



TITLE:

The Effect of Antiviral Therapy for Congenital *Cytomegalovirus* (CMV) on children Hearing Loss

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ABSTRACT (upto 300 words)

Objectives: To evaluate existing studies on the effect of antiviral treatment on long-term hearing loss in infants with congenital *Cytomegalovirus* infection and how it can aid in the prevention of such devastating outcomes.

Methods: Systematic review was performed by obtaining papers using a four-step procedure to ensure that all included studies meet the desired criterion. Additionally, PI was used to test the effect of antiviral treatment on hearing loss.

Results: The average PI among studies used was 0.4 indicating that the use of antiviral treatment improved hearing loss with an average of 40%. Also, Cochran's Q test was insignificant which indicates homogeneity between studies.

Conclusions: CMV infections are the most important cause of nongenetic hearing loss, neurodevelopmental delay, intellectual impairment, and multisystem organ failure in children. The reviewed studies showed that the antiviral treatment (ganciclovir) could be used as a treatment for patients including children and infants who are diagnosed with hearing loss due to CMV infection.

BIOGRAPHY (upto 200 words)

LOJAIN has completed her medical school at King Saud university in Riyadh, Saudi Arabia.

She is currently a PGY2 Pediatric resident at one of the best children hospital in middle east "King Abdullah children hospital" in Riyadh, Saudi Arabia. She has published almost 5 researches and currently is working on 3 in progress.



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