

DAFTAR PUSTAKA

- Alnuaimi H, Konishi E, Yamashita A, Ishikawa H, Sasaki Y, Kurihara Y, et al. Severe thrombocytopenia caused by Cytomegalovirus infection in a healthy adult. *Medicine(Baltimore)*. 2024;103(30):e39019. <https://doi.org/10.1097/M D.00000000000039019>
- Bilavsky E, Pardo J, Attias J, et al. Clinical implications for children born with congenital Cytomegalovirus infection following a negative amniocentesis. *Clin Infect Dis*. 2020;71(10):2690–2695. <https://doi.org/10.1093/cid/ciz1197>
- Camargo JF, Komanduri KV. Emerging concepts in Cytomegalovirus antibody responses and cross-reactivity with other herpesviruses. *Curr Opin Infect Dis*. 2022;35(6):531–538. <https://doi.org/10.1097/QCO.0000000000000889>
- CDC. Cytomegalovirus (CMV) and Congenital CMV Infection. *Centers for Disease Control and Prevention*. 2025. Available from: <https://www.cdc.gov/cytomegalovirus/about/index.html>
- Charles OJ, Venturini C, Williams CA, et al. Genomic and geographical structure of human cytomegalovirus in neonates and children. *Proc Natl Acad Sci USA*. 2023;120(30):e2221797120. <https://doi.org/10.1073/pnas.2221797120>
- Chatzidimitriou D, Chatzidimitriou PN, Papadopoulos NI, Chrysanthopoulou A, Speletas M, Boumpas DT. Cytomegalovirus and hemolytic anemia in an immunocompetent patient. *Transfusion*. 2022;62(11):2322–2331. <https://doi.org/10.1111/trf.16977>
- Cheeran MC, Lokensgard JR, Schleiss MR. Neuropathogenesis of congenital cytomegalovirus infection: disease mechanisms and prospects for intervention. *Clin Microbiol Rev*. 2009;22(1):99–126. <https://doi.org/10.1128/CMR.00036-08>
- Chioprasert S, Theamboonlers A, Poovorawan Y. Current approaches in the diagnosis and treatment of Cytomegalovirus infection. *J Infect Chemother*. 2022;25(4):301–310. <https://doi.org/10.1016/j.jinf.2022.02.001>
- Collins-McMillen D, Buehler J, Peppenelli M, et al. Molecular mechanisms of Cytomegalovirus latency and reactivation. *Viruses*. 2023;15(4):890. <https://doi.org/10.3390/v15040890>
- Farida H, Muyassaroh M, Naftali Z. Infeksi CMV sebagai faktor risiko kurang pendengaran pada anak (studi di RSUP Dr. Kariadi Semarang). *Medica Hospitalia*. 2020;7(1):21–26. <https://doi.org/10.36408/mhjcm.v7i1.417>
- Faure-Bardon V, Leruez-Ville M. Treatment of CMV infection in children: When to treat and when to watch. *Arch Pediatr*. 2021;28(5):418–424. <https://doi.org/10.1016/j.arcped.2021.05.003>
- Ferrari D, Sabetta E, Ceriotti F, et al. Routine blood analysis greatly reduces the false-negative rate of RT-PCR testing for Covid-19. *Acta Biomed*. 2020;91(3):e2020033. <https://doi.org/10.23750/abm.v91i3.10060>

- Fowler KB, Boppana SB. Congenital Cytomegalovirus infection: Epidemiology and outcome. *Clin Perinatol.* 2022;49(3):579–601. <https://doi.org/10.1016/j.clp.2022.05.001>
- Gabrielli L, Bonasoni MP, Lazzarotto T. Pathogenesis of human Cytomegalovirus infection and cellular immunity. *Front Cell Infect Microbiol.* 2023;13:109–121. <https://doi.org/10.3389/fcimb.2022.109121>
- Galitska G, Stracquadanio S, Camiolo S, et al. Genetic Variability of Human Cytomegalovirus Clinical Isolates Impacts NK Cell Response. *Front Immunol.* 2021;12:532484. <https://doi.org/10.3389/fimmu.2021.532484>
- Gantt S, Dionne F, Kozak FK, et al. Cost-effectiveness of Universal and Targeted Newborn Screening for Congenital Cytomegalovirus Infection. *JAMA Pediatr.* 2023;177(12):1173–1180. <https://doi.org/10.1001/jamapediatrics.2023.4284>
- Gowda VK, Ashwath Kumar S, Chaturvedi UC, Murthy S. Neurological manifestations of congenital Cytomegalovirus infection at a tertiary care centre. *Rural Neurol Pract.* 2021;1(1):15–23. <https://doi.org/10.1055/s-0041-1736466>
