

DAFTAR PUSTAKA

1. Mfinanga SG, et al. The magnitude and factors associated with delays in management of smear positive tuberculosis in Dar es Salaam, Tanzania. *BMC Health Serv Res.* 2008;8:158.
2. World Health Organization (WHO). *Global Tuberculosis Report 2018.* Geneva, Swiss: World Health Organization, 2018.
3. Scaff HS, Zumla A. *Tuberculosis : A Comprehensive Clinical Reference.* 2009;p.117-28.
4. Departemen Kesehatan Republik Indonesia. *Pedoman Nasional Penanggulangan Tuberkulosis. Edisi ke-8.* Jakarta, DirJen P2M dan PLP Departemen Kesehatan Republik Indonesia. 2002.
5. Farazi A, Moharamkhani A, Sofian M. Validity of Serum Adenosine Deaminase in Diagnosis of Tuberculosis. *Pan African Medical Journal.* 2013; 15: 133.
6. Saini V, Lokhande B, Jaswal S, Aggarwal D, Garg K, Kaur J. Role of Serum Adenosine Deaminase in Pulmonary Tuberculosis. *Indian Journal of Tuberculosis.* 2018; 65: 30-34.
7. Farnia P, Mohammadi F, Mirsaedi M, Zarifi AZ, TabatabeeJ, Bahadori M et al. Bacteriological follow-up of pulmonary tuberculosis treatment: a study with a simple colorimetric assay. *Microbes and Infection.* 2004; 6(11): 972-76.
8. Levinson W. *Review of Medical Microbiology and Immunology.* United States, The McGraw-Hill Companies, Inc. 2008. p.164.
9. Barua R, Hossain M. Adenosine Deaminase in Diagnosis of Tuberculosis : A Review. *AKMMC Journal.* 2014; 5(2):43-48.
10. Van Rie A, Page-Shipp L, Scott L, Sanne I, Stevens W. Xpert® MTB/RIF for point-of care diagnosis of TB in high-HIV burden, resource-limited countries: hype or hope?. *Expert Rev Mol Diagn.* 2010;10(7):937-946.
11. Rao KS, Kumar HA, Rudresh BM, Srinivas T, Bhat KH. A Comparative Study and Evaluation of Serum Adenosine Deaminase Activity in the Diagnosis of Pulmonary Tuberculosis. *Biomedical Research.* 2010; 21: 2.

12. Salmanzadeh S, Tavakkol H, Bavieh K, Alavi SM. Diagnostic Value of Serum Adenosine Deaminase (ADA) Level for Pulmonary Tuberculosis. *Jundishapur J Microbiol.* 2015 March; 8(3): e21760.
13. Kanchan S, Santosh V, Vishal S, Leela A, Niyogi N.G, Joshi A. Study of Adenosine Deaminase Levels in Patients of Pulmonary Tuberculosis with and without Pleural Effusion. *IOSR Journal of Dental and Medical Sciences* 2014;13: 30–37.
14. Departemen Kesehatan Republik Indonesia. Pedoman Nasional Penanggulangan Tuberkulosis. Jakarta, DirJen P2M dan PLP Departemen Kesehatan Republik Indonesia. 2007.
15. Perhimpunan Dokter Paru Indonesia. Tuberkulosis, Pedoman Diagnosis dan Penatalaksanaan di Indonesia. 2006.
16. Kumar V, Abbas A. K, Fausto N, Mitchell R.N. *Robbins Basic Pathology.* 8th ed. Saunders Elsevier; 2007.
17. Amin Z, Bahar S. Tuberkulosis Paru. Dalam: Sudoyo AW, Setiyohadi B, Alwi I, Simadibrata KM, Setiati S. *Buku Ajar Ilmu Penyakit Dalam.* Jilid II, Edisi IV. Jakarta 2006: 998-1005, 1045-9.
18. Garay SM. Pulmonary tuberculosis. In: *Tuberculosis,* (WN Rom SMG ed), edisi-2 Philadelphia: Lippincott Williams & Wilkins, 2004, 345–94.
19. Raja A. Immunology of tuberculosis. *Indian J Med Res,* 2004, 120: 213–232.
20. Dannenberg AM, Converse PJ. *Patophysiology and Immunology.* Schlossberg D : *Tuberculosis and Nontuberculous Mycobacterial Infections.* 6th Edition. Washington : ASM Press. 2011. p.27-42.
21. McAdam AJ, Sharpe AH. *Infectious Diseases.* Kumar V, Fausto N, Abbas A : *Robbins and Cotran's Pathologic Basis of Disease.* 7th Edition. USA : Elsevier. 2009.
22. Lyadova I. *Inflammation and Immunopathogenesis of Tuberculosis Progression, Understanding Tuberculosis - Analyzing the Origin of Mycobacterium Tuberculosis Pathogenicity.* InTech; 2012.

