

DAFTAR PUSTAKA

- Adedokun O. A., Burgess W. D. 2012. Analysis of paired dichotomous data: A gentle introduction to the McNemar test in SPSS. *JMDE*. *:125-32.
- Albanna, E., El-Latif R., and Sharaf H. 2013. Diagnosis of congenital cytomegalovirus infection in high risk neonates. *Mediterr J Hematol Infect Dis*. 5: 2013049.
- Amarapal, P., Pengsa K, Chotekiate U, Kaolueng S, and Balachandra K. 2001. Rapid diagnosis of cytomegalovirus infection in congenital neonates. *Southeast Asian Journal of Tropical Medicine and Public Health*. 32: 154-7.
- Angelika, D., Puspitasari D, Setyoboedi B dan Arief S. 2012. Akurasi pemeriksaan serologi IgM anti CMV dengan klinis sebagai alternatif diagnosis hepatitis neonatal cytomegalovirus. [Tesis]. Fakultas Kedokteran. Universitas Airlangga. Surabaya.
- Arief, S. 2004. Deteksi dini kolestasis neonatal. Dalam: Ismoedijanto., P. S. Basuki., A. L. Aziz dan R. Irawan. *Continuing education Ilmu Kesehatan Anak*. Surabaya: Laboratorium/SMF Ilmu Kesehatan Anak Fakultas Kedokteran Universitas Airlangga. hlm 201-215.
- Baldanti, F., Lilleri D., and Gerna G. 2008. Monitoring human cytomegalovirus infection in transplant recipients. *J Clin Virol*. 41:237-41.
- Bazlul Karim, A. S. and M. Kamal. 2005. Cholestasis jaundice during infancy: experience at a tertiary-care center in Bangladesh. *Indian. J. Gastroenterol*. 24(2): 52-54.
- Bellomo-Brandao, M.A., Andrade P. D., Costa S.C.B., Escanhoela C.A.F., Vassallo J, Porta G, Tommaso A.M. and G. Hessel. 2009. Cytomegalovirus frequency in neonatal intrahepatic cholestasis determined by serology, histology, immunohistochemistry and PCR. *World. J. Gastroenterol*. 15: 3411-3416.
- Bhatia, P., Narang A., and Minz R., 2010. Neonatal cytomegalovirus infection: diagnostic modalities available for early disease detection. *Indian J Pediatr*. 77: 77-9.
- Bhatia, V., A. Bavdekar., J. Matthai., Y. Waikar and A. Sibal. 2014. Management of Neonatal Cholestasis: Consensus Statement of the Pediatric Gastroenterology Chapter of Indian Academy of Pediatrics. *Indian Pediatr*. 51: 203-210.

- Boppana, S. B., Ross S. A., and Fowler K.B. 2013. Congenital cytomegalovirus infection: clinical outcome. *Clin Infect Dis.* 57(4): 178-81.
- Boppana, S. B., Ross S. A., Novak Z., Shimamura M., Tolan R. W., Palmer A.L., Ahmed A., Michaels M. G., Sanchez P. J., Bernstein D. I., Britt W. J., and Fowler K. B. 2010. Dried blood spot real-time polymerase chain reaction assays to screen newborns for congenital cytomegalovirus infection. *JAMA.* 303: 1375-1382.
- Boppana, S. B., Ross S. A., Novak Z., Shimamura M., Tolan R. W., Palmer A.L., Ahmed A., Michaels M. G., Sanchez P. J., Bernstein D. I., Chowdhury N., Britt W. J., and Fowler K. B. 2011. Saliva Polymerase-Chain-Reaction Assay for Cytomegalovirus Screening in Newborns. *N Engl J Med.* 364: 2111-2118.
- Bradford, R. D., Cloud G., Lakeman A. D., Boppana S. B., Kimberlin D., Jacobs R., Demmler G., Sanchez P., Britt W., Soong S. J., and Whitley R. J. 2005. Detection of cytomegalovirus (CMV) DNA by polymerase chain reaction is associated with hearing loss in newborns with symptomatic congenital CMV infection involving the central nervous system. *J Infect Dis.* 191: 227-33.
