

## Letters to the Editor

### Chickenpox in 'Immune' Hospital Employees

#### To the Editor:

We read with interest the letter to the editor from Gurevich et al (1990;11(10):510-512) regarding chickenpox in apparently immune hospital employees. Over the past two years, we have had similar experiences involving two healthcare workers in our 500-bed university-affiliated hospital. In each case, one a nurse and one a pediatric resident, screening had been performed by an indirect fluorescent antibody (IFA) method (VZ Test Kit, Zeus Scientific, Branchburg, New Jersey). Sera were reactive at a dilution of 1:10, which was considered reflective of pre-existing immunity. Both employees subsequently developed chickenpox, the diagnoses of which was confirmed by at least one member of the infectious diseases division.

We can offer no plausible hypothesis to account for these occurrences beyond those put forth by Gurevich and colleagues. Since neither of the employees had a history of chickenpox and the diagnoses were reliable, it seems most likely that the "positive titers" were, in fact, "false-positives," either due to cross-reactions with antibodies to closely related viruses or an inherent lack of specificity in the test kit.

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### MRSA in Long-Term Skilled Nursing Facilities

#### To the Editor:

In three long-term skilled nursing facilities in Los Angeles, California, there has been an increased awareness of methicillin-resistant *Staphylococcus aureus* (MRSA) in infected as well as colonized patients. We are using the approved Centers for Disease Control as well as Los Angeles County Department's recommendations for contact isolation. In three cases, two died and one required transfer to an acute-care hospital. What precautions are needed for removing the expired patients on transfer to the mortuaries when one had large stage 4-dimensions decubiti, and the other had both eye and urinary tract MRSA infection?

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*This letter was referred to Ian M. Smith, MD, Professor and Director, Geriatric Program, Department of Internal Medicine, and Director, Iowa Geriatric Education Center, The University of Iowa Hospitals and Clinics, Iowa City, Iowa, for a reply.*

This question revolves around contact isolation control of infection and preventing dissemination of the infection in the long-term care facility and the mortuary. *Staphylococcus aureus* is a very successful parasite. It frequently breaks out from the hygienic and antibiotic control imposed upon it by humans. It spreads faster in institutions than it does in the general community.

The primary source of the organism is the anterior nares of men and women, and it is transferred usually by hand contact. In the late 1930s, *S aureus* became resistant to the sulfonimides, and in the late 1940s, to penicillin G. In 1961, methicillin-resistant *S aureus* (MRSA) was described, and in the 1970s, a methicillin-resistant organism also resistant to the aminoglycosides was described.

Sometimes this organism is difficult to identify because it may be a small subpopulation within a sensitive group of *S aureus*. Identification is on a high-salt medium that is incubated for at least 24 hours at 30°C. The medium should contain nafcillin or oxacillin, which is more stable than methicillin. Careful attention to detail is necessary in the laboratories surveying for this organism.

Various surveys in nursing homes have shown that 5% to 15% of patients are colonized or infected, although higher figures have been quoted. The colonization rate is about four times as high as it is in the community. Colonization may be twice as high in the residents as it is in the staff, being approximately 12% and 7%, respectively. Risk factors for being colonized or infected with MRSA are the passage of nasogastric tube, the random use of several antibiotics, discharge from an acute-care setting (particularly from an intensive care unit), having burns, being elderly, having surgical wounds, or having venous access sites. In some studies, about one-half of the carriers have had significant illness due to their *S aureus*. Acquisition is usually in the acute-care hospital, but

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