23. Flynn JL, John C. Immunology of Tuberculosis. *Am J Respir Cell Mol Biol*. 2005; 32: 251-256.
24. Karakousis, P., Bishai, W. R., & Dorman, S. E. Mycobacterium tuberculosis cell envelope lipids and the host immune response. *Cellular Microbiology*, 2004; 6(2); 105-116.
25. Hernandez-Pando R, Castanon M, Espitia C et al. Recombinant BCG vaccine candidates. *Curr Mol Med* 2007;7:365–72.
26. Fauci, A. S., Alston, B., Barry, C. E., Augustine, A. D., Fenton, M. J., Handley, F. G., et al. Multidrug-resistant and extensively drug-resistant tuberculosis: the National Institute of Allergy and Infectious Diseases Research agenda and recommendations for priority research. *J Infect Dis* , 2008: 197; 1493–1498.
27. Schwander S, Dheda K. Human lung immunity against mycobacterium tuberculosis: insights into pathogenesis and protection. *Am J Respir Crit Care Med* 2011;183:696–707.
28. Rook, G. A., Dheda, K., and Zumla, A. Immune responses to tuberculosis in developing countries: implications for new vaccines. *Nat. Rev. Immunol.* 2005: 5; 661–667.
29. Emoto, M., Emoto, Y., Buchwalow, I.B., and Kaufmann, S.H. Induction of IFN-gamma-producing CD4+ natural killer T cells by Mycobacterium bovis bacillus Calmette Guerin. *Eur J Immunol.* 1999. 29: 650–659.
30. Van Crevel R, Ottenhoff THM, Van Der Meer JWM. Innate immunity to *Mycobacterium tuberculosis*. *Clin Microbiol Rev.* 2002. 15: 294–309.
31. Smith I. *Mycobacterium tuberculosis* pathogenesis and molecular determinants of virulence. *Clin Microbiol Rev.* 2003. 16: 463–496.
32. Schwander S, Ellner J. Human response to M.Tuberculosis. In: Davies PDO, Barnes PP, Gordon SB, editors. *Clinical tuberculosis*. London: Hodder Education; 2008.
33. Kaufmann SH, Hussey G, Lambert PH. New vaccines for tuberculosis. *Lancet.* 2010;375(9731):2110-2119.