- Handayani DS, Setiawan B, Hariyanto T, Pratama KB, Kusuma MJ. Congenital Cytomegalovirus infection as an important cause of neonatal cholestasis: a casereport. *Cureus.* 2020;12(6):e8670. <https://doi.org/10.7759/cureus.8670>
- Huang Y, Zhang X, Li X, et al. Comparison of detection strategies for screening and confirming congenital Cytomegalovirus infection in newborns in a highly seroprevalent population: a mother-child cohort study. *Lancet Reg Health West Pac.* 2021;12:100182. <https://doi.org/10.1016/j.lanwpc.2021.100182>
- Hwong AR, Bokor B. Neutropenia associated with valganciclovir treatment in pediatric patients: A retrospective cohort study. *J Pediatric Infect Dis Soc.* 2020;9(4):460–466. <https://doi.org/10.1093/jpids/piz095>
- Khales P, Tabatabaei SM, Nikbin B, Rahbarghazi R, Behzad S, Moradi A. Prevalence of respiratory viruses in children hospitalized for respiratory tract infections during and after the COVID-19 pandemic era: a systematic review and meta-analysis. *Front Pediatr.* 2025;13:1432819. <https://doi.org/10.3389/fped.2025.1432819>
- Klenerman P, Oxenius A. T cell responses to Cytomegalovirus. *Nat Rev Immunol.* 2016;16(6):365–377. <https://doi.org/10.1038/nri.2016.38>
- Kurlat I, et al. Saliva polymerase chain reaction assay for screening of congenital Cytomegalovirus infection. *J Perinatol.* 2020;40:1105–1110. <https://doi.org/10.1038/s41372-020-0648-3>
- Lanfermann H, et al. Cytomegalovirus pneumonia in children: A systematic review. *Pediatr Pulmonol.* 2021;56(3):123–130. <https://doi.org/10.1002/ppul.25123>
- Lanzieri TM, Chung W, Flores M. Hearing loss and Cytomegalovirus infection in children: Findings from a 5-year longitudinal study. *Pediatrics.* 2023;151(3):e2022056. <https://doi.org/10.1542/peds.2022-057610>

- Lanzieri TM, Kruszon-Moran D, Cabello R, Redd JT, Amin MM, Jones JL. Cytomegalovirus seropositivity and health outcomes in the United States population: epidemiology, burden of disease, and opportunities for prevention. *CDC ACIP CMV Vaccine Workgroup*. 2024–2025. Available from: <https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2024-02-28-29/02-CMV-Lanzieri-508.pdf>
- Luck SE, Wieringa JW, Blázquez-Gamero D, et al. Compartmentalized dynamics of cytomegalovirus replication in treated congenital infection. *J Clin Virol*. 2016;82:152-158. <https://doi.org/10.1016/j.jcv.2016.06.015>
- Luo Y, Ren L, Liu W. Correlation analysis between Cytomegalovirus DNA load and serum antibodies in children with CMV infection. *Arch Virol*. 2021;166(5):1371–1377. <https://doi.org/10.1007/s00705-021-04987-x>
- Lurain NS, Chou S. Antiviral drug resistance of human Cytomegalovirus. *Clin Microbiol Rev*. 2020;33(3):e00088-19. <https://doi.org/10.1128/CMR.00088-19>
- Lutz CS, Byrd CJ, Zell E, Whitmore BJ, Fowler KB, Boppana SB, Grosse SD. Updated national and state-specific prevalence of congenital Cytomegalovirus infection across the United States. *J Infect Dis*. 2023;229(3):305–312. <https://doi.org/10.1093/infdis/jiad544>
- Manicklal S, Emery VC, Lazzarotto T, et al. The "silent" global burden of congenital Cytomegalovirus. *Clin Microbiol Rev*. 2023;26(1):86–102. <https://doi.org/10.1128/CMR.00062-12>
- Marsico C, Kimberlin DW. Managing congenital and pediatric Cytomegalovirus infection: State of the art. *Pediatr Clin North Am*. 2022;69(1):123–140. <https://doi.org/10.1016/j.pcl.2021.09.006>
- Merav L, Pando R, Shlesinger Y, et al. Implementation of pooled saliva tests for universal screening of cCMV. *Nat Med*. 2024;30:576–584. <https://doi.org/10.1038/s41591-024-02873-3>
