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Education and Training:

- 2014-2017: Residency in Pathology (**M.D.**), Department of Pathology, Maharishi Markandeshwar University, Ambala, India
- 2007-2012: Bachelor of Medicine and Surgery (**M.B.B.S**), Acharya Shri Chandra College of Medical Sciences and Research, Jammu, India

Certifications and Awards:

- 2018: National Accreditation Board for Testing and Calibration Laboratories (**NABL**), certified pathologist/ Lab Auditor.
- 2023 Basic course in Biomedical Research Certified by Indian Council of Medical Research (ICMR)
- 2024 Basic life support (BLS) Certified.
- 2024 Basic Course in Medical Education Certified by National Medical Commission

Academic, Administrative, and Clinical Appointments:

- 2009-2012: Vice president, Indian Doctors for peace and development (IDPD), J&K.

- 2017- 2019: Registrar, Department of Pathology, Maharishi Markandeshwar University, Ambala, India
- 2019- 2020: Assistant Professor, Department of Pathology, Maharishi Markandeshwar University, Ambala, India
- Associate Professor, Department Of Pathology, American University School Of Medicine Aruba (AUSOMA), Wilhelminastraat 59, Oranjestad, Dutch Kingdom Of Aruba.
(Remote Consultancy And Online Teaching)
- 2020- 2024:
* Assistant Professor, Postgraduate Department Of Pathology, Government Medical College And Associated Hospitals (GMC&H), Jammu, Jammu & Kashmir, India
- 2024- till date
* Associate Professor, Department Of Pathology, Sri Mata Vaishno Devi Institute Of Medical Excellence And Narayana Superspeciality Hospital, Kakrayal, Katra, Jammu & Kashmir, India.

Research Interests:

1. **Digital Pathology:** Using computer-assisted instruction and implementation of newer applications to enhance or replace traditional teaching strategies and address many new pragmatic and pedagogical challenges in medical education.

Development of a Virtual Microscopy (VM) based solution that would empower both undergraduate and graduate level learners to have more control with improved access to teaching materials, and overcome the challenges to traditional laboratory-based histopathology teaching.

Although the use of conventional light microscopes is technically least challenging, it has been disliked by the students due to lack of quality and consistency of its use which is both time consuming as well as tiring for the eyes. Even pathologists find its limitation in reproducing the same field repeatedly over and over again. Digital microscopy could be a promising solution for such limitations of routine, conventional microscopy though presenting with its own technical challenges.

With an eye on future of medical education worldwide, digital pathology with VM is the need of the hour for improvement in teaching standards and efficient student learning experiences and should replace conventional methods of learning and teaching pathology.

2. **Molecular and immuno pathology** With emerging era of genetic and molecular exploration into the field of research and study it provides deep insights into the evolution of certain genetic as well as carcinogenic pathways along with a promise to understand deep seated dogmas of what we call idiopathic aetiology.

ONGOING PROJECTS

Pathology Q-bank

Residency thesis (2014-2017) – ‘Histopathological spectrum of upper gastrointestinal tract endoscopic biopsies in a tertiary care hospital.’

Memberships in Professional Societies:

- Indian Doctors for peace and development (IDPD) Jammu subunit
- Indian Association of Pathologists & Microbiologists (IAPM)

Teaching Experience:

American University school of medicine Aruba (AUSOMA)

Didactic courses: Associate Professor Pathology

- Formulating and reviewing MD5 pathology course for NBME and CBSE examination ○ Development and delivery of didactic lectures for pathology course over three semesters (MD1, MD3 and MD4). ○ Integrating the pathology material presented in the courses with material in other courses.
- Developing examination materials for measuring students’ comprehension of materials presented, using current USMLE formats for test questions.
- Preparing, supervising and grading of examinations in coordination with other faculty.

Curriculum development:

- Development and regular updating of Pathology lecture material for students in MD program (MD1, MD3, MD4 and MD5), including preparation of course material for

Pathology classes with up to date pertinent materials that meet accreditation standards and allows students to excel on licensing examinations and the clinical practice of medicine.

- Regulating database structure and management of microsoft teams, tophat and sharepoint to conduct student assignments, assessments, and examinations.

