

## CURRICULUM VITAE

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**Present Appointment:** Associate Professor and Incharge, Deptt. of General Pathology, Faculty of Dentistry, Jamia Millia Islamia, Central University, Delhi since 29.03.11

### 1. Academic Qualifications:

#### Degrees :

- Doctor of Medicine (M.D.) Pathology, (1983-1986), All India Institute of Medical Sciences (AIIMS), New Delhi, India.
- Bachelor of Medicine and Bachelor of Surgery (M.B., B.S.), (1977-1981), Lady Hardinge Medical College, Delhi University, New Delhi, India.
- Bachelor of Science, (1975-1977), Delhi University, New Delhi, India.

#### Fellowships:

- Fellow of International Medical Sciences Academy since 2006

#### Training Courses:

- Training course "From research to practice: training in reproductive health research", organized by the [Geneva Foundation for Medical Education and Research](#), WHO and International Association for Maternal and Neonatal Health, March 2006, Geneva.
- Health and Human Rights, 2006, WHO, Geneva, Switzerland.
- Education Science Technology for Teachers of Health Professionals, 1997, Maulana Azad Medical College, New Delhi, India.
- Objectives of Medical Education, 1996, Maulana Azad Medical College, New Delhi, India.

### 2. Professional Appointments

- Associate Professor, Consultant Cytopathologist, Aga Khan University Hospital, Nairobi, Kenya (1st September 2009 - till 31<sup>st</sup> January 2011).
- Professor and Consultant Cytopathologist, Pathology Laboratory, Central institute of Valais Hospitals, Sion, Switzerland. (October 2007 to August 2008)
- Visiting Professor, Department of Pathology, University Hospital of Geneva, Switzerland (January 2004 to September 2007).
- Consultant, WHO HQs, Geneva (January 2004- August 2008)
- Professor, Department of Pathology, University of Delhi, Maulana Azad Medical College, New Delhi, India (2002-2008). I joined as Assistant Professor in 1996 and became Associate Professor in 1998 and promoted to Professor in 2002.

- Assistant Professor, Department of Pathology, All India Institute of Medical Sciences, New Delhi, India (1994-1996)
- Chief, Pathology Lab, Monilek Hospital and Research Institute, Jaipur, India (May1993-December 1993)
- Scientific Pool Officer, Department of Pathology, SMS Medical College, Jaipur, Rajasthan, India (1990-1993)
- Senior Demonstrator (Post M.D 3 year tenure post), Department of Pathology, All India Institute of Medical Sciences, New Delhi, India. (1987-1989)
- Research Fellow, Cytopathology Unit, Department of Pathology, All India Institute of Medical Sciences, New Delhi, India. (Oct-Dec1986)
- Junior Resident (Post graduate M.D. student), Department of Pathology, All India Institute of Medical Sciences, New Delhi, India. (July1983- June1986)
- House Surgeon, Lady Hardinge Medical College and SK Hospital, New Delhi, India. (January1983- June1983)

### **3. Post M.D. Professional Experience: Total 25 years (see annexure 1 for details)**

#### **Experience in India: Full time faculty position (1994- 2007) in Government service, Professor since 2002**

- Assistant Professor, Pathology, Officer in-charge, Cytology laboratory, AIIMS, (1994-1996), (Apex institution for medical education and research in India having a annual strength of 50 medical undergraduates and 24 post graduates). Handled annual workload of approx.12, 000 cytology specimens including: 9000 fine needle aspiration biopsies from all body sites, 1,500 specimens of Pap smears and 1,500 specimens of brush and scrape smears and fluid cytology
- Assistant Professor (1996-1997), Associate Professor (1998-2001) and Professor (2002-2008), Pathology, Officer in-charge for quality control in cytology lab, Maulana Azad Medical College, (1996-2008), (1500 bed tertiary teaching hospital in New Delhi, India with annual intake of 180 medical undergraduates and 12 post graduates)

