

CURRICULUM AND SYLLABUS

FOR

**TWO YEARS POST GRADUATE FELLOWSHIP PROGRAMME IN
SURGICAL ONCOPATHOLOGY**

JOINTLY CONDUCTED BY

**DR. B. BOROOAH CANCER INSTITUTE,
A REGIONAL CANCER CENTRE, GUWAHATI**

AND

TATA MEMORIAL HOSPITAL, MUMBAI

Surgical oncopathology fellowship –curriculum

Surgical pathology is that branch of pathology which thrives on meaningful corporation between surgeons and pathologists. In the era of growing knowledge and advent of various marker for diagnosis and prognosis of cancer, pathologist are expected to provide information about prognosis and prediction based on routine biopsy on morphology combined with IHC, sometimes molecular study too. In essences pathology play the role in bridging between laboratory and clinical care.

Increasing cancer incidence is one of the commonest health problem in India specially in north-east India . The demand for oncology care and diagnostic procedures continue to increase driven by an increasing incidence of various cancer and cancer screening. The primary aim of examining pathology specimens is to provide physicians and surgeons with essential diagnostic and prognostic information allowing the best clinical management of the individual patient. Moreover, there are many research scopes in the field of oncopathology for future perspective. Along with general public awareness and better screening tool, we require trained pathologist for early diagnosis and providing prognostification of cancers in our country

Analysing all these, the department of pathology Dr. B. Borooah cancer institute, a regional cancer centre, North- East India offers two years fellowship in surgical oncopathology to give more emphasis to practical aspects than theoretical training. The course is designed to offer 22 months of training at Dr. B. Borooah cancer institute, Guwahati and 2 months of training at Tata memorial hospital, Mumbai and certificates will be issued with signed by both the directors.

GOAL

The goal of the fellowship is to provide broad exposure and experience in all aspects of surgical oncopathology with a focus on managing cases and communicating with clinicians while developing the confidence to tackle independently the day to day responsibility of a practising surgical oncopathologist.

Eligibility :

Post graduate degree /diploma in Pathology (MD/DCP) from a recognized university

Mode of selection

Academic records and personal interview by selection committee

Training programme

The training programme encompasses:

1. grossing of routine and complex surgical oncopathology resection specimens
2. reporting of surgical oncopathology biopsies both small and complex radical specimens
3. frozen section reporting
4. reporting of fine needle aspiration cytology including image guided
5. training in techniques of IHC

6. interpretation of immunohistochemistry
7. rotational posting in molecular pathology laboratory for acquaintance with basic techniques of PCR and FISH
8. clinical research methodology and its application in oncopathology research
9. accreditation and quality assurance related programs

Training schedule outline

Module of the course	Surgical pathology	10
	Cytology	10
	Haematology	2 months at TMH
	Other divisions (IHC lab, molecular pathology lab..etc)	2
Assessment	Final examination consists of theory and reporting of slides and viva	
Award	Certificate will be issued after successful completion of the course	

Rotation in histology lab, IHC lab and molecular lab is aimed at gaining first - hand experience in lab techniques and quality assurance.

After evaluation of the fellow, he/she will be progressively allowed to sign out report independently. While covering for posting, the fellow is expected to perform literature searches and review articles when appropriate to address questions about current reporting, cases and also to develop ideas for projects.

During the two year period, the fellow is expected to undertake a minimum sign out in

Routine reporting-50 cases

Biopsy reporting (IHC / non IHC): 50 cases

Frozen section: 25 cases

FNAC: 25 cases

Educational activities:

The fellow will be expected to take part in educational activities of the department like topic discussions, slide seminars, journal clubs etc. During the two years course, the fellow is expected to undertake a minimum of

Seminar 4

Journal club 5

Slide meet 5

Gross meet 10

The fellow has the opportunity to present cases and papers at local, national or international conferences and minimum of one paper or poster presentation is must. At last one publication is a must during this period in a national or international journal.

Summative assessment

Ratio of marks in theory and practical will be equal

The pass percentage will be 50%

Candidate will have to pass theory and practical examinations separately

A. Theory examination (total =400 marks)

Paper I: general principles of pathology, pathophysiology, immunology including applied pathology

Paper II: Haemato- pathology and cytopathology

Paper III: Systemic oncopathology

Paper IV: Recent advances and molecular pathology

B. Practical and viva-voce examination (total=400 marks)

Practical examination is conducted over two days and the student evaluated out of 400 marks which is distributed as follow:

Day 1: a. grossing and histopathology technique (20 marks)

b. interpretation of histopathology slides (50 marks)

c. interpretation of IHC along with H&E (50 marks)

Day 2 : a. Interpretation of haematology slides – PBS and Bone marrow (100marks)

b. interpretation of pap smear and cytology smear (100 marks)

c. Grand viva (80 marks)

Recommended list of books

1. Basic pathology by Robin's
2. Surgical pathology by Ackerman
3. Sternberg's diagnostic surgical pathology
4. WHO Fascicles
5. AFIP, Atlas of tumour pathology
6. Soft tissue tumours by Enzinger & Weiss
7. Anderson's Pathology by Ivan Damjanov
8. Diagnostic cytology and its histopathologic basis by Koss
9. Wintrobe's clinical haematology by Greer J.P et al
10. Postgraduate hematology by Hoffbrand
11. Theory and practice of Histological techniques by D. Bancroft
12. Interpretations of Breast biopsies-carter
13. Morson and Dawsons gastrointestinal pathology
14. Ioachim H.L, lymphnode pathology
15. Blaustein's pathology of female genital tract
16. Rosen's pathology of breast
17. Atkinsons Atlas of diagnostic pathology

List of journals

1. Indian journal of pathology and microbiology
2. Indian journal of cytology
3. Indian journal of haematology and transfusion medicine
4. Cytopathology
5. Indian Journal of Cancer
6. Acta cytological
7. Archives of pathology

8. British journal of haematology
9. Blood
10. American journal of pathology
11. Human pathology
12. Cancer
13. WHO bulletin published by WHO
14. Indian journal of Urology