

BIO-DATA

Dr. Samarpita Mohanty

Assistant Professor, Radiation Oncology

Contact Information

Department of Radiation Oncology

ACTREC, Tata Memorial Centre, Navi Mumbai 410210

Phone: +91 7678052520

Email: samarpita.mohanty@gmail.com, samarpita.mohanty@actrec.gov.in

Education and Medical Training

- **MBBS**
SCB Medical College, Cuttack | 2008 – 2013
- **Internship**
SCB Medical College and Hospital, Cuttack | Nov 2013 – Oct 2014
- **MD Radiation Oncology**
Tata Memorial Hospital, Mumbai | May 2015 – June 2018

Professional Experience

- **Senior Resident (Radiation Oncology, TMH):**
Aug 2018-July 2020, July 2021- Sept 2022
- **Ad-hoc Assistant Professor (Radiation Oncology, ACTREC, TMC):**
Oct 2022- Sept 2023
- **Assistant Professor (Radiation Oncology, ACTREC, TMC):**
September 2023 till date

Professional Memberships

- Association of Radiation Oncologists of India (AROI)
- Foundation for Head and Neck Oncology (FHNO)

Reviewer of international journals like BMC Cancer, JCO global oncology contributing to

the peer review process

Publications

1. Mohanty S, Gurram L, Chopra S, Mahantshetty U, Grover S. Cervical Cancer Treatment in HIV-Positive Patients: A Survey of Treatment Practices in India. *JCO Glob Oncol*. 2021;7:843-848. doi:10.1200/GO.21.00081
2. Mohanty S, Hajare R, Gurram L, et al. Dosimetric comparison of sequential intensity-modulated radiation therapy (IMRT) and simultaneous integrated boost IMRT for lymph node-positive cervical cancer. *Journal of Radiotherapy in Practice*. 2023;22:e113. doi:10.1017/S1460396923000365
3. Mohanty S, Patil D, Joshi K, et al. Dosimetric Impact of Voluntary Deep Inspiration Breath Hold (DIBH) in Mediastinal Hodgkin Lymphomas: A Comparative Evaluation of Three Different Intensity Modulated Radiation Therapy (IMRT) Delivery Methods Using Voluntary DIBH and Free Breathing Techniques. *Cancers (Basel)*. 2024;16(4):690. Published 2024 Feb 6. doi:10.3390/cancers16040690
4. Gurram L, Mohanty S, Chopra S, et al. Outcomes of Cervical Cancer in HIV-Positive Women Treated With Radiotherapy at a Tertiary Care Center in India. *JCO Glob Oncol*. 2022;8:e2100312. doi:10.1200/GO.21.00312
5. Scheltes D, Mohanty S, Smits G, van der Steen-Banasik E, Murthy V, Hoskin P. Improving Quality of Life with Brachytherapy for Urological Malignancies. *Clin Oncol (R Coll Radiol)*. 2023;35(8):516-523. doi:10.1016/j.clon.2023.01.017
6. Swamidass, S Pradhan, S Chopra, S Panda, Y Gupta, S Sood, S Mohanty, J Jain, K Joshi, R Ph, L Gurram, U Mahantshetty, J P Agarwal. Development and clinical validation of Knowledge-based planning for Volumetric Modulated Arc Therapy of cervical cancer including pelvic and para aortic fields. *Physics and Imaging in Radiation Oncology*. 2021;18:61-67. doi:10.1016/j.phro.2021.05.004.
7. Bajpai J, Ventrapati P, Joshi S, et al. Unique challenges and outcomes of

young women with breast cancers from a tertiary care cancer centre in India. *Breast*. 2021;60:177-184. doi:10.1016/j.breast.2021.09.008

8. Shwetabh Sinha, Anuj Kumar, Guncha Maheshwari, Samarpita Mohanty, Kishore Joshi, Prakash Shinde, Deeksha Gupta, Shrikant Kale, Reena Phurailatpam, Monali Swain, Ashwini Budrukhar, Rajesh Kinhikar, Sarbani Ghosh-Laskar. Development and Validation of Single-Optimization Knowledge-Based Volumetric Modulated Arc Therapy Model Plan in Nasopharyngeal Carcinomas, *Advances in Radiation Oncology*, 2023, 101311, ISSN 2452-1094, <https://doi.org/10.1016/j.adro.2023.101311>
9. Ghosh Laskar S, Sinha S, Kumar A, et al. Reducing Salivary Toxicity with Adaptive Radiotherapy (ReSTART): A Randomized Controlled Trial Comparing Conventional IMRT to Adaptive IMRT in Head and Neck Squamous Cell Carcinomas. *Clin Oncol (R Coll Radiol)*. 2024;36(6):353-361. doi:10.1016/j.clon.2024.03.015
10. Ashwini Budrukhar, Maneesh Singh, Monali Swain, Sarbani Ghosh Laskar, Vedang Murthy, Shrikant Kale, Rituraj Upreti, Shwetabh Sinha, Anuj Kumar, Samarpita Mohanty, Tejpal Gupta, Jai Prakash Agarwal, Interstitial brachytherapy for periocular nonmelanoma skin cancers: Impact on organ and function preservation, *Technical Innovations & Patient Support in Radiation Oncology*, Volume 32, 2024, 100280, ISSN 2405-6324, <https://doi.org/10.1016/j.tipsro.2024.100280>

Conference Presentations:

1. Outcomes of Cervical Cancer in Human Immunodeficiency Virus (HIV) positive women treated with Radiotherapy at a tertiary care centre in India: Poster presentation in the Annual Global Meeting of the International Gynecologic Cancer Society (IGCS 2021) held from 29th August 2021 to 2nd September 2021 in Rome, Italy
2. External Beam Radiotherapy in Differentiated and Medullary Thyroid Cancers: An Audit of Clinical Practice: Oral presentation at 3rd National meeting of Indian Society of Thyroid Surgeons, August 2018

3. Adjuvant External Beam Radiotherapy in Differentiated Thyroid Cancers-updated results: Oral presentation at 3rd Indian Cancer Congress, Mumbai, November 2023
4. Definitive radiotherapy in Oral Cavity Cancer treated with Intensity-modulated radiotherapy(IMRT): A single center experience: Poster presentation at YROC, Lucknow in February 2023
5. Cervical Cancer Treatment in HIV-Positive Patients: A Survey of Treatment Practices in India: Poster presentation at Apollo Cancer Conclave, Chennai, 24th January 2019
6. Dosimetric analysis of sequential IMRT vs simultaneous integrated boost for lymph node-positive cervical cancer: Poster presentation at ESTRO 2021 held in Aug 2021 in Madrid

Areas of Interest

- Head and Neck Oncology
- Advanced Radiotherapy Techniques
- Error Reporting and Incident Learning in Radiotherapy

Other projects:

Currently involved in multiple ongoing projects in head and neck cancer and radiation oncology, focusing on innovative treatment approaches, dosimetric analysis, and clinical outcomes to advance patient care and evidence-based practices