#### **International work experience (7 years):**

##### **Switzerland**

- Visiting Professor, Department of Pathology, University Hospital of Geneva, Switzerland. (2004 – 2007). (A multispecialty teaching hospital affiliated to University of Geneva with 8 residents. The cytology laboratory handles annual workload of 10,000 Gynaecological and 5000 Non- Gynaecological specimens, School of cytotechnicians under pathology department trains 4 technicians every year
- WHO Consultant, [WHO Head Quarters, Geneva \(January 2004- July 2008\)](#)

##### **Consultant for WHO Cancer Control Programme**

- Technical review and coordinated production of the “*Cancer Control: Knowledge into Action*” publication series of 6 modules: planned timelines, coordinated internal/external review process and clearance procedures, liaised with collaborators (writers, editors, designer, proof reader, printer), and

monitored quality and timely delivery of products, revised drafts, liaised with cancer experts worldwide and network of partners.

- Preparation and review of web based tools (self-assessment questionnaires, partnerships, team building, template for action plan) related to above modules
- Review and editing of country interviews for cancer control planning & implementation for WHO/ cancer website and prepared brief summaries on National Cancer control plans in these countries, liaised with cancer experts
- Technical review, and revision of document “ *A community health Approach to palliative care for HIV/ AIDS and cancer patients in Sub-Saharan Africa*”
- Assisted in preparation of resource material for Resolution on Cancer Control, World Health Assembly, 2005 (WHA 58.22/2005)
- Web Content Manager- Preparation, review, editing and updating of contents for Cancer website

#### **Consultant for WHO Emergency and Essential Surgical Care Project**

- Preparation of training module for “training of trainers” using WHO training tool kit in country workshops.
- Review and editing of WHO "*Integrated Management for Emergency & Essential Surgical Care* (IMEESC) Tool kit"
- Participation in meetings to discuss country projects and advocacy for *Emergency & Essential Surgical Care* (IMEESC) projects.
- Preparation of country reports on training of trainers and training of facilitators workshops organized jointly by WHO with Ministries of health in 16 countries on "Emergency and Essential Surgical Procedures with linked equipment, report on “*Global initiative on emergency and essential surgical care*” (GIEESC) held in WHO, Geneva, December 2005, advocacy and progress documents, monitoring and evaluation tool.
- Review of training videos sent by other organizations for its teaching content relevant to EESC project for resource limited settings.
- Management of “Med net” discussion group a collaborative workspace for GIEESC participants on website for knowledge sharing and discussions.
- Review and comments on WHO Surgery website and assisted in updating contents.
- Review and comments on WHO manual *Surgical Care at District Hospital* for updating.

#### **Kenya**

- Honorary faculty, Cytopathology, Aga Khan University Hospital (AKUH), Nairobi. September 2008-August 2009
- Full time faculty Cytopathology, AKUH, Nairobi. September 2009- till date
  - Section In-charge, Cytopathology service: prepared SOPS, standardized synoptic cytology report templates and request forms, Supervision of outreach lab FNA clinics, Improving quality of service including standardization of cytopreparatory techniques, special stains, rapid stains and turnaround time, attending all FNA procedures in the hospital including rapid on site evaluation and rapid onsite diagnosis.
  - Coordinator Cytology Teaching programme: Reorganized cytology teaching, defined specific learning objectives for PGME programme in Cytology, Training of technician in Pap smear screening, Training of all lab technicians in cytopreparatory techniques
  - **Member** Project proposal review committee, AKUH, Nairobi, Sept2009- January2011
  - Consultant Telecytology, Provide cytology consultation to Mombasa, Kisumu, and dar e Salam, Tanzania AKH centres

AKUH is a 300 bedded university hospital. Pathology lab is a large, academic, regionalized, multisite laboratory catering to whole of east Africa and Southern Sudan having annual load of 10,000 specimens in cytology which includes 6500 Gynae and 3500 non Gynae specimens and 20,000 histopathology specimens.

