

AMERICAN ACADEMY  
OF OPHTHALMOLOGY®

# Guidelines on Diabetic Eye Care

## The International Council of Ophthalmology Recommendations for Screening, Follow-up, Referral, and Treatment Based on Resource Settings

Tien Y. Wong, MD, PhD,<sup>1,2</sup> Jennifer Sun, MD, MPH,<sup>3</sup> Ryo Kawasaki, MD, PhD,<sup>4</sup> Paisan Ruamviboonrak, MD,<sup>5</sup> Neeraj Gupta, MD, PhD,<sup>6</sup> Van Charles Lansingh, MD, PhD,<sup>7</sup> Mauricio Maia, MD, PhD,<sup>8</sup> Wanjiku Mathenge, MD, PhD,<sup>9</sup> Sunil Moreker, MBBS,<sup>10</sup> Mahi M.K. Muqit, FRCOphth, PhD,<sup>11</sup> Serge Resnikoff, MD, PhD,<sup>12</sup> Juan Verdaguer, MD,<sup>13</sup> Peiguan Zhao, MD,<sup>14</sup> Frederick Ferris, MD,<sup>15</sup> Lloyd P. Aiello, MD, PhD,<sup>3</sup> Hugh R. Taylor, MD, AC<sup>16</sup>

Diabetes mellitus (DM) is a global epidemic and affects populations in both developing and developed countries, with differing health care and resource levels. Diabetic retinopathy (DR) is a major complication of DM and a leading cause of vision loss in working middle-aged adults. Vision loss from DR can be prevented with broad-level public health strategies, but these need to be tailored to a country's and population's resource setting. Designing DR screening programs, with appropriate and timely referral to facilities with trained eye care professionals, and using cost-effective treatment for vision-threatening levels of DR can prevent vision loss. The International Council of Ophthalmology Guidelines for Diabetic Eye Care 2017 summarize and offer a comprehensive guide for DR screening, referral and follow-up schedules for DR, and appropriate management of vision-threatening DR, including diabetic macular edema (DME) and proliferative DR, for countries with high- and low- or intermediate-resource settings. The guidelines include updated evidence on screening and referral criteria, the minimum requirements for a screening vision and retinal examination, follow-up care, and management of DR and DME, including laser photocoagulation and appropriate use of intravitreal anti-vascular endothelial growth factor inhibitors and, in specific situations, intravitreal corticosteroids. Recommendations for management of DR in patients during pregnancy and with concomitant cataract also are included. The guidelines offer suggestions for monitoring outcomes and indicators of success at a population level. *Ophthalmology* 2018;■:1–15 © 2018 by the American Academy of Ophthalmology

Diabetic mellitus (DM) is a global epidemic with significant morbidity and mortality, affecting not only populations in highly developed countries such as the United States, the United Kingdom, and those of Western Europe, but increasingly also developing countries, including China, India, South America, and Africa.<sup>1–6</sup> By 2040, of the 600 million people worldwide with DM, 400 to 500 million will live in low- and middle-income countries.<sup>7</sup> Thus, the impact of DM poses a substantial challenge to the health care systems in many developing countries.<sup>8–10</sup>

Diabetic retinopathy (DR) is a common and specific microvascular complication that develops over time.<sup>11</sup> Severe stages of DR, including proliferative DR (PDR) and diabetic macular edema (DME),<sup>12</sup> result in visual impairment and blindness without treatment. Epidemiologic studies have shown that approximately 1 in 3 persons with DM has DR, and 1 in 10 has PDR or DME.<sup>12–15</sup> Based on these rates, between 100 million and 120 million people have DR and possibly 20 million to 30 million have PDR or DME. However, of

concern is that population surveys consistently show that half of persons with DM remain undiagnosed<sup>16–18</sup> and that many are unaware of their risk of DR and other complications.<sup>19</sup>

