

## DAFTAR PUSTAKA

- Asselin, B.L. *et al.*, 2011. Effectiveness of High-Dose Methotrexate in T-Cell Lymphoblastic Leukemia and Advanced-Stage Lymphoblastic Lymphoma : A Randomized Study By The Children's Oncology Group (POG 9404). *Blood, The American Society of Hematology*, 118(4), pp.874-83.
- Bailey, L.B. *et al.*, 2015. Biomarkers of Nutrition for Development-Folate Review. *Journal of Nutrition*, 145, pp.1636S-80S.
- BCCA, 2012. *BC Cancer Agency Guidelines for Prevention and Treatment of Chemotherapy-Induced Nausea and Vomiting*. [Online]. Available at : [http://www.bccancer.bc.ca/chemotherapy-protocols-site/Documents/Supportive%20Care/SCNAUSEA\\_Protocol.pdf](http://www.bccancer.bc.ca/chemotherapy-protocols-site/Documents/Supportive%20Care/SCNAUSEA_Protocol.pdf) [Accessed 16 Mei 2019].
- BCCA, 2013. *BC Cancer Agency Cancer Drug Manual*. [Online] Available at: [http://www.bccancer.bc.ca/drug-database-site/Drug%20Index/Leucovorin\\_monograph\\_1Apr2013\\_formatted.pdf](http://www.bccancer.bc.ca/drug-database-site/Drug%20Index/Leucovorin_monograph_1Apr2013_formatted.pdf) [Accessed 28 Oktober 2018].
- BCCA, 2017. *BC Cancer Agency Cancer Drug Manual*. [Online] Available at: [http://www.bccancer.bc.ca/drug-database-site/Drug%20Index/Methotrexate\\_monograph.pdf](http://www.bccancer.bc.ca/drug-database-site/Drug%20Index/Methotrexate_monograph.pdf) [Accessed 28 Oktober 2018].
- Bleyer, W.A. & Kamen, B.A., 1997. Accumulation of Methotrexate in Systemic Tissues After Intrathecal Administration. *Journal of Pediatric Hematology/Oncology*, 19(6), pp.530-32.
- Borsi, J.D. & Moe, P.J., 1987. Systemic Clearance of Methotrexate in the Prognosis of Acute Lymphoblastic Leukemia in Children. *Cancer*, 60, pp.3020-24.
- Bostrom, B.C., Erdmann, G.R. & Kamen, B.A., 2003. Systemic Methotrexate Exposure Is Greater After Intrathecal Than After Oral Administration. *Journal of Pediatric Hematology/Oncology*, 25(2), pp.114-17.

- Cantarella, C.D., Ragusa, D., Giammanco, M. & Tosi, S., 2017. Folate Deficiency as Predisposing Factor for Childhood Leukaemia : A Review of The Literature. *Genes & Nutrition*, 12(14), pp.1-15.
- Castaldo, P. *et al.*, 2011. Clinical Pharmacogenetics of Methotrexate. *Current Drug Metabolism*, 12, pp.278-86.
- Cheng, D.H. *et al.*, 2018. Identification of Risk Factors in High-Dose Methotrexate Induced Acute Kidney Injury in Childhood Acute Lymphoblastic Leukemia. *Chemotherapy*, 63, pp.100-06.
- Chladek, J., Sispera, L. & Martinkova, J., 2000. High-Performance Liquid Chromatographic Assay for the Determination of 5-Methyltetrahydrofolate in Human Plasma. *Journal of Chromatography B*, 744, pp.307-13.
- Cooper, S.L. & Brown, P.A., 2015. Treatment of Pediatric Acute Lymphoblastic Leukemia. *Journal Pediatric Clinics of North America*, 62, pp.61-73.
- Dixit, R. *et al.*, 2017. Folate Supplementation in People with Sickle Cell Disease. *Cochrane Database Systematic Review*, 2, pp.1-35.
- du-Prel, J.B., Rohrig, B., Hommel, G. & Blettner, M., 2010. Choosing Statistical Tests, Part 12 of a Series on Evaluation of Scientific Publications. *Deutsches Arzteblatt International*, 107(19), pp.343-48.
- Ebid, A.I.M., Ezzat, S. & Ibrahim, M.A.M., 2015. Pharmacokinetics of High-Dose Methotrexate in Egyptian Children with Acute Lymphoblastic Leukemia : Impact of Interpatient Variations. *IOSR Journal of Pharmacy*, 5(10), pp.33-42.
- Farber, S. *et al.*, 1948. Temporary Remissions in Acute Leukemia in Children Produced by Folic Acid Antagonist, 4-Aminopteroyl-Glutamic Acid (Aminopterin). *Journal of Medicine*, 238(23).
- Ferdous, S.A., Akhter, A., Nahar, K. & Islam, A., 2017. High Dose Methotrexate and Leucovorin Rescue Therapy in Childhood

