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PRESENT POSITION :

Senior Consultant

Department of Oncopathology

Tata Medical Center, Kolkata

June 2012 - Present

EDUCATION :

FELLOWSHIP (Oncopathology)		
Tata Medical Center, Kolkata		May 2012
MD (Path)	Father Muller Medical College, Mangalore, Rajiv Gandhi University of Health Sciences (RGUHS), Karnataka, India	April 2008
MBBS	Jawaharlal Nehru Medical College, Belgaum, Rajiv Gandhi University of Health Sciences (RGUHS), Karnataka, India	October 2001

Professional Experience :

- **Consultant Pathologist at Tata Medical Centre, Kolkata (June 2012 to Present)**
- Fellow in Oncopathology at **Tata Medical Centre, Kolkata** (June 2011 to May 2012)
- Consultant Pathologist at **SRL, Religare** (May 2009 to April 2011)
- Pathologist at **Lifeline Hematology Centre, Hyderabad** (August 2008 to February 2009)
- Pathologist **at Tapadia Diagnostics, Hyderabad** (August 2008 to February 2009)
- Integral part of working team of **Thalassemia and Sick Cell Society, Hyderabad** (August 2008 to February 2009)
- Observer in Department of Oncopathology, **Kidwai Cancer Institute, Bangalore** from 1st to 30th May 2007.
- Observer in Department of Neuropathology, **NIMHANS, Bangalore** from 1st to 15th July 2007.

I have been associated with Tata Medical Center, Kolkata since its inception, first as a post-doctoral fellow in 2011 and then as a Consultant, 2012 onwards. Tata Medical Center, Kolkata, is a tertiary cancer care center in eastern India and is currently in its 12th year of operations. We are currently a 425 bedded hospital with total registrations of 3 lakhs per year and 6500 surgeries per year. The Oncopathology Laboratory and all its sections are NABL accredited (National Accreditation Board of Testing and Calibration Laboratories: ISO 15189) since 2013. The workload is approximately 25,000 histopathology cases, 4000 cytology cases and 50,000 immunohistochemistry tests per year.

Tertiary Oncopathology services at Tata Medical Center, Kolkata include diagnostic surgical pathology, frozen section, immunohistochemistry and cytopathology services. The department has an intramural Cytogenetics and Molecular Pathology Laboratory.

The Department operates on an intradepartmental software (AnPath) which helps traceability of every specimen through accessioning, grossing, processing and reporting. Histopathology laboratory is well-equipped with 2 cryostats, automatic tissue processors, automatic stainers, automatic cover slipping machine and 5 immunohistochemistry platforms (2 Ventana, 2 Bond max and 1 Dako platform dedicated for PD-L1 staining). Cytology laboratory is well equipped with cytospin machines and Thin prep machine for liquid based cytology. The intramural Cytogenetics and Molecular Pathology Laboratory assist with ancillary testing (FISH, PCR, sanger sequencing and next generation sequencing of solid tumours).

Being associated with a tertiary cancer care center since its inception has given me ample creative opportunities and a gamut of responsibilities. I have been actively and independently involved in providing surgical pathology, frozen section, immunohistochemistry and cytopathology services in our hospital. In the last 12 years I have independently reported almost 30,000 oncopathology and 8000 cytology cases.

Subspecialty Interests, Multidisciplinary tumour board (MDT), Disease Management Group (DMG) :

While at Tata Medical Center, I have developed core competencies in areas of Gynaecologic, Urologic, Soft tissue, Lung pathology and cytopathology. I regularly attend multidisciplinary tumour board meetings in the above specialties and I am an integral part of Gynaecologic, Urologic, Soft tissue and Lung DMG at our hospital.

I also have keen interest in Cytology and play an important role in providing Gynaecologic and Non-gynaecologic cytology service. I have been responsible for Cytology Operations in our Laboratory and I regularly interact with radiologists, gynaecologic surgeons, gastroenterologists and pulmonologists for providing effective cytology services at TMC.

The immunohistochemistry section is also being supervised by me and currently the section has 160 antibodies and 5 immunohistochemistry platforms. I have been instrumental in introducing next generation immunohistochemical markers to the repertoire (ALK, ROS1, STAT6, TFE3, Pan-TRK, BCOR, PDL1 to name a few).

