



## Posterior Segment CAP Assessment Form III – January 2026

### SECTION 1: REFERENCE-BASED QUESTIONS (questions 1-13)

These questions are based on the references listed below, which emphasize new information or clinical guidelines relevant to ametropia and ophthalmic optics.

*See page 3 for learning objectives for each topic area.*

#### **Topic: Diabetic Retinopathy** (questions 1-5)

Reference: Lim, Jennifer I. et al. Diabetic Retinopathy Preferred Practice Pattern. *Ophthalmology*, Volume 132, Issue 4, P75 - P162 [https://www.aaojournal.org/article/S0161-6420\(24\)00784-X/fulltext](https://www.aaojournal.org/article/S0161-6420(24)00784-X/fulltext)

#### **Topic: OCT Biomarkers** (questions 6-9)

Reference: Pandya, Bhadra U. et al. Retinal Optical Coherence Tomography Imaging Biomarkers: A Review of the Literature. *Retina* 44(3): p. 369-380, March 2024. [https://journals.lww.com/retinajournal/fulltext/2024/03000/retinal\\_optical\\_coherence\\_tomography\\_imaging.1.aspx](https://journals.lww.com/retinajournal/fulltext/2024/03000/retinal_optical_coherence_tomography_imaging.1.aspx)

#### **Topic: Geographic Atrophy** (questions 10-13)

Reference: Bakri SJ et al. Geographic atrophy: Mechanism of disease, pathophysiology, and role of the complement system. *J Manag Care Spec Pharm*. 2023 May;29(5-a Suppl): S2-S11. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10408405/pdf/jmcp.2023.29.5-a.s2.pdf>

### SECTION 2: FUNDAMENTAL KNOWLEDGE QUESTIONS (questions 14-25)

These questions are considered “fundamental knowledge” within the area of posterior segment. This is information that has not changed substantially in the past 5-10 years, and with which all optometrists should be familiar or be able to access quickly.

The following outline is provided as a general guide for this section.

- A. Diagnosis and treatment/management of vitreous diseases and disorders
- B. Diagnosis and treatment/management of macular diseases and disorders
- C. Diagnosis and treatment/management of retinal vascular diseases
- D. Treatment and management options for non-vascular chorioretinal diseases
- E. Treatment and management options for peripheral retinal diseases and disorders
- F. Indications for and/or interpretation of fundoscopy with auxiliary lenses
- G. Indications for and/or interpretation of fundoscopy with binocular indirect ophthalmoscopy
- I. Indications for and/or interpretation of fundus photography and wide-field retinal imaging
- J. Indications for and/or interpretation of posterior segment/retinal OCT



## Posterior Segment CAP Assessment Form III – January 2026

If you wish to review prior to answering the fundamental knowledge questions, we recommend the following references:

- Kaiser and Friedman, Mass Eye and Ear Illustrated Manual of Ophthalmology, 5th ed. (2019)
- The Wills Eye Manual, 8<sup>th</sup> ed. (2022)
- American Academy of Ophthalmology's Summary Benchmarks for Retina Preferred Practice Patterns <https://www.aao.org/summary-benchmark-detail/retina-summary-benchmarks-2020>

### Learning Objectives

**Reference 1:** Lim, Jennifer I. et al. Diabetic Retinopathy Preferred Practice Pattern. Ophthalmology, Volume 132, Issue 4, P75 - P162 [https://www.aaojournal.org/article/S0161-6420\(24\)00784-X/fulltext](https://www.aaojournal.org/article/S0161-6420(24)00784-X/fulltext)

The learner will be able to:

- Identify the systemic risk factors for development of diabetic retinopathy
- Discuss the natural history of diabetic retinopathy, including the prognostic indicators for progression of retinopathy
- Classify DR and correctly apply the severity scale
- Recommend appropriate screening and monitoring schedules based on patient's progression risk factors, comorbidities, and imaging findings
- Discuss the appropriate management recommendations outlined in the clinical guideline for patients with DME and/or PDR
- Articulate the effects of pregnancy on the development of DR and patient management

**Reference 2:** Pandya, Bhadra U. et al. Retinal Optical Coherence Tomography Imaging Biomarkers: A Review of the Literature. Retina 44(3): p. 369-380, March 2024. [https://journals.lww.com/retinajournal/fulltext/2024/03000/retinal\\_optical\\_coherence\\_tomography\\_imaging.1.aspx](https://journals.lww.com/retinajournal/fulltext/2024/03000/retinal_optical_coherence_tomography_imaging.1.aspx)

The learner will be able to:

- Describe the importance of OCT biomarkers in retinal disease
- Discuss the important OCT biomarkers in vitreomacular interface disorders, especially the markers that distinguish between ERM stages and macular holes
- Discuss the AMD-associated biomarkers and their importance in management of these patients
- Identify the unique biomarkers that characterize uveitic disorders, retinal toxicity, systemic diseases and retinal vascular disorders.



## Posterior Segment CAP Assessment Form III – January 2026

**Reference 3:** Bakri SJ et al. Geographic atrophy: Mechanism of disease, pathophysiology, and role of the complement system. *J Manag Care Spec Pharm.* 2023 May;29(5-a Suppl): S2-S11.

<https://pmc.ncbi.nlm.nih.gov/articles/PMC10408405/>

The learner will be able to:

- Discuss the epidemiology and prevalence of GA
- Identify the major risk factors associated with GA
- Describe the clinical course of GA and the impact on the patient's quality of life
- Discuss the role of chronic inflammation and the complement pathway in the development and course of GA
- Discuss the current complement-targeted therapies for GA