

Case 8 参考文献

1. Radiopaedia. Pneumocystis pneumonia.
<<https://radiopaedia.org/cases/pneumocystis-pneumonia-5?lang=us>> Accessed July 21, 2025.
2. Ramirez JA, Musher DM, Evans SE, et al. Treatment of community-acquired pneumonia in immunocompromised adults : a consensus statement regarding initial strategies. Chest 2020 ; 158 : 1896-911. **PMID** : 32561442
3. Cheng GS, Crothers K, Aliberti S, et al. Immunocompromised host pneumonia : definitions and diagnostic criteria : an official American Thoracic Society workshop report. Ann Am Thorac Soc 2023 ; 20 : 341-53. **PMID** : 36856712
4. Azoulay E, Russell L, Van de Louw A, et al. Diagnosis of severe respiratory infections in immunocompromised patients. Intensive Care Med 2020 ; 46 : 298-314. **PMID** : 32034433
5. Riley TR, George MD. Risk for infections with glucocorticoids and DMARDs in patients with rheumatoid arthritis. RMD Open 2021 ; 7 : e001235. **PMID** : 33597206
6. McLean-Tooke A, Aldridge C, Waugh S, et al. Methotrexate, rheumatoid arthritis and infection risk : what is the evidence? Rheumatology (Oxford) 2009 ; 48 : 867-71. **PMID** : 19447771
7. Mori S, Sugimoto M. *Pneumocystis jirovecii* infection : an emerging threat to patients with rheumatoid arthritis. Rheumatology (Oxford) 2012 ; 51 : 2120-30. **PMID** : 2300161
8. Miller RF, Walzer PD, Smulian AG, et al. *Pneumocystis* species. In : Bennett JE, Dolin R, Blaser MJ. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. 9th. Philadelphia : Elsevier, 2019.
9. White P. Evaluation of pulmonary infiltrates in critically ill patients with cancer and marrow transplant. Crit Care Clin 2001 ; 17 : 647-70. **PMID** : 11525052
10. Nham E, Kim SH, Ko JH, et al. Diagnostic performance of the (1-3) - β -d-glucan assay in patients with different risks for invasive fungal diseases. Med Mycol 2024 ; 62 : myae071. **PMID** : 39030069
11. Tasaka S, Hasegawa N, Kobayashi S, et al. Serum indicators for the diagnosis of *Pneumocystis* pneumonia. Chest 2007 ; 131 : 1173-80. **PMID** : 17426225
12. Fragoulis GE, Nikiphorou E, Larsen J, et al. Methotrexate-associated pneumonitis and rheumatoid arthritis-interstitial lung disease : current concepts for the diagnosis and treatment. Front Med (Lausanne) 2019 ; 6 : 238. **PMID** : 31709258

