

Streptococcal Infections in Patients with Chronic Granulomatous Disease: Case Report and Review of the Literature

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Received: 2 October 2012 / Accepted: 2 October 2012 / Published online: 30 October 2012
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We thank Dr. Nourani and Dr. Challapalli for their interest in our report on streptococcal infections in patients with chronic granulomatous disease (CGD) [1]. They add to a growing literature with their report of a case of *Streptococcus constellatus* lymphadenitis and pneumonia in a boy with CGD. Similar to our case, they identified a member of the *Streptococcus anginosus* group causing infection in CGD, an infection that is not supposed to happen in this disease. Hydrogen peroxide testing would have been interesting but likely negative, since no *S. intermedius* strains and few *S. constellatus* strains produce it [2]. This report further highlights the importance of direct cultures from patients with primary immune deficiencies, since the recovery of a *S. constellatus* from sputum would have been difficult to interpret. It also points

out that our understanding of immune defects is evolving, driven by precisely these valuable clinical observations and reports.

References

1. Falcone EL, Hanses S, Stock F, Holland SM, Zelazny AM, Uzel G. Streptococcal infections in patients with chronic granulomatous disease: case report and review of the literature. *J Clin Immunol*. 2012;32(4):649–52.
2. Whiley RA, Fraser H, Hardie JM, Beighton D. Phenotypic differentiation of *Streptococcus intermedius*, *Streptococcus constellatus*, and *Streptococcus anginosus* strains within the "*Streptococcus milleri* group". *J Clin Microbiol*. 1990;28:1497–501.

A comment to this article is available at <http://dx.doi.org/10.1007/s10875-012-9818-5>.

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