## 4. Areas of expertise

**4.1 Diagnostic work:** Doing diagnostic work independently in FNAC, brush and scrape cytology, sputum, and fluids cytology, Pap smears screening since 1994 as full time faculty at AIIMS and MAMC. Handled annual workload of approx.12,000 cytology specimens including: 9000 fine needle aspiration biopsies from all body sites, 1,500 specimens of Pap smears and 1,500 specimens of brush and scrape smears and fluid cytology. At University Hospital of Geneva, Switzerland **practiced Thin Prep** on gynae and non gynae specimens including FNAC. The cytology laboratory handles annual workload of 10,000 Gynaecological and 5000 Non- Gynaecological specimens. At Aga Khan University Hospital, Nairobi handled independently annual load of 10000 specimens (that includes 6500 Gynae and 3500 non Gynae specimens) and supported histopathology section which handles 20,000 specimens catering whole of East Africa.

- **Quality control and accreditation of cytology laboratories** for Pap smear, collection, transportation, reporting, record maintenance and data compilation.
- Inspection and Monitoring of health facilities for Medical Council of India

### 4.2 Medical Education:

1. **Undergraduates (MBBS, BDS, Occupational therapists)** – Theory, practical and tutorials in haematology, cytology and morbid anatomy, curriculum development and conduct examinations.
2. **Post-graduate (M.D. Pathology)-** Training in cytology, haematology, histopathology and clinical pathology and medical laboratory techniques, supervision of MD theses and other research projects, curriculum development and conduct examinations.
3. **Paramedical:** Medical Laboratory Technology students and in-service staff in (i) laboratory techniques especially collection, processing and staining of Pap smears, oral scrapes, fine needle aspiration biopsies, sputum, urine and body fluids etc., (ii) record keeping, (iii) quality control, (iv) preparation of laboratory manuals and (v) curriculum development and conduct examinations
4. **Pathologists in CME workshops** organized by Indian Academy of Cytologists and Delhi Association of Practising Pathologists.
5. **Training of** in-service (i) medical officers in cytology techniques (Pap smears, oral scrapes, FNA) at cancer detection camps and in cytology laboratory, (ii) paramedical staff from field laboratories in samples processing and pap staining in cytology laboratory (iv) general practitioners and members of Indian Medical Association in cytology techniques.

**4.3 Research:** Publications in international (67) and national (15) peer reviewed journals, more than 50 papers presented in national and international conferences.

**4.4 Quality control** and accreditation of cytology laboratory, monitoring and inspection of health facilities.

**4.5 Expertise in advanced laboratory techniques:** Liquid based cytology (LBC), Fluorescent in-situ Hybridisation (FISH), Immunochemistry, Fluorescent Microscopy, Electron Microscopy, AgNOR Staining,

Enzyme Linked Immunosorbent Assay (ELISA) , Endoscopic and endoscopic ultrasound guided Cytology, Hybrid capture technique for HPV testing, PCR.

## 5. Leadership Positions

- Member, organizing committee CME/CDE on "*Polycystic Ovarian Syndrome and Metabolic Syndrome*" by Dr Manju V Cyloney, State University of New York, USA, at Faculty of Dentistry, JMI, New Delhi, 20 November, 2012
- Coordinator Cytology Teaching programme, AKUH, Nairobi, Sept2009- 31<sup>st</sup> Jan 2011
- Section In-charge, Cytopathology service, AKUH, Nairobi, Sept2009- 31<sup>st</sup> Jan 2011
- **Member** Project proposal review committee, AKUH, Nairobi, Sept2009- 31<sup>st</sup> Jan 2011
- **Coordinator:** production of the "*Cancer Control: Knowledge into Action*" publication series of 6 modules for WHO, HQs, Geneva, 2006-2008
- **Programme co-ordinator:** for planning, implementation, training, monitoring and review of screening for cancer cervix under i) "Stree Shakti (Women's Health) Program" of Govt of Delhi (ii) Cancer Detection and Control Programme of Govt. of Delhi, India. (2001-2003)
- **Member, Executive Body**, Indian academy of cytologists (2001-2003)
- **Officer in-charge**, Cytology laboratory , AIIMS (1994-96) and quality control in cytology lab, Maulana Azad Medical College (1996-08)
- **Member, Advisory Body**, University of Delhi on undergraduate and post graduate medical education
- **Member of post graduate thesis proposal review committee**, Maulana Azad Medical College, India
- **Member, Organizing Committee for Workshops:** (i) Recent Techniques in Pathology at All India Institute of Medical Sciences, New Delhi. 1994, (ii) Pathology of Lymph Node Diseases, AIIMS, New Delhi, 1996, (iii) Gynaecologic Cytopathology, AIIMS New Delhi,1997
- Co-editor in workbook on Recent Advances in Diagnostic Pathology. AIIMS New Delhi,1994
- **Mentorship:** I have mentored my students, instructors and junior faculty in my previous and current place of work. Some of my students are now working in leading institutions in India and abroad.

