CERTIFIED FELLOWSHIP IN PLASTIC & RECONSTRUCTIVE ONCOLOGY

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

Programme Code	:	HLTH14A18
Programme Details	:	2-YEARS HBNI CERTIFIED FELLOWSHIP IN PLASTIC & RECONSTRUCTIVE ONCOLOGY
Programme Learning Outcomes (PLOs / PSOs)	:	MENTIONED [COMMON FOR ALL 2 YRS HBNI CERTIFIED FELLOWSHIPS OFFERED AT TMC]
Eligibility Criteria	:	MCH/DRNB (PLASTIC & RECONSTRUCTIVE SURGERY).
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. VINAY SHANKHDHAR (*vinayshankhdhar@gmail.com)*

CERTIFIED FELLOWSHIP (PLASTIC & RECONSTRUCTIVE ONCOLOGY)

Programme Code: HLTH14A18

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-centered 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

Onco-Reconstruction and Microvascular Skills Development Program

- **Location Hospital Name:** Tata Memorial Centre, Mumbai (TMH + ACTREC)
  - Tata Memorial Hospital, Parel (TMH)
    Dr. Ernest Borges Marg, Parel, Mumbai – 400012, Maharashtra, India.
  - Advanced Centre for Treatment, Research and Education in Cancer (ACTREC)
    Sector 22, Utsav Chowk - CISF Rd, Owe Camp, Kharghar, Navi Mumbai, Maharashtra 410210, India.

- **Eligibility:** MCH/DRNB (PLASTIC & RECONSTRUCTIVE SURGERY).

- **Duration of Training:** 2 yrs fellowship

- **Objective:** The 2yr HBNI Microvascular Fellowship Program at Tata Memorial Centre, Mumbai, India is designed to provide advanced hands-on training in microvascular surgery and cancer reconstruction for post-graduate plastic surgeons. The program aims to equip fellows with the skills and expertise necessary to independently manage complex microvascular cases, with a focus on cancer reconstruction especially head and neck, breast, and sarcoma reconstruction.

- **Unit Structure:** The Department of Plastic, Reconstructive and Microvascular Surgery at Tata Memorial Centre Mumbai India spearheads reconstructive services at Tata Memorial Hospital, Parel, ACTREC, Kharghar, and other non-Mumbai cancer centers across India, like Vizag, Varanasi, Guwahati, and Mullanpur. We also run a residency program - M.Ch. degree course in Plastic Surgery with 6-residents intake per year. In addition to residents, we have registrar and fellowship posts (4-candidates per year). The average number of free flaps done across the centers ranges around 110-120 per month for head and neck, breast, and sarcoma reconstructions.

- **Faculty details:**

1. Prof. Vinay Kant Shankhdhar (Prof and Head of the department)
2. Prof. Dushyant Jaiswal
3. Prof. Saumya Mathews
4. Dr. Mayur Mantri
5. Dr. Ameya Bindu
6. Dr. Vineet Pilania
7. Dr. Kunal Mokhale
8. Dr. Mayank Mandavgane

- **Curriculum:**
  - Microvascular techniques and instrumentation
  - Flap design and harvest of commonly and uncommonly performed free flaps
  - Microvascular anastomosis
  - Nerve repair and reconstruction
  - Cancer reconstruction (e.g. breast, head and neck, extremity)
  - Free tissue transfer and locoregional flaps
  - Lymphedema surgery
  - Secondary corrective procedures for rehabilitation post cancer treatment
  - Function restoring procedures for extremity sarcoma resections

Experience under supervision during training

- **Clinical**
  - Participate in loco regional and microvascular reconstruction cases of head and neck malignancies (average total of 80 cases of head and neck free flaps per month)
  - Breast cancer reconstructions (around 10 cases of whole breast reconstruction and 15 cases of partial breast reconstruction and breast oncoplasties per month)
  - Sarcoma reconstruction (Bony and soft tissue reconstruction) (Around 15 cases per month)
  - Lymphedema surgery and supermicrosurgery, and secondary reconstructions
  - Assist and perform microvascular procedures under faculty supervision
  - Manage microvascular patients in the ICU and ward settings
  - Participate in weekly joint clinics and disease management groups (DMGs) for evaluation and decision-making in OPDs

- **Education:**

  (Candidates to participate in all academic activities of the department
  - Case presentations
  - Monthly journal clubs and literature reviews
  - Protocol presentations
  - Seminars
  - Quarterly visiting professor lectures
  - Annual meeting and workshop on Cancer reconstruction - 'Onco recon', national meeting and video workshop for microvascular cancer reconstruction
  - Organising and attending national Plastic Surgical and Reconstructive microsurgery meetings

- **Research:** The candidate is encouraged to participate in the research projects and publications

- **Clinical governance:** Regular attendance at hospital morbidity and mortality meetings.

- **Laboratory microvascular training:** One-week training in the laboratory.
  - Videos on the anastomosis techniques (end to end and end to side)
  - Dry lab – Two days of training on the gloves and tubes

- Wet lab – Third day onwards - chicken veins/placenta/rats.
- MARS Scoring and certification on successful completion of the microvascular training program.

- **<u>Evaluation and Assessment</u>:**
  - Regular evaluation of the Logbook, which the fellow has to maintain from day 1 until the day of completion of the course.
  - Regular feedback and evaluation by faculty
  - Quarterly audits and progress assessments
  - Fellowship exit exam (Theory + Practical) at the end of 2 yrs
  - Final project presentation/research publication (e.g., research article, case series)