- Britt, W. 2011. Cytomegalovirus. In: Remington, J. S., Klein J. O., Wilson, Nizet V., and Maldonado Y. A. *Infectious Diseases of the Fetus and Newborn Infant.* 7th ed.
- Brytting, M., W. Xu, B. Wahren, and Sundqvist V.A. 1992. Cytomegalovirus DNA detection in sera from patients with active cytomegalovirus infections. *J. Clin. Microbiol.* 30:1937-1941.
- Caliendo, A. M., R. Schuurman., B. Yen-Lieberman., S. A. Spector., J. Andersen., R. Manjiry., C. Crumpacker., Lurain and Erice A. 2001. Comparison of quantitative and qualitative PCR assays for cytomegalovirus DNA in plasma. *J. Clin. Microbiol.* 39:1334-1338.
- Chang, M. H., Huang H. H., Huang E. S., Kao C. L., Hsu H. Y., and Lee C. Y. 1992. Polymerase chain reaction to detect human cytomegalovirus in livers of infants with neonatal hepatitis. *Gastroenterology.* 103: 1022-5.
- Coll, O., Benoist G., Ville Y., Weisman L., Botet F., Anceschi M., Greenough A., Gibbs R., Carbonell-Estrany X.; and WAPM Perinatal Infections Working Group. 2009. Guidelines on CMV congenital infection. *J Perinat Med.* 37:433-45.
- Crough, T. and R. Khanna. 2009. Immunobiology of human cytomegalovirus: from bench to bedside. *Clin Microbiol Rev.* 22: 76-98.

- Davis, A. R., Rosenthal P., Escobar G. J., and Newman T. B. 2011. Interpreting conjugated bilirubin levels in newborns. *J Pediatr*. 158: 562-565
- De Tommaso, A. M., Andrade P. D., Costa S. C., Escanhoela C. A. and Hessel G. 2005. High frequency of human cytomegalovirus dna in the liver of infants with extrahepatic neonatal cholestasis. *BMC Infectious Diseases*. 5:108-113
- de Vries, J., van der Eijk A., Wolthers A., Rusman L., Pas S., Molenkamp R. , Eric C., A. Kroes A., and Vossen A. 2011. Real-time PCR versus viral culture on urine as a gold standard in the diagnosis of congenital cytomegalovirus infection. *J Clin Virol*. 53: 167-70.
- Ermaya, Y.S., I. Rosalina D., Prasetyo I., dan Sabaroedin M. 2013. Neonatal Hepatitis Human Citomegalovirus Characteristics And Complications In Infants At Dr. Hasan Sadikin General Hospital Bandung, West Java Indonesia. 31st Annual Meeting of the European Society for Paediatric Infectious Diseases. 2: 954.
- Fawaz, R., Baumann U., Ekong U., Fischler B., Hadzic N., Mack C. L., McLin V. A., Molleston J. P., Neimark E., and Karpen S. J. 2017. Guideline for the Evaluation of Cholestatic Jaundice in Infants: Joint Recommendations of the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition and the European Society for Pediatric Gastroenterology, Hepatology, and Nutrition. *J Pediatr Gastroenterol Nutr*. 64: 154-168.
- Feldman, A. G., and Sokol R. J. 2013. Neonatal Cholestasis. *Neoreviews*. 14: 14-26
- Fischler, B., A. Ehrnst., M. Forsgren., C. Orvell and Nemeth A. 1998. The viral association of neonatal cholestasis in Sweden: a possible link between cytomegalovirus infection and extrahepatic biliary atresia. *J Pediatr Gastroenterol Nutr*. 27: 57-64.
- Fischler, B., and Lamireau T. 2014. Cholestasis in the newborn and infant. *Clin Res Hepatol Gastroenterol*. 38: 263-7.
- Gandhi, M. K and R. Khanna. 2004. Human cytomegalovirus: clinical aspects, immune regulation, and emerging treatments. *Lancet Infect Dis*. 4: 725-738.