13. Arakawa H, Yamasaki M, Kurihara Y, et al. Methotrexate-induced pulmonary injury : serial CT findings. J Thorac Imaging 2003 ; 18 : 231-6. **PMID** : 14561908
14. Rondon F, Mendez O, Spinel N, et al. Methotrexate-induced pulmonary toxicity in psoriatic arthritis (PsA) : case presentation and literature review. Clin Rheumatol 2011 ; 30 : 1379-84. **PMID** : 21614476
15. Carson CW, Cannon GW, Egger MJ, et al. Pulmonary disease during the treatment of rheumatoid arthritis with low dose pulse methotrexate. Semin Arthritis Rheum 1987 ; 16 : 186-95. **PMID** : 3823910
16. 日本リウマチ学会 MTX 診療ガイドライン策定小委員会. 関節リウマチ治療におけるメトトレキサート (MTX) 診療ガイドライン. 2010 年 9 月.
<https://www.ryumachi-jp.com/info/guideline_MTX.pdf> Accessed July 23, 2025.
17. Ewald H, Raatz H, Boscacci R, et al. Adjunctive corticosteroids for *Pneumocystis jiroveci* pneumonia in patients with HIV infection. Cochrane Database Syst Rev 2015 : CD006150. **PMID** : 25835432
18. Ding L, Huang H, Wang H, et al. Adjunctive corticosteroids may be associated with better outcome for non-HIV *Pneumocystis* pneumonia with respiratory failure : a systemic review and meta-analysis of observational studies. Ann Intensive Care 2020 ; 10 : 34. **PMID** : 32198645
19. Dulek DE, Mueller NJ. Pneumonia in solid organ transplantation : guidelines from the American Society of Transplantation Infectious Diseases Community of Practice. Clin Transplant 2019 ; 33 : e13545. **PMID** : 30900275
20. Kosmidis C, Denning DW. The clinical spectrum of pulmonary aspergillosis. Thorax 2015 ; 70 : 270-7. **PMID** : 25354514
21. Patterson TF, Thompson GR 3rd, Denning DW, et al. Practice guidelines for the diagnosis and management of aspergillosis : 2016 update by the Infectious Diseases Society of America. Clin Infect Dis 2016 ; 63 : e1-60. **PMID** : 27365388
22. Greene RE, Schlamm HT, Oestmann JW, et al. Imaging findings in acute invasive pulmonary aspergillosis : clinical significance of the halo sign. Clin Infect Dis 2007 ; 44 : 373-9. **PMID** : 17205443
23. 日本臨床検査機器・試薬・システム振興協会. アスペルギルスキット プラテリア® アスペルギルス Ag EIA. < <https://jaclas.or.jp/Product/index?id=32574> > Accessed Sep. 30, 2025.
24. Leeftang MM, Debets-Ossenkopp YJ, Wang J, et al. Galactomannan detection for invasive aspergillosis in immunocompromised patients. Cochrane Database Syst Rev 2015 : CD007394. **PMID** : 26716951
25. Zhou W, Li H, Zhang Y, et al. Diagnostic value of galactomannan antigen test in

serum and bronchoalveolar lavage fluid samples from patients with nonneutropenic invasive pulmonary aspergillosis. *J Clin Microbiol* 2017 ; 55 : 2153-61. **PMID** : 28446576

26. Thompson GR 3rd, Boulware DR, Bahr NC, et al. Noninvasive testing and surrogate markers in invasive fungal diseases. *Open Forum Infect Dis* 2022;9:ofac112. **PMID**: 35611348
27. Duarte RF, Sánchez-Ortega I, Cuesta I, et al. Serum galactomannan-based early detection of invasive aspergillosis in hematology patients receiving effective antimold prophylaxis. *Clin Infect Dis* 2014 ; 59 : 1696-702. **PMID** : 25165088
28. Fernández S, Castro P, Azoulay E. What intensivists need to know about cytomegalovirus infection in immunocompromised ICU patients. *Intensive Care Med* 2025 ; 51 : 39-61. **PMID** : 39774866
29. Razonable RR, Humar A. Cytomegalovirus in solid organ transplant recipients—guidelines of the American Society of Transplantation Infectious Diseases Community of Practice. *Clin Transplant* 2019 ; 33 : e13512. **PMID** : 30817026
30. Erard V, Guthrie KA, Seo S, et al. Reduced mortality of cytomegalovirus pneumonia after hematopoietic cell transplantation due to antiviral therapy and changes in transplantation practices. *Clin Infect Dis* 2015 ; 61 : 31-9. **PMID** : 25778751
31. Torres HA, Aguilera E, Safdar A, et al. Fatal cytomegalovirus pneumonia in patients with haematological malignancies : an autopsy-based case-control study. *Clin Microbiol Infect* 2008 ; 14 : 1160-6. **PMID** : 19046167
32. Limaye AP, Kirby KA, Rubenfeld GD, et al. Cytomegalovirus reactivation in critically ill immunocompetent patients. *JAMA* 2008 ; 300 : 413-22. **PMID** : 18647984
33. Cowley NJ, Owen A, Shiels SC, et al. Safety and efficacy of antiviral therapy for prevention of cytomegalovirus reactivation in immunocompetent critically ill patients : a randomized clinical trial. *JAMA Intern Med* 2017 ; 177 : 774-83. **PMID** : 28437539
34. Papazian L, Jaber S, Hraiech S, et al. Preemptive ganciclovir for mechanically ventilated patients with cytomegalovirus reactivation. *Ann Intensive Care* 2021 ; 11 : 33. **PMID** : 33570708
35. Limaye AP, Stapleton RD, Peng L, et al. Effect of ganciclovir on IL-6 levels among cytomegalovirus-seropositive adults with critical illness : a randomized clinical trial. *JAMA* 2017 ; 318 : 731-40. **PMID** : 28829877
36. Ljungman P, Chemaly RF, Khawaya F, et al. Consensus definitions of cytomegalovirus (CMV) infection and disease in transplant patients including resistant and refractory CMV for use in clinical trials : 2024 update from the

