that its prevalence in immunocompromised Thai children (20%) was higher than that previously reported in a healthy Thai population (17.5%) (4) and in those with recurrent abdominal pain (11.3%) (5). The prevalence in children <5 years of age was high compared with that reported from Perez-Perez et al. (17.4% vs. 5%) (4). Although unintentional eradication of *H. pylori* after multiple courses of antimicrobial drugs in such patients could explain the low prevalence in some studies, commonly prescribed antimicrobial drugs without antisecretory agents may be unable to cure the infection.

The major limitations of this preliminary study were the use of different diagnostic methods in the various studies and the lack of healthy controls. Thus, a well-designed case-control study is needed. However, the prevalence of infection with *H. pylori* in the immunocompromised children was high, and these patients appear to be more susceptible to this infection in early life.

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Community Case of Methicillin-resistant Staphylococcus aureus Infection

To the Editor: We report a community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) infection in a 52-year-old man with chronic eczema who was admitted to the Prince of Wales Hospital, Hong Kong, with fever and chills. Before admission, he had been treated for infected eczematous lesions for several weeks with oral ampicillin, cloxacillin, and cefazolin. He had no history of hospitalization in the past 10 years, and none of his family members were healthcare workers. Examination showed an oral temperature of 40°C, blood pressure 95/55 mm Hg, and no audible murmur. Cellulitis in the left leg complicated his eczematous skin lesions. Chest radiograph showed right-middle-zone pneumonia. Neutrophilia (leukocytes 15.5 × 10⁹/L, neutrophils 86%), thrombocytopenia (platelets 55 × 10⁹/L), prolonged activated partial thromboplastin time (43.6 s), and elevated bilirubin level (31 µmol/L) were observed. Two initial blood cultures grew gram-positive cocci in clusters, identified as *S. aureus* by positive results for catalase and slide/tube coagulase and a negative result for ornithine decarboxylase. Intravenous cloxacillin (2 g every 6 h) was given on days 2–5. Antimicrobial drug susceptibility testing was performed by the disk-diffusion method (1 µg oxacillin/disk, Mueller-Hinton agar, 2% NaCl), followed by MIC determination with the agar dilution method in accordance with NCCLS (former National Committee for Clinical Laboratory Standards, now Clinical and Laboratory Standards Institute) recommendations (2). One blood isolate was identified as methicillin-resistant *S. aureus* (MRSA), with an oxacillin MIC 4 µg/mL. The other isolate was identified as methicillin-sensitive *S. aureus* (MSSA), with an oxacillin MIC of 0.5 µg/mL. In view of a possible CA-MRSA infection (which could have been β-lactam–resistant), cloxacillin was substituted with intravenous vancomycin plus rifampin on day 5.

However, the patient’s condition progressively deteriorated from day 2 to day 10 with persistent fever, chills, hypotension, and hemoptysis. A repeated chest radiograph showed small lung cavities with fluid, and a thoracic computed tomographic scan confirmed multiple lung abscesses. Results of an initial transthoracic echocardiograph were normal, but a subsequent transesophageal echocardiograph demonstrated tricuspid valve vegetation.

The MRSA isolate was susceptible to gentamicin, cotrimoxazole, erythromycin, ciprofloxacin, clindamycin, fusidic acid, tetracycline, chloramphenicol, vancomycin, and rifampin; a different pattern of multidrug-resistant...
MRSA isolates from that usually found in our facility (2,3). The isolate was also susceptible to ampicillin/sulbactam, with an equivalent breakpoint MIC <8/4 µg/mL by disk testing (2). Latex detection for PBP2a (Slidex MRSA-Detection, bioMérieux, Marcy l’Etoile, France) and polymerase chain reaction (PCR) detection for mecA were both negative, predicting nonresistance to oxacillin (2–5). A nitrocefin-disk test was positive for β-lactamases, and a 4-fold reduction in MIC was demonstrated in the presence of sulbactam (6). Panton-Valentine leukocidin (PVL) gene locus was not detected (1). Community-acquired BORSA (borderline oxacillin-resistant S. aureus; MRSA, meticillin-resistant S. aureus; CA-MRSA, community-associated MRSA; HA-MRSA, hospital-associated MRSA; PBP, penicillin-binding protein; PCR, polymerase chain reaction; PVL, Panton-Valentine leukocidin; PRP, penicillin-resistant penicillin; *, positive; –, negative; ±, occasionally present; ++++, usually present.

†Concern over inducible clindamycin resistance; also, macrolide resistance is common.

‡Fluoroquinolone resistance increasing.

