

DAFTAR PUSTAKA

1. Hennino A, Bérard F, Guillot I, Saad N, Rozières A, Nicolas JF. Pathophysiology of urticaria. *Clin Rev Allergy Immunol*. 2006;30:3–12.
2. Zuberbier T, Abdul Latiff AH, Abuzakouk M, Aquilina S, Asero R, Baker D, et al. The international EAACI/GA2LEN/EuroGuiDerm/APAAACI guideline for the definition, classification, diagnosis, and management of urticaria. *Allergy*. 2022;77(3):734–66.
3. Church MK, Kolkhir P, Metz M, Maurer M. The role and relevance of mast cells in urticaria. *Immunol Rev*. 2018;282(1):232–47.
4. Wolf K, Johnson RA, Saavedra AP. Color atlas and synopsis of clinical dermatology. 7th ed. New York: McGraw-Hill; 2008. p. 306–14.
5. Marks JG, Miller JJ. Lookingbill and marks' principles of dermatology. 6th ed. Elsevier; 2018. p. 229–32.
6. Schaefer P. Acute and chronic urticaria: evaluation and treatment. *J Allergy Clin Immunol*. 2017;95(11):717–24.
7. Sackesen C, Sekerel E, Kocabas N, Adalioglu G. The etiology of different forms of urticaria in childhood. *Pediatr Dermatol*. 2004;21(2):102–8.
8. Tawil S, Irani C, Kfoury R, Abramian S, Salameh P, Weller K, et al. Association of chronic urticaria with psychological distress: a multicentre cross-sectional study. *Acta Derm Venereol*. 2023;103:1–8.
9. Bitan DT, Berzin D, Cohen A. The association of chronic spontaneous urticaria (CSU) with anxiety and depression: a nationwide cohort study. *Arch Dermatol Res*. 2021;313(1):33–9.
10. Fricke J, Ávila G, Keller T, Weller K, Lau S, Maurer M, et al. Prevalence of chronic urticaria in children and adults across the globe: systematic review with meta-analysis. *Allergy*. 2020;75(2):423–32.
11. Pu Y, He L, Wang X, Zhang Y, Zhao S, Fan J. Global, regional, and national levels and trends in burden of urticaria: a systematic analysis for the global burden of disease study 2019. *J Glob Health*. 2024;14:1–12.
12. Denissafitri A, Umborowati MA, Ervianti E, Murtiastutik D, Hidayati AN, Rahmadewi R, et al. Risk factors of acute and chronic urticaria in dermatology and venereology outpatient clinic Dr. Soetomo General Academic Teaching Hospital, Surabaya, Indonesia. *Int J Health Sci Qassim*. 2022;6:314–9.
13. Gustia R, Yenny SW, Octari S. Karakteristik penyakit kulit pada anak di poliklinik kulit dan kelamin RSUP. Dr. M. Djamil Padang periode 2016-201. *Jurnal Kedokteran Syiah Kuala*. 2020;20(3):143–6.
14. Putra MAN, Witarini KA, Mayangsari ASM, Pratiwi IGAP. Karakteristik urtikaria pada anak di RSUP Prof. Dr. I.G.N.G Ngoerah. *Intisari Sains Medis*. 2024;15(3):1206–11.

15. Pengurus Besar Ikatan Dokter Indonesia. Panduan Praktik Klinis Bagi Dokter di Fasilitas Pelayanan Kesehatan Primer. Jakarta; 2013.
16. Pier J, Bingemann TA. Urticaria, angioedema, and anaphylaxis practice gaps [Internet]. Available from: <http://pedsinreview.aappublications.org/>
17. Lee SJ, Ha EK, Jee HM, Lee KS, Lee SW, Kim MA, et al. Prevalence and risk factors of urticaria with a focus on chronic urticaria in children. *Allergy Asthma Immunol Res.* 2017;9(3):212–9.
18. Kudryavtseva AV, Neskorodova KA, Staubach P. Urticaria in children and adolescents: an updated review of the pathogenesis and management. *Pediatr Allergy Immunol.* 2019;30(1):17–24.
