# INDIAN JOURNAL OF MEDICAL MICROBIOLOGY

(Official publication of Indian Association of Medical Microbiologists,
Published quarterly in January, April, July and October)
Indexed in Index Medicus/MEDLINE/PubMed. 'Elsevier Science - EMBASE'. 'IndMED'

### **EDITORIAL BOARD**

#### **EDITOR**

#### Dr. SAVITRI SHARMA

L V Prasad Eye Institute Bhubaneswar - 751 024, India

#### ASSOCIATE EDITOR

#### Dr. Shobha Broor

Professor, Department of Microbiology All India Institute of Medical Sciences New Delhi - 110 029, India

#### ASSISTANT EDITOR

#### Dr. P Sugandhi Rao

Professor

Department of Microbiology Kasturba Medical College Manipal - 576 119, India

#### ASSISTANT EDITOR

#### Dr. V Lakshmi

Professor and Head, Dept. of Microbiology Nizam's Institute of Medical Sciences Punjagutta, Hyderabad - 500 082, India

#### ASSISTANT EDITOR

#### Dr. Reba Kanungo

Professor and Head

Department of Microbiology, Perunthalaivar Kamaraj Medical College and Research Institute, Kadhirkamam, Puducherry - 605 009, India

#### **MEMBERS**

#### National International

Dr. Arora DR	(Rohtak)
Dr. Arunaloke Chakrabarthi	(Chandigarh)
Dr. Camilla Rodrigues	(Mumbai)
Dr. Chaturvedi UC	(Lucknow)
Dr. Hemashettar BM	(Belgaum)
Dr. Katoch VM	(Agra)
Dr. Madhavan HN	(Chennai)
Dr. Mahajan RC	(Chandigarh)
Dr. Mary Jesudasan	(Thrissur)
Dr. Meenakshi Mathur	(Mumbai)
Dr. Nancy Malla	(Chandigarh)
Dr. Philip A Thomas	(Tiruchirapally)
Dr. Ragini Macaden	(Bangalore)
Dr. Ramesh K Aggarwal	(Hyderabad)
Dr. Renu Bhardwaj	(Pune)
Dr. Sarman Singh	(New Delhi)
Dr. Seyed E Hasnain	(Hyderabad)
Dr. Sitaram Kumar M	(Hyderabad)
Dr. Sridharan G	(Vellore)
Dr. Sritharan V	(Hyderabad)
Dr. Subhas C Parija	(Pondicherry)

(D -1.4.1)

#### Dr. Arseculeratne SN (Srilanka) Dr. Arvind A Padhye (USA) Dr. Chinnaswamy Jagannath (USA) Dr. Christian L Coles (USA) Dr. David WG Brown (UK) Dr. Diane G Schwartz (USA) Dr. Govinda S Visveswara (USA) Dr. Kailash C Chadha (USA) Dr. Madhavan Nair P (USA) Dr. Madhukar Pai (Canada) Dr. Mohan Sopori (USA) Dr. Paul R Klatser (Netherlands) Dr. Vishwanath P Kurup (USA)

#### ADVISORY BOARD

Dr. KB Sharma (New Delhi), Dr. NK Ganguly (New Delhi), Dr. SP Thyagarajan (Chennai), Dr. R Sambasiva Rao (New Delhi), Dr. MK Lalitha (Chennai), Dr. PG Shivananda (Manipal)

Annual Subscription Rs 2,000/- US \$ 150 Single Copy Rs 600/- US \$ 75

Editorial Office: LV Prasad Eye Institute, Patia, Bhubaneswar - 751 024, Orissa, India Ph: (+91)-0674-3987 209, 099370 37298, Fax: (+91)-0674-3987 130, E-mail: ijmm@bei-lvpei.org, Website: www.ijmm.org

#### **Published by MEDKNOW PUBLICATIONS**

A-109, Kanara Business Center, Off Link Rd, Ghatkopar (E), Mumbai - 400075, INDIA Phone: 91-22-6649 1818/1816, Fax: 91-22-6649 1817 • E-mail: publishing@medknow.com, Web: www.medknow.com



# INDIAN JOURNAL OF MEDICAL MICROBIOLOGY

(Publication of Indian Association of Medical Microbiologists)