## 6. Academic Achievements:

### Honours & Awards:

- **Reviewer** for articles in the scientific journals: (i) Cytopathology Journal (Blackwell scientific publications, UK) since 1998, (ii) Journal of Oral and Maxillofacial Pathology (since 2007), (iii) Eastern Mediterranean Health Journal-WHO EMRO (since 2008) and (iv) Journal of Cytology (since 2009).
- Honorary membership Swiss Society of Clinical Cytology (since 2007)
- Awarded **International Travel Grant** by University Hospital of Geneva for European Congress of Cytology, Venise,2006
- Awarded **International Travel Grant** by University Hospital of Geneva for European Congress of Cytology, Paris, 2005
- Awarded International Travel Grant by University Grant commission and Ministry of Health & Family welfare, Govt of India, to Amsterdam, Conference of International Academy of Cytology, 2001
- Best paper awards at annual conference of Indian Association of Pathologists and Microbiologists and Indian Academy of Cytologists. (please refer publication list)
- Competitive Oral Presentation on Fine Needle Aspiration Cytology of Mucoepidermoid Carcinoma: A diagnostic problem. XVIII Annual Conference Indian Academy of Cytologists, Ahmedabad, India, 1989.
- **Invited guest** to demonstrate ELISA technique at training workshop on Anaemia, Indian Society of Haematology, 1984

- **Certificate of Proficiency**, Physiology, at the 1st MBBS examination, 1978
- **Merit Scholarship**, Ministry of Health and family welfare, Govt of India (MBBS, 1977-1981)
- **Roll of Honour**, Bachelor of Science, Delhi University, 1977

## 7. Recognition at national and international level:

### Invited Guest lectures, and other assignments

#### International

1. Member Expert WHO guideline Development group for WHO Guidelines on referral of suspected cancer at the primary Health care level in low and middle Income countries, since August 2010.
2. CME “improving preanalytic phase can improve cytology Diagnosis. Aga Khan University Hospital, Nairobi, Kenya, October, 2010.
3. Case Based Learning (Multidisciplinary seminar): Challenge of FNA renal mass, Aga Khan University Hospital, Nairobi, Kenya, February, 2009.
4. Role of Fine Needle Aspiration in Thyroid Lesions, Aga Khan University Hospital, Nairobi, Kenya, August, 2008.
5. Seminar at WHO, Geneva: What Pain Management Guidelines should WHO make? Report of a Delphi Study, 17 July 2007.
6. **WHO Advisor** in “ WHO Global Initiative for Emergency and Essential Surgical Care” meeting, December 2005
7. Follow Up of Atypical Glandular Cells Diagnosed on Thin Prep Pap Test, Swiss Congress of Clinical Cytology, University Hospital of Lausanne, Switzerland, June 2007.
8. Liesegang Rings in cytological samples. 14<sup>th</sup> International Congress of Cytology. May 2001, Amsterdam, The Netherlands`

#### India

1. *Glandular Epithelial Cell Abnormalities* at Workshop on Cervical Cytology,42nd Annual Conference of Indian Academy of Cytologists (CYTOCON 2012) at Kalinga Institute of Medical Sciences, Bhubaneswar, Odisha,3rd December,2012
2. *Glandular Lesions of Cervix*, Department of Pathology, Kasturba Medical College, Manipal, India, January 2007.
3. *Thyroid cytology*, Department of Pathology, Kasturba Medical College, Mangalore, India, December 2005.
4. FNA diagnosis of thyroid lesions, Annual meeting of Delhi Association of Practicing Pathologists, March 2003.
5. Pre-conference CME on *Cytology of soft tissues*, Annual National Conference of Indian Academy of Cytologists, October 2001.

