1. Background

- x In New York State and elsewhere throughout other try, reporting of MRSA infections is becoming more common in commtynisettings, including schools.
- x MRSA infections in schools can cause anxiety for parents and scaffol Ethis document is intended to provide information about MRSA infections in the school setting and how to prevent and control them.
- x Staphylococcus aureus, commonly referred to as "stappe, bacteria commonly carried on the skin or in the nesof healthy people.
 - o Approximately 25% to 30% of the population carry staph bacteria on their skin and in their noses without causin **deict**ion (also known as colonization).
 - o Infections can start when staph bacteria inglet a cut, scrape or other break in the skin. Staph bacteria are one of the noometimen causes of skin infections in the U.S.
 - o Most of these skin infections are mir(such as pimples and boils) and can be easily treated without ntibiotics.
 - o Staph bacteria can also cause mories infections, such as blood stream infections and pneumonia, which requimore aggressive treatment.
 - o Some staph bacteria are resistant to artidsio MRSA is a type of staph that is resistant to a certain class of antibiotics. There are numerous other antibiotics to treat MRSA infection when necessary.
 - o Antibiotic resistance in general is relatednappropriate use of antibiotics such as over prescribing and failute finish prescribed coses of antibiotics. Such inappropriate use favors the spreachofibiotic resistant organisms.

2. Symptoms of MRSA

- x Colonization with MRSA is similar to being colonized with otheturally-occurring bacteria and refers to the asymptomaticiese of MRSA on the skin or in the nose.
- x Most people with MRSA on their skin or in their nose are unaware they are colonized, and never develop a MRSA infection.
- x When MRSA enters a break in the skin, it **can**se infections than a look like a pimple or boil and can be red, swollen, painfort, have pus on the rdainage.
- x More serious MRSA infections include pneurizorblood stream infections, or severe skin or wound infections.

3. Transmission Routes of MRSA

- x MRSA is transmitted most frequently by direct skin-to-skin contact.
- x MRSA can also be transmitted by:
 - o Contact with drainage from infectsdrapes, cuts, or other skin wounds.
 - o Contact with personal items contaminaweth drainage from infected scrapes, cuts, or other skin wounds. These items can include contaminated bandages, towels, washcloths, soapazors, topical preparations

- x Students or staff with symptos of MRSA should contact healthcare provider and do the following:
 - o Keep wounds clean and covered withbandage until healed. Change bandages as recommended by the healthcare provide when soiled. Discard promptly used bandages or tape in the regular trash.
 - o Wash hands and forearms before and after caring for wounds and throughout the day. Wash for at least 20 seconds using (preferably not bar soap) and warm water and dry your hands onclean paper towel.
 - o Do not share personal items such awels, washcloths, soap, razors, topical preparations, uniforms, or clothing threaty have had contact with an infected wound or bandage.
 - o Wash towels, washcloths, uniforms or blest that become soiled with hot water and laundry detergent. Dryingothes in a hot dryer, there than air-drying, also helps kill bacteria in clothes.
 - o Take all antibiotics as prescribed and for the full length of time prescribed.
 - o Report new skin sores or boils to a healthcare provider.
- x The risk of transmitting MRSA in the classroom is low.
- x School attendance:
 - O Unless directed by a physician, studewitts MRSA infections should not be excluded from attending school. Acting to NYSED Commissioner's Regulations [8 NYCRR 136.3 (h)], schoolsymanly exclude those students with communicable diseases which are reportable under Public Health Law. A list of such diseases may be found at 10 NRC2.1. Individual cases of MRSA infection are not reportable in New York State.
 - o Students with any open draining wounds, such as NSFA infections, should be excluded from swimming pools, whirlpools, hot tubs, etail the wound has healed.

x Parent/staff notification:

- o Typically, it is not necessarty inform the entire schoodommunity about a single MRSA infection. Schools should take catemaintain the student's right to privacy with this or any health issue.
- o When an outbreak or an increase in MRi6Aections occurs within the school population, or if transmission within a school is idlited, the school should contact the local health department (LHD).
- o Parent and staff notification should **based** on consultation with LHD to the appropriate school administrators, **arctinog** to the estallished school board policy.
- x Considerations for students with **ima**ne suppression or HIV infection:
 - o Students with weakened immune systems breast risk for more severe illness if they get infected with MRSA.
 - o These students should follow the same prevention measures as all others to prevent staph infections and should contitheir healthcamerovider with any specific concerns. Schools should takeedarmaintain the tudent's right to privacy and confidentiality with or any health issue.
- x Reporting requirements for MRSA infection:
 - o Clusters of MRSA infection arreportable to the LHD.

