

13. Litvinseva, A.P., Lindsley, M.D., Gade, L., Smith, R., Chiller, T., Lyons, J.L., Thakur, K.T., Zhang, S.X., Grgurich, D.E., Kerker, T.M., Brandt, M.E., and Park, B.J. Utility of (1-3)- β -D-glucan testing for diagnostics and monitoring response to treatment during the multistate outbreak of fungal meningitis and other infections. *J. Clin. Microbiol.* 2015; 53:618-25.
14. Olabisi, Z., Mattaruzzi, G., Estey, E., Kantarijan, H., Saeki, F., Ridge, R., Ketchum, P., Finkelman, M., Rex, J., and Ostrosky-Zeichner, L. 2004. β -Glucan as a diagnostic adjunct for invasive fungal infections: Validation, cut-off development, and performance in patients with Acute Myelogenous Leukemia and Myelodysplastic Syndrome. *CID* 39: 199-205.
15. Iwanaga, S., Miyata, T., Tokunaga, F., and Muta, T. 1992. Molecular mechanism of hemolymph clotting system in *Limulus*. *Thrombosis Res.* 68: 1-32.
16. Tanaka, S., Aketagawa, J., Takahashi, S., Tsumuraya, Y., and Hashimoto, Y. 1991. Activation of a *Limulus* coagulation factor G by (1-3)- β -D-Glucans. *Carbohydrate Res.* 218:167-174.
17. Saito, H., Yoshizaki, Y., Uehara, N., Aketagawa, J., Tanaka, S., and Shibata, Y. 1991. Relationship between conformation and biological response for (1-3)- β -D-Glucans in the activation of coagulation factor G from *Limulus* amoebocyte lysate and host-mediated antitumor activity. Demonstration of single-helix conformation as a stimulant. *Carbohydrate Res.* 217:181-190.
18. Aketagawa, J., Tanaka, S., Tamura, H., Shibata, Y., and Saito, H. 1993. Activation of *Limulus* coagulation factor G by several (1-3)- β -D-Glucans: Comparison of the potency of glucans with identical degree of polymerization but different conformations. *J. Biochem* 113:683-686.
19. Kanda, H., Kubo, K., Hamasaki, K., Kanda, Y., Nakao, A., Kitamura, T., Fujita, T., Yamamoto, K., and Mimura, T. 2001. Influence of various hemodialysis membranes on the plasma (1-3)- β -D-Glucan level. *Kidney International* 60: 319-323.
20. Kato, A., Takita, T., Furuhashi, M., Takahashi, T., Maruyama, Y., and Hishida, A. 2001. Elevation of blood (1-3)- β -D-Glucan concentrations in hemodialysis patients. *Nephron* 89:15-19.
21. Kanamori, H., Kanemitsu, K., Miyasaka, T., Ameku, K., Endo, S., Aoyagi, T., Inden, K., Hatta, M., Yamamoto, N., Kunishima, H., Yano, H., Kaku, K., Hirakat, Y., and Kaku, M. 2009. Measurement of (1-3)- β -D-Glucan derived from different gauze types. *Tohoku J. Exp. Med.* 217: 117-121.
22. Mohr, J., Patznick, V., Rodriguez, J., Finkelman, M., Coanour, C., Rex, J., and Ostrosky-Zeichner, L. 2005. A prospective pilot survey of β -glucan (BG) seropositivity and its relationship to invasive candidiasis (IC) in the surgical ICU (SICU) ICAAC Poster #M-168.
23. Held J, Wagner D. β -d-Glucan kinetics for the assessment of treatment response in *Pneumocystis jirovecii* pneumonia. *Clin Microbiol Infect.* 2011;17:1118-22.
24. Tamura, H., Arimoto, Y., Tanaka, S., Yoshida, M., Obayashi, T., and Kawai, T. 1994. Automated kinetic assay for endotoxin and (1-3)- β -D-Glucan in human blood. *Clin. Chim. Acta* 226: 109-112.
25. Ogawa, M., Hori, H., Niigodhi, S., Azuma, E., and Komada, Y. 2004. False positive plasma (1-3)- β -D-Glucan following immunoglobulin product replacement in adult bone marrow recipient. *Int. J. Hematol.* 80: 97-98.
26. Racil, Z., Koemanova, I., Lengerova, M., Weinbergerova, B., Buresova, L., Toskova, M., Winterova, J., Timikina, S., Rodriguez, I., and Mayer, J. Difficulties in using 1,3- β -D-glucan as the screening test for the early diagnosis of invasive fungal infections in patients with haematological malignancies—high frequency of false-positive results and their analysis. *J. Med. Microbiol.* 2010; 59:1016-22.