There are highly effective and cost-effective treatments for PDR and DME, demonstrated over 3 decades with landmark randomized clinical trials that show up to 98% of the blindness could be prevented by timely treatment with laser photocoagulation therapy and vitrectomy surgery,<sup>20</sup> and, in the past decade, intraocular injections of anti-vascular endothelial growth factor (VEGF) inhibitors for DME.<sup>21–23</sup> There is also evidence that intravitreal injections of corticosteroids may be useful for DME management, particularly in eyes with previous cataract surgery.<sup>24–26</sup> These treatments, coupled with the concept of earlier detection and systemic management of DM, such as intensive glucose and blood pressure control, have led to observations of declining rates of vision loss resulting from DR in the United States, Western Europe, and many countries over time.<sup>2,27,28</sup>

# Diabetic Eye Care Guidelines

**Belinda Childs**



## **Diabetic Eye Care Guidelines:**

Wisconsin Diabetes Mellitus Essential Care Guidelines ,2011      **Managing Diabetic Eye Disease in Clinical Practice**  
Rishi P Singh,2015-07-15 This handbook is an overview of the diagnosis treatment and long term management of diabetic retinopathy within the context of overall long term diabetes disease management Diabetes related eye damage diabetic retinopathy is one of the most common complications of diabetes affecting approximately 30 40% of people with diabetes The situation is so severe that in countries such as the US and UK diabetic retinopathy is currently the leading cause of blindness in people age 20 to 74 years old Fortunately there are several existing and emerging treatments on the horizon and with adequate control of the underlying diabetes this condition can be successfully managed      **Essential Diabetes Mellitus Care Guidelines** ,2001      **Morbidity and Mortality Weekly Report** ,1987      *Diabetes Care* ,1992      **Diabetic Eye Disease** E.E. Kritzinger,K.G. Taylor,2012-12-06 The commonest cause of blindness in young and middle aged people in the Western world is diabetes mellitus Although the mechanism underlying diabetic retinopathy is still not understood the technology to reduce its progress exists provided treatment is given at the appropriate time Doctors caring for patients with diabetes should be familiar with all aspects of diabetic retinopathy as well as the other ocular complications of diabetes They also need a basic knowledge of the special techniques used in the diagnosis and treatment of diabetic eye disease fundus fluorescein angiography retinal photocoagulation vitrectomy and to understand how these procedures affect the diabetic patient in terms of limitation of activities and time off work To ensure the most efficient use of ophthalmic services a clear plan of referral to ophthalmologists is required These are the concepts on which this guide is based compiled by an ophthalmologist involved in the treatment of diabetic eye disease and a physician with a special interest in diabetes In addition to doctors involved in the management of diabetic patients this guide may be of value to ophthalmic opticians medical students and nurses as a self instruction manual 7 1 Examination of the Eye Testing visual acuity Using the ophthalmoscope The normal fundus The abnormal fundus Recording the findings 9 TESTING VISUAL ACUITY Method Test one eye at a time Test distant visual acuity Correct the refractive error if the visual acuity is worse than 6 6      Digital Teleretinal Screening Kanagasingam Yogesan,Leonard Goldschmidt,Jorge Cuadros,2012-03-28 Digital retinal imaging performed by primary care providers and nurses followed by remote image interpretation teleretinal imaging is rapidly acquiring a crucial role in many parts of the world as it permits the detection of major diseases such as diabetic retinopathy and glaucoma in patients who would otherwise be beyond the reach of a trained ophthalmologist In this book experts from around the world describe how digital teleretinal screening can be set up and optimally utilized Technical issues are discussed and the appropriate use of screening for different diseases and in different age groups is explained The major part of the book draws upon the clinical experience of leading practitioners in a wide range of teleretinal applications The result is a comprehensive source of high quality information for clinicians and other health professionals who are involved in eye care

delivery so that they can assess how teleretinal screening might be applied to their working practice

