

## SYLLABUS FOR MEDICAL ONCOLOGY ASSISTANT PROFESSOR

### **[A] Etiology and Prevention of Cancer**

1. Global Cancer Incidence and Mortality.
2. Measures of Burden, Measures of Risk
3. 3 Demographic Factors that Affect Cancer Risk
4. Global Patterns of Cancer Risk and Burden
5. Patterns of Most Common Cancer
6. Issues in Interpreting Temporal Trends

### **[B] Tobacco Use and the Cancer Patient**

1. Tobacco Use Epidemiology, Addiction, and Tobacco Product Evolution
2. Electronic Nicotine Delivery Systems, or Electronic Cigarettes
3. Defining Tobacco Use by the Cancer Patient
4. Epidemiology of Tobacco Use and Cessation by Cancer Patients
5. Smoking Cessation in the Context of Lung Cancer Screening
6. The Clinical Effects of Smoking and Cessation on Cancer Treatment Outcomes

### **[C] Lifestyle Factors**

1. Obesity and Physical Activity, Nutrition
2. Lifestyle Guidelines for Cancer Prevention and Control

### **[D] Genetic Counseling & Testing**

1. The Oncology Genetic Testing Landscape
2. The Evolving Role of Genetic Counselors
3. Responsibly Scaling Genetic Services
4. Practical Guidance for Ordering and Interpreting Genetic Testing

### **[E] Cancer Therapeutics**

1. Radiation and its application in cancer management
2. Chemotherapeutics, small molecules, mabs, ICI, ADCS etc in management

### **[F] Practice of Oncology**

1. Design and Analysis of Clinical Trials
2. General Principles in the Management of Head and Neck Cancer

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3. Cancer of the Nasopharynx
4. Cancer of the Larynx and Hypopharynx
5. Oropharynx Cancer
6. Cancer of the Nasal Vestibule, Nasal Cavity, and Paranasal Sinuses
7. Cancer of the Salivary Gland
8. Lung cancers and neoplasms of Mediastinum.
9. GIT Cancers
10. CANCERS OF THE GU TRACT
11. GYNECOLOGICAL CANCERS
12. BREAST CANCER
13. CANCER OF THE ENDOCRINE SYSTEM
14. SARCOMAS AND SOFT TISSUE
15. CANCERS OF THE SKIN
16. CNS cancers.
17. CANCERS IN ADOLESCENTS AND YOUNG ADULTS

#### **[G] LYMPHOMAS**

1. Adult lymphoma and leukemia
2. Childhood lymphoma and leukemia
3. PLASMA CELL TUMORS
4. CNS lymphomas
5. MDS

#### **[H] Other Cancers**

1. Cancer of Unknown Primary
2. Benign and Malignant Mesothelioma
3. Melanoma

#### **[I] ONCOLOGIC EMERGENCIES**

1. Superior Vena Cava Syndrome

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2. Increased Intracranial Pressure
3. Spinal Cord Compression
4. Metabolic Emergencies
5. Malignant Pleural and Pericardial Effusions
6. Malignant Ascites
7. Paraneoplastic Syndromes
8. Metastases to different organs, incidence, etiology and management.

**[J] MANAGEMENT OF ADVERSE EFFECTS OF TREATMENT.**

1. Neutropenia and Thrombocytopenia
2. Nausea and Vomiting
3. Diarrhea and Constipation
4. Oral Complications
5. Cardiac complications
6. Gonadal Dysfunction
7. Fatigue
8. Neurocognitive Effects
9. Management of Cancer Pain
10. Nutrition Support
11. Sexual Problems
12. Psychiatric Distress and Resilience
13. Specialized Care of the Terminally Ill

**[K] Recent trials, designs, and its applications**

1. Landmark trials in Oncology
2. ASCO and ESMO 2024/2025 trials and accelerated approval

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