- Gandhoke, I., Aggarwal R., and Lal S. 2006. Congenital CMV infection in symptomatic infants in Delhi and surrounding areas. *Indian J Pediatr*. 73:1095–1097.
- Giasuddin, A. S. M. 1995. Polymerase Chain Reaction Technique: Fundamental Aspects and Applications in Clinical Diagnostics. *Med J Islamic World Acad Sci*. 8: 29-32.

- Girard, M. and F. Lacaille. 2008. Diagnosis of neonatal cholestasis. *Ann Nestle (Engl)*. 66: 109-120.
- Goel, A., Chaudhari S., Sutar J., Bhonde G., Bhatnagar S., Patel V., Bhor V, and Shah I. 2018. Detection of Cytomegalovirus in Liver Tissue by Polymerase Chain Reaction in Infants With Neonatal Cholestasis. *Pediatr Infect Dis J*. 37: 632-6.
- Götze, T., H. Blessing, C. Grillhösl, P. Gerner and A. Hoerning. 2015. Neonatal cholestasis - differential diagnoses, current diagnostic procedures, and treatment. *Front. pediatr*. 3: 43-43.
- Hugo, J. P. J., Jonsson M., Ahlfors K., Ivarsson S. A., Svanberg L., and Guthenberg C. 1997. Retrospective Diagnostics of Congenital Cytomegalovirus Infection Performed by Polymerase Chain Reaction in Blood Stored on Filter Paper. *Scand J Infect Dis*. 29: 465-468.
- James, K. 1990. Immunoserology of infectious diseases. *Clin Microbiol Rev*. 3: 132-152.
- Jevon, G. P. and J. E. Dimmick. 1999. Biliary atresia and cytomegalovirus infection: a DNA study. *Pediatr Dev Pathol*. 2:11-14.
- Jones, R. N., Neale M. L., Beattie B., Westmoreland D., and Fox J. D. 2000. Development and Application of a PCR-Based Method Including an Internal Control for Diagnosis of Congenital Cytomegalovirus Infection. *J Clin Microbiol*. 38: 1-6.
- Kalejta, R. F. 2008. Tegument proteins of human cytomegalovirus. *Microbiol Mol Biol Rev*. 72: 249-265.
- Kim, C. S. 2010. Congenital and perinatal cytomegalovirus infection. *Korean J Pediatr*. 53: 14-20.
- Lanari, M., Lazzarotto T., Venturi V., Papa I., Gabrielli L., Guerra B., Landini M. P., and G. Faldella. 2006. Neonatal cytomegalovirus blood load and risk of sequelae in symptomatic and asymptomatic congenitally infected newborns. *Pediatrics*. 117: 76-83.
- Lawrence, R. M. 2006. Cytomegalovirus in human breast milk: risk to the premature infant. *Breastfeed Med*. 1: 99-107.
- Lazzarotto, T., Guerra B., Spezzacatena P., Varani S., Gabrielli L., Pradelli P., Rumpianesi F., Banzi C., Bovicelli L., and Landini M. P. 1998. Prenatal Diagnosis of Congenital Cytomegalovirus Infection. *J Clin Microbiol*. 36: 3540-3544.

- Lee, W. S and L. M. Looi. 2009. Usefulness of a scoring system in the interpretation of histology in neonatal cholestasis. *World. J. Gastroenterol.* 15: 5326-5333.
- Leila N. 2002. Infection by cytomegalovirus in patients with neonatal cholestasis. *Arq Gastroenterol.* 39:132-6.
- Leung, A. K. C., Sauve R. S., and Davies H. D. 2003. Congenital cytomegalovirus infection. *J Natl Med Assoc.* 95: 213-8.
- Levy, R., Najioullah, F., Thouvenot D., Bosshard S., Aymard M., and Lina B. 1996. Evaluation and comparison of PCR and hybridization methods for rapid detection of cytomegalovirus in clinical samples. *Journal of Virological Methods.* 62: 103-111.
