

Review of: "[Review Article] Cytomegalovirus Infection"

Priyanka Nain¹

¹ University of Delaware

Potential competing interests: No potential competing interests to declare.

The article provides a good overview of cytomegalovirus (CMV) covering the basics like structure, transmission, pathogenesis clinical manifestations, diagnosis and treatment. It is impressive that the author was able to simplify such a complex topic in such an accessible manner. The present text, while possessing its merit, is found wanting in terms of depth and novelty, with certain sections being deemed outdated.

I most agree with the critiques provided by reviewer Emma Van Den. She provides constructive feedback highlighting both the strengths and weaknesses of the paper. I concur with her main suggestions to:

- Separate sections on congenital vs acquired CMV as they have important differences in diagnosis/treatment.
- Improve clarity by defining abbreviations (e.g. CMV, PCR & ELISA) at first use.
- Update references to include more recent research from the last 5-10 years.
- Address some factual inaccuracies regarding screening protocols and diagnostic sensitivity/specificity.

Key Improvements could include:

1. Clearly distinguish between congenital vs acquired CMV throughout sections.
2. Expand diagnosis section with more details on advantages/limitations of current diagnostic tests like PCR, avidity testing; introduce emerging technologies.
3. The treatment section could include latest antivirals and vaccines under development.

Overall: Figure 1 nicely depicts virion structure but is very basic, consider adding labels or a more detailed diagram. Define HCMV at first use, no need to switch between CMV/HCMV. As such, it may benefit from further research and revision to ensure that it remains current and relevant to its intended audience. Such measures would serve to enhance the text's value as a scholarly or business resource and would reinforce its utility as a source of expert knowledge and insights.