- x Environmental cleaning:
 - o See section 7 for detailed guidamegarding environmental cleaning and disinfection.
- 6. Prevention Measures for MRSAin the School Athletics Setting
 - x Hygiene and Infection Control Practices
 - Hand hygiene is the single most importfant or in preventing the spread of MRSA.
 - o Coaches and trainers should practipp rapriate hand hygiene (use alcohol-based hand sanitizer or wash with soap and whater contact with players, especially when changing bandages and providing trained to construit the school medical director regarding the use of alcohol-based hand sanitizer and provide appropriate student supervision.
 - o Persons other than school health **persel** may assist a student with the application of clean dressings following initial approval and assessment by appropriate authorized schordalth staff. Such persons should wear disposable gloves, and wash their hands and forearms immediately after removing gloves using barrier precautions at all times.
 - o In situations where access to sink sinisited (e.g., on playing fields), carry individual containers of alcohol-based hold appropriate supervision.)
 - o Provide enough clean towels saypers do not need to share them.
 - o Educate players on appropriante an agement of all wounds.
 - o Exclude players with draining lesions oppen wounds (whether or not they are covered) from swimming pools, whirlposolice tubs, saunas and hot tubs. All excluded students should comply with their district's standard clearance process for returning to sports apphysical education class.
 - o All wounds (e.g., cuts, scrapes, abrasio hs) utd be covered with a bandage until healed, especially when contact with ulti-use items (i.e., weight equipment, electric stimulation cuffs) may occur.
 - o Wounds (e.g., cuts, scrapes, abrasi**shs**)uld be completely and securely covered during competition (e.g., bandaged and use of protective sleeve).
 - o Students with active skin and soft tiesinfection (e.g., draining wounds, boils, abscesses) should not partiatipe in activities where skitto-skin contact is likely to occur until their infections are completely healed.
 - o Specific guidance for players:
 - Š Do not share towels (even on the tintes of games), washcloths, soap, razors, topical preparation, or other personal tiple items with other players.
 - Shower with soap (preferably not bar soap) be using the whirlpool, steam room, or sauna.
 - š Shower as soon as possible after practice, game, or tournament.
 - Shower before and after sports weaktensive skin-to-skin contact (e.g., wrestling, football).
 - Š Avoid contact with draining lesins and contaminated items (e.g., bandages) from other people.

- § Perform hand hygiene after using multi-use equipment (e.g., weight equipment) and after contact with tentially contaminated items (e.g., another person's wounds, infects!dn, or soiled bandages).
- š Follow good hygienic practices—hand hyge, showering, and regularly laundering clothes.

x Environmental Surfaces and Equipment

o See section 7 for detailed guidamegarding environmental cleaning and disinfection.

x Disease Surveillance

- MRSA infections can spread quickly or metric teams and can be difficult to control.
- o It is important for coaches and trainers to aware of every skin infection as soon as it occurs to prevent a singles earon becoming an outbreak. School employees should consult with the schobles lth professional(s) as needed for information and assessment as appropriate.
- o If MRSA infections occuramong team members, asisted students and staff should be encouraged to reposit changes such as redness, warmth, swelling, tenderness, or drainage, especially was sociated with cuts, boils, or sites of skin irritation and abrasions. Coachaet staff observing open or undressed skin lesions on team members should direct thudent to a healthcare provider to have the lesion evaluated.
- o If MRSA infections occur among players on children's sports teams, appropriate school officials based on school board postbould consider notifying parents of all team members to enlisteir support with reinforing hygiene measures and reporting of skin lesions to team officials.
 - š Care must be taken to maintain ddefitiality of players with infected wounds to avoid stigmatization and anxiety.

x Diagnosis and Treatment

- o Players with skin lesions should beferred to a healthcare provider.
- o See Section 4 for additional guidance with respect to treatment of MRSA infections.

