

CERTIFIED FELLOWSHIP IN ORTHOPEDIC ONCOLOGY

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

Programme Code	:	HLTH14A14
Programme Details	:	2-YEARS HBNI CERTIFIED FELLOWSHIP IN ORTHOPEDIC ONCOLOGY
Programme Learning Outcomes (PLOs / PSOs)	:	MENTIONED [COMMON FOR ALL 2 YRS HBNI CERTIFIED FELLOWSHIPS OFFERED AT TMC]
Eligibility Criteria	:	MS/DNB (ORTHOPEDICS) WITH 1- YEAR EXPERIENCE.
Duration of the Course	:	2 YEARS
Programme Structure (Credit-Based)	:	NA
Detailed Course Syllabus	:	ATTACHED
Teaching–Learning Methodologies	:	2 YEARS PROGRAM
Examination & Evaluation System	:	ANNUAL APPRAISAL FOLLOWED BY UNIVERSITY FINAL EXAMINATION
Internship / Project / Dissertation Guidelines	:	NA
Program In Charge	:	PROF. AJAY PURI docpuri@gmail.com

CERTIFIED FELLOWSHIP (ORTHOPEDIC ONCOLOGY)

Programme Code: HLTH14A14

Programme Outcome:

- The HBNI Fellowship Programmes at Tata Memorial Centre are designed to develop competent, ethical, and academically oriented healthcare professionals with advanced knowledge and skills in their respective specialties and subspecialties.
- At the completion of the fellowship, candidates are expected to demonstrate excellence in clinical practice, patient-centred care, multidisciplinary teamwork, communication, professionalism, and evidence-based decision-making.
- Fellows shall acquire the ability to independently evaluate, diagnose, plan, and manage patients while adhering to institutional protocols, quality standards, patient safety practices, and ethical principles in healthcare delivery.
- The fellowship programmes also aim to foster academic growth, research aptitude, lifelong learning, and leadership qualities among trainees.
- Fellows are expected to actively participate in teaching, seminars, journal clubs, conferences, audits, and research activities, thereby contributing to the advancement of medical science and institutional development.
- Upon successful completion of the programme, the fellow should be capable of functioning independently as a skilled specialist/subspecialist with competence in clinical services, academics, research, and collaborative healthcare practice in tertiary care and oncology-focused settings.

DETAILED SYLLABUS

The HBNI accredited Musculoskeletal Oncology fellowship provides comprehensive training and skill development for managing benign, malignant and metastatic diseases affecting the musculoskeletal system. It is a surgical fellowship that combines clinical care of inpatient, outpatient, emergency and elective cases, didactic teaching sessions, exposure to regional, national and international conferences, opportunities for basic science and clinical research and guidance for peer reviewed publications.

▪ **Program objectives:**

- To instill the ethos of practicing evidence based management and to train the candidates in all relevant disciplines of orthopedic oncology including
- Diagnosis
- Surgery
- Reconstruction and rehabilitation
- Radiation
- Chemotherapy
- Palliative care
- Clinical research methodologies
- Basic research
- Tissue Banking

▪ **Specific Learning Objectives:**

- General principles of bone and soft tissue tumors including tumor classification, staging and prognosis and clinical evaluation
- General principles of epidemiology with specific emphasis on the epidemiology of bone and soft tissue tumors
- Principles of tumor biopsy and their applications Knowledge of specific tumor histology
- Outline of treatment plan for specific tumors including the selection of the surgical procedure, chemotherapy and radiotherapy
- Knowledge of the indication, benefits and complications of the different reconstruction alternatives used in tumor surgery.

- Surgical training to include the safe performance of the various surgical procedures relevant to orthopedic oncology.
- Knowledge of the specific prognosis of bone and soft tissue tumors accounting to staging, treatment and complication.
- Management of the complications of cancer treatment relevant to orthopedic oncology
- Reconstructive procedures in orthopedic oncology
- Principles of treatment in metastatic bone disease including palliative care and pain control
- Knowledge about quality of life, function and health status for the bone and soft tissue tumors population
- Ability to identify and answer the specific needs of cancer patients including those at palliative stage
- Ability to show empathy, availability, support and compassion to patients and family. General principles of patient rehabilitation
- Principles and basics of tissue banking including graft harvest , processing, storage, usage and documentation

The above objectives are achieved by a structured training program as detailed below

▪ **Schedule:**

- The week has 3 minimum days for surgery (Monday, Wednesday, Friday, every alternate Saturday) and 2 and a half outpatient days (Tuesdays, Thursdays and half day on Fridays)
- Biopsy OR is scheduled at the end of each OPD -Tuesday and Thursday Minor OR for biopsies and minor interventions is scheduled on Fridays.
- Daily clinical rounds
- Each Tuesday a multidisciplinary joint outpatient clinic for treatment decisions with participation from pathology, radiology, nuclear medicine, medical, radiation and surgical oncology.
- Thursday evenings a radiology, pathology, surgeon joint clinic for cases with diagnostic dilemmas
- Every alternate Saturday morning a journal club
- A panel session coordinated and conducted by residents is held frequently on Saturday mornings

▪ **Practical and Clinical Training:**

Fellows regularly assist and perform major and minor surgeries under the supervision of the concerned consultants. They keep a log book of the procedures performed and assisted which are monitored by the consultant.

▪ **Conference presentations & publications:**

various local, national and regional conferences date the calendar year. Fellows are encouraged to present work under the guidance of faculty at these. Tata Memorial Centre prides itself on high quality abstracts, a large proportion of them converting to publications and fellows are encouraged to actively participate in these efforts.

▪ **Evaluation:**

The fellowship has periodic work based assessment, appraisal exams at regular intervals and a final exit exam at the end of 2 years.