

Diagnostic Review for Systemic Disease

Advanced Clinical Detection Program for Healthcare Professionals

Instructor: Dr. Bruce Dornn, OD

Course Fee: \$8,000

Format: Advanced Clinical Education Program

Target Audience: Optometrists, Ophthalmologists, Healthcare Professionals, Nurses, and Ophthalmic Technicians

Course Overview

The eye provides a unique window into systemic health. Many systemic diseases present early signs and symptoms within ocular structures, making eye examinations a critical tool for identifying broader health conditions.

The Diagnostic Review for Systemic Disease course provides healthcare professionals with advanced training in recognizing systemic diseases through ocular findings. Participants will learn how to identify clinical indicators of systemic conditions such as diabetes, hypertension, autoimmune disorders, and neurological diseases during routine eye examinations.

This program focuses on improving diagnostic awareness, strengthening clinical decision-making, and promoting collaboration between eye care professionals and other healthcare providers. Through clinical case studies and diagnostic reviews, participants will gain the knowledge required to detect systemic health issues earlier and refer patients appropriately for medical evaluation.

Course Learning Objectives

Upon completion of this course, participants will be able to:

- Understand the relationship between ocular health and systemic disease

- Identify ocular signs associated with common systemic conditions
 - Recognize early indicators of systemic diseases during eye examinations
 - Interpret diagnostic imaging and clinical findings related to systemic health
 - Develop structured diagnostic workflows for systemic disease detection
 - Collaborate effectively with physicians and healthcare specialists
 - Implement referral protocols for patients requiring further medical evaluation
 - Improve patient outcomes through early disease detection
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Course Structure

The course is organized into **10 comprehensive modules** designed to provide both theoretical knowledge and practical clinical application.

Module 1: The Eye as a Window to Systemic Health

This module introduces the relationship between ocular findings and systemic disease.

Topics include:

- Overview of systemic disease indicators in eye care
- Importance of early disease detection
- Role of optometrists in interdisciplinary healthcare
- Clinical significance of ocular manifestations

- Patient outcomes and preventive healthcare
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Module 2: Diabetes and Ocular Manifestations

Diabetes is one of the most common systemic diseases affecting eye health.

Topics include:

- Pathophysiology of diabetes and ocular impact
 - Diabetic retinopathy classification
 - Microvascular retinal changes
 - Diagnostic imaging and monitoring
 - Referral and co-management strategies
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Module 3: Hypertension and Vascular Disorders

Systemic vascular diseases frequently present detectable changes within the retina.

Topics include:

- Hypertensive retinopathy
- Retinal vascular changes and indicators
- Arterial narrowing and vascular abnormalities
- Retinal hemorrhages and exudates
- Cardiovascular risk identification

Module 4: Autoimmune Diseases and Ocular Indicators

Autoimmune disorders often involve ocular inflammation and tissue changes.

Topics include:

- Sjögren's syndrome and dry eye disease
- Lupus and ocular inflammation
- Rheumatoid arthritis and ocular complications
- Uveitis and inflammatory responses
- Systemic autoimmune disease management

Module 5: Neurological Disorders and Visual Pathways

Many neurological conditions present visual or ocular symptoms.

Topics include:

- Optic nerve disorders
- Multiple sclerosis and optic neuritis
- Cranial nerve dysfunction
- Visual field defects

- Neurological referral protocols
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Module 6: Infectious Diseases and Ocular Findings

Certain infections can present early ocular symptoms detectable during eye examinations.

Topics include:

- Viral infections affecting the eye
 - Bacterial ocular manifestations
 - Systemic infections with retinal impact
 - Diagnostic indicators and patient history
 - Management and referral considerations
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Module 7: Retinal and Choroidal Changes Associated with Systemic Disease

Participants will learn how systemic health conditions affect retinal and choroidal structures.

Topics include:

- Retinal vascular abnormalities
- Macular changes linked to systemic disease
- Choroidal circulation disorders

- Interpretation of retinal imaging
 - Clinical documentation
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Module 8: Diagnostic Imaging and Advanced Testing

Modern imaging technologies enhance the detection of systemic disease indicators.

Topics include:

- Optical Coherence Tomography (OCT)
 - Fundus photography analysis
 - Visual field testing
 - Fluorescein angiography overview
 - Integrating imaging into diagnostic workflows
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Module 9: Clinical Case Studies

Participants will review real-world cases that demonstrate how systemic diseases can be identified through ocular findings.

Topics include:

- Case-based diagnostic reasoning
- Interpreting complex clinical findings

- Developing diagnostic plans
 - Identifying referral triggers
 - Patient management strategies
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Module 10: Interdisciplinary Collaboration and Patient Management

Effective communication between healthcare professionals is critical for managing systemic disease.

Topics include:

- Referral protocols to physicians and specialists
 - Collaborative care strategies
 - Patient education and counseling
 - Monitoring systemic disease progression
 - Documentation and reporting
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Teaching Methodology

This course uses a combination of educational strategies designed to reinforce clinical understanding and practical application.

Methods include:

- Clinical lectures and presentations

- Diagnostic image analysis
- Case-based clinical discussions
- Clinical workflow demonstrations
- Practical implementation strategies

Participants will gain valuable diagnostic insights that can be immediately applied within clinical practice.

Certification

Participants who successfully complete the program will receive a **Certificate of Completion in Systemic Disease Detection Through Ocular Examination**, recognizing their participation in advanced professional training in systemic health diagnostics.

Instructor

Dr. Bruce Dornn, OD

Dr. Bruce Dornn is an experienced optometrist, educator, and international lecturer who has trained thousands of healthcare professionals across the world. He has delivered more than 10,000 hours of clinical education and specializes in advancing optometry through modern diagnostic methods, dry eye management, and healthcare innovation.

Dr. Dornn is also the co-author of *The Envision Book – The Dry Eye Treatment Revolution With Energy Based Devices*, which explores emerging technologies used in the treatment of chronic dry eye disease.