ISSN 0255-0857 Volume 25 Number 4 October-December, 2007

## **CONTENTS**

	Page No
Guest Editorial The Need for Control of Viral Illnesses in India: A Call for Action C Lahariya, UK Baveja	309
Review Article	
Immunobiology of Human Immunodeficiency Virus Infection P Tripathi, S Agrawal	311
Special Articles	
Serum Levels of Bcl-2 and Cellular Oxidative Stress in Patients with Viral Hepatitis HG Osman, OM Gabr, S Lotfy, S Gabr	323
Rapid Identification of Non-sporing Anaerobes using Nuclear Magnetic Resonance Spectroscopy and an Identification Strategy  S Menon, R Bharadwaj, AS Chowdhary, DV Kaundinya, DA Palande	330
Original Articles  Species Distribution and Physiological Characterization of Acinetobacter Genospecies from Healthy Human Skin of Tribal Population in India  SP Yavankar, KR Pardesi, BA Chopade	336
Extended-spectrum Beta-lactamases in Ceftazidime-resistant Escherichia coli and Klebsiella pneumoniae Isolates in Turkish Hospitals  S Hoşoğlu, S Gündeş, F Kolaylı, A Karadenizli, K Demirdağ, M Günaydın, M Altındis, R Çaylan, H Ucmak	346
Typhoid Myopathy or Typhoid Hepatitis: A Matter of Debate  M Mirsadraee, A Shirdel, F Roknee	351
Correlation Between <i>in Vitro</i> Susceptibility and Treatment Outcome with Azithromycin in Gonor A Prospective Study  P Khaki, P Bhalla, A Sharma, V Kumar	rhoea: 354
Comparison of Radiorespirometric Buddemeyer Assay with ATP Assay and Mouse Foot Pad Test Detecting Viable Mycobacterium leprae from Clinical Samples VP Agrawal, VP Shetty	358
Detection of Mycoplasma Species in Cell Culture by PCR And RFLP Based Method: Effect of BM-cyclin to Cure Infections  V. Gopalkrishna, H. Verma, NS Kumbhar, RS Tomar, PR Patil	364

Virulence Factors and Drug Resistance in Escherichia coli Isolated from Extraintestinal Infections	369
Antimicrobial Susceptibility Testing of <i>Helicobacter pylori</i> to Selected Agents by Agar Dilution  Method in Shiraz-iran  J Kohanteb, A Bazargani, M Saberi-Firoozi, A Mobasser	374
Outbreak of Acute Viral Hepatitis due to Hepatitis E virus in Hyderabad  P Sarguna, A Rao, KN Sudha Ramana	378
A Comparative Study for the Detection of Mycobacteria by BACTEC MGIT 960, Lowenstein Jensen Media and Direct AFB Smear Examination  S Rishi, P Sinha, B Malhotra, N Pal	383
Cytokine Levels in Patients with Brucellosis and their Relations with the Treatment  H Akbulut, I Celik, A Akbulut	387
Brief Communications Rapid Detection of Non-enterobacteriaceae Directly from Positive Blood Culture using Fluorescent In Situ Hybridization EH Wong, G Subramaniam, P Navaratnam, SD Sekaran	391
Latex Particle Agglutination Test as an Adjunct to the Diagnosis of Bacterial Meningitis  K. Surinder, K. Bineeta, M. Megha	395
Helminthic Infestation in Children of Kupwara District: A Prospective Study  SA Wani, F Ahmad, SA Zargar, BA Fomda, Z Ahmad, P Ahmad	398
Clinical and Mycological Profile of Cryptococcosis in a Tertiary Care Hospital  MR Capoor, D Nair, M Deb, B Gupta, P Aggarwal	<b>4</b> 01
Candida spp. other than Candida albicans: A Major Cause of Fungaemia in a Tertiary Care Centre	105
Case Reports	
Enterobacter sakazakii in Infants: Novel Phenomenon in India  P Ray, A Das, V Gautam, N Jain, A Narang, M Sharma	108
Ocular Toxocariasis in a Child: A Case Report from Kashmir, North India  BA Fomda, Z Ahmad, NN Khan, S Tanveer, SA Wani	<b>4</b> 11
Cutaneous Actinomycosis: A Rare Case SC Metgud, H Sumati, P Sheetal	113
Fatal Haemophagocytic Syndrome and Hepatitis Associated with Visceral Leishmaniasis  P. Mathur, JC Samantaray, P. Samanta	116
A Rare Case of Mucormycosis of Median Sternotomy Wound Caused by Rhizopus arrhizus R Chawla, S Sehgal, S Ravindra Kumar, B Mishra	119
Mycobacterium fortuitum Keratitis  C Sanghvi	122
Correspondence	
Prevention of Parent-to-Child Transmission of HIV: An Experience in Rural Population  N. Nagdeo, VR. Thombare	125