- Liberek, A., Rytlevska M., Szlagatys-Sidokierwicz A., Bako W., Luczak G., Sikorska-Wisniewska G., and Korzon M. 2002. Cytomegalovirus disease in neonates and infants clinical presentation, diagnostic and therapeutic problems own experience. *Med Sci Monit.* 8: 815-820.
- Low, Y., Vijayan V. and Tan C. E. 2001. The prognostic value of ductal plate malformation and other histologic parameters in biliary atresia: an immunohistochemical study. *J Pediatr.* 139: 320-2.
- Malm, G., and Engman M. L. 2007. Congenital cytomegalovirus infections. *Semin Fetal Neonatal Med.* 12: 154-159.
- Manicklal, S., Emery V. C., Lazzarotto T., Boppana S. B., and Gupta R. K. 2013. The "Silent" Global Burden of Congenital Cytomegalovirus. *Clin Microbiol Rev.* 26: 86-102.
- Moyer, V., Freese D. K., Whittington P. F., Olson A. D., Brewer F., Colletti R. B., and Heyman M. B. 2004. Guideline for the evaluation of cholestatic jaundice in infants: recommendations of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition. *J Pediatr Gastroenterol Nutr.* 39: 115-28.
- Muller, W. J., Jones C. A., and Koelle D. M. 2010. Immunobiology of herpes simplex virus and cytomegalovirus infections of the fetus and newborn. *Curr Immunol Rev.* 6: 38-55.
- Mussi-Pinhata, M., Yamamoto A., Moura B., Lima I., Carvalho O., and Boppana S. Birth prevalence and natural history of congenital cytomegalovirus infection in a highly seroimmune population. *Clin Infect Dis* 2009; 15: 522-8.

- Nelson, C. T., Ista A. S., Wilkerson M. K., and Demmler G. J. 1995. PCR detection of cytomegalovirus DNA in serum as a diagnostic test for congenital cytomegalovirus infection. *J Clin Microbiol.* 33: 3317-3318.
- Ninung, R. D. K, I. Hartantyo., V. Rosalina., dan Nurhayati I. 2012. Aspartat Amino Transferase-Platelet Ratio Index (APRI), Kadar Bilirubin dan Venektasi Penderita Kolestasis Anak di RSUP Dr. Kariadi Semarang. *M Med Indones.* 46: 57-61.
- NAPSGHAN. 2004. Guideline for the evaluation of cholestatic in infants. *J. Pediatr. Gastroenterol. Nutr.* 39:115-128.
- Numazaki, K., Chiba S. 1996. PCR Detection of Cytomegalovirus DNA in Serum as Test for Congenital Cytomegalovirus Infection. *J Clin Microbiol.* 34: 1871-2.
- Olive, S.M., and Al-Mufti S. 1989. Polymerase Chain Reaction Assay for Detection of Human Cytomegalovirus. *J Clin Microbiol.* 6: 1238-42.
- Oliveira, N. L., Kanawaty F. R., Costa S. C., and Hessel G. 2002. Infection by cytomegalovirus in patients with neonatal cholestasis. *Arq Gastroenterol.* 39: 132-136.
- Pawlowska, J., D. Gliwicz., I. Jankowska., Przemyslaw K., B. Cukrowska., K. Dzierzanowski. 2010. The role of cytomegalovirus infection in pathogenesis of neonatal cholestasis. *Experimental & Clinical Hepatology.* 6: 25-29.
- Pereira, T. N., Walsh M. J., Lewindon P. J., and Ramm G. A. 2010. Paediatric cholestatic liver disease: Diagnosis, assessment of disease progression and mechanisms of fibrogenesis. *World J Gastrointest Pathophysiol.* 1: 69-84.
- Poddar, U., B. R. Thapa., A. Das, A. Bhattacharya., K. L. Rao and K. Singh. 2009. Neonatal cholestasis: differentiation of biliary atresia from neonatal hepatitis in a developing country. *Acta Paediatr.* 98: 1260-1264.
- Ramm, G. A., Nair V. G., Bridle K. R., Shepherd R. W., and Crawford D. H. 1998. Contribution of hepatic parenchymal and nonparenchymal cells to hepatic fibrogenesis in biliary atresia. *Am J Pathol.* 153: 527-35.