19. Gustina RE, Anni P. Pemeriksaan tungau debu rumah (TDR) pada debu kasur di Pondok Pesantren Attamadun Kota Batam. *JURPIKAT.* 2021;2(3):372–84.
20. Huang HJ, Sarzsinszky E, Vrtala S. House dust mite allergy: the importance of house dust mite allergens for diagnosis and immunotherapy. *Mol Immunol.* 2023;158:54–67.
21. Demoly P, Matucci A, Rossi O, Vidal C. The disease burden in patients with respiratory allergies induced by house dust mites: a year-long observational survey in three European countries. *Clin Transl Allergy.* 2020;10(1):1–12.
22. Widiastawan KAW, Wahongan GJP, Bernadus JBB. Jenis dan kepadatan tungau debu rumah di Kelurahan Malalayang dua Kecamatan Malalayang Kota Manado. *J e-Biomedik.* 2015;3(3):733–7.
23. Mirnawati Dewi, Defilia Anogra Riani. Keberadaan tungau debu rumah (TDR) di permukiman manusia. *J Rumpun Ilmu Kesehatan.* 2024;4(2):13–7.
24. Liang G, Zhou J, Jiang L, Wang W, Wu Q, Gao C, et al. Higher house dust mite-specific IgE levels among chronic spontaneous urticaria patients may implicate higher basophil reactivity. *Int Arch Allergy Immunol.* 2023;184(11):1126–34.
25. Natalia D. Peranan alergen tungau debu rumah (der p 1 dan der p 2) dalam reaksi alergi. 2015;42(4):251–5.
26. Lote S, Gupta SB, Poulouse D, Deora MS, Mahajan A, Gogineni JM, et al. Role of the skin prick test in urticaria patients. *Cureus.* 2022;14(2):1–7.
27. Zhou Y, Sheng M, Chen M. Detection and allergen analysis of serum IgE in pediatric patients with chronic urticaria. *Pak J Med Sci.* 2018;34(2):385–9.
28. Ahanchian H, Davari M, Behmanesh F, Fadaee J. Skin test reactivity to common foods and aeroallergens in Iranian children with acute urticaria. *Iran J Pediatr.* 2019;29(1):1–8.
29. Sánchez-Borges M, Acevedo N, Caraballo L, Capriles-Hulett A, Caballero-Fonseca F. Increased total and mite-specific immunoglobulin E in patients

with aspirin-induced urticaria and angioedema. *J Investig Allergol Clin Immunol*. 2010;20(2):139–45.

30. Amalia AN. Hubungan tingkat kebersihan diri dan faktor predisposisi pada anak di Panti Asuhan Al-Amal Surabaya. *MTPH J*. 2021;5(1):19–27.
31. Putriningtyas AF, Ubaidillah M. Sosialisasi kesehatan dan kebersihan lingkungan pada Panti Asuhan Kasih Sayang Bengkulu. *Jurnal Pengabdian Kolaborasi dan Inovasi IPTEKS*. 2023;1(6):1013–8.
32. Badan Pusat Statistik Kota Padang. Kecamatan Pauh Dalam Angka. 2016.
33. Weather Spark. Iklim dan Cuaca Rata-Rata Sepanjang Tahun di Pauh [Internet]. 2016 [cited 2025 May 3]. Available from: <https://id.weatherspark.com/y/114146/Cuaca-Rata-rata-pada-bulan-in-Pauh-Indonesia-Sepanjang-Tahun>
34. Hunter J, Savin J, Dahl M. *Clinical Dermatology*. 3rd ed. 2004;50.
35. Weller K, Maurer M, Bauer A, Wedi B, Wagner N, Schliemann S, et al. Epidemiology, comorbidities, and healthcare utilization of patients with chronic urticaria in Germany. *J Eur Acad Dermatol Venereol*. 2022;36(1):91–9.
36. Peck G, Hashim MJ, Shaughnessy C, Muddasani S, Elsayed NA, Fleischer AB. Global epidemiology of urticaria: increasing burden among children, females and low-income regions. *Acta Derm Venereol*. 2021;101(4).
