

## MEETING ABSTRACTS

# CONGENITAL CYTOMEGALOVIRUS INFECTION - A PROBLEM OF PAST, PRESENT AND FUTURE

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The Cytomegalovirus (CMV) pass through placenta is connected with consequences in prenatal as well as postnatal phase of development. Newborns can be asymptomatic, can have mild or even life-threatening symptoms with serious long-term sequels. All CMV infected newborns are at risk of long-term neurodevelopmental problems and sensorineural hearing problems.

The aim of the work: To analyse prenatal and postnatal characteristics, clinical and laboratory findings, results of investigations in the group of 11 newborns with congenital CMV infection, who were hospitalized at Neonatal Department of Intensive Medicine between January 1st 2012 and March 31st, 2022 included.

Results: Prenatal foetal sonography revealed in patient 5 and 8 positive calcifications in brain; in patient 6, 9 and 11 isolated ventriculomegaly was found. Neurological examination was clinically negative in patient 1 and 10, changes of muscular tonicity and spontaneous activity was confirmed in the rest of group. In patient 5 and 10 one-sided positivity of otoacoustic emissions was confirmed. Chorioretinitis with bilateral negative otoacoustic emissions was confirmed in patient 5. Clinical status of patient 11 was complicated by pneumonitis. Three patients were treated with antiviral drugs orally, and 11 newborns had combination of intravenous and oral form of treatment.

Conclusion: The results of analysis will contribute to a society-wide solution of prevention. Monitoring of the frequency of CMV infection in population with education of population can decreased the number of affected newborns.

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*Keywords: Cytomegalovirus; newborn; therapy; complications*

## References

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