**Patient Safety**  
 Institute of Medicine, Board on Health Care Services, Committee on Data Standards for Patient Safety, 2003-12-20 Americans should be able to count on receiving health care that is safe To achieve this a new health care delivery system is needed a system that both prevents errors from occurring and learns from them when they do occur The development of such a system requires a commitment by all stakeholders to a culture of safety and to the development of improved information systems for the delivery of health care This national health information infrastructure is needed to provide immediate access to complete patient information and decision support tools for clinicians and their patients In addition this infrastructure must capture patient safety information as a by product of care and use this information to design even safer delivery systems Health data standards are both a critical and time sensitive building block of the national health information infrastructure Building on the Institute of Medicine reports To Err Is Human and Crossing the Quality Chasm Patient Safety puts forward a road map for the development and adoption of key health care data standards to support both information exchange and the reporting and analysis of patient safety data

**Innovative Approaches in the Delivery of Primary and Secondary Eye Care**  
 Rohit C. Khanna, Gullapalli N. Rao, Srinivas Marmamula, 2018-12-12 This unique book will provide readers with an understanding of innovative models of delivering both primary and secondary eye care focusing not just on providing quality care itself but on best practices to provide and strengthen comprehensive eye care services A wide variety of conditions will be addressed in Innovative Approaches in the Delivery of Primary and Secondary Eye Care including childhood blindness cataract diabetic retinopathy age related macular degeneration and refractive errors Detailed descriptions of various models are presented for each condition which are then followed by a discussion for incorporating integrated eye care services highlighting the importance of health system approach in comprehensive eye care Finally this book provides detailed strategies to address the current practical challenges related to human resources in eye care and methods to ensure financial sustainability in the delivery of comprehensive care Each chapter is illustrated for understanding and clarity and provides easy to read tables to further enrich the text Covering existing models of delivering care with a look to the future Innovative Approaches in the Delivery of Primary and Secondary Eye Care is designed for practicing ophthalmologists residents public health specialists and all other affiliated professionals dedicated to strengthening avenues of integrated comprehensive eye care

**Directory of Clinical Practice Guidelines, 1998** American Medical Association, 1998-06 This resource offers a convenient way to locate practice guidelines in practically any clinical area This edition provides a comprehensive bibliographic listing of more than 1 900 guidelines standards and other practice management strategies including several hundred new guidelines indexed by subject title and sponsoring organization Each entry provides pricing and order information Also included is a mid year update with newly developed practice guidelines those under development and those recently withdrawn

**The Diabetes Eye Care Sourcebook** Donald S. Fong, Robin Demi Ross, 1998 Explains how diabetics

can minimize and prevent eye damage that can be caused by their disease and includes advice for coping with low vision information on the available treatments resources for agencies services and assistance programs and description of common surgeries Management of Diabetic Retinopathy National Health and Medical Research Council (Australia),1997

Guidelines for Nursing Care Duke Hospital. Nursing Services,1983 **Director of Practice Parameters, 1996**