37. Techasatian L, Phungoen P, Chaifarit J, Uppala R. Etiological and predictive factors of pediatric urticaria in an emergency context. *BMC Pediatr*. 2021;21(1).
38. Sánchez-Borges M, Ansotegui IJ, Baiardini I, Bernstein J, Canonica GW, Ebisawa M, et al. The challenges of chronic urticaria part 1: epidemiology, immunopathogenesis, comorbidities, quality of life, and management. *World Allergy Organ J*. 2021;14.
39. Debora V, Zuraida R. *Penatalaksanaan Holistik pada Remaja Laki-Laki dengan Urtikaria Kronik Tanpa Angioedema et Causa Rangsangan Fisik*. Lampung; 2020 Jan.
40. Nurul Qomariah B, Hartati, The F. Profil penderita urtikaria akut di Poliklinik Penyakit Kulit dan Kelamin RSUD Dr.H.Chasan Boesoirie Ternate. 2024;3904–10.
41. Atmaja GMP, Suryawati N, Rusyati LMM. Karakteristik profil pasien urtikaria akut di poliklinik kulit dan kelamin Rumah Sakit Umum Pusat (RSUP) Sanglah periode Oktober 2017-2018. *Intisari Sains Medis*. 2019;10(3):1–7.
42. Altrichter S, Frischbutter S, Fok JS, Kolkhir P, Jiao Q, Skov PS, et al. The role of eosinophils in chronic spontaneous urticaria. *J Allergy Clin Immunol*. 2020;145(6):1510–6.

43. Giménez-Arnau AM, DeMontojoye L, Asero R, Cugno M, Kulthanan K, Yanase Y, et al. The pathogenesis of chronic spontaneous urticaria: the role of infiltrating cells. *J Allergy Clin Immunol Pract*. 2021;9(6):2195–208.
44. Mann C, Dreher M, Weess HG, Staubach P. Sleep disturbance in patients with urticaria and atopic dermatitis: an underestimated burden. *Acta Derm Venereol*. 2020;100(6):1–6.
45. Siannoto M. Diagnosis dan tatalaksana urtikaria. *Jurnal Medisia*. 2017;44:190–4.
46. Lee SJ, Ha EK, Jee HM, Lee KS, Lee SW, Kim MA, et al. Prevalence and risk factors of urticaria with a focus on chronic urticaria in children. *Allergy Asthma Immunol Res*. 2017;9(3):212–9.
47. Powell RJ, Leech SC, Till S, Huber PAJ, Nasser SM, Clark AT. BSACI guideline for the management of chronic urticaria and angioedema. *Clin Exp Allergy*. 2015;45(3):547–65.
48. Zuberbier T, Aberer W, Asero R, Bindslev-Jensen C, Brzoza Z, Canonica GW, et al. The EAACI/GA2LEN/EDF/WAO guideline for the definition, classification, diagnosis, and management of urticaria: the 2013 revision and update. *Allergy*. 2014;69(7):868–87.
49. Peroni A, Colato C, Schena D, Girolomoni G. Urticarial lesions: if not urticaria, what else? The differential diagnosis of urticaria. Part I. Cutaneous diseases. *J Am Acad Dermatol*. 2010;62:541–55.
50. Agache I, Rocha C, Pereira A, Song Y, Alonso-Coello P, Solà I, et al. Efficacy and safety of treatment with omalizumab for chronic spontaneous urticaria: a systematic review for the EAACI biologicals guidelines. *Allergy*. 2021;76(1):59–70.
51. Kolkhir P, Altrichter S, Munoz M, Hawro T, Maurer M. New treatments for chronic urticaria. *Ann Allergy Asthma Immunol*. 2020;124:2–12.
52. Fok JS, Kolkhir P, Church MK, Maurer M. Predictors of treatment response in chronic spontaneous urticaria. *Allergy*. 2021;76:2965–81.
53. Metz M, Vadasz Z, Kocatürk E, Giménez-Arnau AM. Omalizumab up dosing in chronic spontaneous urticaria: an overview of real-world evidence. *Clin Rev Allergy Immunol*. 2020;59:38–45.