Academics :

The Department of Oncopathology at Tata Medical Center has a comprehensive programme for Oncopathology trainees. The Post Doctoral Certificate Course / Fellowship (PDCC) in Oncopathology (including Histopathology and Cytology) under the aegis of the Indian College of Pathologists (ICP) recognises 2 fellows who complete their rotation over 1 year duration. In addition there are 10 Fellowship posts for 1-2 year rotation. I am an internal and external examiner and Thesis guide of the PDCC Oncopathology course and have been actively involved in guiding and mentoring the trainees in all educational activities through grossing sessions, daily histopathology, cytology and frozen section reporting, weekly teaching sessions and MDTs.

I have also organized Subspecialty Conferences, CMEs and workshops across India encompassing Gynaecologic, Urologic, Soft tissue and Lung pathology over the years.

Memberships :

Life member of Indian Association of Pathologists and Microbiologists (IAPM).

Life member of Indian Academy of Cytologists (IAC).

Founder member of Society of Genito-urinary Pathologists (SGUP) of India.

Founder member of Gynaecological Pathology Society of India (GyPSI).

Member of The British Association of Gynaecological Pathologists (BAGP).

Member of The International Society of Gynecological Pathologists (ISGyP).

Member of Genitourinary Pathology Society (GUPS).

Quality control :

The Oncopathology Laboratory and all its sections are NABL accredited (National Accreditation Board of Testing and Calibration Laboratories: ISO 15189) since 2013. I have played an active role right from the inception in formulating SOPs and other quality control measures for the laboratory.

I underwent the NABL Internal Auditor course in February 2016 and since then I have been regularly conducting internal audits in various Departments of Laboratory Sciences.

I believe that it is the quality of work that makes us stand apart from the rest and I have taken special interest in daily quality control measures and external quality assurance programmes encompassing all aspects of Histopathology and Cytology including NordiQC EQAS for immunohistochemistry.

Invited lectures, case presentations (2016 - Present) :

1. 10th Annual State Cytology Conference, organized by IPGMER and West Bengal Cytology Society on 2nd April, 2016 : Delivered a lecture on Interesting Cytology Cases in Routine Practice.
2. International CME on Soft Tissue Tumours, organized by CAPP on 13th April 2016 : Unusual soft tissue tumours; Slide seminar.
3. 22nd ICP AIPNA International CME in Pathology, organized by TMCK in January 2017 : Delivered a slide seminar on Interesting Cases in Cervical Pathology.
4. Controversies in Lung Cancer Management, organized by Department of Radiotherapy, TMCK in April 2017 : Delivered a lecture on ALK and ROS1 testing.
5. 25TH Annual Conference of Association of Gynaecologic Oncologists of India, held in October 2017, organized by TMH Mumbai : Participated in panel and case discussion.

6. Liquid based cytology CME 2018, organized by AMRI Hospitals, Bhubaneswar on 19th April 2018 : Delivered a lecture on Gynaecologic cytology and utility of Cytospin.
7. 1st comprehensive update on genito-urinary malignancies, organized by TMH Mumbai on 30th June and 1st July 2018 : Participated in panel and case based discussion.
8. Uropathology Update, CAPPCON 2018, organized by CAPP on 18th November 2018 : Moderated panel discussion and conducted case based learning session.
9. Masterclass in Clinical and Uro-Oncopathology, organized by Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute in November 2018 : Participated in panel and case discussion.
10. Thoracic Oncology-Translating research into practice, organized by Rajiv Gandhi Cancer Institute and Research Centre, New Delhi held on 8th-10th February 2019 : Presented interesting cases in Pulmonary pathology.
11. 5th Annual Conference of Indian Musculoskeletal Society, IMSOS 2019 : Presented interesting cases in Soft Tissue pathology.
12. Faculty to the “17th Tata Memorial Hospital – Women’s Cancer Initiative (TMH-WCI) Conference” from 18th October to 20th October, 2019 : Delivered a lecture on “Dilemmas in the management of “Uterine Cancers”- Pathologist perspective”.
13. CME on Gynaec Oncopathology held in FMMC, Mangalore in November 2019 : Delivered a lecture on “Challenges in diagnosis of endometrial cancers”.
14. CME on Gynaec Oncopathology held in FMMC, Mangalore in November 2019 : Presented a SLIDE SEMINAR on “Interesting cases in Gynaecologic Pathology”.
15. 53rd Annual Conference : Urological Society of India (USICON 2020), held in Kochi in January 2020 : Delivered a lecture on Molecular markers in bladder cancer : Has it reached the clinics ?
16. XVIII Annual Conference on Evidence Based Management of Cancers in India EBM 2020 - Urological Cancers: A Decade of Transformation 28th February to 1st March 2020 : Delivered a lecture on “The expanding classification of renal tumors and its clinical relevance”.
17. Post graduate training (PURSUE course), 16th January 2021 : Delivered a lecture on borderline tumours of ovary, how to tide over the confusion.
18. 28th Annual Conference of Association of Gynecological Oncologists of India (AGOICON 2021 : Delivered a lecture on high grade endometrial carcinoma.
19. Society of genito-urinary pathologists of India SGUP Jna2021 : Delivered a lecture on grossing of adult renal tumours.
20. Urology Conference (SOGOCON 2022) : Delivered a lecture on soft tissue of male pelvis : 26th August 2022.
21. WHO updates in Genito-urinary pathology, 1st September 2022 : Delivered a lecture on molecularly defined renal cell carcinoma.

