

## DAFTAR PUSTAKA

1. Lauria AM, Zabbo CP. Pertussis. In: StatPearls [Internet]. Cited 2022 Jan 7. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK519008>.
2. Licona D, Delgado-Jesus. Mortality in pertussis Mexico 2022. *Bol Clin Hosp Infant Edo Son*. 2018;35:1–10.
3. Marshall KS, Quinn HE, Pillsbury AJ, Maguire JE, Lucas RM, Dey A, et al. Australian vaccine preventable disease epidemiological review series: Pertussis, 2013-2018. *Commun Dis Intell* (2018). 2022;46.
4. Tjahjowargo S, Gunardi H. Laporan kasus berbasis bukti perbandingan efektivitas dan keamanan vaksin pertussis aselular dan *whole-cell*. *Sari Pediatri*. 2017;18(5):403-8
5. Alghounaim M, Alsaffar Z, Alfraj A, Bin-Hasan S, Hussain E. Whole-cell and acellular pertussis vaccine: reflections on efficacy. *Medical Principles and Practice*. 2022;31:313–21.
6. Deasiyanti R. Seroproteksi antibodi anti-pertussis pada anak usia 6-7 tahun dengan riwayat vaksinasi DTP dasar lengkap dan ulangan di sekolah dasar di Jakarta. *Sari Pediatri*. 2011;13(1)26-32
7. Bart MJ, Harris SR, Advani A, Arakawa Y, Bottero D, Bouchez V, et al. Global Population Structure and Evolution of *Bordetella Pertussis* and Their Relationship with Vaccination. *mBio*. 2014;5(2)
8. Schmitt HJ, von König CH, Neiss A, Bogaerts H, Bock HL, Schulte-Wissermann H, Gahr M, Schult R, Folkens JU, Rauh W, Clemens R. Efficacy of Acellular Pertussis Vaccine in Early Childhood After Household Exposure. *JAMA*. 1996 Jan 3;275(1):37-41
9. Paradowska-Stankiewicz I, Rumik A, Bogusz J, Zbrzeźniak J, Rastawicki W, Śmietańska K, et al. Duration of protection against *Bordetella pertussis* infection elicited by whole-cell and acellular vaccine priming in Polish children and adolescents. *Vaccine*. 2021;39:6067–73.
10. Nataprawira HM, Phangkawira E. A retrospective study of acute pertussis in Hasan Sadikin Hospital–Indonesia. *Journal of Acute Disease*. 2015;4:147–51.
11. Fraj I ben, Zghal M, Hsairi M, Kechrid A, Smaoui H. Epidemiology and infection seroprevalence of *Bordetella pertussis* toxin antibodies in children and adolescents in Tunis, Tunisia. *Epidemiol infect*. 2019;147:199
12. Bertilone C, Wallace T, Selvey L. Finding the ‘who’ in whooping cough: vaccinated siblings are important pertussis sources in infants 6 months of age and under. *CDI*. 2014;38:1–12.
13. Gao H, Lau EHY, Cowling BJ. Waning immunity after receipt of pertussis, diphtheria, tetanus, and polio-related vaccines: a systematic review and meta-analysis. *Journal of Infectious Diseases*. Oxford University Press; 2022;225:557–66.
14. Sunarno S, Sofiah SN, Amalia N, Hartoyo Y, Rizki A, Puspandari N, et al. Laboratory and epidemiology data of pertussis cases and close contacts: A 5-year case-based surveillance of pertussis in Indonesia, 2016–2020. *PLoS One*. 2022;17:0266033.