54. Maurer M, Eyerich K, Eyerich S, Ferrer M, Gutermuth J, Hartmann K, et al. Urticaria: Collegium Internationale Allergologicum (CIA) update 2020. *Int Arch Allergy Immunol*. 2020;181:321–33.
55. Pattanaik D, Lieberman JA. Pediatric angioedema. *Curr Allergy Asthma Rep*. 2017;17(9):1–8.
56. Lewis LM. Angioedema: etiology, pathophysiology, current and emerging therapies. *J Emerg Med*. 2013;45(5):789–96.

57. Kulthanan K, Jiamton S, Boochangkool K, Jongjarearnprasert K. Angioedema: Clinical and etiologiical aspects. *Clin Dev Immunol*. 2007;2007:1–5.
58. Soter NA. Acute and chronic urticaria and angioedema. *J Am Acad Dermatol*. 1991;25(1):146–54.
59. Ertoy Karagol HI, Yilmaz O, Bakirtas A, Topal E, Demirsoy MS, Turktas I. Angioedema without urticaria in childhood. *Pediatr Allergy Immunol*. 2013;24(7):685–90.
60. Kaplan AP, Greaves MW. Angioedema. *J Am Acad Dermatol*. 2005;53(3):373–88.
61. Cicardi M, Aberer W, Banerji A, Bas M, Bernstein JA, Bork K, et al. Classification, diagnosis, and approach to treatment for angioedema: consensus report from the hereditary angioedema international working group. *Allergy*. 2014;69(5):602–16.
62. Schaefer P. Acute and chronic urticaria: evaluation and treatment. *J Allergy Clin Immunol*. 2017;95(11):717–24.
63. Cicardi M, Zanichelli A. Acquired angioedema. *Allergy*. 2010;6(1):14.
64. Kanani A, Betschel SD, Warrington R. Urticaria and angioedema. *Allergy Asthma Clin Immunol*. 2018;14:1–7.
65. Colloff MJ. Dust mites. 1st ed. Springer Netherlands; 2009.
66. Abou Galalah MI, Heikl HM, El Sobky MM, Harbah NM, El Kersh WM, Galalah A, et al. Morphological identification of house dust mite species in Menoufia Governorate and their antigen effect in immunoglobulin E response in allergic patients. *Menoufia Med J*. 2019;32(1):1–9.
67. Hart B. Life cycle and reproduction of house-dust mites: Environmental factors influencing mite populations. *Exp Appl Acarol*. 1998;13:7–15.
68. Mahesh, Kushalappa, Holla AD, Vedanthan. House dust mite sensitivity is a factor in chronic urticaria. *Int Arch Allergy Immunol*. 2005;71:23–8.
69. Caliskaner Z, Ozturk S, Turan M, Karaayvaz M. Skin test positivity to aeroallergens in patients with chronic urticaria without allergic respiratory disease. *J Investig Allergol Clin Immunol*. 2004;14(1):50–4.
70. Saefulloh C. Gambaran kepadatan tungau debu rumah spesies *Dermatophagoides* spp. pada karpet masjid di Desa Kebon Cau, Kecamatan Teluk Naga, Kabupaten Tangerang–Banten Tahun 2021. Tangerang; 2021 Jun.
71. Amwiah SL. Kepadatan tungau debu rumah *Dermatophagoides* sp. di Kampung Jati Bulak RT 003 RW 001 Kelurahan Jatimulya Kecamatan Tambun Selatan Kabupaten Bekasi. Bekasi; 2021 Jul.

72. Kristin SP, Tuda JSB, Wahongan GJP. Jenis dan kepadatan tungau debu rumah di Kelurahan Malalayang 1 Kecamatan Malalayang Kota Manado. *J e-Biomedik (eBm)*. 2015;3:706–10.
73. Rahmadatu D, Sulistyaningsih E, Agustina D. Hubungan kepadatan *Dermatophagoides* spp. dengan frekuensi serangan asma pada penderita asma di RS Paru Jember. *J Kedokteran Syiah Kuala*. 2019;19(2):147–54.
