

MYCOLOGICAL STUDIES IN 15 CASES OF OTOMYCOSIS

Ali Zarei Mahmoudabadi*

ABSTRACT

Otomycosis is a subacute or acute superficial mycotic infection of the outer ear canal that is caused by opportunistic fungi. The infection is usually unilateral and characterized by inflammation, pruritus, scaling and severe discomfort such as suppuration and pain. In this study 15 patients (11 female and 4 male) with symptomatic otomycosis were confirmed by direct microscopy and cultures. The most common fungal pathogens were *Aspergillus niger* (8 cases) followed by *A. flavus* (2 cases), *A. fumigatus*, *Penicillium* Spp., *Candida albicans*, *C. parapsilosis* and *Rhizopus* Spp each 1 case.

KEY WORDS: Otomycosis, *Aspergillus niger*, *Aspergillus*, *Penicillium*, *Candida*, *Rhizopus*.

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INTRODUCTION

Otomycosis is an acute, subacute or chronic fungal infection of the pinna, the external auditory meatus and the ear canal.¹ However the disease may occur in the middle ear in case of perforated tympanic membrane.² Infection is caused by some species of the saprophytic fungi, such as moulds and yeasts; especially *Aspergillus niger*.^{3,4} Other etiologic agents include: *A. flavus*, *A. fumigatus*, *Allischeria boydii*, *Scopulariopsis*, *Penicillium*, *Rhizopus*, *Absidia* and *Candida* Spp.⁴⁻⁶ In addition, otomycosis is a secondary infection deals to predisposing factors such as bacterial otitis externa corticosteroids therapy and swimming.⁷ The presenting symptoms include: scaling, pain, pruritus and erythematous, etc. Wax formation is also prominent. Otomycosis can occur in both temperate and tropical environment.³ The prevalence of disease is greatest

in hot, humid and in dusty areas. In this study, fungal agents, predisposing factors and sex distribution for otomycosis were investigated.

PATIENTS AND METHODS

Fifteen patients attending at the Jihad and Razi Laboratories supposed to be suffering from disease were involved in this investigation. It included 11 female (73.3%) and 4 males (26.7%). The ages of the patients ranged between 4-30 years with a mean of 17 years. All patients had one or more of the aural symptoms (itching, otalgia, hearing loss). Secretion and pus were collected from the ear by two sterile cotton wool swabs. One swab was used for direct microscopy and other for culture examination. Direct examination of the samples was carried out by staining the smears with methylene blue and Gram techniques. Otomycosis was confirmed by the presence of aseptate mycelium, septate mycelium, *Aspergillus* conidia, fruiting bodies, yeast and pseudohyphae (Figs 1-4). The presence of fungal elements in stained smears was re-confirmed by fungal culture fungal colonies. Any kind of clinical materials, especially liquid samples (swabs, pus) should be examined as quickly as possible. Swabs did not require processing and were directly used for

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Mycological Studies

Brian Sutton



Mycological Studies:

Current Studies in Mycology I, 2025-10-15 *Mycological Studies* Jay Millar, 2002 *Mycological Studies* is a cross fertilization of language and fungus exposing the similarities between the two species Just as mushrooms sprout suddenly and explosively so does language Jay Millar's second collection of poems looks at the world of mushrooms through a kaleidoscope of perspectives and styles ranging from innovative and constraint based writing to visual and concrete poetry This book makes a unique contribution to the poetry of science and nature if mushrooms have a language that is spoken to us or through us as hallucinogenic experiences Millar has managed to tap into that language and refine it into potent poetic form As readers says Millar we witness that which occurs on and above the surface of language Meanwhile the fungal threads themselves lying beneath or between the letters faithfully connect each piece of the whole to all of the others in a particular order forever unknown to the reader *Mycological Studies* is an uncanny book one that suggests that the divides between the sentient and the unconscious are frequently bridged in subtle and mysterious ways **Recent Trends and Possibilities in Mycological Research** Balwant Singh, Dr. Vinay Kumar Singh, *A Century of Mycology* Brian Sutton, 1996-05-02 British mycologists have had a major impact worldwide Commemorating the centenary of the British Mycological Society founded in 1896 this book gives an account of the British contribution to mycology both at professional and amateur level A variety of distinguished British and American authors give an authoritative commentary on the state of mycology and on potential future developments in fields in which British mycologists made important breakthroughs The book is introduced by an overview of the British contribution and personal views on pioneering work on aquatic hyphomycetes tropical mycology and the amateur contribution Later review articles treat a number of subjects in depth such as physiology systematics ecology chemistry and mapping This unique book will be of great interest to all professional and amateur mycologists in both research and teaching *Mycological Notes* Curtis Gates Lloyd, 1909 *Applied Mycology* Mahendra Rai, P. D. Bridge, 2009 The fungal kingdom consists of a wide variety of organisms with a diverse range of forms and functions Fungi have been utilized for thousands of years and their importance in agriculture medicine food production and the environmental sciences is well known New advances in genomic and metabolomic technologies have allowed further developments in the use of fungi in industry and medicine increasing the need for a compilation of new applications developments and technologies across the mycological field *Applied Mycology* brings together a range of contributions highlighting the diverse nature of current research Chapters include discussions of fungal associations in the environment agriculture and forestry long established and novel applications of fungi in fermentation the use of fungi in the pharmaceutical industry the growing recognition of fungal infections current interests in the use fungal enzymes in biotechnology and the new and emerging field of myconanotechnology Demonstrating the broad coverage and importance of mycological research this book will be of interest to researchers and students in all biological sciences *An Introduction to*

