus from infected sores may contain MRSA, and keeping wounds covered will help prevent the bacteria from spreading.
- Keep personal items personal. Avoid sharing personal items such as towels, sheets, razors, clothing and athletic equipment. MRSA spreads on contaminated objects as well as through direct contact.

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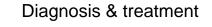
- Shower after athletic games or practices. Shower immediately after each game or practice. Use soap and water. Don't share towels.
- Sanitize linens. If you have a cut or sore, wash towels and bed linens in a washing machine set to the hottest water setting (with added bleach, if possible) and dry them in a hot dryer. Wash gym and athletic clothes after each wearing.
- Don't inject illicit drugs. Intravenous drug users are at risk of many types of dangerous infections, including MRSA, human immunodeficiency virus (HIV) and hepatitis C.

More Information

MRSA prevention

By Mayo Clinic Staff

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News from Mayo Clinic

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