Clinical Mycology Master Class:
Diagnosis and Treatment of
Invasive Fungal Diseases

Friday & Saturday, 10th - 11th April 2015
Izmir, Turkey

Report

We are delighted to announce that in a joint collaboration between Radboud University Medical Center, Nijmegen, Netherlands and Turkish Society of Medical Mycology, the 1st Clinical Mycology Master Class was organized successfully, 10-11 April 2015 in Izmir, Turkey. There was a huge opportunity for debate among participants and course faculty discussing “Diagnosis and Treatment of Invasive Fungal Diseases”.

![Group Photo]
The opening speech was given by President of Turkish Society of Medical Mycology, Prof. Emel Tümbay, who introduced Turkish Society of Medical Mycology and their national activities, followed by Course Directors Dr. Amir Seyedmousavi and Prof. Macit Ilkit, who defined the main aims of this course and overviewed current activities of International Society for Human and Animal Mycology (ISHAM), American Society for Microbiology (ASM) and introduced Mycology Reference Center at the Department of Medical Microbiology, Radboud University Medical Center, Nijmegen, The Netherlands.

This two-day educational event counted 60 participants and 9 speakers from 7 countries. The course participants were clinical microbiologists, medical mycologists, physicians, infectious disease specialists, scientists from academia and companies, postdocs and PhD students who wanted to improve their knowledge and understanding in the area of clinical mycology.
Venue:
This scientific meeting was held in the Conference Hall of the Anemon Hotel located within the Ege University Hospital Campus of Izmir. The course venue was quite accessible, organized at relatively low costs. All organizational costs came from the registration of Course participants. Electronic version of all lectures were delivered in CD, in addition to sending them by email if requested.

Social Program:
In the evening of April 11, 2015, Saturday, there was an optional gala dinner on the 31st floor of Hilton Hotel in Izmir. On April 12, 2015, Sunday, there was also an optional whole day guided excursion to the antique city Ephesus and to St. Mary’s House on the Nightingale Mountain (Catholic pilgrimage site) near Ephesus.

Future perspectives:
In agreement with the course directors, chair of Dutch society for Medical Mycology and president of Turkish society for Medical Mycology, the next meeting is planned as a 5 days Clinical Mycology Course around summer 2017 in Turkey.
Clinical Mycology Master Class: Diagnosis and Treatment of Invasive Fungal Diseases

Friday & Saturday, 10th - 11th April 2015
Izmir, Turkey

Organizers

Radboud University Medical Center & Turkish Society for Medical Mycology

Course Directors

Dr. Amir Seyedmousavi & Prof. Macit Ilkit

Course Faculty

Prof. Dr. Paul E. Verweij. Netherlands  
Dr. Amir Seyedmousavi. Netherlands  
Mr. Ton Rijs. Netherlands  
Mr. Hein van der Lee. Netherlands  
Prof. Olivier Lortholary. France  
Dr. Joseph Meletiadis. Greece  
Prof. Macit Ilkit. Turkey  
Prof. Sevtap Arıkan-Akdağlı. Turkey  
Prof. Emel Tümbay. Turkey

Target audience

The workshop is intended for clinical microbiologists, medical mycologists, physicians, infectious disease specialists, internists, pediatricians, dermatologists, gynecologists, scientists from academia (or companies), postdocs and PhD students who want to improve their knowledge and understanding in the area of clinical mycology.
Friday, 10th April 2015

09:00 – 09:15  Welcome and introduction
Emel Tümabay & Macit Ilkit & Amir S. Seyedmousavi

Session chair: Sevtap Ankan-Akdağlı

9:15 – 9:45  General taxonomy and classification of pathogenic fungi
Amir Seyedmousavi

10:00 – 10:45  Aspergillus and aspergillosis
Paul E. Verweij

11:00 – 11:30  Coffee break

Session chair: Paul Verweij

11:30 – 12:15  Candida and candidiasis
Olivier Lortholary

12:30 – 13:30  Lunch

Session chair: Macit Ilkit

13:30 – 14:15  Cryptococcosis
Olivier Lortholary

14:30 – 15:15  Mucormycosis
Olivier Lortholary

15:30 – 16:00  Coffee break

Session chair: Olivier Lortholary

16:00 – 16:45  Antifungal Therapeutic Drug Monitoring
Joseph Meletiadis

16:45 – 17:30  Management strategies for invasive fungal diseases
Paul Verweij
Saturday, 11\textsuperscript{th} April 2015

\textbf{Session chair: Amir Seyedmousavi}

09:00 – 09:45  \textit{Conventional mycological diagnosis and antifungal susceptibility testing}
Sevtap Arıkan-Akdaglı

10:00 – 10:45  \textit{Value of serum biomarkers in invasive fungal infections}
Joseph Meletiadis

10:45 – 11:15  \textit{Coffee break}

\textbf{Session chair: Joseph Meletiadis}

11:15 – 12:00  \textit{Black moulds and melanized yeasts in human diseases}
Amir Seyedmousavi