- Rashed, Y. K., M. A. Saber., M. Tawfik and W. S. Mourad. 2013. Histopathological features and accuracy for diagnosing biliary atresia by prelaparotomy liver biopsy in Egypt. *Egyptian Pediatric Association Gazette.* 61: 42-45.
- Rastogi, A., N. Krishnani, S. K. Yachha, V. Khanna, Poddar U., and Lal R. 2009. Histopathological features and accuracy for diagnosing biliary atresia by

- prelaparotomy liver biopsy in developing countries. *J. Gastroenterol. Hepatol.* 24:97-102.
- Revello, M. G. and G. Gerna. 2002. Diagnosis and management of human cytomegalovirus infection in the mother, fetus, and newborn infant. *Clin Microbiol Rev.* 15: 680-715.
- Rogers, B. B., Alpert L. C., Hine E. A., and Buffone G. J. 1990. Analysis of DNA in fresh and fixed tissue by the polymerase chain reaction. *Am J Pathol.* 136: 541-8.
- Ross, S., Novak Z., Pati S., and Boppana S. 2011. Diagnosis of Cytomegalovirus Infections. *Infect Disord Drug Targets.* 11: 466-74.
- Ross, S. A., A. Ahmed., A. L. Palmer., M. G. Michaels., P. J. Sanchez., D. I. Bernstein., R. W. Tolan., Z. Novak., N. Chowdhury., K. B. Fowler and Boppana S.B. 2014. Detection of congenital cytomegalovirus infection by real-time polymerase chain reaction analysis of saliva or urin specimens. *J Infect Dis.* 210: 1415-1418.
- Ross, SA., Ahmed A., Palmer AL., Michaels MG., Sánchez PJ., Stewart A., Bernstein D.I., Feja K., Novak Z., Fowler K.B., Boppana S.B.; National Institute on Deafness and Other Communication Disorders CHIMES Study. 2015. Urine Collection Method for the Diagnosis of Congenital Cytomegalovirus Infection. *Pediatr Infect Dis J.* 34:903-5.
- Sandin, R., Rodriguez E., Rosenberg E., Porter-Jordan K., Caparas M., and Nasim S. 1991. Comparison of sensitivity for human cytomegalovirus of the polymerase chain reaction, traditional tube culture and shell vial assay by sequential dilutions of infected cell lines. *J Virol Methods.* 32:181-91.
- Schlesinger, Y., Halle D., Eidelman A., Reich D., Dayan D., Rudensky B., Raveh D., Branski D., Kaplan M., Shefer V., dan Miron D. 2003. Urine polymerase chain reaction as a screening tool for the detection of congenital cytomegalovirus infection. *Arch Dis Child Fetal Neonatal.* 88: 371-4
- Serinet, M. O., Wildhaber B. E., Broue P., Lachaux A., Sarles J., Jacquemin E., Gauthier F., and Chardot C. 2009. Impact of age at Kasai operation on its results in late childhood and adolescence: a rational basis for biliary atresia screening. *Pediatrics.* 123: 1280-6.
- Sinclair, J. and P. Sissons. 2006. Latency and reactivation of human cytomegalovirus. *J Gen Virol.* 87: 1763-1779.

- Sira, M., Sira A., Elhenawy I., and Khalil F. 2016. Prevalence of serological markers of TORCH infections in Biliary atresia and other neonatal cholestatic disorders. *Peertechz J Pediatr Ther.* 2: 13-7.
- Situmorang, L., Setyoboedi B., dan Arief S. 2018. Perbedaan prevalensi infeksi cytomegalovirus pada bayi kolestasis dengan dan tanpa atresia bilier [Tesis]. Fakultas Kedokteran. Universitas Airlangga. Surabaya.
- Stehel, E. K., and Sanchez P. J. 2005. Cytomegalovirus Infection in the Fetus and Neonate. *NeoReviews.* 6:38-45.
- Steininger, C. 2007. Novel therapies for cytomegalovirus disease. *Recent Pat Antiinfect Drug Discov.* 2: 53-72.