34. Kementerian Kesehatan Republik Indonesia. Peraturan Menteri Kesehatan Republik Indonesia No. 67 tentang Penanggulangan Tuberkulosis. 2016.
35. Perhimpunan Dokter Paru Indonesia. Pedoman Diagnosis & Penatalaksanaan di Indonesia. Tuberkulosis.PDPI; 2011. Hal.1- 64.
36. European Centre for Disease Prevention and Control. Use of Interferon Gamma Release Assays in Support of TB diagnosis. Stockholm: ECDC.2011.
37. Ribeiro-Rodrigues R, Resende Co T, Johnson JL, Ribeiro F, Palaci M, Sa RT, et al. Sputum cytokine levels in patients with pulmonary tuberculosis as early markers of mycobacterial clearance. *Clin Diagn Lab Immunol*. 2002;9(4):818-23.
38. Peresi E, Silva SM, Calvi SA, Marcondes-Machado J. Cytokines and acute phase serum proteins as markers of inflammatory regression during the treatment of pulmonary tuberculosis. *J Bras Pneumol*. 2008;34(11):942-9.
39. Kataria Y.P, Khursid I, Greenville. Adenosine Deaminase in the Diagnosis of Tuberculous Pleural Effusion. *CHEST* 2001; 120(2): 334-336.
40. Perez-Rodriguez E, Castro DJ. The use of ADA and ADA isoenzymes in the diagnosis of tuberculosis pleuritic. *Curr.Opin.Pulm Dis*. 2000;6:259-66.
41. Haque S.S. Evaluation of Adenosine Deaminase (ADA) in Tuberculous pleurisy. *American Journal of Medicine and Medical Sciences* 2012, 2(1): 1-4.
42. Meftun Unsal, Ayse Berna Dursun, Berna Ozturk, Nurhan Sariodlu, Mihriban Odretensoy, Turkan Eryilmaz. The role of serum adenosine deaminase levels in determination of disease activity of patients with pulmonary tuberculosis. *Turk J Med Res* 1995; 13 (6):181-184.
43. Boonyagars L, Liertiburanakul S. Use of adenosine deaminase for the diagnosis: a review. *Jl of Infect Dis Antimicrob Agents*. 2010; 27:111-118.
44. Guisti G. Adenosine deaminase. In: Bergmeyer HU, ed. *Methods of Enzymatic Analysis*. 2nd ed. New York: Academic Press.

45. Atlas F, Uslu S, Moral H, Aiatas O, Metinatas M, Erginel S, Uegun I. Serum Adenosine deaminase activity in pulmonary tuberculosis. *Tuberk toraks* 2003; 51(3); 277-281.
46. Alrokayan S. Adenosine Deaminase : An Aid to Diagnose Tuberculosis. *J Med sci.* 2003, 3(1):30-45.
47. Santoso, Kabat. Karya akhir: Nilai Diagnostik Aktivitas Adenosine Deaminase (ADA) Pada Sputum Penderita Tuberculosis Paru. SMF Ilmu penyakit paru FK Unair/ RSUD dr. Soetomo. 2005. Surabaya.
48. Tuon FF, Silva VI, Almeida GMD, Antonangelo L, Ho YL. The Usefulness of Adenosine Deaminase in the Diagnosis of Tuberculosis Pericarditis. *Rev Inst Med trop S. Paulo*, 2007, 49(3): 165-170.
49. Valdes L, San Jose E, Alvares D, Valle J.M. Adenosine Deaminase (ADA) Isoenzyme Analysis in Pleural Effusion: Diagnostic Role and Relevance to The Origin of Increased ADA in Tuberculous Pleurisy. *Eur Respir J.* 1996;9:747-751.
50. Raju Pandey, Dipesh Tamrakar, Suresh Jaiswal, Anup Sharma, Sujan Koju, Surya Ram Duwal, Ishor Sharma, Rajesh P. Jayaswal , Pranay P. Pankaj. Serum Adenosine Deaminase: A Novel Biomarker Tool for the Diagnosis of Tuberculosis. *Biosciences Biotechnology Research Asia.* 2016; 13(1), 551-556.
51. Balasaniants GS, Titarenko OT, D'iakova MN. Diagnostic and prognostic significance of adenosine deaminase in acutely progressive pulmonary tuberculosis. *Probl Tuberk.* 2001;(8):46-49.
52. Khalid Hassanein, Hossam Hosny, Randa Mohamed, Wagdy Abd El-Moneim, Role of adenosine deaminase (ADA) in the diagnosis of pulmonary tuberculosis *Egyptian Journal Of Bronchology* 2010; 4.
53. Zafer Kartaloglu, Oguzhan Okutan, Erkan Bozkanat, M. Harun Ugan, Ahmet Ilvan. The Course Of Serum Adenosine Deaminase Levels In Patients With Pulmonary Tuberculosis. *Med Sci Monit* , 2006; 12(11): CR 476- 480.
54. Tuon FF, Silva VI, Almeida GMD, et al. The Usefulness of Adenosine Deaminase in The Diagnosis of Tuberculous Pericarditis. *Rev Inst Med Trop S Paulo.* 2007, 49(3):p.165-170.

