

ANNUAL REPORT 2009
Department of Pathology
Bangabandhu Sheikh Mujib Medical University
Shahbag, Dhaka 1000, Bangladesh.



Department of Pathology was established in 1965 as one of the departments of Institute of Postgraduate Medicine and Research (IPGM&R) in a small room of college building of Dhaka Medical College Hospital. Later in 1971, the department was shifted to the third floor of B-block of former IPGM&R. Subsequently the department was finally established in the fourth and fifth floors of B-block and later incorporated as a department of BSMMU during its inception in April 1998.

In the beginning, only histopathology service was provided. Later, cytopathology service was introduced from 1973.

A. Faculty

Chairman: Prof. Mohammed Kamal, MBBS, MPhil, MSc, PhD, FCPS
Prof. A. J. E. Nahar Rahman, MBBS, MPhil, FCPS
(On LPR from 29 June 2009)

Professors: Prof. Ashim Ranjan Barua, MBBS, MPhil
Prof. Kamrul Hasan Khan, MBBS, MPhil

Associate Professor: Dr. Tamanna Chowdhury, MBBS, MPhil

Assistant Professors: Dr. AKM Nurul Kabir, MBBS, MPhil
Dr. Ferdousy Begum, MBBS, MD
Dr. Suraiya Enam, MBBS, MD
Dr. Sultana Gulshana Banu, MBBS, MD
Dr. Saequa Habib, MBBS, MD

Academic courses:

The initial postgraduate degree offered by the department was MPhil in Pathology under Dhaka University from 1968. From 2007, M.Phil. course has been discontinued. The course duration was for two years including submission a thesis in the final year. In 1998 MD course was introduced in Pathology. The course is of five year duration and consists of fulltime departmental attachment ensuring students' regular participation in histopathology and cytopathology reporting, grossing of everyday specimens, fine needle aspiration of enrolled cases, departmental tutorials, journal clubs and slide seminar sessions. In the final part which is for two years, the students have to submit a thesis before appearing in the final examination which consists of written papers, viva voce and practical sessions. FCPS Histopathology part 2 course students also come to this department for their training and second part of the course. At present, the department has a total of 30 students including MD Pathology students and trainee as well as MPhil Pathology (last batch) students.

PATHOLOGY COURSE STUDENTS AND TRAINEE IN 2009

Total number number of students:	30
MD Pathology final part:	7
MPhil Pathology final part:	5
MD Pathology part II:	1
MD Pathology trainee:	5
MPhil Pathology part II:	2
MD Pathology part I:	10

Academic activities

1. Lectures: Lecture classes on different topics of general pathology were delivered to MD, MS, MPhil, Diploma and FCPS students of various disciplines of BSMMU (one hour each, three days a week).

2. Tutorials: Tutorial classes were arranged at the department for students of pathology, dermatology and dental surgery.
3. Journal clubs: Departmental students were encouraged regularly to make presentation on different interesting topics followed by discussion (one every week, total 15 held).
4. Slide seminars: Departmental students were given interesting/ difficult/ rare unknown cases of histopathology and cytopathology slides with brief history, usually one set per week, to make diagnosis on their own. The slides were discussed under multihead microscope with official diagnosis and relevant theoretical aspects (total 22 in number).
5. Protocol presentation: Departmental final part students presented thesis protocol before finalising their thesis topic. Relevant clinical teachers were invited to join (Five in number).
6. Thesis progress evaluation: Evaluation of progress in thesis was done by the faculty with constructive criticism and modification (once a month).
7. Interdepartmental clinicopathological conference: Interesting or controversial or rare cases were presented and discussed in collaboration with relevant clinical departments (2 in number).
8. Special lecture: A special lecture was made by Guest speaker Dr. Obaidul Haque of John Hopkin's University, USA on 'Tissue Banking' on 17 Dec 2009.

Research and Publications

Submitted thesis:

- i) A study on pigmented lesions of skin with clinicopathological correlation. Dr. Shahnaz Begum, July 2009. Supervisor: Prof. A. J. E. Nahar Rahman.
- ii) A Study on Histomorphology of liver biopsy in patients with chronic hepatitis B infection to see the effect of HBV DNA level and HBeAg. Dr. Mossammat Naznin Nahar 2009. Supervisor: Prof. A. J. E. Nahar Rahman.
- iii) Study on Spectrum of Histomorphological Changes in Gastritis in Gastric biopsy specimens. Dr. Ali M 2009. Supervisor: Prof. Mohammed Kamal.
- iv) Study on Association of Nerve Proliferation with Gallbladder Pain in Chronic Cholecystitis. Dr. Hossain KM 2009. Supervisor: Prof. Mohammed Kamal.
- v) A Study on Histomorphological Patterns of Thyroid Swelling. Dr. Nasrin Nahar 2009. Supervisor: Prof. A. J. E. Nahar Rahman.