15. Marshall KS, Quinn HE, Pillsbury AJ, Maguire JE, Lucas RM, Dey A, et al. Australian vaccine preventable disease epidemiological review series: Pertussis, 2013-2018. *Commun Dis Intell* (2018). 2022;46.
16. McHugh L, Viney KA, Andrews RM. Pertussis epidemiology prior to the introduction of a maternal vaccination program, Queensland Australia. *Epidemiol Infect*. 2018;146(2):207-217
17. Yeshanew AG, Lankir D, Wondimu J, Solomon S. Pertussis outbreak investigation in Northwest Ethiopia: A community based study. *PLoS One*. 2022;17.
18. Jayasundara D, Randall D, Sheridan S, Sheppard V, Liu B, Richmond PC, et al. Estimating the excess burden of pertussis disease in Australia within the first year of life, that might have been prevented through timely vaccination. *International Journal of Epidemiology*. 2023;52(1):250-9
19. Nataprawira H, Phangkawira E. A retrospective study of acute pertussis in Hasan Sadikin Hospital-Indonesia. *Journal of Acute Disease*. 2015;147-51.
20. Loch C, Antoine R. The history of pertussis toxin. *Toxins*. MDPI. 2021;13(9):623
21. World Health Organization. Pertussis update 2017. In *WHO Immunological Basis for Immunization Series*;2017.1-60
22. Hadiani D, Mulyati E, Mulati E. Buku ajar imunisasi. 2014. 80-115.
23. Macina D, Evans KE. Bordetella pertussis in school-age children, adolescents, and adults: a systematic review of epidemiology, burden, and mortality in Africa. *Infectious Diseases and Therapy*. Adis. 2021;10:1097-113.
24. Alghounaim M, Alsaffar Z, Alfraj A, Bin-Hasan S, Hussain E. Whole cell and acellular pertussis vaccine: reflections on efficacy. *medical principles and practice*. *International Journal of the Kuwait University, Health Science Centre*. NLM (Medline). 2022;31:313-21.
25. Podda A, Carapella De Luca E, Contu B, Furlan R, Maida A, Moiraghi A, et al. Comparative study of a whole-cell pertussis vaccine and a recombinant acellular pertussis vaccine. *The Journal of Pediatrics*. 1994;124:921-6
26. Schwartz KL, Kwong JC, Deeks SL, Campitelli MA, Jamieson FB, Marchand-Austin A, et al. Effectiveness of pertussis vaccination and duration of immunity. *CMAJ*. 2016;188:399-406.
27. Tessier E, Campbell H, Ribeiro S, Rai Y, Burton S, Roy P, et al. Impact of the COVID-19 pandemic on Bordetella pertussis infections in England. *BMC Public Health*. 2022;22.
28. Setiawan MS, Wijayanto AW. Determinants of immunization status of children under two years old in Sumatera, Indonesia: A multilevel analysis of the 2020 Indonesia national socio-economic survey. *Vaccine*. 2022;40:1821-8.
29. Efendi F, Pradiptasiwi DR, Krisnana I, Kusumaningrum T, Kurniati A, Sampurna MTA, et al. Factors associated with complete immunizations coverage among Indonesian children aged 12-23 months. *Child Youth Serv Rev*. 2020;108.
30. Sjafrri Bachtar N, Masria S, Abdullah Husin U. Titer IgG pertusis pada usia remaja, dewasa, dan orang tua mempergunakan metode ELISA dan mikroaglutinasi pertusis. *Biofarma press*. 2011;4:1-8
31. Wilkinson K, Righolt CH, Elliott LJ, Fanella S, Mahmud SM. Pertussis vaccine effectiveness and duration of protection – A systematic review and meta-analysis. *Vaccine*. Elsevier Ltd; 2021;39:3120-30.
32. Pulendran B, Ahmed R. Immunological mechanisms of vaccination. *Nat Immunol*. 2011;12:509-17