## 8. **Research Projects and Grants:**

- A new method of biliary tissue sampling for cytopathological examination during endoscopic retrograde cholangiography, Project under University Hospital Geneva, 2004-5, *completed, paper presented, results published*
- Radiation induced serial cytological changes in oral cancer. Project under Delhi University, 2002-03, *completed, results published.*
- Effects of outdoor air pollution on ocular surface by conjunctival impression and scrape cytology Project under Delhi University, 2002-03: *completed, results presented in a national meeting, published.*

- Assessment of possible tuberculous lymphadenopathy on FNAC by PCR and non molecular methods. Project under Delhi University, 2001-02, *completed, results published*. **Won Best clinical research of the year award, 2003**
- Cervico-vaginal cytopathology in post-menopausal women on hormone replacement therapy. Project under Delhi University, 2000-01: *completed, results presented in a national meeting, published*.
- Cytomorphology of Premalignant Lesions of Oral Cavity. Grant by **Indian Council of Medical Research**, 1999, *Completed, report submitted*
- Bronchpulmonary aspergillosis. A clinico cytological study. Project under Delhi University, 1999-2000, *completed, results presented in a national meeting, results published*. **Won Best clinical research of the year award, 2001**
- Breast carcinoma- Cytologic Grade & Correlation with Receptor and Oncogene Expression on FNA. Grant by Delhi University, 1998-99: *Completed, report submitted*
- Correlation of cytological features with functional and immunological parameters in clinically suspected cases of thyroiditis. Grant by **Indian Council of Medical Research**, 1997: *completed, results published*.
- Argyrophilic Nucleolar Organizer region (AgNOR) staining in acute and chronic leukaemia Grant by **Council of Scientific and Industrial Research**, 1993 *completed, report submitted*
- Role of Intermediate Filaments in Cytodiagnosis of Round Cell Tumours, Grant by **Indian Council of Medical Research**, 1987: *completed, report submitted, results presented in a national meeting*.
- Assessment of Iron Stores by Serum Ferritin using ELISA in Indian Pregnant Women and Normal Subjects (MD Thesis), 1984-85: *completed, results presented in a national meeting, published*.

## 9. Administrative skills at managerial level:

- Laboratory in-charge: supervision of residents and technical staff, and cytology laboratory organization at AIIMS, New Delhi, and Maulana Azad Medical College, New Delhi, India
- Laboratory in-charge: cytology lab at Aga Khan University Hospital, Nairobi

## 10. Information Technology and Language Skills:

- **Computer:** Have basic knowledge of computer like feeding and retrieving the data, preparing a document, preparing teaching material for medical students, presentations and internet surfing. Training courses taken so far include: Windows 95, MS word, MS excel, Power Point, Internet Explorer (at Delhi University Computer Centre, 2001), Effective pubmed search, web design 101, Datacol survey, video conferencing. (WHO HQs), Using “end note” in research publications (University Hospital Geneva)
- **Languages:** English, Hindi, Urdu, French

## 11. Self learning for continuing professional development:

I keep myself informed and updated in technical areas through online and other learning opportunities.

### The e- courses

- USAID’s Global Health eLearning Centre in collaboration with Bloomberg School of Public Health, BMJ e learning portal by British Medical Journal group, and The Pain & Policy Studies Group, UK. The courses completed so far include: Fostering Change in Health Services, Monitoring and Evaluation Fundamentals, HIV Basics (Part 1), Screening for breast cancer, Screening for cervical cancer, Increasing Patient Access to Pain Medicines around the World: Improving National Policies that Govern Drug Distribution.

- Harvard Medical School's Online CME: Challenging Cases in Cytopathology: Fine Needle Aspiration Biopsy (FNAB) of the Liver, March 4- 10, 2010
- I have also joined many **electronic lists serves** such as HIF-net, Patho India, Patho-L, e pathologies to access latest information, group discussions on relevant topics, opinion on problem cases, pathology quizzes, CMEs, and telepathology etc.