Malignancies : Experience in Resource-Limited Country. *Bangladesh Journal of Child Health*, 41(1), pp.15-23.

- Forster, V.J., McDonnell, A., Theobald, R. & McKay, J.A., 2017. Effect of Methotrexate/Vitamin B12 on DNA Methylation as a Potential Factor in Leukemia Treatment-Related Neurotoxicity. *Epigenomics*, 9(9), pp.1205-18.
- Gales, E. *et al.*, 2012. Methotrexate Side Effects : Review Article. *Journal of Drug Metabolism and Toxicology*, 3(4), pp.1-5.
- Graham, M.L. *et al.*, 1992. Red Blood Cell Methotrexate and Folate Levels in Children with Acute Lymphoblastic Leukemia Undergoing Therapy : A Pediatric Oncology Group Pilot Study. *Cancer Chemotherapy Pharmacology*, 31, pp.217-22.
- Hagner, N. & Joerger, M., 2010. Cancer Chemotherapy : Targeting Folic Acid Synthesis. *Cancer Management and Research*, 2, pp.293-301.
- Hannisdal, R. *et al.*, 2009. Analytical Recovery of Folate Degradation Products Formed in Human Serum and Plasma at Room Temperature. *The Journal of Nutrition*, 139, pp.1415-18.
- Heideman, N. & Abraham, S., 2016. Acute Leukemia. In *Pharmacotherapy Principles & Practice, Fourth Edition*. New York: The McGraw-Hill Companies, Inc. pp.1403-16.
- Henry, D.W., Holdsworth, M.T. & Kaiser, N.A., 2013. Pediatric Malignancies. In *Koda-Kimble & Young's Applied Therapeutics The Clinical Use of Drugs, Tenth Edition*. Philadelphia, USA: Lippicott Williams & Wilkins, a Wolter Kluwer. pp.2144-71.
- Hjalgrim, L.L. *et al.*, 2003. Age- and Sex-Specific Incidence of Childhood Leukemia by Immunophenotype in the Nordic Countries. *Journal of the National Cancer Institute*, 95(20), pp.1539-44.
- Holmboe, L. *et al.*, 2011. High Dose Methotrexate Chemotherapy : Pharmacokinetics, Folate and Toxicity in Osteosarcoma Patients. *British Journal of Clinical Pharmacology*, 73(1), pp.106-14.