Mycology R. S. Mehrotra, K. R. Aneja, 1990 The Book Incorporates In A Comparative Manner The Various Important Classifications Of Fungi Given By Different Workers It Deals With The Morphology Taxonomy Life Cycles Of Various Groups Of Fungi And Also Includes The Disease Cycle And Control Measures Of Fungal Pathogens Responsible For Causing Diseases Of National As Well As International Importance The Book Has Been Written To Cater To The Needs Of Honours And Postgraduate Students Of Indian Universities The Aim Of The Book Is To Bring In All The Recent Information In Fungi In One Volume General Topics Like Heterothallism Parasexual Cycle Sex Hormones Evolutionary Tendencies In Lower Fungi Evolution Of Conidium From A Sporangium Sexuality In Ascomycetes With Special Reference To Degeneration And Modification Of Sex Organs Phylogeny Of Fungi Have Been Discussed At Length Important Topics Like Ecology Economic Importance Of Fungi In Various Ways Applications Of Fungi In Biotechnology And Fungi As Symbionts Of Photobionts Plants And Insects Has Also Been Discussed In Detail Appendices Like Important Text And Reference Books Mycological Journals Fungal Culture Collection Centres Of The World Mounting Media And Common Culture Media For Fungi Have Been Included

Introduction to the History of Mycology G. C. Ainsworth, 1976-10-21 Outlines the development of the main branches of mycology **Transactions of the British Mycological Society** British Mycological Society, 1903 List of members in each vol *Handbook of Applied Mycology* Arora, 1991-07-25 Contributors cover current knowledge relevant to the mycotic diseases of humans fish and shellfish Also covered is the use of molds to biologically control insects that yearly cause enormous crop losses and a consequent drain in the economy of the nations of the world The problems posed by fungi

Journal of Mycology, 1906 **Aspects of Tropical Mycology** British Mycological Society. Symposium, Susan Isaac, 1993-11-25 Considers the role of fungi in the tropical ecosystem and their potential as a source of useful novel compounds *AEROMYCOLOGICAL STUDIES OVER MAIZE AND PADDY CROPS* Dr. J. S. Ambhore, **Recent Trends in Mycological Research** Ajar Nath Yadav, 2021-04-14 Fungi range from being microscopic single celled yeasts to multicellular and heterotrophic in nature Fungal communities have been found in vast ranges of environmental conditions They can be associated with plants epiphytically endophytically or rhizospherically Extreme environments represent unique ecosystems that harbor novel biodiversity of fungal communities Interest in the exploration of fungal diversity has been spurred by the fact that fungi perform numerous functions integral in sustaining the biosphere ranging from nutrient cycling to environmental detoxification which involves processes like augmentation supplementation and recycling of plant nutrients a particularly important process in sustainable agriculture Fungal communities from natural and extreme habitats help promote plant growth enhance crop yield and soil fertility via direct or indirect plant growth promoting PGP mechanisms of solubilization of phosphorus potassium and zinc production of ammonia hydrogen cyanides phytohormones Fe chelating compounds extracellular hydrolytic enzymes and bioactive secondary metabolites These PGP fungi could be used as biofertilizers bioinoculants and biocontrol agents in place of chemical fertilizers and pesticides in eco friendly manners for

sustainable agriculture and environments Along with agricultural applications medically important fungi play significant role for human health Fungal communities are useful for sustainable environments as they are used for bioremediation which is the use of microorganisms metabolism to degrading waste contaminants sewage domestic and industrial effluents into non toxic or less toxic materials by natural biological processes Fungi could be used as mycoremediation for the future of environmental sustainability Fungi and fungal products have the biochemical and ecological capability to degrade environmental organic chemicals and to decrease the risk associated with metals semi metals and noble metals either by chemical modification or by manipulating chemical bioavailability The two volumes of Recent Trends in Mycological Research aim to provide an understanding of fungal communities from diverse environmental habitats and their potential applications in agriculture medical environments and industry The books are useful to scientists researchers and students involved in microbiology biotechnology agriculture molecular biology environmental biology and related subjects **Progress in**

Mycology Tulasi Satyanarayana, Sunil Kumar Deshmukh, Mukund V. Deshpande, 2021-08-20 Indian mycologists have extensively studied various groups of fungi such as soil fungi aquatic fungi marine fungi endophytic fungi fungi associated with man and animals Though several books on various aspects of fungi are published this is the first account of the history and developments in mycology in India It discusses at length various stages of development of mycology including both classical and biotechnological aspects It begins with a historical account of Indian mycology followed by a description of research on fossil fungi Further chapters cover the latest updates on different taxonomic groups of fungi A dedicated section describes the roles and applications of fungal endophytes The book also includes research in other important areas such as mushrooms and wood rotting fungi Different chapters are written by leading mycologists This book is useful to students teachers and researchers in botany microbiology biotechnology and life sciences agriculture and industries using fungi to produce various valuable products Arctic and Alpine Mycology II Gary A. Laursen, Joseph F. Ammirati, Scott A.

