

REFERRAL SERVICES

HISTOPATHOLOGY LAB

The Histopathology Laboratory received 2712 surgical pathology specimens during the year under report. These specimens included 1132 skin biopsies, 139 breast lesions, 188 Prostate biopsies, 117 Kidney biopsies, 60 Urinary Bladder biopsies, 210 Head and Neck biopsies, 125 GIT biopsies, 195 Female genital tract, 68 bronchial biopsies, 90 CNS Lesions, 85 Bone Marrow Biopsies, 32 Soft tissue tumours and the remaining were miscellaneous biopsies.

Special histochemical stains and immunohistochemistry is routinely being done for diagnostic purpose. In addition, IF and EM examination is also done as necessary.

Preparation of teaching histopathology sets for undergraduate and post graduate students of other institutions are also being made at this lab.

Staff: Dr. Sujala Kapur, Dr. Avninder Singh, Dr. Sharmila Mishra, Mr. Surander Pal, Mrs. Karuna, Mrs. Krishna, Mr. Shivraj Singh, Mr. Ishwar Singh, Mrs. E. Sharda, Mr. Daya Sagar & Mr. Anil Verma.

CYTOPATHOLOGY LAB

The cytopathology laboratory caters to the patients referred by the clinicians of Safdarjang Hospital. In the year under report, 542 cases of FNAC of palpable masses, 40 radiologically guided aspirates, 40 cases of fluid cytology and 78 Pap smears were received. Routine stains like Giemsa are employed for all cases and Pap, PAS, mucicarmine, Alcian Blue and AFB were used as necessary.

Staff : Dr Usha K. Burra, Dr. Bharat Rekhi, Ms. Mariamma Jaganath, Mr. Satpal, Mr. Raj Singh

ELECTRON MICROSCOPY LAB

Electron Microscopy lab receives samples for ultrastructural diagnosis from various hospitals in Delhi. Sample for ultrastructural studies are also received from different research institutes and universities from Delhi and other states. In addition several scientist

in the Institute also use EM for their research work. During the year under report, 80 samples were received and processed for electron microscopy.

**Staff: Dr. Arun Kr Jain, Mrs. Asha Rani Srivastava, Mrs. Anita Bhatia,
Mr. Madan Lal**

HIV/AIDS LAB

From April 2003 to March 2004, a total of **3636** blood units were received from blood banks for screening of HIV and HCV. Of these, 325 blood units were received from volunteer blood donors and 3311 from replacement donors. The positivity for HIV was found to be 0.68% while for HCV the positivity was 0.990%.

Staff: Dr. A. Mittal, Mrs. Rosamma, Mrs. Bindu and Mr. Chandrika Prasad.

CONFOCAL LASER SCANNING MICROSCOPY LAB

Total of **270** images were acquired on confocal laser scanning microscope to study ER/PR expression of human/mouse sperm cells, Chlamydia inclusion bodies in endocervical cell samples, macrophages interaction with mycobacterium leprae,.

Staff: Dr S. Saxena, Dr. S. Varma, Mr. P. D. Sharma and Mr. Rajinder Kumar

FLOWCYTOMETRY LAB

In total **2,074** samples of blood, cervical cells, kala azar patients, sperm cells, leukemic patients, TB bacteria were acquired and analysed for surface antigen expression, intracellular cytokine response, ER/PR expression and apoptosis.

Staff: Dr Aruna Mittal. Dr. S. Varma, Mr. P.D. Sharma and Mr. Rajinder Kumar

TUMOR BIOLOGY LAB

A total of 911 specimens were received in tumour biology lab during the year under report for diagnostic and referral services, from Departments of Cancer Surgery, Urology and Surgery of Safdarjang Hospital and also other hospitals of Delhi. Of these 610 specimens were from Department of Cancer Surgery and Department of Surgery comprising of 114 breast specimens, 15 ovarian specimens and rest other soft tissue specimens. From the Urology Department, 301 specimens were received. Out of these 169 being prostate and

65 bladder specimens. Blood has been collected from 39 patients of familial or early age onset breast cancer, for genomic analysis. 25 cases of urinary bladder cancer have been studied for cytotoxicity assessment. Besides 97 kidney biopsies have been received from Department of Nephrology, Safdarjang Hospital, Kalawati Saran Hospital and R.M.L. Hospital for light microscopic, immuno-fluorescence and electron microscopic examination.

Staff: Dr. Sunita Saxena, Dr. Anju Bansal, Dr. Zahida Qamri, Mr. Jagdish Pant, Mrs. Valsamma Mathews, Mr. Sazid Hussain.

