

# M.CH (SURGICAL ONCOLOGY)

[Syllabus Approved by Board of Studies: Medical & Health Sciences]

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<b>Programme Code</b>	:	HLTH10B01
<b>Programme Details</b>	:	M.CH SURGICAL ONCOLOGY
<b>Programme Learning Outcomes (PLOs / PSOs)</b>	:	ANNEXED IN THE BELOW FORMAT
<b>Eligibility Criteria</b>	:	AS PER NMC NORMS
<b>Duration of the Course</b>	:	3 YEARS
<b>Programme Structure (Credit-Based)</b>	:	NA
<b>Detailed Course Syllabus</b>	:	ANNEXED IN THE BELOW FORMAT
<b>Teaching–Learning Methodologies</b>	:	3 YEARS RESIDENCY PROGRAM
<b>Examination &amp; Evaluation System</b>	:	ANNUAL APPRAISALS FOLLOWED BY FINAL YEAR EXAMINATION AS PER NMC NORMS
<b>Internship / Project / Dissertation Guidelines</b>	:	1 YEAR MANDATORY BOND
<b>Program In Charge</b>	:	HEAD, DEPT OF SURGICAL ONCOLOGY Coordinator: Dr. Mahesh Goel mahesh.goel@tmc.gov.in

## M.Ch. (SURGICAL ONCOLOGY)

*Programme Code:* HLTH10B01

*Programme Outcome:*

- To train the surgical candidates in basics of clinical oncology.
- To understand the role of medical and radiation oncologic principles and their role in holistic, multidisciplinary management of cancer patients.
- To provide exposure to the comprehensive management, including diagnosis, planning treatment, be a part of the multidisciplinary team delivering treatment and follow-up of a patient with cancer.
- To build surgical skill set (open & laparoscopic) and early exposure to robotic surgery in various disciplines of oncology.
- To provide a platform for clinical and SOS translational research early in their training to generate interest.
- To provide national and international platform for presentations of clinical/surgical research data.
- The training should produce consultants to practice all over the country, and teachers to propagate training to future generations of trainees in TMC and elsewhere.
- The candidate should complete the training programme as per prespecified norms.
- All the necessary training and mandatory theory are specified in the syllabus of the M.Ch. Surgical Oncology Course.
- The student is expected to participate in the regular appraisal examinations and academic programmes conducted in the institute.
- The purpose would be to acquire an understanding of the subject of surgical oncology in specific and clinical oncology in general.
- The candidate's progress through the 3 years will also be assessed with feedback from all stake holders, including the candidate and work-based assessment.

## DETAILED SYLLABUS

### ▪ INTRODUCTION

Surgical Oncology is a recognized Super-specialty in General Surgery. With the increasing incidence of cancer in our country and with improved methods of management of cancer in the last two decades, it has become very essential to have trained Surgical Oncologists for comprehensive care of the cancer patient.

### ▪ AIMS & OBJECTIVES

The main aim of the training program is to ensure that at the end of 3 years training, the candidate should be acquainted with comprehensive management, research methodology including medical statistics and must:

- Be an independent Consultant / Clinician / Teacher in Surgical Oncology.
- Be a teacher in the discipline, acquainted with current literature on relevant aspects of basic, investigation and clinical oncology.
- Take up research projects in the discipline either clinical or basic aspects as applied to clinical trials with reference to common cancers in our country.
- Render medical care to the individual and the community, integrating preventive, diagnostic, curative and palliative aspects with adequate understanding of sociocultural aspects of the community and knowledge of the epidemiology of common neoplastic disorders in India.

### ▪ PLACE OF COURSE

The course will be conducted at affiliated Medical Colleges / Recognized Institutes.

### ▪ TYPE OF COURSE

The selected candidates will undergo a three year residential training as Residents/ Trainees at the affiliated Medical Colleges / Recognized Institutes as follows.

- **1<sup>st</sup> Year:** 2 month rotation in the various major surgical specialty services in the Dept. of Surgical Oncology as a 1st year residents.
- **2<sup>nd</sup> & 3<sup>rd</sup> Year:** 4 month rotation in six major surgical specialty services in the Dept. of Surgical

Oncology as Senior Residents / Trainees.

