

# Retinoblastoma

## (Ocular Oncology)

# Ocular Oncology

**Qualifications :** MBBS, MS/MD/DNB/DO/DOMS

**Observership – One to three months duration.**

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