**Edition** American Medical Association,1996 *Management of Diabetes Mellitus* Debra Haire-Joshu,1992 MANAGEMENT OF DIABETES MELLITUS is a comprehensive approach to diabetes care across the life span It is distinctive in its interdisciplinary approach to diabetes self management its focus on patient care and education appropriate to developmental stage and emphasis on the team approach to care with the patient as the primary team member The text is divided into four main parts a clinical overview of the components of diabetes care special issues in diabetes management diabetes care and education and management of diabetes across the life span Diabetic Eye Disease: An Easy to Understand Guide to Keeping Your Vision for People with Diabetes David Khorram MD,2018-08-31 Millions of people lose vision from diabetes Make sure you re not one of them In this revised and updated second edition award winning ophthalmologist writer and educator Dr David Khorram serves as your guide giving you the knowledge you need to keep your vision for a lifetime This easy to understand guide begins with a description of how the eye works and how diabetes causes damage not just in the eye but throughout the body Dr Khorram then discusses the stages of diabetic retinopathy as well as other diabetic related problems such as cataracts fluctuating vision and double vision Dr Khorram goes on to explain the types of doctors that provide diabetic eye care the details of the eye exam and an overview of special eye tests that you may need to evaluate diabetic eye disease A separate section discussed treatment of diabetic eye disease including laser treatment surgery and the use of revolutionary drugs such as Avastin which can stabilize and even reverse vision loss Finally Dr Khorram touches on issues related to control of diabetes and other health problems that can play a major role in helping you prevent blindness An outstanding book for people with diabetes and their families John T Thompson MD President American Society of Retina Specialists The depth and clarity of Dr Khorram s book are amazing and it is a godsend to people with diabetes Frank Harritt Founder and CEO of Diabetes Self Defense LLC Having lived with diabetes for over 30 years and treated patients with diabetes for more than 20 I can say that Dr Khorram does an outstanding job explaining the how s and why s of diabetic eye care in a sensible and understandable way This is one book that I plan to read for a lifetime Gary Scheiner MS CDE author of Think Like a Pancreas A practical guide to managing diabetes with insulin If knowledge leads to action you are well on your way to a lifetime of healthy vision This book answers all your questions Jill Weisenberger MS RD CDE author of Diabetes Weight Loss Week by Week I thoroughly enjoyed the book I was blown away by all the details provided and with photos to illustrate the information The book is a complete guide on the progression of the effects of diabetes on the eyes and covers the latest developments of treatment alternatives A good reference book to understand what your doctor is trying to convey

Very well written in a casual and personal style P S Armed with information from Dr Khorram s book I was able to convince my husband to drastically modify his diet to control his diabetes We just saw our physician Not only has my husband lost 20 pounds in three months but his AC1 is 5 6 His cholesterol is also normal and his medications have been cut way back Now he has the motivation to monitor himself and we are gradually adding healthy carbs smithwic Amazon review of the first edition

**Diabetic Retinopathy** William D. Alexander,1999-01-26 This book is intended for general practitioners optometrists doctors in training and others who have responsibility for diabetes care It is not intended to make them self sufficient in screening and recognition of diabetic retinopathy but rather to enhance their role in diabetes care by increasing their understanding of diabetic retinopathy and its implications for overall diabetes care Diabetic Retinopathy is a well illustrated clearly structured and accessible reference guide It includes a description of diabetic eye disease and its significance not only to management of the eye but also generally to any person with diabetes It includes referral guidelines and guidance on locality screening programmes and methods The book illustrates the different types of diabetic retinopathy as well as other common retinal abnormalities that are likely to be seen There is also a self assessment section Clinical Practice Guidelines Directory Naomi Kuznets,2000 This annual publication is a bibliographic listing of approximately 2 000 guidelines standards and other available patient management strategies developed by physician organizations and others that helps physicians and group practices to improve their quality of medical care and ensure appropriate utilization of health care resources The Medical Library Association Encyclopedic Guide to Searching and Finding Health Information on the Web: Diseases and disorders P. F. Anderson,Nancy J. Allee,2004 Annotation Searching for health information may be the most important type of search a librarian performs in a day Instead of starting a health care search with a blank computer screen or simply accessing ordinary information available most anywhere on the Web start with help from the prestigious Medical Library Association Each entry will show you how an experienced health sciences librarian would approach the question You can begin a truly valuable search knowing Special searching issues What to ask Where to start Supplementary search strategies Topic profile Recommended search terms and important sites Hotline phone numbers FAQs Publications on the Internet Professional organizations Patient support organizations and discussion groups Best One Stop Shops Finally there s one ready reference source written by librarians to help their colleagues that covers every important aspect of the question you or your user want to answer *Complete Nurse's Guide to Diabetes Care* Belinda Childs,2005-06 Created specifically for registered nurses this reference covers the entire spectrum of disease management wherever these caregivers encounter diabetes including hospitals clinics and physicians offices This guide contains must have diabetes information such as guidelines for the lifelong management of both acute and chronic complications associated with diabetes Includes a searchable full content CD ROM

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