- Suchy, F. J. 2004. Neonatal cholestasis. *Pediatr Rev.* 25: 388-96.
- Swanson, E. C. and M. R. Schleiss. 2013. Congenital cytomegalovirus infection: new prospects for prevention and therapy. *Pediatr Clin North Am.* 60: 335-349.
- Szavay, P. O., Leonhardt J., Czech-Schmidt G., and Petersen C. 2002. The role of reovirus type 3 infection in an established murine model for biliary atresia. *Eur J Pediatr Surg.* 12: 248-50.
- Talacian, E., Bidari A., Mehrazma M. and Nick-khah N. 2014. Biopsy-driven diagnosis in infants with cholestatic jaundice in iran. *World Journal of Gastroenterology.* 20:1048-53.
- Tasic, GO., M. Dinic., H. Stamenkovic., and Tasic M. 2005. Cytomegalovirus infection in infants with hepatosplenomegaly. *Med Biol.* 12: 154-158.
- Tezer, H., Secmeer G., Kara A., Ceyhan M., Cengiz A. B., Devrim I., Yuce A., Gurakan F., Yildirim I., Ozen H., and Saltik-Temizel I. N. 2008. Cytomegalovirus hepatitis and ganciclovir treatment in immunocompetent children. *Turk J Pediatr.* 50: 228-234.
- Trauner, M., Meier P. J., and Boyer J. L. 1998. Molecular pathogenesis of cholestasis. *N Engl J Med.* 339: 1217-1227.
- Tufano, M., E. Nicastro., P. Giliberti., A. Vegnente., F. Raimondi and R. Iorio. 2009. Cholestasis in neonatal intensive care unit: incidence, aetiology and management. *Acta. Paediatr.* 98: 1756-1761.
- Vancikova, Z., Kucerova T., Pelikan L., Zikmundova L., and Priglova M. 2004. Perinatal cytomegalovirus hepatitis: to treat or not to treat with ganciclovir. *J Paediatr Child Health.* 40: 444-448.

- Venigalla, S. and G. R. Gourley. 2004. Neonatal cholestasis. *Seminars. in Perinatology*. 28: 348-355.
- Whittington, P. F., Freese D. K., Alonso E. M., Schwarzenberg S. J., and Sharp H. L. 1994. Clinical and biochemical findings in progressive familial intrahepatic cholestasis. *J Pediatr Gastroenterol Nutr*. 18: 134-141.
- Xavier, P.C., Gonçalves V. P., de Souza A. T., Yano M., Martinelli T. L.V., Duarte M., Martimbianco C., Sousa M., and Bastista P. 2016. Cytomegalovirus Identification in Blood and Urine of Newborns by Nested Polymerase Chain Reaction. *West Indian Med J*. 65:291-294
- Xu, Y., J. Yu., R. Zhang., Y. Yin., J. Ye., L. Tan and H. Xia. 2012. The perinatal infection of cytomegalovirus is an important etiology for biliary atresia in China. *Clin. Pediatr (Phila)*. 51: 109-113.
- Yamamoto, A., Mussi-Pinhata M., Marin L., Brito R., Oliveira P., and Coelho T. 2006. Is saliva as reliable as urine for detection of cytomegalovirus DNA for neonatal screening of congenital CMV infection?. *J Clin Virol*. 36: 228-30.
- Yang, J. G., D. Q. Ma., Y. Peng., L. Song., and C. L. Li. 2009 Comparison of different diagnosis methods for differentiating biliary atresia from idiopathic neonatal hepatitis. *Clin. Imaging*. 33(6): 439-446.
- Zani, A., Quaglia A., and Hadzić N . 2015. Cytomegalovirus-associated biliary atresia: An aetiological and prognostic subgroup. *J Pediatr Surg*. 50:1739–1745.
- Zhang, S., Zhou Y., Li L. and Hu Y. 2010. Monitoring human cytomegalovirus infection with nested PCR: comparison of positive rates in plasma and leukocytes and with quantitative PCR. *Virol. J*. 7: 73-75.