12:00 – 12:45  \textit{Dermatophytosis and Malassezia infections}
Macit Ilkit

13:00 – 14:00  \textit{Lunch}

\textbf{Session chair: Paul Verweij}

14:00 – 14:45  \textit{Tips for identification of moulds}
Ton Rijs, Hein van der Lee, Amir Seyedmousavi

14:45 – 15:30  \textit{Tips for identification of yeasts}
Ton Rijs, Hein van der Lee, Amir Seyedmousavi

15:30 – 16:00  \textit{Coffee break}

16:00 – 17:00  \textit{Concluding remarks}
Paul Verweij, Olivier Lortholary, Sevtap Arıkan-Akdaglı, Joseph Meletiadis, Amir Seyedmousavi & Macit Ilkit

\begin{center}
\textbf{Course language is English.}
\textbf{Personal guidance is possible in Turkish, Farsi, Dutch, French, Greek and German.}
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Paul Verweij is professor of medical microbiology and consultant microbiologist at the Department of Medical Microbiology at Radboudumc in Netherlands. His main research interest is the management of invasive fungal diseases. Topics of interest include the diagnosis of invasive mycoses by non-cultured based methods such as biological markers and fungal DNA. The emergence of azole resistance in *Aspergillus* is another topic of interest which addresses the origin and epidemiology of resistance, and clinical management. Third topic is efficacy of antifungal agents in relation to pharmacodynamic and pharmacokinetic parameters using experimental models of fungal infection.

Dr. Amir SEYEDMOUSAVI, PhD
Department of Medical Microbiology and Infectious Diseases
ErasmusMC, Rotterdam, the Netherlands

Dr. Seyedmojtaba Seyedmousavi also known as “Amir Seyedmousavi”, is a Ph.D. Medical Mycologist / Research Scientist. He is graduated cum laude from Tehran University, Iran and completed his PhD and Postdoctoral training programs (Aspergillus fumigatus, antifungal-resistance and Pharmacokinetics and Pharmacodynamics strategies to treat aspergillosis) at the department of Medical Microbiology, RadboudUMC, Nijmegen, the Netherlands, under supervision of Prof. Paul Verweij, Prof Johan Mouton and Dr. Willem Melchers. He was previously appointed as a Senior Lecturer and Assistant Professor of Medical Mycology in Iran (2002 to 2009). He also did Postdoctoral research (2009-2010) in Molecular Biology/Mycology (taxonomy, phylogeny, virulence and pathogenic potential of melanised fungi) in the lab of Prof. Sybren de Hoog at the CBS-KNAW Fungal Biodiversity Centre, Utrecht, the Netherlands. He teaches on a number of basic and advanced undergraduate and graduate courses/workshops on various aspects of Medical and Veterinary Mycology. His main research focuses on fundamental mycology research, novel in vitro-in vivo fungal infection models and on the PK/PD of anti-infectives in the context of invasive fungal infections. He also investigates the principles of pathogenesis and host-fungus interactions against medically important fungi; Aspergillus spp., black moulds and melanized yeasts. His third topic of interest is fungal zoonoses, epidemics and emerging mycoses in human and animals. He is currently Young Ambassador (YA) of Science to IRAN at American Society for Microbiology (www.asm.org). He also serves as Associate Editor of Medical Mycology journal, published by Oxford University Press on behalf of International Society for Human and Animal Mycology (ISHAM) (http://mmy.oxfordjournals.org/).
Mr. Ton RIJS  
Department of Medical Microbiology  
Radboudumc, Nijmegen, the Netherlands

Ton Rijs is research and education assistant, specialized in medical mycology with more than 20 years of experience. He has been involved in several research projects and education of many national and international medical mycology courses.

Mr. Hein VAN DER LEE  
Department of Medical Microbiology  
Radboudumc, Nijmegen, the Netherlands

Hein van der Lee is research and education assistant, specialized in medical mycology with more than 15 years of experience. He has been involved in several research projects and education of many national and international medical mycology courses.

Prof Olivier Lortholary, MD, PhD  
Department of Infectious and Tropical Diseases  
Hôpital Necker-Enfants maladies, Paris, France

Professor Lortholary received his medical degree from the Paris University VI in 1990 and was awarded a PhD in Mycology in 1999 at the Institut Pasteur. He is a member of the Infectious Diseases Society of North America and of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID). He is also a founding member of the European Fungal Infections Study Group of the ESCMID. He has contributed to several clinical trials and numerous translational researches as an investigator and also as study director. He has authored over 550 referenced publications since 1993 and has participated in many plenary and academic- or industry-sponsored sessions at international microbiology or infectious diseases congresses. His key research interests include the pathophysiology, innovative diagnostic strategy, and treatment of fungal infections in immunocompromised and neutropenic hosts, transplant patients, cryptococcosis, mucormycosis, and other infectious diseases. He is a member of the 2009 ECIL Mucormycosis guidelines, of the 2010 IDSA Cryptococcal guidelines experts panel, and of the 2012 ESCMID antifungal guidelines experts.
Dr. Joseph Meletiadis, PhD  
Clinical Microbiology Laboratory  
Medical School of University of Athens, Greece