x Player Exclusion from Participation

- o Individuals with open wound(se.g., cuts, scrapes, abrasi) need not be excluded if the wounds can be completely and srebucovered with clean, dry bandages.
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<u>Product, Ingredient, and Manufacturer System (PIMS) website at:</u>
http://magritte.psur.cornell.edu/pims/

- o Routine use of disinfectanits not without risk.
 - § Many of the active ingredients in disentant products caburn or irritate the skin and eyes, and, in some cases cause respiratory irritation.
 - š Take precautions to reduce exposure to applied disinfectants to the extent practical, and follow all labelirections and precautions.
- o The school green cleaning guidelinpeertain to cleaning products.
 - S Disinfectant products, which are greated as pesticides, are not specifically addressed.
 - S OGS green cleaning guidance recognithest existing laws, regulations and professional guidance regingdcleaning, maintenance and disinfection practices may apply inritain circumstances and these are not superseded by the schoolben cleaning guidelines.
- o In some cases, school athletic fatels may require special cleaning and maintenance practices.
 - š If disinfectant use is deemed desirable in a setting such as for shared athletic equipment or locker-roomadilities, that use is not precluded by the school green-cleaning guidelines.
 - š However, personnel should be traineφroper disinfectant use, and label directions must be followed.
- x Cleaning and Disinfection of Environmental Surfaces and Equipment in the School Athletics Setting:
 - o A regular cleaning schedule should btabtished for shared environmental surfaces such as wrestling matsstrength-training equipment.
 - Sanitize all skin-contact points wheight equipment at a minimum once per day.
 - Sanitize mats and other high-use equipment before each practice and several times a day throughout a tournament.
 - o Use a clean towel as a barrier betwbere skin and shared surfaces (e.g., exercise equipment, sauna blenleg supports during therapy).
 - S Use of clean barriers between bare skin and shared surfaces reduces the need for frequent statizer application.
 - š Encourage athletes to sanitize all sharedaces that come in contact with bare skin (e.g., mats, massageles, training tables, and therapy machines) between each use.
 - o Cover treatment tables. Discardlander coverings after each use.
 - o Repair or discard equipment with dageal surfaces that cannot be adequately cleaned (e.g., equipment with exposed foam).
 - o If soiled linens and clothing are washed school premises, wash with regular laundry detergent in hot water (minimum 150) add one cup of bleach if water is not 160°F and dry in a hot dryer. Sider wearing gloves when handling dirty laundry.
 - o Consider regular sanitizing or disinfection of shared surfaces and equipment that come into contact with bare skin.

- Š Use a sanitizer or disinfectant gistered for use against MRSA on surfaces, or use a freshly-mixed side of one part bleach to 100 parts water (1 tablespoon bleach to 1 quart of water).
- š Follow the directions listed on the labels of all cleaning/disinfecting products with particular attement to the contact times for any sanitizing/disinfectant solution.
- o Disinfection of artificial playing surface(s.g., artificial turf) is not recommended.
 - Artificial turf has been reported to be sociated with an increased risk factor for MRSA infection, not be use it is a reservir for MRSA, but because skin abrasions are more common from falling and sliding on artificial turf ("turf burns") than from similar flas on natural turf. Turf burns provide a portal of entry for the bacterium.
 - š Sunlight and weather reduce survivalbafcteria on outdoor artificial turf.
 - š An investigation of cases among a passional football team specifically failed to isolate MRSA bacteriadm environmental surfaces, including artificial turf.

8. Additional Information

Additional information about MRSA can be und on the web at the following sites:

x New York State Department of Health:

http://www.health.state.ny.us/diseases/communicable/staphylococcus_aureus/methicillin_resistant/community_associated/

- x Centers for Disease Control and Prevention (CDC)
 Overview of Community-Associated MRSA:
 http://www.cdc.gov/ncidod/dhqp/ar_mrsa_ca.html
- x CDC Questions and Answers about MRSA in Schools: http://www.cdc.gov/Features/MRSAinSchools/
- x CDC MRSA educational materials and posters: http://www.cdc.gov/ncidod/dhqp/ar_mrsa_ca_posters.html
- x <u>CDC National MRSA Education Initiative:</u> <u>http://www.cdc.gov/mrsa/mrsa_initiative/skin_infection/index.html</u>
- x New York Statewide School Health Services Center http://www.schoolhealthservicesny.com