74. Walangare KR, Tuda JSB, Runtuwene J. Tungau debu rumah di Kelurahan Taas Kecamatan Tikala Kota Manado. *Maret* 2013;1:439–44.
75. Arrahmi F, Irawati N, Rita RS. Gambaran kepadatan tungau debu rumah spesies *Dermatophagoides pteronyssinus* dan *Dermatophagoides farinae* di Kelurahan Jati Kecamatan Padang Timur Kota Padang. *Dampak*. 2019;16(1):15–23.
76. Mills-Platts T, Sporik R, Wheatley LM, Heymann PW. *The Journal of Allergy Clinical Immunology*. 1995;96:543–51.
77. Anasis AM, Husna I, Khusuma A, Kesehatan JA, Mataram K. Tungau debu rumah dan kaitannya dengan penyakit asma (studi pustaka). *J Ilmu Kedokteran Kesehatan*. 2021;8:45–56.
78. Friliansari LP, Khairinisa G, Pebrianti D, Akbar W. Jenis dan kepadatan tungau debu rumah pada kamar tidur mahasiswa TLM (D4) Fakultas Ilmu dan Teknologi Kesehatan Universitas Jenderal Achmad Yani Cimahi penderita penyakit alergi. *Universitas Jenderal Achmad Yani Cimahi Jl. Terusan Jenderal Sudirman-Cimahi*. 2024;4:15–28.
79. Woo LN, Guo WY, Wang X, Young A, Salehi S, Hin A, et al. A 4-week model of house dust mite (HDM) induced allergic airways inflammation with airway remodeling. *Sci Rep*. 2018 Dec;8(1).
80. Vyszenski-Moher DAL, Arlian LG, Neal JS. Effects of laundry detergents on *Dermatophagoides farinae*, *Dermatophagoides pteronyssinus*, and *Euroglyphus maynei*. *Ann Allergy Asthma Immunol*. 2002 Jun;88(6):578–83.
81. Asher MI, Keil U, Anderson HR, Beasley R, Crane J, Martinez F, et al. International study of asthma and allergies in childhood (ISAAC): rationale and methods. *Eur Respir J*. 1995;8(3):483–91.
82. Ensina LF, Brandão LS, Neto HC, Ben-Shoshan M. Urticaria and angioedema in children and adolescents: diagnostic challenge. *Allergol Immunopathol (Madr)*. 2022;50(SpecialIssue1):17–29.
83. Nur A, Departemen A, Kesehatan P, Perilaku I. Hubungan tingkat kebersihan diri dan faktor predisposisi pada anak di Panti Asuhan Al-Amal Surabaya. *MTPH J*. 2021;5(1):19–27.
84. Sporik R, Holgate ST, Platts-Mills TAE, Cogswell JJ. Exposure to house dust mite allergen (Der p I) and the development of asthma in childhood — A prospective study. *N Engl J Med*. 1990 Aug 23;323(8):502–7.

85. Kolkhir P, Metz M, Altrichter S, Maurer M. Comorbidity of chronic spontaneous urticaria and autoimmune thyroid diseases: A systematic review. *Allergy*. 2017;72(11):1440–60.
86. Wedi B, Raap U, Wiecek D, Kapp A. Urticaria and infections. *Allergy Asthma Clin Immunol*. 2009;5(1):1–7.
87. Leung DYM, Boguniewicz M, Howell MD, Nomura I, Hamid QA. New insights into atopic dermatitis. *J Clin Invest*. 2004;113(5):651–7.
88. Putri RY. Kepadatan tungau debu rumah (*Dermatophagoides* sp.). *J Ilmu Kedokteran Kesehatan*. 2020 May;8:20–5.
89. Lesmana SD, Harianto H, Octarient R. The presence of house dust mites in residences and classrooms of students with allergic rhinitis. *Mutiara Medika J Kedokt Kesehatan*. 2021;21(2):138–43.
90. Zare M, Hassani-Azad M, Soleimani-Ahmadi M, Majnoon R. The influence of indoor environmental factors on the prevalence of house dust mites as aeroallergens in Bandar Abbas student dormitories, south of Iran, 2019. *J Med Entomol*. 2021;58(4):1865–73.