Dr. Joseph Meletiadis is Assistant Professor in Mycology at the Medical School of University of Athens, Greece and head of Mycology Unit at the Clinical Microbiology Laboratory of Attikon University General Hospital of Athens, Greece. He graduated in 1998 from the School of Biology of Aristotle University of Thessaloniki, Greece after completing his graduation thesis on “Cloning and expression of IE-1 gene of HHV-6” in the Division of Microbiology. In 2002, he gained his Ph.D. diploma from Radboud University of Nijmegen, The Netherlands with a thesis entitled “Antifungal susceptibility test and drug interaction modeling in moulds”. After 1-year post-doctoral studies on “Molecular diagnosis of fungal infections” in the Mycology Research Center of the Department of Microbiology of Radboud University Hospital, Nijmegen, The Netherlands, he moved to USA where he completed his postdoctoral studies on “Pharmacogenomics and Toxicogenomics of antifungal drugs” from 2003 till 2008 in the Immucompromised Host Section of the Pediatric Oncology Branch, National Cancer Institute, Bethesda, MD. He was awarded with 5 fellowships and 9 awards in national and international conferences. He presented 156 abstracts in scientific conferences and published 63 papers in peer reviewed international scientific journals with more than 1800 citations and an h-index of 23. He is editor/editorial board member in the journals Journal of Antimicrobial Chemotherapy and Antimicrobial Agents and Chemotherapy and the data coordinator of the EUCAST subcommittee for Antifungal Susceptibility Testing. His research interests are fungal infections models, molecular diagnostics and fungal identification, antifungal susceptibility testing, pharmacokinetics and pharmacodynamics of antifungal drugs, in vitro and in vivo drug combinations.

Prof Emel TÜMBAY. MD, PhD  
Department of Medical Microbiology and Infectious Diseases  
Faculty of Medicine, Ege University, Izmir, Turkey

Emel Tümbay, MD, was a Professor of Medical Microbiology and Infectious Diseases in the Faculty of Medicine, Ege University, Izmir, Turkey, until her retirement in 2008. She worked on medical mycology in Germany for 2 years under the direction of Prof. Dr. H.P.R. Seeliger. Upon her return to Turkey in 1973, she established the Medical Mycology Unit and Laboratory at Ege University Hospital where she trained microbiologists and dermatologists until her retirement. She wrote two books on medical mycology and published papers mainly on the epidemiology of dermatophytes and cryptococcosis. She was the chief-editor of “Turkish Journal of Infection” for 23 years. In December 2011, with her colleagues she founded the Turkish Society of Medical Mycology in Izmir. At present, she voluntarily gives lectures on various subjects of medical mycology in different medical schools of Turkey and takes part in the activities of the Society.
Prof. ARIKAN-AKDAGLI, MD  
Department of Medical Microbiology  
Hacettepe University Medical School, Ankara, Turkey

Prof. Sevtap ARIKAN-AKDAGLI, MD  
Department of Medical Microbiology  
Hacettepe University Medical School, Ankara, Turkey

Prof. Arikan-Akdagli is the Director of the Clinical Mycology Laboratory at Department of Medical Microbiology of Hacettepe University Medical School, Ankara, Turkey. She received her MD and Clinical Microbiology and Infectious Diseases specialist degree from the same university and completed a research fellowship in Division of Infectious Diseases, Center for Emerging and Reemerging Pathogens, Mycology Research Laboratory at University of Texas Medical School, Houston, Texas, USA. She is the Editor of *Antimicrobial Agents and Chemotherapy* and the member of Scientific Committee (Mycology) of *Clinical Microbiology and Infection* journal. In addition to being the ECMM delegate for and founder member of Turkish Society of Medical Mycology, she is at present member of the EUCAST- Antifungal Susceptibility Testing Subcommittee. Her current research and publications focus on novel antifungal drugs, antifungal susceptibility testing, antifungal resistance, and laboratory diagnosis of invasive fungal infections.

Prof. Macit ILKIT, M.D., PhD  
Department of Medical Microbiology  
Faculty of Medicine, University of Çukurova  
Adana, Turkey

Macit Ilkit, M.D., Ph.D., is a Professor of Microbiology in the Faculty of Medicine at the University of Çukurova, Adana, Turkey and serves as director of the Division of Medical Mycology. He graduated from the same faculty and defended his Ph. D. in 1995. He has been actively involved in dermatophytes and dermatophytosis research, with an interest in epidemiology and diagnosis. He was also one of the founders of the Society of Medical Mycology in Turkey, which was established in December 2011. Currently, he serves as an Associate Editor for the internationally peer-reviewed journals Mycopathologia and Biomed Research International.