## 12. Membership of Scientific/Professional Bodies:

Swiss Society of Clinical Cytology, Indian Association of Cancer Research, Delhi Breast Group, India, Indian Academy of Cytologists, Indian Association of Pathologists& Microbiologists, Alumni Association of All India Institute of Medical Sciences, Alumni Association of Lady Hardinge Medical College, Indian Medical Association, Delhi Medical Association.

## 13. Licensure & Certification:

- Medical Council of India: License No. MCI/ 3302 Issued 25.01.1983
- Medical Council of India: License No. MCI/2454 Issued 04.12.2002
- Delhi Medical council: License No DMC/7916 Issued 10.12. 2008
- Kenya Medical Practitioners and Dentists Board: License No. 19364 issued 19.12.08

## 14. Publications (total 151)

- **Journal articles:** Published extensively in international (69), national journals (17) and others (76). Many of these publications are quoted in cytopathology text books. (See **Annexure 2: List can be provided on request**)
- **Chapters in WHO book**
  - Classification and causes of chronic pain in children
  - Evaluation of chronic pain in children
 

**In:** WHO guidelines on the pharmacological treatment of persisting pain in children with medical illnesses.eds. WHO, World Health Organization, 2012 , Publisher: World Health Organization, Geneva , Switzerland. ISBN 978 92 4 154812 0
  - Available at [http://whqlibdoc.who.int/publications/2012/9789241548120\\_Guidelines.pdf](http://whqlibdoc.who.int/publications/2012/9789241548120_Guidelines.pdf)
- **Contributor for WHO modules**
  - Contributor, technical review, and coordinator for production of the “*Cancer Control: Knowledge into Action*” publication series of 6 modules. available at <http://www.who.int/cancer/modules/en/index.html>  
 Publisher: World Health Organization, Geneva , Publication date: 2006, Languages: English, Spanish, ISBN: 92 4 154699 9

## 15. Studies for WHO

1. Review of *evidence on effectiveness of increasing awareness about early signs and symptoms in five cancers types (breast, oral, colorectal, bladder, retinoblastoma) for early diagnosis*. World Health Organization, Geneva, October-December 2008
2. Desk Study on Progress in Palliative care entitled “*Rapid assessment of implementation of phase II and the progress made in palliative care in 5 African countries (Ethiopia, Uganda, Tanzania, Zimbabwe, Botswana)*” World Health Organization, Geneva, October, 2007
3. **Delphi Study- WHO Normative Guidelines on Pain Management** What Pain Management Guidelines should WHO make? World Health Organization, Geneva, June 2007.available at [http://www.who.int/medicines/areas/quality\\_safety/delphi\\_study\\_pain\\_guidelines.pdf](http://www.who.int/medicines/areas/quality_safety/delphi_study_pain_guidelines.pdf)



4. Report on “*Global initiative on emergency and essential surgical care*” (GIEESC) held in WHO, Geneva, December 2005, available at [http://www.who.int/surgery/mission/GIEESC2005\\_Report.pdf](http://www.who.int/surgery/mission/GIEESC2005_Report.pdf)
5. *Helminth control in school-age children – A Guide for District Managers of Control Programmes in South East Asia and Western Pacific Regions*, WHO, Geneva, December 2004

