The
Ophthalmology
Examinations Review

Second Edition

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The Ophthalmology Examinations Review

Second Edition

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& University of Melbourne, Australia*

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World Scientific

NEW JERSEY • LONDON • SINGAPORE • BEIJING • SHANGHAI • HONG KONG • TAIPEI • CHENNAI

Published by

World Scientific Publishing Co. Pte. Ltd.

5 Toh Tuck Link, Singapore 596224

USA office: 27 Warren Street, Suite 401-402, Hackensack, NJ 07601

UK office: 57 Shelton Street, Covent Garden, London WC2H 9HE

Library of Congress Cataloging-in-Publication Data

Wong, Tien Yin.

The ophthalmology examinations review / Tien Yin Wong ; with contributions from Chelvin Sng, Laurence Lim. -- 2nd ed.

p. ; cm.

Includes index.

ISBN-13: 978-981-4304-40-5 (hardcover : alk. paper)

ISBN-10: 981-4304-40-9 (hardcover : alk. paper)

ISBN-13: 978-981-4304-41-2 (pbk. : alk. paper)

ISBN-10: 981-4304-41-7 (pbk. : alk. paper)

1. Ophthalmology--Outlines, syllabi, etc. 2. Ophthalmology--Examinations, questions, etc.

I. Sng, Chelvin. II. Lim, Laurence. III. Title.

[DNLM: 1. Eye Diseases--Examination Questions. 2. Ophthalmologic Surgical Procedures--Examination Questions. WW 18.2]

RE50.W66 2011

617.7--dc22

2010054298

British Library Cataloguing-in-Publication Data

A catalogue record for this book is available from the British Library.

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Typeset by Stallion Press

Email: enquiries@stallionpress.com

Printed in Singapore.

INTRODUCTION TO SECOND EDITION

In the past decade, there have been many discoveries made in understanding the pathogenesis of, and risk factors for, eye diseases. There have been developments in new diagnostic procedures including advances in ocular imaging, and in new treatments, particularly of retinal diseases such as age-related macular degeneration and diabetic retinopathy.

We therefore felt a revised edition of this book reflecting updated knowledge is warranted. In this new edition, we have specifically included topics covering new investigations (e.g. OCT), procedures and treatments (e.g. use of anti-vascular endothelial growth factors and new refractive surgical techniques).

The scope and aim of the book remains consistent with the first edition in that it will provide a broad review for the final year ophthalmology residents and trainees taking the specialist ophthalmology examinations. We have made sure the book deals primarily with *key facts and topics* that are important from an examination perspective. We have tried to ensure that only information that is considered relevant to the examinations is covered, with topics that may be of broader scientific interest, but which are not commonly assessed in the examinations, specifically left out.

We have received extremely good feedback from the first edition and feel this book will still fill a gap in helping the residents organize and synthesize knowledge acquired from various other sources or textbooks.

We emphasize once again it is not meant to replace standard textbooks, although we know now that many residents/trainees believe there is sufficient information contained in our book to serve as the main revision text nearer the exams. **“Caveat emptor”!**

Professor Tien Y Wong

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ABOUT THE AUTHORS

Tien Y Wong is currently Professor and Director of the Singapore Eye Research Institute and Senior Consultant Ophthalmologist at the Singapore National Eye Centre and National University Health System. Professor Wong balances clinical practice as a retinal specialist with a broad-based research program focused on diabetic retinopathy, age-related macular degeneration and the use of retinal imaging to predict cardiovascular risk. He has published more than 500 papers, including papers in the *New England Journal of Medicine* and *The Lancet*. Prof Wong was previously Chairman of the Department of Ophthalmology at the University of Melbourne.

For his clinical service, academic leadership and research, Professor Wong has been recognized internationally with numerous awards, including the Ten Outstanding Young Persons of the World for “academic leadership in people younger than 40 years of age” (1999), the Sandra Doherty Award from the American Heart Association (2004), the Woodward Medal from the University of Melbourne (2005), the Alcon Research Institute Award (2006), the Novartis Prize in Diabetes (2006), the Australian Commonwealth Health Minister’s Award for Excellence in Health and Medical Research (2006), and the Australian Society of Medical Research Medical Research of the Year Award (2006). In 2008, Prof Wong was the recipient of the inaugural Singapore Translational Researcher Award (STaR), in 2009, the Outstanding Researcher Award from National University of Singapore, and in 2010, the National Clinician Scientist Award. He is the recipient of the 2010 President’s Science Award in Singapore.

He is married to a very supportive family physician wife and have two boys, aged 9 and 13, who do not see a lot of him (although he is trying to change this). He enjoys movies, reading, jogging and squash.

Chelvin Sng is a typical struggling Ophthalmology resident with “too much to do” and “too little time.” To compound matters, there is “too much to learn” and “too little cerebral capacity.” Hence, she is forever indebted to the first edition of “Ophthalmology Examinations Review,” without which she would not have passed her postgraduate assessments. Dr Sng is currently a registrar at the National University Health System in Singapore, where she has developed a healthy interest in glaucoma, myopia and epidemiology. She has a few publications under her belt, but certainly hopes to acquire many more. She has ambitions of traveling the world and owning a dog, but is soon coming to the realization that both may not be compatible with the lifestyle of an Ophthalmology resident.

Dr Sng graduated from Gonville and Caius College in Cambridge University with First Class Honours, and distinctions in Medicine, Pathology and Obstetrics and Gynecology. For her academic achievements, she was the elected senior scholar at Gonville and Caius College (2001), and also received the Max A. Barrett Prize (2002), William Harvey Studentship (2002–2004) and the Charles and Iris Brook Prize (2004). After graduation, she was awarded the Singhealth House Officer Award (2006), the International Travel Grant from the Association for Research in Vision and Ophthalmology (2008), and the Australian and New Zealand Glaucoma Interest Group Scholarship (2010).

Laurence S Lim is currently a registrar at the Singapore National Eye Centre. He hopes to complete his Advanced Specialty Training in Ophthalmology soon and thereafter pursue sub-specialty training in vitreo-retinal diseases. Dr Lim is privileged to have worked under the mentorship of Prof Wong, and the opportunity of participating in this latest edition of the Ophthalmology Examinations Review.

Dr Lim pursued medical studies at the National University of Singapore, in the course of which he earned several medals and prizes for best performance in various subjects. He was recognized on the Dean's List every year and was also a University Scholar. Graduating in 2002 as the best student throughout the entire course of study, he was awarded the Lee Kuan Yew Gold Medal. He has a strong interest in research and published his first paper as an undergraduate. He has continued to do research and, to date, has published 25 papers in international journals including the *Lancet*, *Ophthalmology*, *Investigative Ophthalmology and Visual Sciences*, and the *Archives of Ophthalmology*. He also serves frequently as a peer reviewer for several ophthalmic publications. He has attended many international, regional and local scientific meetings at which he has participated as an invited speaker, a course instructor, session moderator, judge and presenter.

He is married to a fellow ophthalmologist in training, and their preferred distractions include running, painting, and spending time in the kitchen.

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