MOLECULAR BIOLOGY LAB

During the year 50 blood samples and 20 bone marrow samples were obtained from kala-azar patients and 12 tissue samples and 12 blood samples were collected from PKDL patients. These samples were analysed for detection of *Leishmania donovani* by PCR, Elisa and DAT.

Staff: Dr. Poonam Salotra, Mr. G. Sreenivas, Mr. N. A. Ansari, Ms. Ruchi Singh, Mr. B V S Raju, Mr. P. D. Sharma, Mr. Anish Saxena, Mr. Ramchander Chhetri

TISSUE CULTURE / MICROBIOLOGY LAB

During the year, a total no. of 250 clinical swabs (endocervical/urethral) were collected for detection of *C. trachomatis* infection & other STD pathogens by different assays.

Staff: Dr. A. Mittal, Dr. S. Rastogi, Mrs. Madhu Bhadwar, Mrs. Asha Rani, Mr. Ajit Lehra, Mr. Kamal Dev.

CELL BIOLOGY LAB

This Lab has been established to develop keratinocyte culture for application in burns. The lab has a dedicated Tissue Culture lab with equipment conforming to Bio Safety Level-2. In addition, the Lab has also been engaged in activities towards the establishment of Mycoplasma quarantine protocol for cell cultures.

Staff : Dr. L.K. Yerneni.

BIOCHEMISTRY / DCP LAB

Biochemistry lab has Direct current plasma atomic emission spectrometer. It is mainly involved in trace element analysis and analysis of organic pollutants.

Staff: Dr. Jagjit Kaur Sindhu, Dr. Madhu Bhatnagar, Mr. T. D. Joshi, Mrs. Kamlesh, Mr. Manoj Sejwal

ANIMAL HOUSE

The IOP animal facility continues to cater the needs of the IOP scientists. In accordance with the CPCSEA guidelines, the least number of animals that are necessary to maintain the stock in addition to the actual number of animals used for experimentation are only maintained at the Animal House.

Surgical techniques including 'tail grafting', Intra ovarian bursa administrations and intra-uterine administrations, were successfully introduced as required in the research projects.

The stock of animals maintained at the IOP Animal House, as on 31-3-2003 included 183 Balb c mice and 24 – C₃H mice.

Staff: Dr. S. Jayaraman, Mr. Kuldeep Sharma, Mr. Bala Dutt.

MEDICAL EDUCATION TECHNOLOGY DIVISION

Medical Education Technology division continued its task of preparing teaching-aids and transparencies for distribution to various medical colleges in the Country. A total number of 35 teaching-atlases were distributed to various medical colleges. Some of the existing teaching-atlases are in the process of being updated and converted in digital format. On request from Principal, Vardhman Mahavir Medical College, Safdarjang Hospital, 10 teaching atlases in pathology were supplied for teaching undergraduate medical students. Similarly, 12 teaching sets were supplied to Seema Dental College, Rishikesh. Interesting lesions were collected and photographed for making new teaching sets. In addition to the above activities, MET division continued to help post-graduate students in publications work and preparing photographic material for their thesis. It was also involved in preparation of transparencies of charts, gross-specimen, clinical photographs of patients, X-ray etc. from various national and international Conferences.

Participation in Scientific Exhibition

MET division provided Audio-visual facilities for the various scientific activities held at Institute from time to time. It collaborated with the publication and information division of ICMR in providing high-quality display material, which is proposed to be displayed in metropolitan cities of the country.

Name and number of teaching sets sold during the year

Sl. No.	Name of the set	No. of sets sold
1	Gross specimens	4
2	Bone tumour	3
3	Tumours of salivary gland	2
4	Colposcopy set	2
5	Dermatopathology	3
6	E.N.T. set	3
7	General Pathology	4
8	Human Microanatomy	4
9	Malignant tumours of soft tissues	3
10	Breast lesions	2
11	Renal disorders	1
12	Growth abnormalities and Neoplasia	4
	Total	35

Staff: Mr. Ramesh Joshi, Mr. Prem Sagar Sharma, Mr. Moti Lal, Mr. Chandi Prasad, Mr. Pushapraj, Mr Suresh.

LIBRARY

The Institute's Library continues to cater the needs of the Institute's staff, students and the research staff by subscribing **57** specialized journals. The faculty of the Safdarjang Hospital is also using the facility. The library also serves the scientists staff, DNB and Ph.D. students, WHO fellows trainees by getting books, journals and reprints through inter-library loan from National Medical Library, INSDOC Safdarjang Hospital Library, NIC and others requested by the Administrative staff of the Institute. The photocopying facility for the scientists is being continued.