33. Clem AS. Fundamentals of vaccine immunology. In: Journal of Global Infectious Diseases. 2011;73–8.
34. Pollard AJ, Bijker EM. A guide to vaccinology: from basic principles to new developments. Nature Reviews Immunology. Nature Research. 2021;21:83–100.
35. Gabutti G, Cetin I, Conversano M, Costantino C, Durando P, Giuffrida S. Experts' opinion for improving pertussis vaccination rates in adolescents and adults: a call to action. international journal of environmental research and public health. MDPI. 2022;19
36. Zerbo O, Fireman B, Klein NP. Lessons from a mature acellular pertussis vaccination program and strategies to overcome suboptimal vaccine effectiveness. Expert Review of Vaccines. 2022;21:899–907.
37. Gregg KA, Merkel TJ. Pertussis toxin: a key component in pertussis vaccines? Toxins. MDPI. 2019;11
38. Havers P F, Moro L P, Hariri S, Skoff T. Pertussis. CDC. 2018.
39. Nicholson L, Adkins E, Karyanti MR, Ong-Lim A, Shenoy B, Huoi C, et al. What is the true burden of diphtheria, tetanus, pertussis and poliovirus in children aged 3–18 years in Asia? A systematic literature review. International Journal of Infectious Diseases. Elsevier B.V. 2022;117:116–29.
40. Abu-Raya B, Esser MJ, Nakabembe E, Reiné J, Amaral K, Diks AM, et al. Antibody and B-cell immune responses against *Bordetella pertussis* following infection and immunization. J Mol Biol. 2023;435:168–74.
41. Klimova N, Holubova J, Streparola G, Tomala J, Brazdilova L, Stanek O, et al. Pertussis toxin suppresses dendritic cell-mediated delivery of B. pertussis into lung-draining lymph nodes. PLoS Pathog. 2022;18.
42. Versteegen P, Bonačić Marinović AA, van Gageldonk PGM, van der Lee S, Hendriks LH, Sanders EAM, et al. Long-term immunogenicity upon pertussis booster vaccination in young adults and children in relation to priming vaccinations in infancy. Vaccines. Basel. 2022;10.
43. Silva RP, DiVenere AM, Amengor D, Maynard JA. Antibodies binding diverse pertactin epitopes protect mice from *Bordetella pertussis* infection. Journal of Biological Chemistry. 2022;298.
44. Kroes MM, Miranda-Bedate A, Jacobi RHJ, van Woudenberg E, den Hartog G, van Putten JPM, et al. *Bordetella pertussis*-infected innate immune cells drive the anti-pertussis response of human airway epithelium. Sci Rep. 2022;12.
45. Klein NP, Bartlett J, Rowhani-Rahbar A, Fireman B, Baxter R. Waning Protection after Fifth Dose of Acellular Pertussis Vaccine in Children Abstract. N Engl J Med. 2012;367:1012–21.
46. Gao H, Lau EHY, Cowling BJ. Waning Immunity after Receipt of Pertussis, Diphtheria, Tetanus, and Polio-Related Vaccines: A Systematic Review and Meta-analysis. Journal of Infectious Diseases. Oxford University Press. 2022;225:557–66.
47. Tripathy SK, Das S, Malik A. Vaccine and malnutrition: A narrative review. J Family Med Prim Care. 2023;12:1808–13.
48. Forshaw J, Gerver SM, Gill M, Cooper E, Manikam L, Ward H. The global effect of maternal education on complete childhood vaccination: A systematic review and meta-analysis. BMC Infect Dis. 2017;17:1–16.
49. Siramaneerat I, Agushyvana F. Inequalities in immunization coverage in Indonesia: a multilevel analysis. Rural Remote Health. 2021;21:6348.

50. Gonzales A, Choque D, Marcos-Carbajal P, Salvatierra G. Factors associated with diphtheria vaccination completion among children under five years old in Peru 2010–2019: A cross-sectional population-based study. *Heliyon*. 2022;8.
51. Permata Sari M, Zatil Izzah A, Perdana Harmen A. Gambaran Kejadian Ikutan Pasca Imunisasi pada Anak yang Mendapatkan Imunisasi Difteri Pertusis dan Tetanus di Puskesmas Seberang Padang Kota Padang. *Jurnal Kesehatan Andalas*. 2018;17:11-4
52. Izadi S, Mohammadi M, Sartipi M, Karami M, Karimi H. Acute adverse events following immunization with dtp-hb-*hib* pentavalent vaccine in the first year of life. *Eastern Mediterranean Health Journal*. 2023;29:6–14.
53. Storsaeter J, Hallander H O, Gustafsson L, Olin L- P. Levels of anti-pertussis antibodies related to protection after household exposure to *Bordetella pertussis*. *Vaccine*. 1998;16:13-7
54. Handayani S. Profil kekebalan terhadap difteri, pertusis dan tetanus pada anak umur di bawah lima tahun, hasil Riskesdas 2013. *Buletin Penelitian Kesehatan*. 2019;47:183–90.
55. Diks AM, Versteegen P, Teodosio C, Groenland RJ, de Mooij B, Buisman AM, et al. Age and primary vaccination background influence the plasma cell response to pertussis booster vaccination. *Vaccines (Basel)*. 2022;10.
56. Seppälä E, Bråthen Kristoffersen A, Bøås H, Frimann Vestrheim D, Greve-Isdahl M, Freiesleben De Blasio B, et al. Pertussis epidemiology including direct and indirect effects of the childhood pertussis booster vaccinations, Norway, 1998–2019. *Vaccine*. 2022;40:3142–9.
57. Barkoff AM, Knuutila A, Mertsola J, He Q. Evaluation of anti-PT antibody response after pertussis vaccination and infection: The importance of both quantity and quality. *Toxins*. MDPI AG; 2021;17:108-17