Publications

- i) Suraiya E, Kamal M, Khan M, Rahman S, Mahtab MA. Lamivudine causes reduction of Histological Activity Index and Viral load in liver biopsies in patients with chronic hepatitis B infection. Journal of Clinical and Experimental Medicine 2009; 3; 109-117.
- ii) Sultana J, Molla MR, Kamal M, Shahidullah M, Begum F, Bashar MA. Histological differences in wound healing in Maxillofacial region in patients with or without risk factors. Bangladesh Journal of Pathology April 2009; 24(1); 9-11.

- iii) Ahmed MM, Choudhury T, Sultana A, Begum R, Islam S, Ahmed I. Necrobiotic Xanthogranuloma – A Case Report. Journal of Pakistan Association of Dermatologists 2009; 19; 175-177.
- iv) Habib S. A Case of Mosaic Down Syndrome. Bangladesh Journal of Pathology April 2009; 24(1); 28-30.
- v) Mamun Al Mahtab, Salimur Rahman, Mobin Khan, Md. Fazal Karim, M. Kamal. Comparison between HBeAg positive and HBeAg negative Chronic Hepatitis B in Young Bangladeshi patients. Bangladesh J Hepatol 2009;1(1); 10-14.
- vi) Mamun Al Mahtab, Salimur Rahman, Ananta Shrestha, M. Kamal, Mobin Khan, A. K. M. Fazlul Huq, Uttam Kumar Barua. Case Report of Autoimmune Hepatitis from a Tertiary Centre in Bangladesh. Bangladesh Liver Journal 2009; 1(1); 53-54.
- vii) F Moslem, M Fariduddin, M Ali, MN Alam, SS Karim, M Kamal. Ultrasonographic characteristics of malignant thyroid nodule. Bangladesh Journal of Medicine 2009; 20(2); 64-67.
- viii) Mamun Al Mahtab, Salimur Rahman, Mobin Khan, Md. Fazal Karim, M. Kamal. Liver Histopathological Features of HBeAg negative Chronic Hepatitis B in Young Bangladeshis. Hepatitis Monthly 2009; 9(1); 29-33.

Submitted projects

Project title: Establishment of Tissue Bank at the Department of Pathology, BSMMU

Principal Investigator: Prof. Mohammed Kamal, Chairman & Professor, Department of Pathology, BSMMU

Co-investigator: Dr. Suraiya Enam, Assistant Professor, Department of Pathology, BSMMU

Technical Adviser: Dr. Md. Obaidul Haque, Assistant Professor, John Hopkins University, USA

Submitted to Bangladesh Medical and Research Council (BMRC).

2. DNA methylation in colorectal carcinoma. Collaboration study proposed with the University of Chicago, IL, USA.

3. Morphological studies on caseation necrosis. In collaboration with 'Tuberculosis Laboratory', ICDDR,B.

C. Services provided

1. Histopathology: Total specimen 7890

2. Cytopathology: Total specimen 9022

- Cervical smear: 1900
- Cytology of body fluid and sputum: 322
- Fine needle aspiration (FNA): 6764
- Image guided FNA: 36

- 3. Frozen section: 82
- 4. Direct Immunofluorescence test: 274
- 5. Immunohistochemistry: 49
- 6. Cytogenetics: 139

D. Quality control programme

- 1. Consensus meeting: Everyday the difficult, unusual or rare cases are seen and discussed by all the consultants altogether to make the final diagnosis.
- 2. Malignancy Board: Everyday, as a precautionary measure, the malignant cases are confirmed by a board comprising of several consultants.
- 3. Histopathology and Cytopathology audit: Once in every month, cases of histopathology and cytopathology are drawn at a random and reviewed by all the consultants to find out discrepancy or errors.
- 4. Laboratory audit: Once in every month, the consultants all sit together to review the total number of each of the departmental services including histopathology, cytopathology, immunohistochemistry, immunofluorescence, frozen section and cytogenetics. And also to find out whether there is any problem concerning any of those services and to discuss measures to solve the problem.
- 5. Cytopathology service streamline: Cytopathology reports are now given on the second day considering the day of collection as the first day. There are two FNA collection rooms which are open from 8 am to 4 pm every working day.

E. Plan for 2010

- 1. Histopathology reporting expedition through institution of automatic tissue processor.
- 2. Streamlining histopathology reports.
- 3. Expansion of immunohistochemistry service.
- 4. Expansion of cytogenetics service.
- 5. Joint protocol development with University of Chicago/Preparation of MOU
- 6. Preparation of teaching modules for residency based programme.
- 7. Procurement of microtome, cryostat machine, and multihead microscope.
- 9. USG guided FNA facility.
- 10. Institution of two modern gross stations.
- 11. Institution of autostainer for histo and cyto slides.