91. Solarz K, Obuchowicz A, Asman M, Nowak W, Witecka J, Pietrzak J, et al. Abundance of domestic mites in dwellings of children and adolescents with asthma in relation to environmental factors and allergy symptoms. *Sci Rep*. 2021;11(1):1–8.
92. Arlian LG. Water balance and humidity requirements of house dust mites. *Exp Appl Acarol*. 1992;16:13–7.
93. Hohakay YA, Wahongan GretaJP, Bernadus JBB. Jenis dan kepadatan tungau debu rumah di Kelurahan Kleak Kecamatan Malalayang Kota Manado. *J e-Biomedik (eBm)*. 2017;5(2):23–30.
94. Kokali FM, Sorisi A, Pijoh V, Kedokteran BI, Fakultas K, Universitas K, et al. Tungau debu rumah di Kelurahan Ranotana Weru Kecamatan Wanea Kota Manado. *J e-Biomedik (eBM)*. 2013;1(2):45–9.
95. Nova DF, Rusjdi SR, Fitri F. Perbedaan paparan tungau debu rumah dengan status rhinitis alergi berdasarkan kriteria ISAAC pada anak di dua sekolah di Padang. *Kesehatan Andalas*. 2018;7:15–22. Available from: <http://jurnal.fk.unand.ac.id>
96. Grumach AS, Staubach-Renz P, Villa RC, Diez-Zuluaga S, Reese I, Lumry WR. Triggers of exacerbation in chronic urticaria and recurrent angioedema—prevalence and relevance. *J Allergy Clin Immunol Pract*. 2021;9(6):2160–8.
97. Akhyar G, Ledika Veroci R. Correlation between density of house dust mites and recurrence of urticaria. *J Kesehatan Andalas*. 2019;8:34–9. Available from: <http://jurnal.fk.unand.ac.id>

98. Kulthanan K, Wachirakahan C. Prevalence and clinical characteristics of chronic urticaria and positive skin prick testing to mites. *Acta Derm Venereol.* 2008;88:584–8.
99. Rook GAW. The old friends hypothesis: Evolution, immunoregulation and essential microbial inputs. *Front Allergy.* 2023;4:1–15.
100. Conrad ML, Barrientos G, Cai X, Mukherjee S, Das M, Stephen-Victor E, Harb H. Regulatory T cells and their role in allergic disease. *Allergy.* 2025;80:77–93.
101. Wilson MS, Taylor MD, Balic A, Finney CAM, Lamb JR, Maizels RM. Suppression of allergic airway inflammation by helminth-induced regulatory T cells. *J Exp Med.* 2005 Nov;202(9):1199–212.
102. Kim CH, Park J, Kim M. Gut microbiota-derived short-chain fatty acids, T cells, and inflammation. *Immune Netw.* 2014;14(6):277–88.
103. Santiago H da C, Ribeiro-Gomes FL, Bennuru S, Nutman TB. Helminth infection alters IgE responses to allergens structurally related to parasite proteins. *J Immunol.* 2015;194(12):000–000.
104. Shi L-l, Xiong P, Yang M, Ardicli O, Schneider SR, Funch AB, et al. Role of IgG4 antibodies in human health and disease. *Cells.* 2025;14(9):639.
105. Versini M, Jeandel PY, Bashi T, Bizzaro G, Blank M, Shoenfeld Y. Unraveling the hygiene hypothesis of helminths and autoimmunity: Origins, pathophysiology, and clinical applications. *BMC Med.* 2015;13(1):1–14.
106. Spörrik R, Platts-Mills TAE, Cogswell JJ. Exposure to house dust mite allergen of children admitted to hospital with asthma. *Clin Exp Allergy.* 1993;23(7):616–21.
107. Custovic A, O'Taggart SC, Francis HC, Chapman MD, Woodcock A, Manchester F. Exposure to house dust mite allergens and the clinical activity of asthma. *J Allergy Clin Immunol.* 1996;98(5):882–90.

