The first cases of community-associated methicillin-resistant *Staphylococcus aureus* (CA-MRSA) were reported in 1996 in Minnesota, United States (US) and were deep-seated skin and soft tissue infections and a few cases of necrotising pneumonia, mainly in children and among the Native American population [1]. A few years later, a large outbreak of CA-MRSA infections was reported in the men who have sex with men (MSM) community in California, predominantly among human immunodeficiency virus (HIV)-positive patients; data on sexual transmission was not available [2]. A recent report on the spread of CA-MRSA, mainly due to the widely disseminated strain “USA300”, in numerous MSM in San Francisco and in one patient in Boston suggested sexual transmission [3], but initiated critical reviews concerning the transmission route and the corresponding public health message [4,5].

CA-MRSA “USA300”, the most widely spread CA-MRSA strain in the US [6], has been detected in Germany since 2005 [7]. This clonal lineage is characterised by multilocus sequence type (MLST) ST8, spa-sequence type t008, SCCmec IVa, the presence of an additional arginine decomposition pathway (arginine catabolic mobile element (ACME)) on a staphylococcal cassette chromosome (SCC)-element) with arcA as marker gene, and macrolide-resistance coded by the msrA (efflux pump) and mphB (phosphorylation) genes [7,8]. The contribution of ACME to virulence has been shown in a rabbit model [9]. The capacity of CA-MRSA “USA300” to cause invasive infections seems not to be due to production of the Panton-Valentine leukocidin cytotoxin, but rather to the synthesis of a large number of small phenol-soluble peptides, which are able to recruit and lyse neutrophilic granulocytes [10].

Here we report a case of infection with CA-MRSA ST8 (“USA300”) in an HIV-positive 35-year-old MSM patient in Cologne, Germany. The isolate originated from an infected cyst in the upper abdominal area, which opened spontaneously. The patient suffered from acquired immunodeficiency syndrome (AIDS). His CD4+ T-cell count was 200/microlitre with a fully suppressed virus load due to HIV treatment. A specimen from the cyst was taken for microbiological diagnosis. Primary topical treatment was performed by instillation of Leukase beads containing trypsin, framyctin sulphate and lidocaine hydrochloride (Merck, Vienna). After obtaining the microbiology results, oral doxycyclin (200 mg per day) was included in the treatment. The infection had healed completely after 14 days. Nasal swabs were negative for MRSA.

The isolate exhibited the typical characteristics of CA-MRSA ST8 (“USA300”), see above. It was resistant to oxacillin, erythromycin, ciprofloxacin, moxifloxacin and susceptible to gentamicin, oxetacycline, clindamycin, rifampicin, cotrimoxazole, fusidic acid, linezolid, fosfomycin, tigecycline and daptoymycin.

As shown in the US, CA-MRSA ST8 (“USA300”) may spread rapidly in MSM communities [3]. European doctors caring for HIV-positive patients and MSM with skin and soft tissue infections should be aware of the possibility of CA-MRSA in order to provide proper care and prevent further spread.

Targeted measures include proper bacteriological diagnosis of skin and soft tissue infections in patients attending dermatological and surgical practises, as well as in HIV-positive patients. When MRSA is detected, it is likely that the infection is caused by a CA-MRSA strain. Early recognition of CA-MRSA ST8 (“USA300”) is possible by PCR detection of the lukS-lukF and arcA genes [11]. Confirmation is obtained by additional typing such as spa-typing, MLST, and SCCmec [7]. Further spread can be prevented by personal, environmental and health care hygienic measures [12,13].

**References**


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