22. 29th APMWB Annual State Conference held at NRS medical College, Kolkata, 10th September 2022 : Delivered a lecture on immunohistochemistry in ovarian neoplasms.
23. 24th Annual Conference UP chapter IAPM (UP PATHCON 2022), 15th - 16th October 2022 : Delivered a lecture of Pitfalls in bladder neoplasms – A roller coaster ride.
24. 52nd Annual Conference of the Indian Academy of Cytologists (CYTOCON 2022), 5th- 7th November 2022 : Organised and conducted a workshop on HPV testing and liquid based gynaecological cytology.
25. 70th Annual Conference of Indian Academy of Pathologists and Microbiologists (APCON 2022), 30th November – 3rd December 2022 : Conducted a pre-conference workshop in Uro pathology.
26. 70th Annual Conference of Indian Academy of Pathologists and Microbiologists (APCON 2022), 30th November – 3rd December 2022 : Delivered a lecture on recent updated in testicular germ cell tumours.
27. 70th Annual Conference of Indian Academy of Pathologists and Microbiologists (APCON 2022), 30th November – 3rd December 2022 : Delivered a lecture on updates in recent WHO classification of sarcomas with therapeutic significance : SDHB deficient gastrointestinal stromal tumour.
28. Online lecture for Post graduates, 19th January 2023 : Endometrial carcinoma.
29. Organised International Conference in Gynaecological Pathology in association with the British Association of Gynaecological Pathologists at Tata Medical Center, Kolkata, 3rd – 5th February 2023.

Conducted and presented slide seminar on endometrial carcinoma : recent updates and molecular classification.
30. Delivered lecture on Changing landscape of Endometrial Carcinoma at 10th conference of association of clinical pathologists of Nepal, held at Kathmandu on 21.4.2023
31. Delivered lecture on Challenges in Bladder Carcinoma at 10th conference of association of clinical pathologists of Nepal, held at Kathmandu on 22.4.2023
32. Delivered lecture on Recent updates in Endometrial Carcinoma at KGMC Lucknow on 9.5.2023
33. Delivered lecture on Recent updates in Ovarian Carcinoma at KGMC Lucknow on 9.5.2023
34. Delivered lecture on FNA vs Core biopsy in Oncopathology at HOPECON 2023, held at ITC Royal Bengal, Kolkata on 30.6.2023
35. Delivered lecture on FNA vs Core biopsy in Oncopathology at HOPECON 2023, held at ITC Royal Bengal, Kolkata on 30.6.2023
36. Case discussion (BAP1 associated renal cell carcinoma) at Dialogues in urooncology- uro pathology, held at MPUH Nadiad on 28.7.2023
37. Delivered lecture on Molecular Classification of Bladder Cancer at SOGOCON 2023 Congress, held at TMH Mumbai on 5.8.2023

38. Delivered lecture on Changing landscape of Endometrial Carcinoma at KAPCON 2023, held at Mangalore on 7.10.2023
39. Delivered lecture on Challenges in Bladder Carcinoma at KAPCON 2023, held at Mangalore on 8.10.2023
40. Delivered lecture on Subtypes of Bladder Cancer at Society of International Urology 2023 Congress, held at Istanbul on 13.10.2023
41. Delivered lecture on Grey zones in Cervical Cytology:ASCUS at Cytocon 2023, held at Gajra Raja Medical College, Gwalior on 30.10.2023
42. Moderated session on Pearls and Pitfalls in diagnosis of Gynaecological Pathology at APCON 2023, held at AIIMS, New Delhi, 7th-10th December 2023.