#### 16. Workshops and CMEs attended at national and international level:

1. Polycystic Ovarian syndrome and Metabolic Syndrome, Lady Hardinge Medical College, 15 November, 2012
  2. **Immunochemistry**, 15-16 October 2009, Aga Khan University Hospital, Nairobi
  3. **Gynaecological Cytology**: (i) **Liquid based cytology** and computer assisted screening of pap smears, October 2003, Kanton hospital, Luzern, Switzerland, (ii) Endocervical Cytology, October 2005, Paris, France (iii) Glandular lesions, March, 2006, Zurich, Switzerland, (iv) Gynae cytology, July, 2009, and (v) Glandular lesions on cervix cytology, 6-9 October 2009, Aga Khan University Hospital, Nairobi.
  4. **Fine Needle Aspiration Cytology** (i) FNAC Breast, April 1992, SMS Medical College, Jaipur. (ii) Pulmonary Cytology, Jan 1995, Cancer Institute, Chennai (iii) Cytology of Breast and Cervix, Oct 1995, PGI, Chandigarh (iv) Head and Neck Lesions, Nov 1995, Tata Memorial Hospital, Mumbai, (v) Thyroid, Nov 1995, Tata Memorial Hospital, Mumbai (vi) Concepts & Critical Issues in Fine Needle Aspiration Cytology, Nov 1997, AIIMS, New Delhi and (vii) Fine Needle Aspiration Cytology- An Update, Jan 1997, AIIMS, New Delhi, (viii) Cytology of thyroid, March, 2006, Zurich, Switzerland (ix) FNAC thyroid, breast and lymph node, Aga Khan University hospital, Nairobi, October, 2008, (x) FNAC thyroid, breast and lymph node, Aga Khan University Hospital, Nairobi, October 2009. (xi) Tutorial on FNB Technique and an Approach to the Diagnosis of Lymph Node, Salivary Gland, Breast, Thyroid and Soft Tissues and Bone, Aga Khan University Hospital, Nairobi, May 11-13 May, 2010 Under the auspices of the Papanicolaou Society and the International Academy of Cytology
  5. Introduction to **Evidence-Informed Health Care Workshop**, South Asian Cochrane Network, Kasturba Medical College, Manipal, December, 2008.
  6. Guidelines for Development of **Evidence Based Guidelines**, December, 2007, WHO, Geneva
  7. Data collection Beginners training (Datacol) 2006, WHO
  8. Health and Human Rights 2006, WHO, Geneva
  9. Online international quiz **Lung cytology** 2005 by Basel group of Telemedicine, Switzerland (published in cancer cytopathology 2006, 108(69); 480 – 487).
  10. Fluorescent in-situ Hybridisation (FISH) in urinary cytology, Feb 2004, University Hospital of Geneva, Switzerland
  11. Stereology, Image Processing and Quantitative Image Analysis in Biomedical Research, July 1999, AIIMS, New Delhi.
17. **Volunteer for community service**: Cancer Detection Camp, Govt of Delhi, India, Women’s Health (Stree Shakti) Programme, Govt of Delhi, India, Volunteer in Blood donation camp, MAM College, New Delhi, India, National Polio awareness and vaccination camp, Govt of India.

#### Annexure I: List of Publications (Total 161)

**Publications in peer reviewed Journals (86)**

**Papers presented and abstracts published (75)**

## Annexure I: List of Publications

### A. Original articles in peer reviewed Journals (86)

#### I. Gynaecological cyto-oncology

1. Rapiti E, Usel M, Neyroud-Caspar I, Merglen A, Verkooijen HM, Vlastos AT, Pache JC, **Neeta Kumar**, Bouchardy C. Omission of excisional therapy is associated with an increased risk of invasive cervical cancer after cervical intraepithelial neoplasia III. *European J Cancer*. 2012 ; 48(6):845-52.
2. **Neeta Kumar**, Molliet M. J., Bongiovani M., Pelte M. F., Egger J. F., Pache J. C Diverse Glandular Pathologies Coexist With High- Grade Squamous Intraepithelial Lesion In Cyto-histological Review of Atypical Glandular Cells On ThinPrep. *Cytopathology* 2008; 20( 6): 351-358
3. **Neeta Kumar**, Molliet M. J., Bongiovani M., Pelte M. F., Egger J. F., Pache J. C Re- classification and Analysis of Clinical Significance of Atypical Glandular Cells on Thin Prep Using The Bethesda 2001: Geneva Experience. *Swiss Medical Weekly*, 2007, 137:635–641
4. Gupta S, **Neeta Kumar**, Singhal N, Manektala U, Jain S, Sodhani P. Cyto-hormonal and morphological alterations in cervico-vaginal smears of postmenopausal women on hormone replacement therapy. *Diagnotic Cytopathology* 2006, 34: 676-681
5. Gupta S, **Neeta Kumar**, Singhal N, Kaur R, Manektala U, Jain S. Vaginal microflora in postmenopausal women on Hormone replacement therapy. *Indian Journal of Pathology and Microbiology*, 2006;49:457-461
6. Kashayap S, Kapila K, **Neeta Kumar**, Kinra G, Rath GK, Verma K: Nucleolar organizer regions and morphologic subtypes of squamous cell carcinoma of cervix. *Indian Journal of Pathology and Microbiology*, 1998; 41(3): 303-308