55. Burges IG, Martiz FG. Combined Use of Pleural Adenosine Deaminase with Lymphocyte / Neutrophil Ratio, Increased Specificity for The Diagnosis of Tuberculosis. Li W, Deng G, Li M, et al. Roles of Mucosal Immunity Against Mycobacterium Tuberculosis Infection. *Tuberculosis Research and Treatment*. 2012;791728.
56. Weiss, M.G., et al., Cultural epidemiology of TB with reference to gender in Bangladesh, India and Malawi. *Int J Tuberc Lung Dis*, 2008. 12(7): p. 837-47.
57. Corona, M E J.; Garcia, L G.; DeRiemer, K.; Reyes, L. F; Del-Valle, M. B, Arellano BC. et al. Gender differentials of pulmonary tuberculosis transmission and reactivation in an endemic area. *Thorax*. 2006;61:348–353.
58. Horton KC, Macpherson P, Houben RMGJ, White G, Corbett EL. Sex Differences in Tuberculosis Burden and Notifications in Low- and Middle-Income Countries : A Systematic Review and Meta- analysis. 2016;21:1–23. doi:10.1371/journal.pmed.1002119.
59. Maqfirah. Faktor Risiko Kejadian Tb Paru Di Wilayah Kerja Puskesmas Liukang Tupabbiring Kabupaten Pangkep Tahun 2017. 2018.
60. Wina AP, Sri MM, Erwin C. Gambaran Status Gizi Pada Pasien Tuberkulosis Paru (Tb Paru) Yang Menjalani Rawat Inap Di Rsud Arifin Achmad Pekanbaru. *JOM FK*. Oktober 2016: Volume 3; 2.
61. Varma S dan Toppo A. Estimation Of Serum Adenosine Deaminase Level In Patients Of Pulmonary Tuberculosis In A Tertiary Care Hospital In Chhattisgarh. *International Journal of Research in Health Sciences*. Oct-Dec 2015 Volume-3; Issue-4: 451-456.
62. Giblett ER, Anderson JE, Cohen F, Pollara B, Meuwissen HJ et al. ADA Deficiency In Two Patients With Severely Impaired Cellular Immunity. *Lancet*. 1972 Nov 18;2(7786):1067-1069.
63. Lende TG, Waghmare P, Ambilkar AW, Kumar S. Predictive Value Of Serum Adenosine Deaminase Levels In Prospect Of Tubercular Infections. *Biomed Biotechnol Res J*. 2019;3:105-8.
64. Afrasiabian S, Mohsenpour B, Bagheri KH, Sigari N, Aftabi K. Diagnostic value of serum adenosine deaminase level in pulmonary tuberculosis. *Journal of Research in Medical Sciences*. 2013 Mar; 18(3): 252-254.

65. Soedarsono, Kana WAIP, Mayfanny T, Jusak N. Changes of Serum Adenosine Deaminase Level in New Cases of Pulmonary Tuberculosis Before and After Intensive Phase Treatment. *Lung India*. March-April 2020; Volume 37 (2).
66. Tarhan G, Gumuslu F, Yilmaz N, Saka D, Ceyhan I, Cesur S. Serum adenosine deaminase enzyme and plasma platelet factor 4 activities in active pulmonary tuberculosis, HIV-seropositive subjects and cancer patients. *J Infect*. 2006;52(4):264–8.
67. Fatmah. Respons Imunitas yang Rendah pada Tubuh Manusia Usia Lanjut. *Makara, Kesehatan*, Vol. 10, No. 1, Juni 2006: 47-53.
68. Argawal. Comparative Study of Adenosine Deaminase Activity to Biochemical Parameter, Nutritional Status and BMI during Tuberculosis Infection. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*. Volume 7, Issue 6 (May.- Jun. 2013), PP 12-16.
69. Elassal GI, Osman NM, Darwish HEH. Correlation between serum adenosine deaminase and cancer antigen 125 in assessment of severity of active pulmonary tuberculosis. *Egypt J Chest Dis Tuberc* 2018;67:312-7.