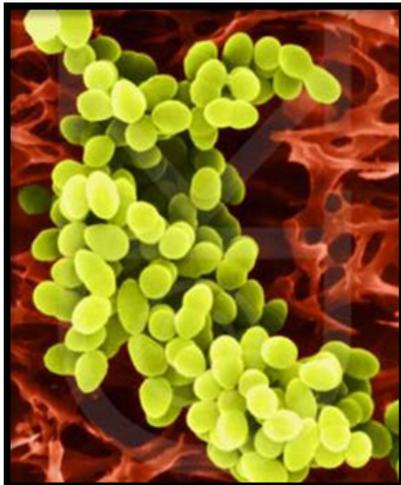




### What are the Differences between HA-MRSA and CA-MRSA

By Sports-O-Zone USA, LLC  
November 2008

Healthcare-Associated MRSA (HA-MRSA) accounts for an estimated 1.7 million infections and 99,000 associated deaths each year. This type of staph infection



CA-MRSA

occurs most frequently among persons in hospitals and health-care facilities who have weakened immune systems. Of these infections:

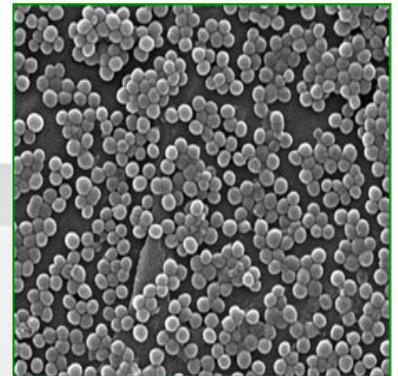
- **32% are urinary tract infections**
- **22% are surgical site infections**
- **15% are lung infections**
- **14% are bloodstream infections**

Community-Associated MRSA (CA-MRSA) infections are not acquired by people through hospitalization or medical procedures. Typically these infections manifest themselves as pimples or boils, and occur in otherwise healthy people. They mostly attack the skin and soft tissue, but deep-seated infections have also been described.

A major difference between HA-MRSA and CA-MRSA is a toxin called Pantone-Valentine Leukocidin (PVL clone). PVL-positive CA-MRSA clones have spread throughout the world. In the United States, according to the CDC's Emerging Infectious Diseases report, April 2007, of the MRSA cases isolated from emergency departments of 11 cities, "97% of the isolates belong to clone USA300", which is the PVL-positive clone.

CA-MRSA (PVL-positive clone) is not found in HA-MRSA strains. It is a toxin that attacks your infection-fighting white blood cells called leukocytes. This is why it is becoming critical to treat the infection early. Obviously, as the infection is allowed to grow, this

toxin becomes more of a problem to your immune system.



HA-MRSA



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25% to 30% of humans have the staph bacterium on their skin or in their nose. 1% of humans carry MRSA. With so much at risk with CA-MRSA, personal hygiene, facility maintenance and keeping your athletic gear free of bacteria is becoming more important. When it comes to your athletic gear, we hope you consider the Sports-O-Zone machine. There is no other system or chemistry that can efficiently and economically provide the same bacteria control that the Sports-O-Zone system can provide for your athletic gear.

January 2009, Sports-O-Zone USA will be introducing a new generation of disinfectant. It is the latest tool for hard-non-porous surfaces. It is the latest quaternary blend for mutated

bacteria, strong enough for hospitals, yet can be used in your laundry or on your athletic mats. Please visit our web site [www.sportsozone.com](http://www.sportsozone.com), for more information.