Redhead, 2013-03-09 During the summer of 1980 the First International symposium on Arctic and Alpine Mycology ISAM I was held at the then extant Naval Arctic Research Laboratory near Barrow Alaska U S A well within the Arctic Circle Laursen and Ammirati Arctic and Alpine Mycology The First International symposium on Arcto Alpine Mycology Univ Wash Press 1982 The facility is currently owned and operated by the Utkeagvik Inupiat community and is named the National Academic and Research Laboratory thus retaining its acronym NARL Twenty five scientists participated in that historic first meeting Their interests in the fungi spanned a vast geographic area of cold dominated habitats in both the northern and southern hemispheres that included four continents N and S America Eurasia and Antarctica nine countries and numerous islands ranging from Greenland to Jan Mayen in the Svalbard group ISAM I helped to develop ongoing interests and initiate others This is what ISAM I founders hoped would happen As a result the organizing committee for ISAM II was formed Its mandate was to involve a maximum of one third new participants in future ISAM meetings divide the responsibility for organizing

future meetings at sites located in areas of interest to research thrusts in Arctic and alpine environments keep the number of participants small enough to ensure manageability taking full advantage of field collecting opportunities with minimal complications and cost

Biodiversity of Fungi Mercedes S. Foster, Gerald F. Bills, 2011-04-28 Biodiversity of Fungi is essential for anyone collecting and or monitoring any fungi Fascinating and beautiful fungi are vital components of nearly all ecosystems and impact human health and our economy in a myriad of ways Standardized methods for documenting diversity and distribution have been lacking A wealth of information especially regarding sampling protocols compiled by an international team of fungal biologists make Biodiversity of Fungi an incredible and fundamental resource for the study of organismal biodiversity Chapters cover everything from what is a fungus to maintaining and organizing a permanent study collection with associated databases from protocols for sampling slime molds to insect associated fungi from fungi growing on and in animals and plants to mushrooms and truffles The chapters are arranged both ecologically and by sampling method rather than by taxonomic group for ease of use The information presented here is intended for everyone interested in fungi anyone who needs tools to study them in nature including naturalists land managers ecologists mycologists and even citizen scientists and sophisticated amateurs Covers all groups of fungi from molds to mushrooms even slime molds Describes sampling protocols for many groups of fungi Arranged by sampling method and ecology to coincide with users needs Beautifully illustrated to document the range of fungi treated and techniques discussed Natural history data are provided for each group of fungi to enable users to modify suggested protocols to meet their needs

Mycology in the Tropics Jonathan Jaime G. Guerrero, Teresita U. Dalisay, Marian P. De Leon, Mark Angelo O. Balendres, Kin Israel R. Notarte, Thomas Edison E. Dela Cruz, 2022-10-16 Mycology in the Tropics Updates on Philippine Fungi comprehensively discusses the current state of Philippine mycology including historical developments in the field listings of fungi with diverse utilizations or applications and those that cause economic impact on crop production in the country Specifically the chapters in the book introduce tropical mycology describe different fungal groups their biodiversity and conservation and give insights into the applications of mycology in agriculture health industry and the environment The book also includes quarantine regulations on economically important diseases and describes the importance of developing local studies on fungi Provides a leading reference that encapsulates the many facets of mycology in the Philippines Gives up to date developments on Philippine mycology especially topics rarely discussed such as the roles of mycological herbaria and culture collections traditional knowledge on mushrooms and on quarantine guidelines of crops with fungal diseases Presents an introduction to fungal species reported in aquatic and terrestrial habitats Highlights local studies on fungi in relation to diseases in human animals and plants and summarizes key findings on their use in the industry and the environment

Arctic and Alpine Mycology 6 Henning Knudsen, 2006

Applications of PCR in Mycology P. D. Bridge, 1998-01-01 Since the initial report of the amplification of specific DNA fragments using the polymerase chain reaction PCR in 1985 this technique has revolutionized

molecular biology It enables the production of large quantities of DNA from minute amounts of sample material which can then be readily analyzed This facility has had an enormous influence on the way both fundamental and diagnostic questions are approached and its use is now considered essential for molecular work in all branches of biology The purpose of this book is to highlight the wide ranging applications of PCR in pure and applied mycology and to increase understanding of its potential benefits After a brief overview a group of internationally renowned mycologists give definitive descriptions of the use of PCR in their own specialized fields These include fungal gene expression and cloning taxonomy and speciation fungal mycobionts mycorrhizal fungi entomopathogenic fungi mycotoxin producing fungi diagnosis of fungal infections in animals seed borne diseases fungal plant interactions and applications with industrially important fungi Finally potential future directions for PCR work in mycology are discussed

Embracing the Song of Phrase: An Psychological Symphony within **Mycological Studies**

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