Case Report

Correspondence
Paolo De Paoli
pdepaoli@cro.it

Microbiologia, Immunologia e Virologia 1 and Oncologia Medica B2, Centro di Riferimento Oncologico, Aviano, Italy

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Introduction

Although coagulase-negative staphylococcal species are frequently isolated from blood cultures, *Staphylococcus cohnii* is rarely responsible for human systemic infections (Fernandes et al., 1996; Mastroianni et al., 1996; Jarlov et al., 1996). We report a case of sepsis in a colon cancer patient, with a central venous catheter (CVC), caused by *S. cohnii*. Two virulence markers (Mack, 1999) and the antibiotic susceptibility profile of the strain were also studied.

Case report

A 57-year-old woman with cancer of the colon, which was surgically resected in 1996, was repeatedly readmitted to our Institute for recidivation of the colon cancer and hepatic and pulmonary metastases. In May 2001, a CVC was inserted to start a second-line chemotherapy. In December 2001, 2 days before admission for a chemotherapy cycle, she became febrile, with a temperature of 38.8 °C. No obvious clinical or radiological evidence of infection was found. All hematological and biochemical laboratory investigations were normal, except for an elevated erythrocyte sedimentation rate of 96 mm h⁻¹. The patient was started on intravenous ceftazidime (2 g every 8 h), after a series of blood had been taken for culture and susceptibility tests. Two and four blood culture sets, obtained from the CVC and peripheral veins, respectively, became positive in the BACTEC 9120 (Becton Dickinson). A haemolytic, catalase-positive, Gram-positive coccus grew on Columbia agar plus 5 % sheep blood (Kima), and was identified by the use of the ID32 Staph ATB system (bioMérieux) as *Staphylococcus kloosii*. Susceptibility of the isolate was determined with the Vitrek system (bioMérieux) and it was susceptible to oxacillin, cephalothin, clindamycin, ciprofloxacin, gentamicin, trimethoprim-sulfamethoxazole, teicoplanin and vancomycin, as well as to ceftazidime, the antibiotic that the patient was on. The isolate was negative for both biofilm production and haemagglutination. The patient responded to the antibiotic therapy and was discharged.

Subsequent follow-up at the outpatient clinic has, so far, been uneventful.

Since commercial kits and diagnostic procedures commonly used in the clinical microbiology laboratory may not classify coagulase-negative staphylococci isolated from similar cases to the species level for epidemiological purposes and to study the expression of virulence factors (Varaldo & Biavasco, 1997), reported cases of severe infections in humans caused by *S. cohnii*, and other rare, related species, are on the increase, and we recommend characterization of coagulase-negative *Staphylococcus* isolated from compromised patients for epidemiological reasons.

Abbreviation: CVC, central venous catheter.
References