Government medical college Jammu - responsibilities handled

Didactic courses: 2020-2024: Assistant Professor/Lecturer Pathology

- Development and delivery of didactic lectures for undergraduate MBBS students.
- Conducting troubleshooting seminars for postgraduate pathology residents.
- Framing and implementation of paramedical syllabi in Pathology and Pathophysiology.
- Integrating the pathology material presented in the courses with material in other courses.
- Developing examination materials for measuring students' comprehension of materials presented via University guidelines.
- Preparing, supervising and grading of examinations in coordination with other faculty.
- Conducting clinical pathology practical laboratory sessions for undergraduate and paramedical

Maharishi Markandeshwar University- responsibilities handled

- **Teaching Experience 2017- 2020. Assistant professor and registrar**
- Conducting histopathology lab and small group sessions using virtual pathology technology and whole slide images which are viewed using virtual microscope software and digital slide scanner.
- Guide for postgraduate dissertation programme.
- Actively involved in functioning of immunohistochemistry laboratory.
- Development and delivery of didactic lectures for undergraduate MBBS students.
- Guest speaker on recent advances in Pathology and Pathophysiology in institutional CME's

Bibliography

Book Publication (NATIONAL AND INTERNATIONAL)

1. Pearls of esophageal endoscopic biopsies- A pocket companion. Dr. Abhimanyu Sharma, Dr. Karuna Sangwan; February 2023. Isbn: 978-9391478322
2. Cutaneous bullous Disorders: A concise immunopathological perspective. Dr. Abhimanyu Sharma, Dr. Samal Nauhria; January 2024. Isbn: 979-8876515308

3. Pathophysiology of Gastrointestinal Lesions. Dr. Abhimanyu Sharma, Dr. Samal Nauhria; July 2024. Isbn: 979-8334062672

Chapter contributions

- 24 chapters as principal author

Publications

- Maity, S.; Nauhria, S.; Nayak, N.; Nauhria, S.; Coffin, T.; Wray, J.; Haerianardakani, S.; Sah, R.; Spruce, A.; Jeong, Y. Maj MC.; **Sharma A.**; et al. Virtual Versus Light Microscopy Usage among Students: A Systematic Review and Meta-Analytic Evidence in Medical Education. *Diagnostics* 2023, 13, 558. <https://doi.org/10.3390/diagnostics13030558>
- Brar A, **Sharma A**, Nauhria S, Nauhria S, Bhattacharjee A, Peela J, Joshi K. Utility of Direct Immunofluorescence in Cutaneous Autoimmune Bullous Disorders. *Cureus*. 2021 Apr 19;13(4):e14562. doi: 10.7759/cureus.14562. PMID: 34026378; PMCID: PMC8133519.
- **Sharma A**, Sangwan K, Sharma M. Histomorphological distribution and endoscopic correlation of colonoscopic biopsies in rural North India. *GJRA*. 2021.
- **Sharma A**, Gupta S, Sharma M. Study of mortality pattern on autopsy in a tertiary care medical college in Jammu. *GJRA*. 2021.
- Sangwan K, **Sharma A**. Assessment and awareness of biomedical waste management in a superspeciality hospital in rural Haryana. *GJRA* 2020;9(12):<https://www.doi.org/10.36106/gjra>
- Sangwan K, **Sharma A**. Efficacy oriented comparative analysis of bronchioalveolar lavage Transbronchial needle aspiration and image guided fine needle aspiration for diagnosis of pulmonary lesions based on cytomorphological parameters in rural area in North India. *IJSR* 2020;9(12):49-51.
- Sangwan K, **Sharma A**. Histopathological spectrum of intracranial lesions and correlation with preoperative radiological findings in rural Haryana. *IJAR* 2020;10(11):9-10.
- Malik S, **Sharma A**. Clinico hemtological profile of anemia in geriatric patients in rural Haryana. *IJSR* 2020;9(10):38-40.
- **Sharma A**, Isha, Lone AH, Kaur R, Nijhawan VS. Comparative analysis of leucocyte count (total and differential) in patients with leucocytosis using system XN550 L series (5 part) automated analyzer and conventional manual technique in a tertiary care hospital in rural Haryana. *JK SCIENCE* 2020;22(2):61-64.
- **Sharma A**, Gupta K. Clinicopathological Correlation of Endoscopic Esophageal Biopsies in a Tertiary Care Hospital in Rural area of North India. *Int J Adv Res*. 2020;8(04):43-47.