- Min CY, Kang HM, Lee J, et al. Clinical characteristics and prognosis of hepatic cytomegalovirus infection in children. *Korean J Pediatr*. 2017;60(8):260-265. <https://doi.org/10.3345/kjp.2017.60.8.260>
- Minh BQ, Nguyen MA, von Haeseler A. Ultrafast approximation for phylogenetic bootstrap. *Mol Biol Evol*. 2013;30(5):1188-1195. <https://doi.org/10.1093/molbev/mst024>
- Ogunfuye OA, Shokunbi OS. Polymerase chain reaction (PCR). StatPearls. 2025. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK589663/>. Accessed 6 Jul 2025
- Papadimitriou-Olivgeris M, Spiliopoulou A, Marangos M, Christofidou M. The wide spectrum of presentations of Cytomegalovirus infection in immunocompetent individuals. *J Med Virol*. 2024;96(8):e29678. <https://doi.org/10.1002/jmv.29678>
- Pasternak Y, Ziv L, Attias J. Safety of long-term valganciclovir therapy in children with congenital CMV. *Eur J Pediatr*. 2022;181(5):1965–1972.

- <https://doi.org/10.1007/s00431-022-04388-z>
- Pecoraro V, Demirtas A, Guillert L, et al. Estimate false-negative RT-PCR rates for SARS-CoV-2: A systematic review and meta-analysis. *Eur J Clin Invest*. 2021;52(2):e13706. <https://doi.org/10.1111/eci.13706>
- Peradotto M, Tiberti C, Corigliano E, et al. The role of CMV IgM and IgG avidity in identifying primary CMV infection in pregnancy and pediatric settings. *J Med Virol*. 2020;92(10):2066–2072. <https://doi.org/10.1002/jmv.25997>
- Poole CL, James SH. Antiviral therapies for herpesviruses in children: CMV complications. *Infect Dis Clin North Am*. 2020;34(3):473–490. <https://doi.org/10.1016/j.idc.2020.06.002>
- Ross SA, Ahmed A, Palmer AL. Diagnosis of Cytomegalovirus infections in the genomic era. *Infect Dis Clin North Am*. 2022;36(3):1–15. <https://doi.org/10.1016/j.idc.2022.04.001>
- Santos Silva E, Ferreira S, Leite P, Duarte R, Tomé T, Carvalho O, Grangeia A, Rocha G. Neonatal cholestasis over time: Changes in etiology and management. *Front Pediatr*. 2020;8:351. <https://doi.org/10.3389/fped.2020.00351>
- Sari Y, Wulandari D. Profile of Cytomegalovirus (CMV) antibodies among blood donors in Jakarta. *Indonesian J Clin Pathol Med Lab*. 2022;28(2):150–155. <https://doi.org/10.24293/ijcpml.v28i2.1782>
- Schleiss MR, Hernandez-Alvarado N, et al. Comparison of overall sensitivity and specificity across different newborn screening algorithms for congenital Cytomegalovirus. *Int J Neonatal Screen*. 2023;9(3):36. <https://doi.org/10.3390/ijns9030036>
- Setyoboedi B. The agreement of Cytomegalovirus (CMV) serology examination and CMV PCR of liver tissue in infants with cholestasis. *Scholar Unair*. 2021;12(3):45–50. Available from: <https://repository.unair.ac.id/>
- Sidstedt M, Rådström P, Hedman J. PCR inhibition in qPCR, dPCR and MPS—mechanisms and solutions. *Anal Bioanal Chem*. 2020;412(9):2009–2023. <https://doi.org/10.1007/s00216-020-02490-x>
- Sijmons S, Thys K, Mbong Ngwese M, et al. High-throughput sequencing for HCMV genotyping in congenital infection. *Viruses*. 2020;12(5):567. <https://doi.org/10.3390/v12050567>
- Situmorang L, Sudharmono PO, Sumarno, Sukarya A. Infection of Cytomegalovirus in cholestasis infant with biliary atresia and non-biliary atresia. *Pediatr Gastroenterol Hepatol Nutr*. 2024;27(2):123–131. <https://doi.org/10.5223/pghn.2024.27.2.123>
- Sleiman AI, Rappazzo KC. Transmission dynamics of Cytomegalovirus in childcare settings: A systematic review. *Pediatr Infect Dis J*. 2021;40(5):456–462. <https://doi.org/10.1097/INF.0000000000003056>
- Ssentongo P, Hehnly C, Birungi P, et al. Congenital Cytomegalovirus infection burden and epidemiologic risk factors in countries with universal screening: A systematic review and meta-analysis. *JAMA Netw Open*.