Presented Pearls and Pitfalls in diagnosis of endometrial carcinoma during the above session. at APCON 2023 at AIIMS, New Delhi, 7th-10th December 2023.
43. Delivered lecture on case based approach to challenges in Molecular Classification of Endometrial Carcinoma held at Bharti Vidya Peeth, Pune on 12.1.2024.
44. Delivered lecture on 'Molecular classification of bladder cancer – is it ready for prime time' at 29th AIPNA-ICP International Pathology CME 2024 at PGIMER, Chandigarh on 9.2.2024.
45. Delivered lecture on 'MMR and POLE testing in Endometrial Carcinoma at Updates in Gynaecological Pathology and Cytology Conference held at KK Womens' and Childrens' Hospital, Singapore on 16.2.2024.
46. Delivered a lecture on "Prostate cancer – new terminologies" at SOGOCON held at Kolkata on 10th August 2024.
47. Delivered a lecture on "Small biopsy diagnosis of lung tumours, tissue is the issue" at APMWB Annual State Conference held in Durgapur on 21st September 2024.
48. Delivered a lecture on "Benign mimics in bladder cancer" at SGUP 4th International Conference at Mangalore on 27th September 2024.
49. Delivered a lecture on 'Grossing of adult kidney tumours' at SGUP 4th International Conference at Mangalore on 27th September 2024.
50. Delivered a lecture on ISGyP Live "Endometriosis and associated lesions" on 28th September 2024.

Publications (2016 - Present) :

1. Das, Anirban; Mallick, Indranil ; Arun, Pattatheyil ; **Midha, Divya** ; Sen, Saugata; Krishnan, Shekhar; Bhattacharyya, Arpita. (2017). Encouraging Outcomes With Manageable Toxicity Using Neoadjuvant Chemotherapy and Intensity-modulated Radiotherapy in Advanced Pediatric Nasopharyngeal Carcinoma: Single-Center Experience From a Developing Country. Journal of Pediatric Hematology/Oncology. 39. 1. 10.1097/MPH.0000000000000794.