Transplant Associated Virus Infections Forum. Clin Infect Dis 2024 ; 79 : 787-94.
PMID : 39041385

37. Wu X, Sun T, Cai Y, et al. Clinical characteristics and outcomes of immunocompromised patients with severe community-acquired pneumonia : a single-center retrospective cohort study. Front Public Health 2023 ; 11 : 1070581. **PMID** : 36875372
38. Kato H, Samukawa S, Takahashi H, et al. Diagnosis and treatment of *Pneumocystis jirovecii* pneumonia in HIV-infected or non-HIV-infected patients—difficulties in diagnosis and adverse effects of trimethoprim-sulfamethoxazole. J Infect Chemother 2019 ; 25 : 920-4. **PMID** : 31300379
39. Kanne JP, Yandow DR, Meyer CA. *Pneumocystis jirovecii* pneumonia : high-resolution CT findings in patients with and without HIV infection. AJR Am J Roentgenol 2012 ; 198 : W555-61. **PMID** : 22623570
40. Vargas SL, Pizarro P, López-Vieyra M, et al. *Pneumocystis* colonization in older adults and diagnostic yield of single versus paired noninvasive respiratory sampling. Clin Infect Dis 2010 ; 50 : e19-21. **PMID** : 20047486
41. Azoulay É, Bergeron A, Chevret S, et al. Polymerase chain reaction for diagnosing *Pneumocystis* pneumonia in non-HIV immunocompromised patients with pulmonary infiltrates. Chest 2009 ; 135 : 655-61. **PMID** : 19265086
42. Wieruszewski PM, Barreto JN, Frazee E, et al. Early corticosteroids for *Pneumocystis* pneumonia in adults without HIV are not associated with better outcome. Chest 2018 ; 154 : 636-44. **PMID** : 29705221
43. Hosseini-Moghaddam SM, Kothari S, Humar A, et al. Adjunctive glucocorticoid therapy for *Pneumocystis jirovecii* pneumonia in solid organ transplant recipients : a multicenter cohort, 2015-2020. Am J Transplant 2024 ; 24 : 653-68. **PMID** : 37977229
44. Kamel T, Janssen-Langenstein R, Quelden Q, et al. *Pneumocystis* pneumonia in intensive care : clinical spectrum, prophylaxis patterns, antibiotic treatment delay impact, and role of corticosteroids. A French multicentre prospective cohort study. Intensive Care Med 2024 ; 50 : 1228-39. **PMID** : 38829531
45. Lemiale V, Resche-Rigon M, Zerbib Y, et al. Adjunctive corticosteroids in non-AIDS patients with severe *Pneumocystis jirovecii* pneumonia (PIC) : a multicentre, double-blind, randomised controlled trial. Lancet Respir Med 2025 ; 13 : 800-8. **PMID** : 40652952