As this case suggests, BORSA can sometimes be confused with CA-MRSA because of similar clinical signs and symptoms and overlapping oxacillin MICs (2–8 µg/mL and 4–64 µg/mL, respectively) (1,4,6). Both pathogens can appear as community-acquired infections and may be related to previous antimicrobial drug usage (6,7). Although CA-MRSA has been associated with soft tissue infections and necrotizing pneumonia (7,8), MSSA or BORSA strains can also cause these diseases. Thus, in view of potentially different treatment options, when MRSA isolates (e.g., oxacillin MICs ≥4–8 µg/mL) are associated with community-acquired, serious infections (e.g., blood isolates) and are not multidrug resistant, one can consider mecA (or PBP2a) testing to delineate the resistance mechanism (Table). If mecA is present, further testing for PVL gene locus with or without staphylococcal chromosomal cassette mec (SCCmec) type IV can be performed to diagnose CA-MRSA; if mecA is not detected, further testing for BORSA may be indicated, and β-lactam therapy should be evaluated individually. If these pathogens are not differentiated and all are treated as CA-MRSA, a non–β-lactam antimicrobial drug, such as vancomycin, will be used (1,4,7,8). However, for serious and deep-seated S. aureus infections (e.g., bacteremia, endocarditis), vancomycin is inferior to β-lactam antimicrobial drugs, even when in vitro testing indicates susceptibility. Treatment failures have been encountered (4). Linezolid is a good alternative but limited by availability and cost, and clindamycin therapy can be associated with inducible resistance. For BORSA-associated infections, β-lactam antimicrobial drugs, including high-dose penicillinase-resistant penicillins (PRPs) (e.g., cloxacillin) or β-lactam/β-lactamase–inhibitor combinations (e.g., ampicillin/sulbactam) are regarded as treatments of choice (4,6,9).
BORSA initially described non-heteroresistant strains of *S. aureus* with oxacillin MIC ≤ 2 mg/L, which produce ample β-lactamases and are rendered fully susceptible to PRP by β-lactamase-inhibitors (4,6). Subsequent BORSA strains described have had higher oxacillin MICs (4–8 mg/L) (4). The proportion of BORSA among clinical isolates of *S. aureus* varies (1.4%–12.5%) but is usually ≥ 5% (4,10). A BORSA infection outbreak among dermatology patients with severe skin diseases has also been reported (10). Postulated resistance mechanisms include overproduction of conventional penicillinase, production of an inducible, plasmid-mediated, membrane-bound methicillinase, and in some cases, point mutations of penicillin-binding-proteins (4). The clinical importance of BORSA is unknown since early clinical/animal data suggest treatment efficacy of PRP (against strains with MIC ≤ 2 mg/L) (4,6,9). Whether BORSA with higher oxacillin MICs (4–8 mg/L) will respond equally well to PRP is less clear. Further studies into the treatment of BORSA, including pharmacokinetic considerations, are needed (4). However, high-dose β-lactam/β-lactamase inhibitor combinations (e.g., ampicillin/sulbactam), as shown in animal models, are at least as effective as PRP (9). In conclusion, our report suggests that mecA (or PBP2a) detection may help manage serious, community-acquired, non-multidrug-resistant MRSA infections because of the potential confusion between BORSA and CA-MRSA.

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Rickettsia massiliae Human Isolation

To the Editor: The number of new rickettsial species that cause diseases in humans is rapidly increasing (1). Moreover, many of the species first described in ticks have been recently shown to be pathogenic. Of the 10 species or subspecies found to be pathogens after 1984, a total of 7 were first isolated from ticks (2). We report the first isolation of *Rickettsia massiliae* from a patient. The bacterium was isolated in Sicily in 1985 and identified in 2005.

A 45-year-old man was hospitalized in Palermo, Italy, on June 6, 1985, for fever and a rash. He had been febrile since May 25 and did not respond to antimicrobial drug treatment using cefazolin, a first-generation cephalosporin. On examination, he had a necrotic eschar on his right ankle, a maculopapular rash on his palms and soles (online Appendix Figure 1, available at http://www.cdc.gov/ncidod/EID/vol12no01/05-0850-01.htm), and slight hepatomegaly. Leukocyte count was normal; he received tetracyclines for 13 days and fully recovered. He seroconverted (from 0 to 1:80 between day 11 and day 24) by indirect immunofluorescence to *Rickettsia conorii* (*R. conorii* spot, bioMérieux, Marcy l’Étoile, France).

Four milliliters of heparinized blood sampled before treatment were inoculated in a 25-cm² flask containing Vero cells and incubated at 33°C in a CO₂ incubator (1). Direct immunofluorescence test on a sample of the patient’s serum was positive 7 days later. The strain was stored for 20 years and tested in 2005 at the Unité des Rickettsies for identification, and *R. massiliae* was identified. DNA was extracted from the cell culture supernatant and used as template in 2 previously described polymerase