



- **Name:** Dr Vikas Karamchand Dagar
- **Department:** Pathology and Laboratory Medicine
- **Qualification:** MBBS, MD, Trained in Cytogenetics
- **About myself (in 150 words):** I am an Assistant Professor in the Department of Pathology at AIIMS Kalyani, with a distinguished career in pathology and cytogenomic studies. After earning my MBBS and MD in Pathology in 2015, I received advanced training in Cytogenomic studies at the Armed Forces Medical College (AFMC) Pune. My significant professional journey includes 5 and a half years of service at AFMC Pune, where I served as both Assistant and Associate Professor, honing my expertise in pathology and medical education. During my tenure at AFMC, I led and collaborated on numerous impactful research projects, including pioneering work in Sanger sequencing for beta hemoglobinopathies and the integration of artificial intelligence in breast cancer diagnostics. Additionally, I have been actively involved in managing NABL-accredited Haematology laboratories and have contributed to various national programs, including the National Thalassemia Control Program and the NIDAAN Project, reflecting my dedication to advancing medical research and improving patient outcomes.
- **Area(s) of interest:** Cytogenomics ; Karyotyping and FISH Molecular Pathology, Biodosimetry, Immunopathology, Cytology and Quality control
- **Research publications and/or book chapters (in last five years):**
 1. Dr Vikas Dagar, Dr Santosh Kumar Mondal, Dr Ayan Roy, Dr Soumyajit. Enhancing Frozen Section Reporting for Parathyroid Masses: Integration of Touch Imprint as Adjunctive Drill. International journal of endocrinopathies and metabolism case report.2024
 2. Sigin George, Vikas Karamchand Dagar, N. Nagaraja, Barun Kumar Chakrabarty. Mosaic Turner Variant Adult Female Presenting with XO/XY Karyotype. Journal of Human Reproductive Sciences · 2023; 16:260-2.

3. A.W. Kashif, Vikas Karamchand Dagar, Hitesh Kumar Mahato, Gourang Paliwal, Karuna Datta, Seema Patrikar et al. Teaching pathology differently: Comparison between three diverse teaching learning methods; Medical Journal Armed Forces India · 2023;1-8
4. Dr. Bibhas Saha Dalal, Dr. Vikas Karamchand Dagar, Dr. Sudhanshu Shekhar, Dr. Santosh Kumar Mondal, Dr. Rangaswamy M, Dr. Sunila. IOSR Journal of Dental and Medical Sciences (IOSR-JDMS);2023.22(9);22-32
5. Chirag K, Dr Vikas Karamchand Dagar, Col Barun Kumar Chakrabarty, dr Sudhanshu Shekhar. Application Of Hans Algorithm to Sub Type Diffuse Large B-Cell Lymphomas. IOSR Journal of Dental and Medical Sciences.2023; 22, (5), 21-27
6. Parul Chopra, Sudhanshu Shekhar, Vikas Karamchand Dagar, Shivam Pandey. "Prevalence of Soil Transmitted Helminthic Infections in Pediatric Population in India: A Systematic Review and Meta-analysis." Journal of Laboratory Physicians.2022;1-163.

- **Research gate / PubMed link / Google scholar link:**
<https://www.researchgate.net/profile/Vikas-Dagar>

- **Completed & Ongoing Funded Research Projects:**

- 1.PI: Comprehensive analysis of beta globin gene for detection of known and unknown mutations in beta haemoglobinopathies by Sanger sequencing. (Approved in 2022)
2. Co-PI: To study the distribution of glutamine metabolism related proteins in breast cancer patients according to their molecular subtypes: a pilot study. (Completed in 2020)
3. Co-PI: Study of artificial intelligence (AI) on digital images acquired by whole slide scanner in evaluation of theragnostic & surrogate markers in carcinoma breast and their comparison with traditional diagnosis. (Approved in 2022)
4. Completed ICMR STS project with a cadet (UG student) as Guide: Application of Hans algorithm to subtype Diffuse large B cell lymphoma
6. Co-PI: Chromosomal Anomaly in Cleft lip and cleft palate cases. (Completed in 2023)
- 7.PI: Comprehensive analysis of double heterozygous E-beta haemoglobinopathies by Sanger sequencing technique. (Intramural AIIMS Kalyani Approved in 2023)
8. Co-PI: Impact of Pleural fluid volume on the diagnosis of accuracy of cytology (Approved Intramural project AIIMS KALYANI 2023)
9. Co-PI: A pilot study to analyze clot waveform patterns and study its different parameters generated from automated coagulation analyzer in various clinical scenarios (Approved Intramural project AIIMS KALYANI 2023)
10. Co-PI: Correlation of anti TPO antibody level in serum and fine needle aspiration cytology sample in cases of autoimmune thyroiditis (Approved Intramural project AIIMS KALYANI 2023)
11. Evaluation of sequential exfoliative cytology Changes with clear aligner therapy. (Approved Intramural project AIIMS KALYANI 2023)

- **Achievements:** (Award/Prize, Professional Recognitions, etc.)

- Member of Indian Society of Human Genetics
- Served for National Program like Thalassemia control Program/NIDAAN