2. Kamble, S.C.; Sen, A.; Dhake, R.D.; Joshi, A.N.; **Midha, D.**; Bapat, S.A. Clinical Stratification of High-Grade Ovarian Serous Carcinoma Using a Panel of Six Biomarkers. *J. Clin. Med.* 2019, 8, 330.
3. Cohen PA, Powell A, Böhm S, Gilks CB, Stewart CJR, Meniawy TM, Bulsara M, Avril S, Brockbank EC, Bosse T, de Azevedo Focchi GR, Ganesan R, Glasspool RM, Howitt BE, Kim HS, Lee JY, Le ND, Lockley M, Manchanda R, Mandalia T, McCluggage WG, McNeish I, **Midha D**, Srinivasan R, Tan YY, van der Griend R, Yunokawa M, Zannoni GF; HGSC CRS Collaborative Network (Supplementary 1), Singh N. Pathological chemotherapy response score is prognostic in tubo-ovarian high-grade serous carcinoma: A systematic review and meta-analysis of individual patient data. *Gynecol Oncol.* 2019 Aug;154(2):441-448. doi: 10.1016/j.ygyno.2019.04.679. Epub 2019 May 19. Erratum in: *Gynecol Oncol.* 2020 May;157(2):558-559. PMID: 31118141.
4. Ambekar A, Rao V, Pai SA, Bindhu MR, **Midha D**, Kaushal S, Patil S, Jagdale R, Soni S, Kulkarni B, Sundaram S, Kumar RM, Desai S, Menon S. Grossing and reporting of testicular tumor specimens : An evidence-based approach. *Indian J Cancer.* 2020 Jan-Mar;57(1):7-12. doi: 10.4103/ijc.IJC_1072_19. PMID: 32129294.
5. Das J, Ray S, Tapadia R, **Midha D**, Mallick I. Prostate-specific Membrane Antigen-expressing Hepatic Lesion: Metastatic or Hepatocellular Carcinoma. *Indian J Nucl Med.* 2020;35(1):58-60. doi:10.4103/ijnm.IJNM_145_19
6. Ganguly S, Biswas B, Bhattacharjee S, Ghosh J, Mukhopadhyay S, **Midha D**, Dabkara D. Clinicopathological characteristics and treatment outcome in small cell lung cancer: A single institutional experience from India. *Lung India.* 2020 Mar-Apr;37(2):134-139. doi: 10.4103/lungindia.lungindia_370_19. PMID: 32108598; PMCID: PMC7065549.
7. Verma, Harish & Sehgal, Karan & Chakraborty, Santam & Biswas, Bivas & Mukherjee, Geetashree & **Midha, Divya** & Biswas, Gautam. (2019). Presentation and Management of Dermatofibrosarcoma Protuberans: a Single Center Protocol. *Indian Journal of Surgical Oncology.* 11. 10.1007/s13193-019-01007-3.
8. Gupta P, Saha K, Vinarkar S, Banerjee S, Choudhury SS, Parihar M, **Midha D**, Mukherjee G, Lingegowda D, Chatterjee S, Arunsingh S M, Shrimali R, Ganguly S, Dabkara D, Biswas B, Mishra DK, Arora N. Next generation sequencing in lung cancer: An initial experience from India. *Curr Probl Cancer.* 2020 Jun;44(3):100562. doi: 10.1016/j.crrproblcancer.2020.100562. Epub 2020 Feb 28. PMID: 32178863.
9. Nakra T, Mehta A, Bal A, Nambirajan A, Mishra D, **Midha D**, Gupta N, Arora N, Gupta P, Gupta P, Singh V, Jain D. Epidermal growth factor receptor mutation status in pulmonary adenocarcinoma: Multi-institutional data discussion at national conference of "Lung Cancer Management in Indian context". *Curr Probl Cancer.* 2020 Jun;44(3):100561. doi: 10.1016/j.crrproblcancer.2020.100561. Epub 2020 Feb 28. PMID: 32169258.

