

DERMATOMYCOLOGY

Editors

Ayşe KALKANCI

Dilek SEÇKİN

© Copyright 2021

Printing, broadcasting and sales rights of this book are reserved to Academician Bookstore House Inc. All or parts of this book may not be reproduced, printed or distributed by any means mechanical, electronic, photocopying, magnetic paper and/or other methods without prior written permission of the publisher. Tables, figures and graphics cannot be used for commercial purposes without permission. This book is sold with banderol of Republic of Turkey Ministry of Culture.

ISBN
978-625-7451-09-3

Name of Book
Dermatomyecology

Editors
Ayşe KALKANCI
ORCID iD: 0000-0003-0961-7325
Dilek SEÇKİN
ORCID iD: 0000-0001-9145-6799

Publishing Coordinator
Yasin DİLMEN

Page and Cover Design
Typesetting and Cover Design by
Akademisyen

Publisher Certificate Number
47518

Printing and Binding
Printing Press Vadi

Bisac Code
HEA039130

DOI
10.37609/akya.340

WARNING

The information contained in this product is only presented as a source for licensed medical workers. It should not be used for any professional medical advice or medical diagnosis. It does not constitute a doctor-patient, therapist-patient and / or any other health-presentation service relationship between the Bookstore and the recipient in any way.

This product is not a synonym or a substitute for professional medical decisions. The Academician Bookstore and its affiliated companies, writers, participants, partners and sponsors are not responsible for injuries and / or damage to humans and devices arising from all applications based on product information.

In the case of prescription of drugs or other chemicals, checking over the current product information for each drug defined by the manufacturer to determine the recommended dose, duration, method and contraindications of the drug is recommended.

It is the physician's own responsibility to determine the optimal treatment an dose for the patient, and to establish a basis for the knowledge and experience of the treating physician about the patient.

The Academician Bookstore is not responsible for any changes to the product, repackaging and customizations made by a third party.

GENERAL DISTRIBUTION

Akademisyen Kitabevi A.Ş.

Halk Sokak 5 / A
Yenişehir / Ankara
Tel: 0312 431 16 33
siparis@akademisyen.com

www.akademisyen.com

PREFACE

Dermatology and medical mycology are closely related two medical specialities evolved together in years. In the 19th century this relation established the beginning of dermatomycology. Dermatologists and medical mycologists work in cooperation, especially for the diagnosis of dermatologic disorders caused by fungal agents. Not only the diagnosis, but also the pathogenesis and the follow up of treatment response are common subjects jointed by physicians and basic science specialists. Differential diagnosis of fungal infections of skin, and, if possible, identification of the causative microorganism are the essential steps in dermatology practice.

This book focuses on superficial fungal infections of the skin and subcutaneous tissues. Anatomy, physiology and immunology of skin, microbial composition are basic concepts. Clinical presentation of dermatophytoses, endemic mycoses, subcutaneous mycoses and other fungi related dermatologic disorders were reviewed in eight chapters. Final chapter focused on antifungal treatment in dermatology practice. Each chapter has one or two unique authors who are responsible for their own chapters.

Ayşe Kalkancı, MD	Dilek Seçkin, MD
Professor of Microbiology	Professor of Dermatology
Department of Medical Microbiology	Department of Dermatology Marmara
Gazi University School of Medicine	University School of Medicine
Ankara, Turkey	Istanbul, Turkey

FOREWORD

We express sincere appreciation to authors for their insight throughout this book project. We are grateful for their valuable contributions to this study.

We thank to our valuable family, our father, mother and dear sister for the years we lived together during the growing stages of our lives as a family. Thanks to them for always being there. As sisters, we became two medical doctors and we now have our own families, own careers. For this book project, we came together as editors to evaluate this jointed topic between dermatology and microbiology practices. We hope this book would be useful for all readers interested in dermatomycology whether they work in the area of dermatology, medical mycology, microbiology or family medicine.

Ayşe Kalkancı, MD	Dilek Seçkin, MD
Professor of Microbiology	Professor of Dermatology
Department of Medical Microbiology	Department of Dermatology Marmara
Gazi University School of Medicine	University School of Medicine
Ankara, Turkey	Istanbul, Turkey

CONTENTS

Chapter 1	Anatomy of Skin.....	1
	<i>Hawa Özge KESEROĞLU</i> <i>Esra ADIŞEN</i>	
Chapter 2	Skin Immunology-Host Factors	17
	<i>Tulin ERGUN</i>	
Chapter 3	Fungal Microbiome of The Skin: Malassezia.....	33
	<i>Takashi SUGITA</i>	
Chapter 4	Superficial Mycoses.....	39
	<i>Esra ADIŞEN</i> <i>Özge KESEROĞLU</i>	
Chapter 5	Dermatophytic Infections: A Group of Imitator Diseases ..	59
	<i>Murat DURDU</i> <i>Macit İLKİT</i>	
Chapter 6	Subcutaneous Mycoses.....	113
	<i>Ayşe KALKANCI</i>	
Chapter 7	Cutaneous Lesions of Endemic Mycoses	125
	<i>Kamer GÜNDÜZ</i>	
Chapter 8	Role of Fungi in Other Dermatological Disorders	139
	<i>Meltem ÖNDER</i> <i>Hilal GÖKALP</i>	
Chapter 9	Antifungal Treatment in Dermatology Practice	151
	<i>Dilek SEÇKİN</i>	

“So many books, so little time”

Franz Kafka

This book is dedicated to our valuable family

AUTHORS

Esra ADIŞEN

Prof. Dr., Gazi University School of
Medicine, Department of Dermatology
ORCID iD: 0000-0002-8768-231X

Murat DURDU

Prof. Dr.,Başkent University School of
Medicine Adana Hospital, Department
of Dermatology
ORCID iD: 0000-0003-1247-3932

Tülin ERGUN

Prof. Dr., Marmara University School of
Medicine, Department of Dermatology
ORCID iD: 0000-0002-9935-6298

Kamer GÜNDÜZ

Prof. Dr.,Celal Bayar University School of
Medicine, Department of Dermatology
ORCID iD: 0000-0002-1319-9237

Macit İLKİT

Prof. Dr., Çukurova University School of
Medicine, Department of Microbiology,
Division of Mycology
ORCID iD: 0000-0002-1174-4182

Ayşe KALKANCI

Prof. Dr., Gazi University School of
Medicine, Department of Medical
Microbiology
ORCID iD: 0000-0003-0961-7325

Meltem ÖNDER

Prof. Dr.,Gazi University School of
Medicine, Department of Dermatology
Emeritus
ORCID iD: 0000-0003-3498-1516

Dilek SEÇKİN

Prof. Dr., Marmara University School of
Medicine, Department of Dermatology
ORCID iD: 0000-0001-9145-6799

Takashi SUGITA

Prof. Dr., Meiji Pharmaceutical University,
Department of Microbiology
ORCID iD: 0000-0002-2127-5017

Hilal GÖKALP

Assoc Prof., Dermatologist
ORCID iD: 0000-0002-0752-8268

Havva Özge KESEROĞLU

Dr., Ankara Özel Drderm Polikliniği
ORCID iD: 0000-0002-3633-4585