

Review of: "[Review Article] Review of Streptococcus pyogenes"

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Potential competing interests: No potential competing interests to declare.

Thank you for the opportunity to review this manuscript. The paper is well-written, but there are a few areas that require attention to enhance its quality and clarity.

Repetitions: The manuscript contains several repetitions that could be streamlined for brevity and effectiveness. For instance, the paragraph in the abstract about *S. pyogenes* and its clinical impact is repeated in the introduction and under the morphology and identification section. Eliminating such repetitions will improve the readability and conciseness of the review.

Clarity of Objectives: The main objectives of the review, as stated, are somewhat unclear. The paper aims to elucidate the causes of *Streptococcus pyogenes*, but this phrasing is ambiguous since *S. pyogenes* is the causative organism itself. Clarification of the objectives and a more direct focus on the specific aspects of *S. pyogenes* being reviewed would greatly enhance the paper's impact.

Structure and Presentation: The use of bullet points, particularly in the section on scientific classification, is unconventional for a review paper. A more traditional narrative style might be more appropriate for this type of review.

Depth of Content: The review seems to provide a general overview more akin to an introduction or background section of a thesis rather than a comprehensive review. Key areas like the genomics of Group A *Streptococcus* (GAS) and insights from whole-genome sequencing (WGS) on the biology and pathogenesis of this important pathogen are not sufficiently covered. The review would benefit from a deeper exploration of these areas, providing novel insights and a thorough analysis of current research.

Overall, while the manuscript is well-written, these revisions are necessary to provide a more comprehensive and insightful review of the subject matter, particularly focusing on the genomics and pathogenesis of *Streptococcus pyogenes*.