27. Posteraro B, De Pascale, G., Tumbarello, M., Torelli, R., Pennisi, M.A., Bello, G., Maviglia, R., Fadda, G., Sanguinetti, M., and Antonelli, M. 2001. Early diagnosis of candidemia in intensive care unit patients with sepsis: a prospective comparison of (1-3)- β -D-glucan assay, Candida score, and colonization index. *Crit Care* 15: 1249.
28. Smith, P.B., Benjamin, D.K., Alexander, B.D., Johnson, M.D., Finkelman, M.A., and Steinbach, W.J. 2007. (1-3)- β -D-Glucan levels in pediatric patients: Preliminary data for the use of the beta-glucan test in children. *Clin. Vaccine Immunol.* 14: 924-925.
29. Goudjil, S., Kongo, G., Dasol, L., Imestouren, F., Cornu, M., Leke, A., and Chouaki, T. 2013. (1-3)- β -D-glucan levels in candidiasis infections in the critically ill neonate. *J. of Maternal-Fetal and Neonatal Med.* 26: 44-48.
30. Issa, N.C., Koo, S., Lynch, R.C., Gay, C., Hammond, S.P., Baden, L.R., Ghobrial, I.M., Finkelman, M.A., and Marty, F.M. 2012. Serum galactomannan and (1-3)- β -D-glucan assays for patients with multiple myeloma and Waldenstrom's macroglobulinemia. *J. Clin. Microbiol.* 50:1034-6.
31. Ostrosky-Zeichner, L., Alexander, B.D., Kett, D.H., Vazquez, J., Pappas, P.G., Saeki, F., Ketchum, P.A., Wingard, J., Schiff, R., Tamura, H., Finkelman, M.A., Rex, J.H. 2005. Multicenter clinical evaluation of the (1-3)- β -D-Glucan assay as an aid to diagnosis of fungal infections in humans. *Clin. Inf. Dis.* 41: 299-305.
32. Karageorgopoulos DE, Voukoumanou EK, Ntziora F, Michalopoulos A, Rafailidis PI, Falagas ME. β -D-glucan assay for the diagnosis of invasive fungal infections: a meta-analysis. *Clin Infect Dis.* 2011; 52:750-70.
33. Hou TY, Wang SH, Liang SX, Jiang WX, Liao DD, Huang DH. The Screening Performance of Serum 1,3-Beta-D-Glucan in Patients with Invasive Fungal Diseases: A Meta-Analysis of Prospective Cohort Studies. *PLoS One.* 2015 Jul 6;10:e0131602.
34. Lamoth F, Cruciani M, Mengoli C, Castagnola E, Lortholary O, Richardson M, Marchetti O. β -Glucan antigenemia assay for the diagnosis of invasive fungal infections in patients with hematological malignancies: a systematic review and meta-analysis of cohort studies from the Third European Conference on Infections in Leukemia (ECL-3). *Clin Infect Dis.* 2012; 54:633-43.
35. Onishi AI, Sugiyama D, Kogata Y, Saegusa J, Sugimoto T, Kawano S, Morinobu A, Nishimura K, Kumagai S. Diagnostic accuracy of serum 1,3- β -D-glucan for *Pneumocystis jirovecii* pneumonia, invasive candidiasis, and invasive aspergillosis: systematic review and meta-analysis. *J Clin Microbiol.* 2012; 50:7-15.
36. Karageorgopoulos DE, Qu JM, Korbila IP, Zhu YG, Vasileiou VA, Falagas ME. Accuracy of β -D-glucan for the diagnosis of *Pneumocystis jirovecii* pneumonia: a meta-analysis. *Clin Microbiol Infect.* 2013; 19:39-49.
37. He S1, Hang JP2, Zhang L2, Wang F2, Zhang DC3, Gong FH4. A systematic review and meta-analysis of diagnostic accuracy of serum 1,3- β -d-glucan for invasive fungal infection: Focus on cutoff levels. *J Microbiol Immunol Infect;* 2015 Aug;48:351-61.
38. Wong J, Zhang Y, Patidar A, Vilar E, Finkelman M, Farrington K. Is Endotoxemia in Stable Hemodialysis Patients an Artifact? Limitations of the *Limulus* Amoebocyte Lysate Assay and Role of (1-3)- β -D-Glucan. *PLoS One.* 2016 Oct 20;11(10):e0164978. doi: 10.1371/journal.pone.0164978. eCollection 2016.
39. Finkelman M. Specificity Influences in (1-3)- β -d-Glucan-Supported Diagnosis of Invasive Fungal Disease. *J. Fungi (Basel)* 2020 Dec 29;7(1):14

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