

Editöre Mektup**Letter to the Editor*****An unusual microorganism, *Aerococcus viridans*, causing endocarditis and aortic valvular obstruction due to a huge vegetation*****Which *Aerococcus*?**

Dear Editor,

I read with interest the case report by Çalık et al. concerning a patient with endocarditis that did not respond to seemingly adequate antibiotic treatment. The authors typed the causative organism with an API test strip as *Aerococcus viridans* and discussed this bacterium.^[1]

A. viridans was described in 1953^[2] and additional aerococcal species including *A. urinae*^[3] and *A. sanguinicola*^[4] have been defined since then. *A. viridans* and *A. sanguinicola* have similar biochemical properties,^[5] but the latter seems to be more commonly isolated from infected patients.^[6] Importantly, the API system used by Çalık et al. fails to recognize *A. sanguinicola* and misclassifies this species as *A. viridans*.^[6] Thus, it is possible that the organism causing the infection described by Çalık et al. is not *A. viridans* but *A. sanguinicola*. This potential misidentification may have occurred in many cases where *A. viridans* was identified only on the basis of the API or Vitek2 systems. Since biochemical typing of aerococci is difficult, 16S rRNA gene PCR and sequenc-

ing would be helpful to clarify the bacterial etiology in this interesting case.

Sincerely yours,

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Conflict-of-interest issues regarding the authorship or article:
None declared

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The authors' reply

Dear Editor,

First of all, we appreciate our reader's contribution and attention to our case report. As the reader points out, *A. viridans* and *A. sanguinicola* have similar biochemical properties^[1] and therefore the API system may fail to recognize *A. sanguinicola* and misclassify this species as *A. viridans*.^[2] However, in our microbiology laboratory, to solve this problem, we are making a serious effort to verify all *A. viridans* cases with the Vitek2 system, after identification with the API system. In our case, *A. viridans* which was identified

by the API system was further verified by the Vitek2 system. In our opinion, *A. viridans* was the potential agent in our case. By the way, the 16S rRNA gene PCR method which can be used to identify *A. sanguinicola* is not routinely used in our country.

Sincerely,

On behalf of the authors,

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of *Aerococcus sanguinicola* isolates from human clinical samples. J Clin Microbiol 2003;41:2587-92.

2. Cattoir V, Kobal A, Legrand P. *Aerococcus urinae* and *Aerococcus sanguinicola*, two frequently misidentified uropathogens. Scand J Infect Dis 2010;42:775-80.