

Retinoblastoma

(Ocular Oncology)

Ocular Oncology

Basic Level Goals:

Year 1 equivalent: trainee ophthalmologist, any grade, not expecting to specialize in ocular oncology.

A. Cognitive Skills

1. Describe the basic categorization of common intraocular tumors.**
2. Describe the clinical features of the major types of ocular tumor.**
3. Describe the symptoms and clinical manifestations indicating the presence of an ocular tumor (eg, leukocoria, sentinel vessels).**
4. Describe the differential diagnosis of the major tumors.**
5. Describe the examinations and tests by which ocular tumors are diagnosed.**
6. Describe the systemic features of ocular tumors and how these features are detected.**
7. Describe the basic management principles of ocular tumors.**

B. Technical Skills

1. Perform slit-lamp and ophthalmoscopic examination of patients with an ocular tumor.**
2. Recognize an ocular tumor and refer to an ocular oncology subspecialist.**
3. Contribute to the care of patients after treatment.**

Standard Level Goals:

Year 2 equivalent: senior general ophthalmologist who may need to diagnose and refer patients with an ocular tumor and collaborate with an ocular oncologist in long-term aftercare.

A. Cognitive Skills

1. Describe the classification of intra ocular tumors
2. Describe the clinical features of ocular tumors and their secondary effects.**
3. List the differential diagnosis for each of the ocular tumors.**
4. Describe diagnostic techniques for ocular tumors (eg, examination under anesthesia for pediatric tumors, imaging, laboratory tests, oncology referral).**

5. Describe indications and contraindications for the various diagnostic techniques.**
6. Describe the management options for ocular tumors with indications and contraindications for each form of management.**
7. Describe the complications of ocular therapy and their management.**
8. Describe basic histopathology of tumors, including immunohistochemistry.**
9. Describe the prognosis of the different types of ocular tumor.**
10. Describe the epidemiology of the more common tumors

B. Technical Skills

1. Perform naked-eye examination
2. Perform palpation of cervical lymph nodes.**
3. Perform slit-lamp examination, gonioscopy, and indirect ophthalmoscopy to diagnose and localize ocular tumors.**
4. Perform transillumination for intraocular tumors.**
5. Perform B-scan ultrasonography to detect and measure intraocular tumors.**
6. Perform sequential examination to assess the tumor over time
7. Guide evaluation for systemic disease (eg, metastases, primary tumor, syndromes).**
8. Perform excision of conjunctival tumors, avoiding seeding, or refer to an ocular oncology subspecialist for such surgery if possible.**
9. Collaborate with subspecialist in the preoperative care and referral of selected patients with an ocular tumor, avoiding potential pitfalls.**
10. Provide short-term and long-term postoperative care to patients with an ocular tumor, collaborating with a subspecialist and other health care workers as appropriate.**

11. Investigate and manage ocular complications as appropriate (eg, radiation retinopathy, macular edema, cataract, glaucoma).**
12. Interpret the results of laboratory investigations and adjust management accordingly.**
13. Discuss prognosis and various management options with patients and their families in a detailed, ethical, and compassionate manner.**