

# Fungemia

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Fungemia is the presence of fungi or yeasts in the blood. It is most commonly seen in immunosuppressed or immunocompromised patients with severe neutropenia, oncology patients, or in patients with intravenous catheters. Recently, it has been suggested the otherwise immunocompetent patients taking infliximab may be at a higher risk for fungemia. The diagnosis is complicated, as routine blood cultures have poor sensitivity. Treatment involves use of antifungals, e.g. fluconazole or amphotericin. The two most important risk factors are: \* Use of broad-spectrum antibiotics \* Colonization by fungi Other risk factors are: \* Dialysis \* Diabetes \* Lowered intestinal flora \* Suppressed Immune system \* Central venous catheter \* High severity of illness \* Multiple abdominal surgeries \* Use of steroids \* burns The most commonly known pathogen is *Candida albicans*, causing roughly 70% of fungemias, followed by *Candida glabrata* with 10%, and *Aspergillus* with 1%. However, the frequency of infection by *T. glabrata*, *Candida tropicalis*, *C. krusei*, and *C. parapsilosis* is increasing, especially when significant use of fluconazole is common. Symptoms can range from mild to extreme, often described as extreme flu-like symptoms. Pain, mental disorders, chronic fatigue, infections, are a few of the long list of associated symptoms with Fungemia. ( [From the Wikipedia article Fungemia](#) .)

## Recent Publications on Fungemia:



- [Excess mortality, length of stay and cost attributable to candidaemia.](#)  
*BACKGROUND: There were 1967 reports of Candida species isolated from blood...*18th November, 2009  
Department of Microbiology, University Hospital of South Manchester,- J Infect. 2009 Nov;59(5):360-5. Epub 2009 Sep 8. ([DOI Direct Link](#))
- [A simple score to predict early death in adult cancer patients with bloodstream infections.](#)  
*OBJECTIVE: To develop a simple score to predict early death in adult...*18th November, 2009  
Rua General Glicerio 486/1002, Laranjeiras, Rio de Janeiro, Brazil.- J Infect. 2009 Nov;59(5):332-6. Epub 2009 Aug 23. ([DOI Direct Link](#))
- [Candidaemia and antifungal susceptibility testing in a teaching hospital.](#)  
*We reviewed cases of candidaemia at Universiti Kebangsaan Malaysia Medical...*17th November, 2009  
Department of Medical Microbiology & Immunology, Universiti Kebangsaan- Med J Malaysia. 2009 Mar;64(1):61-4.
- [Blood stream infections by Candida glabrata and Candida krusei: a single-center experience.](#)  
*BACKGROUND/AIMS: The increasing incidence of Candida glabrata and Candida...*17th November, 2009  
Department of Internal Medicine, AIDS Research Institute, Yonsei- Korean J Intern Med. 2009 Sep;24(3):263-9. Epub 2009 Aug 26. ([DOI Direct Link](#))
- [Acute fungal sinusitis: natural history and the role of frozen section.](#)  
*Acute fungal sinusitis is a life-threatening infection affecting...*13th November, 2009

Department of Pathology, Chicago, IL 60637, USA.- Am J Clin Pathol. 2009 Jul;132(1):86-93. ([DOI Direct Link](#))

- [A rare case of infective endocarditis complicated by Trichosporon asahii fungemia treated by surgery.](#)  
*The patient was a 58-year-old male. He consulted our hospital because of...* 11th November, 2009  
Division of Cardiovascular Surgery, Sasebo City General Hospital,- Ann Thorac Cardiovasc Surg. 2009 Oct;15(5):350-3.
- [Kodamaea \(Pichia\) ohmeri fungemia in a pediatric patient admitted in a public hospital.](#)  
*Kodamaea (Pichia) ohmeri is a yeast species that has not been reported to...* 6th November, 2009  
Department of Microbiology and Parasitology, Universidade Federal do Rio- Med Mycol. 2009 Nov;47(7):775-9.
- [Lipid formulations of amphotericin B significantly improve outcome in solid organ transplant recipients with central nervous system cryptococcosis.](#)  
*BACKGROUND: Whether outcome of central nervous system (CNS) cryptococcosis...* 6th November, 2009  
VA Pittsburgh Healthcare System, University of Pittsburgh, Pittsburgh,- Clin Infect Dis. 2009 Dec 1;49(11):1721-8. ([DOI Direct Link](#))
- [Polymerase chain reaction assay for specific identification of Candida guilliermondii \(Pichia guilliermondii\).](#)  
*The incidence rates of fungemia caused by Candida guilliermondii have been...* 30th October, 2009  
Department of Internal Medicine, Teikyo University School of Medicine,- J Infect Chemother. 2009 Aug;15(4):214-8. Epub 2009 Aug 18. ([DOI Direct Link](#))
- [Invasive fungal infections: past achievements and challenges ahead.](#)  
*The incidence rates of fungemia caused by Candida guilliermondii have been...* 17th October, 2009  
- Clin Microbiol Infect. 2009 Jul;15(7):599-601. ([DOI Direct Link](#))
- [Prosthetic valve endocarditis caused by Candida lusitanae, an uncommon pathogen: a case report.](#)  
*INTRODUCTION: Candida lusitanae was originally described as a human...* 16th October, 2009  
- J Med Case Reports. 2009 May 14;3:7611. ([DOI Direct Link](#))
- [Resurgence of Pseudomonas endocarditis in Detroit, 2006-2008.](#)  
*A resurgence of endocarditis due to Pseudomonas aeruginosa was seen in 10...* 9th October, 2009  
Division of Infectious Diseases, Harper University Hospital, 3990 John R.,- Medicine (Baltimore). 2009 Sep;88(5):294-301. ([DOI Direct Link](#))
- [Bacteremia, Acute Physiology and Chronic Health Evaluation II and Modified End Stage Liver Disease are independent predictors of mortality in critically ill nontransplanted patients with acute on chronic liver failure.](#)  
*OBJECTIVES:: To determine what physiological and biochemical factors...* 23rd September, 2009  
From the Division of Critical Care Medicine (CJK, DJK), University of- Crit Care Med. 2009 Sep 16. ([DOI Direct Link](#))
- [Early-onset candidemia: an increasing problem?](#)  
*The incidence rates of fungemia caused by Candida guilliermondii have been...* 17th September, 2009  
- Crit Care Med. 2009 Sep;37(9):2652-3. ([DOI Direct Link](#))
- [The fascination with probiotics for Clostridium difficile infection: Lack of evidence for prophylactic or therapeutic efficacy.](#)  
*BACKGROUND: The association of Clostridium difficile infection (CDI) with...* 25th August, 2009  
SMBD-Jewish General Hospital, McGill University, 3755 Cote-Ste-Catherine,- Anaerobe. 2009 Aug 20. ([DOI Direct Link](#))