- Howard, S.C. *et al.*, 2016. Preventing and Managing Toxicities of High-Dose Methotrexate. *The Oncologist*, 21, pp.1471-82.
- Hunger, S.P. & Mullighan, C.G., 2015. Acute Lymphoblastic Leukemia in Children. *The New England Journal of Medicine*, 373, pp.1541-52.
- Imbach, P., 2014. Acute Lymphoblastic Leukemia. In *Pediatric Oncology A Comprehensive Guide Third Edition*. Switzerland: Springer International Publishing. pp.5-20.
- Izar, B. *et al.*, 2016. Pharmacology and Toxicity Antineoplastic Drugs. In *Williams Hematology, 9th Edition*. New York: The McGraw-Hill Education. pp.315-52.
- Kapoor, G., Sinha, R. & Abedin, S., 2012. Experience With High Dose Methotrexate Therapy in Childhood Acute Lymphoblastic Leukemia in a Tertiary Care Centre of a Developing Country. *Pediatric Blood Cancer*, pp.1-6.
- Katzung, B.G., Masters, S.B. & Trevor, A.J., 2010. *Basic & Clinical Pharmacology 10th Edition*. USA: The McGraw-Hill Companies, Inc.
- Kemenkes, 2016. *Kendalikan Kanker Pada Anak*. [Online] Kementerian Kesehatan Republik Indonesia Available at: <http://www.depkes.go.id/article/print/16021600001/kendalikan-kanker-pada-anak.html> [Accessed 28 October 2018].
- Kiro, K., Ganjoo, p., Saigal, D. & Hansda, U., 2014. Incidental Thrombocytosis: Should It Concern the Anesthesiologist. *Journal of Anaesthesiology Clinical Pharmacology*, 30(2), pp.281-83.
- Koletzko, B., 2008. Basic Concepts in Nutrition : Nutritional Needs of Children and Adolescents. *e-SPEN, the European e-Journal of Clinical Nutrition and Metabolism*, 3, pp.e179-84.
- Kose, F. *et al.*, 2009. Little dose, Huge Toxicity : Profound Hematological Toxicity of Intrathecal Methotrexate. *Leukemia & Lymphoma*, 50(2), pp.282-83.

- Koury, M.J. & Ponka, P., 2004. New Insights Into Erythropoiesis : The Roles of Folate, Vitamin B12. and Iron. *Annual Review of Nutrition.*, 24, pp.105-31.
- Kuo, H.K. *et al.*, 2005. The Role of Homocysteine in Multisystem Age-Related Problems : A Systematic Review. *Journal of Gerontology Medical Sciences*, 60A(9), pp.1190-201.
- LaCasce, A.S. *et al.*, 2018. *Therapeutic Use and Toxicity of High-Dose Methotrexate*. [Online] UpToDate, Inc. Available at: <https://www.uptodate.com/contents/therapeutic-use-and-toxicity-of-high-dose-methotrexate> [Accessed 7 November 2018].
- Lacy, C.F., Lora, L.A., Morton, P.G. & Leonard, L.L., 2014. *Drug Information Handbook, 23rd Edition*. New York: Lexi-Comp Inc & Alpha North American, American Pharmaceutical Association.
- Liew, S.C., 2016. Folic Acid and Diseases - Supplement It or Not ? *Revista da Associacao Medica Brasileira*, 62(1), pp.90-100.
- Lukito, J.B., 2007. High Dose Methotrexate in the Treatment of Children With Acute Lymphoblastic Leukemia. *Paediatrica Indonesiana*, 47(1), pp.1-6.
- Mahmood, L., 2014. The Metabolic Processes of Folic Acid and Vitamin B12 Deficiency. *Journal of Health Research and Reviews*, 1(1), pp.5-9.
- Malefora, A.S. & Harrington, D.J., 2018. Laboratory Assesment of Folate (Vitamin B9). *Journal of Clinical Pathology*, 71, pp.949-56.
- Moasser, M.M., 2014. Neoplasia. In *Pathophysiology of Disease, An Introduction to Clinical Medicine Seventh Edition*. New York: The McGraw-Hill Companies, Inc. pp.89-114.
- Moll, R. & Davis, B., 2017. Iron, Vitamin B12, and Folate. *Clinical Science Medicine, Elsevier*, 45(4), pp.198-203.