Combining Vital Staining with Fast Plaque: TB Assay D Rawat, MR Capoor, A Hasan, D Nair, M Deb, P Aggarwal	426
<b>Disseminated Histoplasmosis</b> PK Maiti, MS Mathews	427
Authors' Reply RS Bharadwaj	428
Microwave Disinfection of Gauze Contaminated with Bacteria and Fungi VH Cardoso, DL Gonçalves, E Angioletto, F Dal-Pizzol, EL Streck	428
Endoscope Reprocessing: Stand up and Take Notice!  A Das, P Ray, M Sharma	429
Prevalence of <i>Toxoplasma gondii</i> Infection amongst Pregnant Women in Assam, India BJ Borkakoty, AK Borthakur, M Gohain	431
Evaluation of Glucose-Methylene-Blue-Mueller-Hinton Agar for E-Test Minimum Inhibitory Concentration Determination in Candida spp.  MR Capoor, D Rawat, D Nair, M Deb, P Aggarwal	432
Resurgence of Diphtheria in the Vaccination Era N Khan, J Shastri, U Aigal, B Doctor	434
A Report of <i>Pseudomonas aeruginosa</i> Antibiotic Resistance from a Multicenter Study in Iran MA Boroumand, P Esfahanifard, S Saadat, M Sheihkvatan, S Hekmatyazdi, M Saremi, L Nazemi	435
Trends of Antibiotic Resistance in Salmonella enterica Serovar Typhi Isolated from Hospitalized Patients from 1997 to 2004 in Lagos, Nigeria KO Akinyemi, AO Coker	436
Book Review	
Hospital-Acquired Infections: Power Strategies for Clinical Practice Reba Kanungo	438
Title Index, 2007	440
Author Index, 2007	442
Scientific Reviewers, 2007	446

The copies of the journal to members of the association are sent by ordinary post. The editorial board, association or publisher will not be responsible for non-receipt of copies. If any of the members wish to receive the copies by registered post or courier, kindly contact the journal's / publisher's office. If a copy returns due to incomplete, incorrect or changed address of a member on two consecutive occasions, the names of such members will be deleted from the mailing list of the journal. Providing complete, correct and up-to-date address is the responsibility of the members. Copies are sent to subscribers and members directly from the publisher's address; it is illegal to acquire copies from any other source. If a copy is received for personal use as a member of the association/society, one cannot resale or give-away the copy for commercial or library use.

# **Authors' Reply**

Dear Editor,

The case report of disseminated histoplasmosis in a patient with AIDS was published with the idea of increasing awareness of this condition and we are happy with the response we have received. Acute disseminated histoplasmosis is considered an AIDS indicator disease and yet reports from this country are very few. This is in spite of the fact that India is one of the major foci of the AIDS pandemic. One of the reasons for this as aptly brought out by Goswami et al.1 is that Histoplasma culture is difficult unless the appropriate sample is collected and there is a high index of suspicion by the microbiologist. Though the disease is more commonly reported from the Eastern parts of India, it is by no means restricted to these parts of the country as amply demonstrated by the article by Subramaniam et al.<sup>2</sup> and an earlier review by Randhawa et al.3 Increased travel within the country has made the prevalence of the disease more widespread than it was previously believed to be and is at present still under-reported.

Though our culture showed abundant microconidia, the picture published with the article attempted to demonstrate the macroconidia as these are more characteristic of the organism. The photograph also shows many macroconidia without the characteristic tubercles and one in which these tubercles are just appearing. This has been aptly brought out in the comments by Goswami *et al.*, who have described that typical macroconidia may sometime appear late and most of

these may be initially without tuberculated processes. An arrow was placed in the photograph pointing to the yeast phase of the organism.

By the time this article was submitted for publication, the series of Subramaniam *et al.*<sup>2</sup> mentioned above had not been published. However, in spite of an extensive review of available literature, we missed the single culture positive case in the study by Goswami *et al.*<sup>1</sup> Therefore, the credit for the first culture of *Histoplasma* from a patient with disseminated histoplasmosis in an AIDS patient must go to them.

#### References

- Goswami RP, Pramanik N, Banerjee D, Reza MM, Guha SK, Maiti PK. Histoplasmosis in eastern India: The tip of the iceberg? *Tran R Soc Trop Med Hyg* 1999;93:540-2.
- Subramanian S, Abraham OC, Rupali P, Zachariah A, Mathews MS, Mathai D. Disseminated histoplasmosis. *J Assoc Physicians India* 2005;53:185-9.
- Randhawa HS, Khan ZU. Histoplasmosis in India: Current status. Indian J Chest Dis Allied Sci 1994;36:193-21.

\*RS Bharadwaj

Department of Microbiology, BJ Medical College, Pune, Maharashtra - 411 001, India

<sup>\*</sup>Corresponding author (email: < renu.bharadwaj@gmail.com>)