- 2021;4(8):e2120736.
<https://doi.org/10.1001/jamanetworkopen.2021.20736>
- Tanimura K, Tairaku S, Morioka I. Molecular diagnosis and prognosis of congenital Cytomegalovirus infection. *J Obstet Gynaecol Res.* 2021;47(2):467–474. <https://doi.org/10.1111/jog.14552>
- Tzialla C, Borghesi A, Manzoni P, et al. Clinical Manifestations of Non-Congenital CMV Infection in Infants and Children: A Comprehensive Review. *Microorganisms.* 2025;13(4):1202.
<https://doi.org/10.3390/microorganisms13041202>
- Valenčak M, Mrak G, Mrakovčić-Šutić I, Kniewald A, Matijas V, Poljaković-Čulo K, Zadro R. Clinical characteristics, neuroimaging findings and long-term neurodevelopmental outcomes in children with congenital Cytomegalovirus infection. *J Clin Med.* 2025;14(6):1721.
<https://doi.org/10.3390/jcm14061721>
- Van'kova OE, Brusnigina NF, Novikova NA. Prevalence and phylogenetic analysis of cytomegalovirus genetic variants from children and immunocompromised patients. *Probl Virol.* 2024;69(6):45–53.
<https://doi.org/10.36233/0507-4088-219>
- Vilibic-Cavlek T, Kolaric B, Bogdanie M, et al. Seroprevalence and diagnostic challenges of Cytomegalovirus infection in potential organ donors and recipients. *Microorganisms.* 2021;9(2):405.
<https://doi.org/10.3390/microorganisms9020405>
- Wang L, Xu X, Zhang H, et al. Dried blood spot PCR assays for screening congenital Cytomegalovirus infection: A meta-analysis. *PLOS ONE.* 2015;10(5):e0123970. <https://doi.org/10.1371/journal.pone.0123970>
- Wang X, Li C, Chen Q, Chen H, Lü Y, Shen Z, Zhang J, Yao Y. Clinical characteristics of pediatric patients hospitalized with community-acquired pneumonia and CMV replication or recent infection. *Front Pediatr.* 2024;12:1407174. <https://doi.org/10.3389/fped.2024.1407174>
- Wang X, Tan L, et al. Analytical sensitivity comparison of 14 conventional and three rapid RT-PCR assays for SARS-CoV-2 detection. *J Virol Methods.* 2021; 293:114144
- Yeo WH, Kim YJ. Viral characteristics and epidemiology of human Cytomegalovirus. *Korean J Pediatr Infect Dis.* 2020;27(1):1–10.
<https://doi.org/10.14776/kjpid.2020.27.1.1>
- Zhou YP, Sun Y, Wang S, et al. A congenital CMV infection model for follow-up studies of neurodevelopmental disorders and pathogenesis. *JCI Insight.* 2022;7(1):e151610. <https://doi.org/10.1172/jci.insight.151610>