- Moulik, N.M., Kumar, A. & Agrawal, S., 2017. Folic Acid, One-Carbon Metabolism & Childhood Cancer. *Indian Journal of Medical Research*, 146, pp.163-74.
- Nizzamani, G.H., Nizamani, Z.A., Fahim, A. & Ujjan, I.U., 2016. Acute Lymphoblastic Leukemia; Chromosomal Abnormalities in Childhood Reporting At a Tertiary Care Hospital of Sindh. *The Professional Medical Journal*, 23(3), pp.312-16.
- Obeid, R., Holzgreve, W. & Pietrzik, K., 2013. Is 5-Methyltetrahydrofolate An Alternative to Folic Acid For The Prevention Of Neural Tube Defects. *Journal of Perinatal Medicine*, 41(5), pp.469-83.
- Opladen, T., Ramaekers, V.T., Heimann, G. & Blau, N., 2006. Analysis Of 5-Methyltetrahydrofolate In Serum Of Healthy Children. *Molecular Genetics and Metabolism*, 87, pp.61-65.
- Patel, K.R. & Malefora, A.S., 2016. The Adverse Effects of an Excessive Folic Acid Intake. *European Journal of Clinical Nutrition* , pp.1-5.
- Permono, B. & Ugrasena, I., 2006. Leukemia Akut. In *Buku Ajar Hematologi-Onkologi Anak*. Jakarta: Ikatan Dokter Anak Indonesia. pp.236-47.
- Permono, B., Ugrasena, I.D.G. & Andarsini, M.R., 2008. Leukemia Limfoblastik Akut. In *Pedoman Diagnosis dan Terapi Bag/SMF Ilmu Kesehatan Anak, Edisi III*. Surabaya: RSUD Dr. Soetomo Surabaya. pp.150-56.
- Pfeiffer, C.M. *et al.*, 2015. Folate Status and Concentrations of Serum Folate Forms in the US Population : National Health and Nutrition Examination Survey 2011-2. *British Journal of Nutrition*, 113, pp.1965-77.
- Pietrzik, K., Bailey, L. & Shane, B., 2010. Folic Acid and L-5-Methyltetrahydrofolate, Comparison of Clinical Pharmacokinetics and Pharmacodynamics. *Clinical Pharmacokinetic*, 49(8), pp.535-48.
- PubChem, 2018. *5-Methyltetrahydrofolate*, *PubChem Open Chemistry Database*. [Online] Available at:

<https://pubchem.ncbi.nlm.nih.gov/compound/439234> [Accessed 24 November 2018].

PubChem, 2018. *Leucovorin*, *PubChem Open Chemistry Database*. [Online] Available at: <https://pubchem.ncbi.nlm.nih.gov/compound/leucovorin> [Accessed 24 November 2018].

PubChem, 2018. *Methotrexate*, *PubChem Open Chemistry Database*. [Online] Available at: <https://pubchem.ncbi.nlm.nih.gov/compound/methotrexate> [Accessed 24 November 2018].

Rana, Z.A., Rabbani, M.W., Sheikh, M.A. & Khan, A.A., 2009. Outcome of Childhood Acute Lymphoblastic Leukaemia After Induction Therapy - 3 Years Experience at a Single Paediatric Oncology Centre. *Journal of Ayub Medical College Abbottabad*, 21(4), pp.150-53.

Refsum, H. *et al.*, 2004. Facts and Recommendations About Total Homocysteine Determinations : An Expert Opinion. *American Association for Clinical Chemistry*, 50(1), pp.3-32.

Sala, A., Pencharz, P. & Barr, R.D., 2004. Children, Cancer, and Nutrition- A Dynamic Triangle in Review. *American Cancer Society*, 100(4), pp.677-87.

Sauberlich, H.E., 2000. *Laboratory Test For The Assessment of Nutritional Status Second Edition*. USA: CRC Press LLC.

Schmiegelow, K., Nielsen, S.N., Frandsen, T.L. & Nersting, J., 2014. Mercaptopurine/Methotrexate Maintenance Therapy of Childhood Acute Lymphoblastic Leukemia : Clinical Facts and Fiction. *Journal of Pediatric Hematology Oncology*, 36, pp.503-17.

Shimasaki, N. *et al.*, 2006. Effects of Methylenetetrahydrofolate Reductase and Reduced Folate Carrier 1 Polymorphisms on High-Dose Methotrexate-Induced Toxicities in Children With Acute Lymphoblastic Leukemia or Lymphoma. *Journal of Pediatric Hematology Oncology*, 28, pp.64-68.

Smith, A.D., Kim, Y.I. & Refsum, H., 2008. Is Folic Acid Good for Everyone? *American Journal of Clinical Nutrition*, 87, pp.517-33.

