

ABSTRACT

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Streptococci of the anginosus group (SAG) - analysis of data associated with positive findings

Bachelor thesis

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Aim: The aim of the work is to summarize the current knowledge about the group of streptococci *anginosus* and the processing of data concerning patients with a positive finding of these streptococci in the sample. The data was provided by the microbiological laboratory of FN Olomouc.

Methods: Graphical processing of data on patients with positive SAG findings.

Results: The mean age of patients identified with SAG was 50.2 years. Occurrence was more common in males than females. The most represented species in this work was *S. anginosus* (34%), followed by *S. constellatus* (34%), and *S. intermedius* (13%). The sample was most often derived from an infectious deposit, other abundant collection sites were the urogenital and respiratory tract. Each species is associated with a different type of infection. *S. anginosus* was the major pathogen in urogenital system infections as well as in intraabdominal infections. *S. constellatus* was involved primarily in respiratory infections, most commonly in haemocultures. *S. intermedius* is usually found in abscesses and in this study, its relatively high incidence in haemocultures (15%) was also found. *S. anginosus* and *S. constellatus* have the peak occurrence in spring, while *S. intermedius* is the most frequented in the summer months.

Conclusions: The most endangered group of patients attacked by SAG are middle-aged men. The species *S. anginosus* is the most represented, the least occurring is *S. intermedius*. Each species tends to cause various infections. While *S. anginosus* appears most abundant in urogenital system infections, *S. constellatus* is the most common in respiratory infections and *S. intermedius* in abscesses.

Key words: Streptococcus *anginosus* group (SAG), *Streptococcus anginosus*, *Streptococcus constellatus*, *Streptococcus intermedius*, abscesses, respiratory diseases, bacteraemia, data processing