10. Ghosh, J., Ghosh, A., **Midha, D.** et al. Clinical and Pathological Characteristics and Outcomes of Clear Cell Carcinoma of Ovary: A Tertiary Cancer Centre Data. *Indian J Gynecol Oncolog* **17**, 80 (2019). <https://doi.org/10.1007/s40944-019-0314-1>
11. Lingegowda, Dayanandal & Gehani, Anisha & Mukhopadhyay, Sumit & **Midha, Divya** & Banerjee, Sudeep & Gupta, Bharat. (2020). Intraductal Papillary Neoplasm of the Bile Ducts: Case Reports with Review of the Literature. *Journal of Gastrointestinal and Abdominal Radiology*. 10.1055/s-0040-1715777.
12. Jindal, Tarun & Dhanalakshmi, M. & Pawar, Pravin & Panda, Joyshree & **Midha, Divya**. (2020). Inflammatory Pseudotumor of the Renal Pelvis. *Journal of Endourology Case Reports*. 6. 10.1089/cren.2020.0144.
13. Ghosh P, Chandra A, Mukhopadhyay S, Chatterjee A, Lingegowda D, Gehani A, Gupta B, Gupta S, **Midha D**, Sen S. Accuracy of MRI without intracavernosal prostaglandin E1 injection in staging, preoperative evaluation, and operative planning of penile cancer. *Abdom Radiol (NY)*. 2021 Oct;46(10):4984-4994. doi: 10.1007/s00261-021-03194-6. Epub 2021 Jun 29. PMID: 34189611.
14. Das S, Aggarwal G, Gupta S, **Midha D**. Primary renal Ewing's sarcoma in an adult: an enigma. *Innov Surg Sci*. 2021 Jan 7;6(1):20200022. doi: 10.1515/iss-2020-0022. PMID: 33506101; PMCID: PMC7790175.
15. Ganguly, Sandip & Alphones, Sheena & Ghosh, Priya & **Midha, Divya** & Ghosh, Joydeep & Biswas, Bivas. (2020). Rectal cancer with breast metastasis: A case report with review of literature. *Cancer Research Statistics and Treatment*. 3. 627-629.
16. Ganguly S, Biswas B, Bhattacharjee S, Ghosh J, Mukhopadhyay S, **Midha D**, Dabkara D. Clinicopathological characteristics and treatment outcome in small cell lung cancer: A single institutional experience from India. *Lung India*. 2020 Mar-Apr;37(2):134-139. doi: 10.4103/lungindia.lungindia_370_19. PMID: 32108598; PMCID: PMC7065549.
17. Contributed to National Cancer Guidelines for diagnosis and management of Urologic Cancers.
18. Dabkara D, Ganguly S, Ghosh J, Mukherjee S, Gupta S, Mallick I, Mukherjee S, **Midha D**, Chatterjee M, Basu A, Hasan A, Biswas B. Clinicopathological characteristics, prognostic factors and treatment outcomes of seminomatous germ cell tumours from a tertiary cancer centre in eastern India. *Natl Med J India*. 2021 Mar-Apr;34(2):68-72. doi: 10.4103/0970-258X.326752. PMID: 34599114.
19. **Midha D**, Menon S, Josephine S, Kumar RM, Kaushal S, Pai SA, Ambekar A, Rao V, Bindhu MR, Patil S, Jagdale R, Soni S, Kulkarni B, Desai S, Sundaram S. Gross reporting of adult kidney tumor specimens: A comprehensive evidence-based review. *Indian J Cancer*. 2021 Oct-Dec;58(4):493-500. doi: 10.4103/ijc.ijc_354_21. PMID: 34975095.
20. Biswas B, Biswas G, Ganguly S, Ghosh J, Roy S, Roy MK, Pipara A, Karmakar J, Mukherjee N, Chakraborty S, Mishra DK, **Midha D**, Dabkara D. Not so 'rare'-an example of malignant melanoma in India: report from a tertiary cancer centre.

Ecancermedicalsecience. 2021 Dec 16;15:1335. doi: 10.3332/ecancer.2021.1335. PMID: 35211204; PMCID: PMC8816508.

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23. Giri S, Gehani A, Alphones S, **Midha D**, Baral D. Rare Case of Metastatic Pleomorphic Liposarcoma of Thigh Presenting as Ewing's Sarcoma. J Nepal Health Res Counc. 2021 Apr 23;19(1):215-217. doi: 10.33314/jnhrc.v19i1.3324. PMID: 33934165.

Recent Professional Affiliations (2016 onwards) :

I became Executive Committee Member of Calcutta Association of Practicing Pathologists (CAPP) in 2018.

I am one of the founder members of the Society of Genito-Urinary Pathologists of India (Founded in 2019) and currently an Executive Committee Member of the same.

I am also one of the founder members of the Gynaecological Pathology Society of India (Founded in 2023).

I am a life member of the Indian Association of Pathologists and Microbiologists (IAPM) and Indian Academy of Cytology (IAC).

Ongoing Research :

The Department of Oncopathology is involved in various research projects and the Digital Pathology system, Automatic tissue microarrayer, Multicolour IHC, Laser capture microscope are equipments acquired in the recent past to help in our research endeavours. There are facilities to biobank fresh tissue in the extramural biobank facility of our Hospital.

Some of my ongoing research activities are as follows :

1. As part of the Gynaecologic disease management group, I am assisting in the Systems Medicine Cluster (SYMEC) cervical cancer screening project in the interpretation of cervical biopsies of patients who are positive for High risk HPV DNA.
2. I am currently involved as Co-Investigator in Aegean Lung Cancer Trial (AstraZeneca) which is a Phase III, Double-blind, Placebo-controlled, Multi-center International Study

of Neoadjuvant/Adjuvant Durvalumab for the Treatment of Patients With Resectable Stages II and III Non-small Cell Lung Cancer.

3. Molecular profiling of endometrial carcinoma (50 cases) using p53, MMR IHC and POLE hotspot mutation analysis and molecular profiling of cases of uterine carcinosarcoma cases is some of my current work in progress.

References :

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