- **Sharma A**, Gupta K. Clinicopathological Correlation of upper gastrointestinal tract endoscopic biopsies in a tertiary care hospital in rural area of North India. *Int J Adv Res.* 2020;8(05):1155-60.
- **Sharma A**, Gupta K. Histopathological spectrum of upper gastrointestinal tract endoscopic biopsies in a tertiary care hospital in rural population in North India. *Int J Adv Res.* 2020;8(04):945-50
- **Sharma A**, Lone AH, Sharma M, Chaudhry M. Significance of mentzer index and Erythrocyte indices to evaluate Erythrocyte morphology and spectrum of anemia in adult population in a tertiary hospital in rural Haryana. *JK SCIENCE.* 2020;22(1):15-18
- **Sharma A**, Garg M, Bedi S. Prevalence of Rh Antigen Subgroups Among Blood Donors in a Tertiary Care Hospital in Rural Haryana. *JK SCIENCE* 2019;21(4):148-51.
- **Sharma A**, Garg M, Joshi K, Singh K. Clinicopathological Correlation of gastric endoscopic biopsies in a tertiary care hospital in rural area in Haryana. *JK SCIENCE* 2019;21(3):125-29.
- **Sharma A**, Garg M, Joshi K, Singh K. Clinicopathological Correlation of Endoscopic Duodenal Biopsies in a Tertiary Care Hospital in Haryana. *JK SCIENCE* 2019;21(3):109-12.
- Yadav R, **Sharma A**, Zaman M, et al. Chronic, Non-Healing Ulcer of Foot as a result of Mycobacterium Tuberculosis Infection-A Case Report. *SM J Pulm Med* 2018;4(1):1029s2.
- Singh G, Jain V, Gupta D, **Sharma A**. Parametric effect of vibrational drilling on osteonecrosis and comparative histopathology study with conventional drilling of cortical bone. *Proc Inst Mech Eng H.* 2018 Oct;232(10):975-986. doi: 10.1177/0954411918794983. Epub 2018 Aug 16. PMID: 30112958.
- Chowdhary K, **Sharma A**, Kaur G, et al. Amoebic Colitis Presenting as Colonic Perforation with Peritonitis. *ACS Case Reviews in Surgery.* 2018;2(2):6-9.
- Chaudhary M, Gupta M, **Sharma A**. Pleomorphic Adenoma of Hard Palate: A Rare Case. *J Otolaryngol Forecast.* 2018;1(1):1005.
- Grover AS, Kumar M, Yadav R, **Sharma A**, Chowdhary K, Zaman M, Chowdhary A, Bawa A. Intussusception of small intestine as a result of inflammatory Fibroid polyp causing small bowel obstruction in an adult patient. *Kathmandu University Med J.* 2017;60(4):346-48.
- Chauhan K, Garg M, Chaudhry M, **Sharma A**, Bindal T. Retroperitoneal myelolipoma, a diagnostic dilemma: A case report and review of literature. *Saudi J Health Sci* 2016;5:90-92.
- Chauhan K, Garg M, **Sharma A**, Bindal T, Jetly D. Her-2/neu expression and its Correlation with ER status and various Clinicopathological parameters. *IJPO* 2016;3(4):570-75
- Chand N, Singla S, Sangwan K, Bansal H, Bajwa D, **Sharma A**, Goyal S. Diagnosis of hematological and non hemtological disorders using bone marrow aspiration and trephine biopsy (a correlating study). *RJPBCS* 2015;6(4):1259-68.

Paper Presentation

1. Amoebic Colitis Presenting as Colonic Perforation with Peritonitis. Continuous medical Education Update, Bilio- pancreatic Disorders. MMIMSR Ambala, 2018.

2. Histopathological spectrum of upper gastrointestinal tract endoscopic biopsies in a tertiary care hospital in rural population in Haryana. North West chapter Indian Association of Pathologists and Microbiologists (IAPM), PGIMER Chandigarh, 2016

Poster Presentation

1. Clinico hemtological profile of anemia in geriatric patients in rural Haryana. 39th TRANSCON, ISBTI, GMC Patiala. 2014
2. Prevalence of Rh Antigen Subgroups Among Blood Donors in a Tertiary Care Hospital. 20th Haryana State AOI conference, Khanpur kalan, Sonapat. 2014

Reference

- **Samal Nauhria, MBBS, MD.** Associate Professor and course director, Department of Pathology, St. Matthews University School of Medicine, Leeward III, Regatta Office Park, West Bay Road, Grand Cayman, Cayman Islands.

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- **Ivreet Kaur, MBBS, MD.** Associate Professor, Department of Pathology, Maharishi Markandeshwar Institute of Medical Sciences and Research, Ambala, Haryana. Incharge Dr. Kalra path lab, Fountain chowk, Yamunanagar, Haryana, India.

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