- Stackelberg, A.V. *et al.*, 2008. High-dose Compared with Intermediate-dose Methotrexate in Children with A First Relapse of Acute Lymphoblastic Leukemia. *Blood, the American Society of Hematology*, 111(5).
- Steele, M. & Narendran, A., 2012. Mechanism of defective Erythropoiesis and Anemia in Pediatric Acute Lymphoblastic Leukemia (ALL). *Ann Hematol*, 91, pp.1513-18.
- Sugiyono, 2010. *Statistika untuk Penelitian*. Jakarta: Alfabeta. pp.115-25.
- Tavera, A.U. *et al.*, 2015. Hypersensitivity Reactions to racemic Calcium Folate (Leucovorin) During FOLFOX and FOLFIRI Chemotherapy Administration. *Journal of Allergy and Clinical Immunology*, 135(4), pp.1066-67.
- Tehuteru, E.S., 2011. Gambaran Tingkat Remisi pada leukemia Limfoblastik Akut Setelah Fase Induksi di Bangsal Kanker Anak RS Kanker "Dharmais". *Indonesian Journal of Cancer*, 5(4), pp.159-62.
- Terwilliger, T. & Abdul-Hay, M., 2017. Acute Lymphoblastic Leukemia : A Comprehensive Review And 2017 Update. *Blood Cancer Journal*, 7, pp.1-12.
- Thyss, A. *et al.*, 1989. Evidence for CSF Accumulation of 5-Methyltetrahydrofolate During Repeated Courses of Methotrexate Plus Folinic Acid Rescue. *British Journal of Cancer*, 59, pp.627-30.
- Treon, S.P. & Chabner, B.A., 1996. Concepts in Uses of High-Dose Methotrexate Therapy. *Clinical Chemistry*, 42(8(B)), pp.1332-29.
- Tubergen, D.G., Bleyer, A., Ritchey, A.K. & Friehling, E., 2016. The Leukemias. In *Nelson Textbook of Pediatrics, 20 Edition*. Philadelphia: Elsevier, Inc. pp.2437-43.
- Utomo, N.F., Yulistiani, Z.N. & Permono, B., 2017. Methotrexate Use Is Safe In Children With Acute Lymphoblastic Leukemia. *Folia Medica Indonesiana*, 53(2), pp.144-51.



- Wartenberg, D., Groves, F.D. & Adelman, A.S., 2008. Acute Lymphoblastic Leukemia : Epidemiology and Etiology. In *Hematologic Malignancies : Acute Leukemias*. New York: Springer Berlin Heidelberg. pp.77-93.
- Widiaskara, I.M., Permono, B., I.D.G, U. & ratwita, M., 2010. Luaran Pengobatan fase Induksi Pasien Leukemia Limfoblastik Akut pada Anak di Rumah Sakit Umum Dr.Soetomo Surabaya. *Sari Pediatri*, 12(2), pp.128-34.
- Wilmanns, W., Sauer, H. & Schalhorn, A., 1980. Biochemical Control of High-Dose Methotrexate/Leucovorin Rescue Therapy. In *Cancer Chemo- and Immunopharmacology*. New York: Springer-Verlag Berlin Heidelberg. p.42.
- Wolfrom, C. *et al.*, 1990. Pharmacokinetic Study of Methotrexate, Folinic Acid and Their Serum Metabolites in Children Treated with High-Dose Methotrexate and Leucovorin Rescue. *European Journal of Clinical Pharmacology*, 39, pp.377-383.
- Wynn, R.F., 2010. Acute Lymphoblastic Leukemia. In *Pediatric Hematology and Oncology : Scientific Principles and Clinical Practice*. USA: Blackwell Publishing Ltd. pp.77-94.
- Xie, L. *et al.*, 2018. More Severe Toxicity of Genetic Polymorphisms on MTHFR Activity in Osteosarcoma Patients Treated with High-Dose Methotrexate. *Oncotarget*, 9(14), pp.11465-76.
- Yasmeen, N. & Ashraf, S., 2009. Childhood Acute Lymphoblastic Leukaemia; Epidemiology and Clinicopathological Features. *Journal of the Pakistan Medical Association*, 59(3).
- Zhang, D. *et al.*, 2015. Elevated Homocysteine Level and Folate Deficiency Associated with Increased Overall Risk of Carcinogenesis: Meta-Analysis of 83 Case-Control Studies Involving 35,758 Individuals. *PLoS ONE*, 10(5) : e0123423.