The Bulletin Board at the Library displays the scientific reports published during the week in the Newspapers. The Bulletin Board is updated on weekly basis.

The Institute library has **2800** books pertaining to pathology, Computer Science, Electron Microscopy, Confocal Microscopy, sub branches of Pathology and other specialized Medical subjects. The MEDLINE service Offline (1966- till date) and PUB-MED Online services are also provided for the scientific staff of the Institute . The facility allows the user to be more flexible in getting their needs.

Attempts are being made to provide Medline (On-Line) services to the Scientific staff. Library Automation facility is being introduced. The system is currently under test and will become fully operational in the near future.

The IOP Newsletter (Quarterly) is being continued and till 31st March 2004, **Seven** issues have been published and distributed.

Staff: Dr. S. Jayaraman, Mrs. Anita Sharma, Mrs. Sangeeta Batra, and Mr. Dharmender.

COMPUTER DIVISION

During the year under report, the staffs of computer section have made every effort to maintain the spirit of various activities. The upgraded facilities in the computer section have added newer dimensions to the set up and in the quality of output.

Staff: Dr. Arun Kr Jain, Mr. Shiv Prakash and Ms. Seema Sharma

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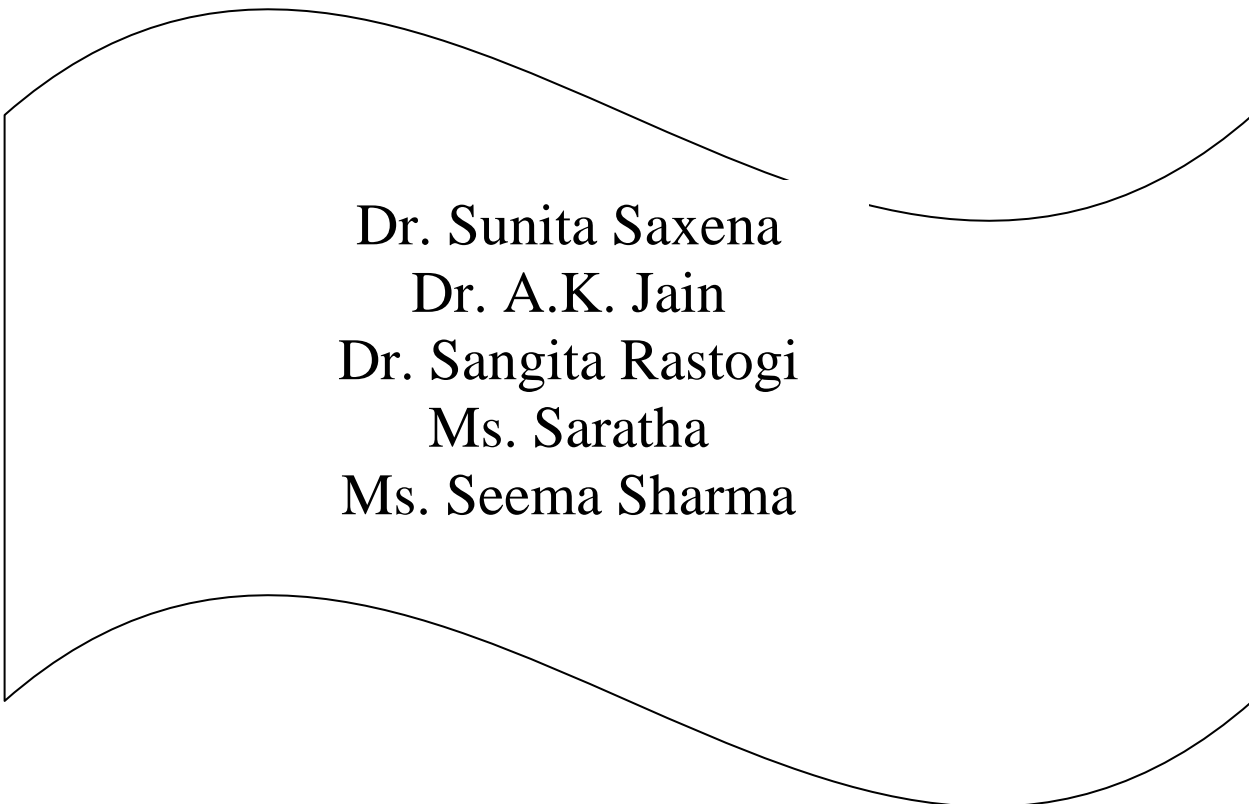
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