#### II. Quality control Cervical cytology

7. **Neeta Kumar**, Sayed S, Molloo Z. Educational Needs and Causes of False Diagnosis of Atypical Squamous Cells of Unknown Significance at a University Hospital. *African J Reproductive Health*, 2011, 15(1): 111-114.
8. Bongiovanni M., De Saussure B., **Neeta Kumar**, Gremaud M., Pache JC A Quality Control Study On Concordance in Pap Test Among Cytotechnologist (CT) and Cytopathologist (CP). *Acta Cytologica*, 2009; 53:653–658
9. **Neeta Kumar**, Jain S: Quality Control and Automation in Cervical Cytology, *Journal of Indian Medical Association*, 2004; 102: 372-378. (Review article)

#### III. Non Gynae Cyto-Oncology

##### Breast

10. **Neeta Kumar**, Sayed S, Molloo Z , Chauhan R, Wasike R. Addressing the challenges of practicing breast cytology in a tertiary hospital in East Africa with high disease burden. *Annals of Africa Surgery*. 2011; 7 (5)
11. **Neeta Kumar**, Sayed S, Molloo Z , Wasike R. Fine needle aspiration cytology of inflammatory breast cancer: Case series with emphasis on specimen adequacy. *Acta Cytologica*, 2011;55:239-244 (DOI: 10.1159/000324032)
12. Jain S, **Neeta Kumar**, Sodhani P, Gupta S: Pink hyaline globules and other pathological features in collagenous spherulosis and adenoid cystic carcinoma, *Acta Cytologica*, 2003;47:381-386
13. Jain S, **Neeta Kumar**: Aspiration Cytology of Collagenous Spherulosis. *Cytopathology*, 2002;13:116-120
14. Singh M, **Neeta Kumar**, Jain S: Exfoliative Cytology of Abnormal Nipple Discharge. *Journal of Cytology*, 1999; 16(1): 21-25

15. Joshi A, **Neeta Kumar**, Verma K: Diagnostic Challenge of Lobular Carcinoma on Aspiration Cytology. *Diagnostic Cytopathology*, 1998; 18: 179-183. (quoted in cytopathology text books)
16. **Neeta Kumar**, Kapila K, Verma K: FNA characterisation of tubular adenoma of the breast- A Diagnostic Problem. *Cytopathology*, 1998; 9: 301-307. (quoted in cytopathology text books)

### Thyroid

17. Yerly S, Triponez F, Meyer P, **Neeta Kumar**, Bongiovanni M: Medullary Thyroid Carcinoma, Small Cell Variant: a Diagnostic Challenge on Fine Needle Aspiration. A Case Report and Review of the Literature. *Acta cytologica*, 2010, 54 (5): 911-917
18. Bongiovanni M, Triponez F, **Neeta Kumar**, Matthes T, Meyer P: Fine Needle Aspiration of the Diffuse Sclerosing Variant of Papillary Thyroid Carcinoma Masked by Florid Lymphocytic Thyroiditis: a Potential Pitfall. A Case Report and Review of the Literature. *Diagnostic Cytopathology* 2009; 37(9):671-675
19. Gupta S, Sodhani P, Jain S, **Neeta Kumar**: Morphologic Spectrum of Papillary Carcinoma of the Thyroid: Role of Cytology in Identifying the Variants *Acta Cytologica*, 2004, 48(6); 795-800
20. **Neeta Kumar**, Jain S: Aspiration cytology of Hashimoto's Thyroiditis in an endemic area. *Cytopathology*, 2002; 13:31-39

### Salivary gland

21. Nigam S, **Neeta Kumar**, Jain S: Carcinoma in Pleomorphic Adenoma- A diagnostic challenge, *Acta Cytologica* 2004; 48: 309-314
22. **Neeta Kumar**, Kapila K, Verma K: Fine Needle Aspiration Cytology of Mucoepidermoid Carcinoma. A diagnostic problem. *Acta Cytologica*, 1991;35(3): 357-359 (quoted in cytopathology text books)

### Renal

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