- In the 2<sup>nd</sup> & 3<sup>rd</sup> year rotations, the students will also gain exposure to the following specialties:
  - Medical Oncology
  - Radiation Oncology
  - Onco Pathology
  - Radiology
  - Basic Research
  - Stoma/Pain/Rehabilitation Clinics

## ▪ **TEACHING SCHEDULE**

### • **Clinical**

- **Outpatient Teaching Schedule:** The Post Graduate students will attend outpatient clinics as per the schedule of the unit assigned to them.
- **Teaching Ward Rounds:** In addition to daily ward rounds will be conducted by the consultant.
- **Operation Theatres:** The Post Graduate students will attend the operation theatres as per the schedule of the assigned unit where they will assist in or perform operations under supervision.

### • **Academic**

The Post Graduate will attend and actively participate in the following academic activities:

- Formal course of lectures as fixed by the Dept. for the three-year course to cover the entire syllabus.
- Case presentations.
- Seminar / journal club of each specialty service.
- Weekly Hospital Clinical Meetings.
- Mortality meetings.
- All Seminar / Conference / Workshop conducted by the Department.

## ▪ SYLLABUS

Syllabus shall comprise in four parts:

- **Basic Sciences**
- **Principals of oncology**
- **Clinical Practice of Surgical Oncology**
- **Recent Advances in Oncology**

## ▪ **Basic Sciences**

### *Course Outcomes:*

- To be able to understand the basics of cancer biology and molecular pathology.
- To understand the pathophysiology of various neoplastic and pre-neoplastic processes.
- To understand the newer advances in molecular diagnostics
- To develop the insight and ability to apply this knowledge in the field of clinical and translational cancer research.

## ▪ **Principals of Oncology**

### *Course Outcomes:*

- To understand the multidisciplinary management of cancers and basic principles of medical and radiation oncology so as to provide the best treatment option to patients.
- To be able to provide complete oncologic care in future practice.
- To be able to grasp the basics of biostatistics and conduct of clinical research and randomised controlled trials.
- To learn planning of evidence based neoadjuvant and adjuvant chemo-radiation protocols so as to help and guide patients with cancer to choose appropriate modality of treatment.

## ▪ **Clinical Practice of Surgical Oncology**

### *Course Outcomes:*

- To diagnose, stage and plan appropriate evidence based surgical procedure.
- To understand the principles of surgery for cancer, the radicality of the surgeries involved,
- To learn the nuances of pre-operative, work up and post-operative care

## ▪ **Recent Advances in Oncology**

### *Course Outcomes:*

- To understand newer modalities and advances in surgical care such as use of microscopes, imaging devices, laparoscopic equipment and robotics.
- To have a basic working knowledge of next generation molecular biology techniques.
- To be aware of recent advances in diagnostic imaging and adjuvant modalities in cancer

## ▪ **INTERNAL ASSESSMENT**

- A Postgraduate student Logbook will be maintained as prescribed by the University.
- A Log book of operations assisted in and performed will be maintained & periodically signed by the teacher (computerized).

**Internal assessment will be carried out while student rotates through each subspecialty (Head/neck, breast, thoracic, Gastro-intestinal, genitourinary, gyanecology, bone & soft tissue, neurosurgery and paediatric oncology services)**

## ▪ **ELIGIBILITY FOR EXAMINATION**

The candidate will be eligible to appear for the M. Ch. Examination in Surgical Oncology conducted by the University only after certification of the following:

- Completion of three years of Resident training.

- Satisfactory attendance at Clinical / Academic sessions as duly certified on the logbook by the teacher. A minimum attendance of 85 % is mandatory.

## ▪ **EXAMINATION**

### • **Board of Examiners**

Four Examiners: Two internal & two external All examiners all be Surgical Oncologists

### • **Assessments of candidates & results**

- Assessment of theory, clinical, practical and viva–voce examination shall be done jointly by all the examiners.
- A candidates shall be declared to have passed the examination if he /she has an adequate knowledge in all subjects as answered by Theory /
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- clinical / practical and viva–voce examination and there shall be no classification or ranking of successful candidates. However, candidates of excellent performance could be recommended for award for distinction.
- A candidates who fails in an examination shall appear as a casual student for subsequent examination.
- The Board of examiners shall have the power to refer failed candidates for one year or to put in attendance for one term i.e. Six months before
- appearing for the ext examination.