## Fungemia Patents:

- 6184396- [Triazole derivative or salt thereof, preparation process thereof and pharmaceutical containing said compound as an effective ingredient](#)
- 6509325- [Method for inhibiting melanogenesis and uses thereof](#)
- 6555566- [Methods and materials for treating and preventing inflammation of mucosal tissue](#)
- 6573370- [PON3 and uses thereof](#)
- 6579696- [Polymyxin B conjugates](#)
- 6627408- [Antifungal assay](#)
- 6630146- [Candida albicans phosphomannan complex as a vaccine](#)
- 6630310- [Assay for binding between carbohydrate and glycolipid](#)
- 6660267- [Prevention and treatment of sepsis](#)
- 6673346- [Compositions and methods for the treatment of sepsis](#)
- 6716625- [Histidine kinases of Aspergillus and other fungal species, related compositions, and methods of use](#)
- 6488929- [Candida albicans phosphomannan complex as a vaccine](#)
- 6458930- [Aspergillus fumigatus cofilin](#)
- 6403372- [Aspergillus fumigatus profilin](#)
- 6194592- [Triazole derivative or salt thereof, preparation process thereof and pharmaceutical containing said compound as an effective ingredient](#)
- 6197582- [Development of human monoclonal antibodies and uses thereof](#)
- 6204415- [Triazole derivative or salt thereof, preparation process thereof and pharmaceutical containing said compound as an effective ingredient](#)
- 6207703- [Methods and materials for treating and preventing inflammation of mucosal tissue](#)
- 6235890- [Methods and compositions for the detection of Candida spp.](#)
- 6284480- [Antifungal assay](#)
- 6291500- [Methods and materials for treating and preventing inflammation of mucosal tissue](#)
- 6309642- [Peptides which mimic candida carbohydrate epitopes and their use in a vaccine](#)
- 6391587- [Peptides which mimic candida carbohydrate epitopes and their use in a vaccine](#)
- 6403090- [Peptides which mimic candida carbohydrate epitopes and their use in a vaccine](#)
- 6730495- [Methods for the identification of antimicrobial compounds](#)
- 6743598- [Methods for the identification of fungal glucose utilization inhibitors and antifungal agents](#)
- 7220559- [Development of human monoclonal antibodies and uses thereof](#)
- 7230139- [Diterpenoid compounds, compositions thereof and their use as anti-cancer or anti-fungal agents](#)
- 7434578- [Methods of achieving lung volume reduction with removable anchored devices](#)
- 7442546- [Method of modulating inflammatory response](#)
- 7446091- [Methods and preparations for curing clinically ill patients](#)
- 7449328- [Probe matrix-based device for identifying microorganisms](#)
- 7455837- [Compositions and methods for the diagnosis and treatment of sepsis](#)
- 7476203- [Device and method for measuring the diameter of an air passageway](#)
- 7494652- [Treatment of sepsis](#)
- 7533671- [Bronchoscopic repair of air leaks in a lung](#)
- 7217844- [Diterpenoid compounds, compositions thereof and their use as anti-cancer or anti-fungal agents](#)
- 7138502- [Antibodies to the propeptide of Candida albicans and methods of use](#)

- 7100616- [Bronchoscopic lung volume reduction method](#)
- 6743897- [Aspergillus fumigatus profilin](#)
- 6821770- [Polynucleotide matrix-based method of identifying microorganisms](#)
- 6852689- [Methods for administration of antibiotics](#)
- 6858581- [Chemically-modified peptides, compositions, and methods of production and use](#)
- 6866845- [Compositions and methods for the treatment of sepsis](#)
- 6884774- [Cyclic hexapeptide derivatives](#)
- 6916472- [PON3 and uses thereof](#)
- 6929637- [Device and method for intra-bronchial provision of a therapeutic agent](#)
- 6987166- [Compositions and methods for the treatment of sepsis](#)
- 7060802- [Tumor-associated marker](#)
- 7534571- [Diagnostic and prognostic compounds and method](#)

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