

**Dr. Tapesb Bhattacharyya MD, DNB Radiation Oncology**

**Date of birth:** 27-March-1981

**Permanent Address:**

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**EDUCATION :**

- Completed matriculation at Burdwan, West Bengal, in 1997 with first division marks.
- Completed higher-secondary (plus 2) at Burdwan, West Bengal, in 1999 with first division marks.
- Joined Calcutta National Medical College, Kolkata in August 2000, affiliated to Calcutta University, West Bengal .
- Successfully completed final MBBS in January 2005 with first division marks.
- Completed compulsory rotatory internship in March 2006 and procured the MBBS degree with permanent registration number 61536, registered with the West Bengal Medical Council, India.
- Completed MD in Radiation Oncology from Indira Gandhi Medical College, Shimla under Himachal Pradesh University in May 2011 .
- Passed DNB Radiation Oncology in May 2014.
- Completed my Senior Residency in the department of Radiation Oncology in Post Graduate Institute of Medical Education and Research , Chandigarh on 3<sup>rd</sup> July 2014.
- Worked as Assistant Professor (Contractual) in Radiation Oncology at PGIMER Chandigarh from 20.11.2014 to 24.12.2014.

- Worked as Assistant Professor in Radiation Oncology at Malabar Cancer Centre, Kerala from 05/01/2015 to 07/02/2016.
- Worked as Assistant Professor in Radiation Oncology at Regional Cancer Centre Trivandrum, Kerala from 08/02/2016 to 23/08/2017.
- Worked as trainee in Carbon Ion Radiation Oncology at National Institute of Radiological Science, Chiba, Japan from May 2018 to November 2019
- Working as Junior Consultant in Radiation Oncology at Tata Medical Centre, Kolkata since 03/10/2017.

### **Experience:**

Post MD nine years working experience in well equipped modern set up of Radiation Oncology performing external beam radiotherapy in the form of 3D CRT, IMRT, IGRT in different solid malignancies, intracavitary HDR brachytherapy in carcinoma cervix and other gynecological malignancies. One year experience in treating different radioresistant tumours with heavy ion radiotherapy.

### **Thesis , Awards and Publications:**

I had done my thesis “ prospective randomized trial to compare the outcome and tolerability of delivering the same total dose of radiation in 61/2 weeks versus 51/2 weeks time in head and neck cancers”

**I have got best paper award for presenting this paper in an NZAROI conference in 2010 at Jammu.**

### **My publications are as follows:**

1. Efficacy of radical radiotherapy alone on functional preservation of larynx: A retrospective analysis. Indian Journal of Cancer.
2. Vincristine induced unilateral ptosis with serendipitous response to Modafenil. BMJ Case Reports.
3. Clinical implication of Thermoplastic Immobilisation on acute effects of radiation therapy in head and neck cancers. Journal of Post Graduate Medical Education and Research.

4. Post operative radiotherapy in periampullary cancers: A brief review . Journal of Gastrointestinal Cancer.
5. Locally ablative non surgical management of colorectal liver metastasis. Journal of Gastrointestinal Cancer
6. Primary Adenoid cystic carcinoma of lung . A case report and review of literature. Journal of Cancer Research and Therapeutics.
7. Carcinoma lung presenting with choroidal metastasis as initial presentation : A rarity. Journal of Cancer Research and Therapeutics.
8. Is neurocysticercosis a risk factor for glioblastoma multiforme or a mere co incidence. Journal of Neuroscience in Rural Practice.
9. Can we consider metastatic colon cancer in the ambit of chronic disease in present scenario? A tertiary care centre from India. Clinical Cancer Investigation Journal.
10. Vulvar Rhabdomyosarcoma in a young lady. A rare case report and review of literature. Journal of cancer Research and Therapeutics
11. Penile metastasis secondary to ca urinary bladder. A report of two cases. Indian Journal of Palliative Care.
12. Squamous cell carcinoma of thyroid: A rare case report and review of literature. Indian Journal of Palliative Care.
13. Duodenal toxicity after fractionated chemoradiation for unresectable pancreatic cancer. Letter to editor. International journal of radiation oncology biology physics.
14. A systematic review of management of neuroendocrine tumors: An experience from a tertiary care centre from India: Clinical Cancer Investigation Journal.
15. Osteosarcoma of larynx: A rare case report and review of literature. Journal of Cancer Research and therapeutics
16. Impact of changing trends of treatment on outcome of cerebral Gliosarcoma : A tertiary care centre experience. Indian Journal of Neurology
17. Primary amyloidoma of lung treated with radiation: A rare case report with review of literature . Journal of Cancer Research and Therapeutics

18. Adjuvant chemoradiotherapy in periampullary cancers. Where does it stand with newer radiation techniques: A single institution experience. *Journal Of Cancer Research and Therapeutics*

19. A prospective randomized trial to compare the outcome and tolerability of delivering the same total dose of radiation in 6<sup>1/2</sup> weeks versus 5<sup>1/2</sup> weeks time in head and neck cancer. *South Asian Journal of Cancer*

20. Immunological interactions in radiotherapy—opening a new window of opportunity. *Annals of Translational Medicine*

21. A New Index to Measure Intra-observer Variation in Delineating GTV Primary in Head and Neck Cancer. *Cell Science and Report*

22. Bayesian Concordance Correlation Coefficient with Application to Repeatedly Measured Data. *Turkiye Klinikleri Journal of Biostatistics*

23. Impact of waiting time for treatment on survival in patients undergoing radiotherapy for head and neck cancer. *Journal of Cancer Policy*.

24. Setup uncertainties and PTV margins at different anatomical levels in intensity modulated radiotherapy for nasopharyngeal cancer. *Reports of Practical Oncology and Radiotherapy*.

25. Hypofractionated radiotherapy in carcinoma breast: What we have achieved?  
*Journal of Cancer Research and Therapeutics*.

26. Resource requirements and reduction in cardiac mortality from deep inspiration breath hold (DIBH) radiation therapy for left sided breast cancer patients: A prospective service development analysis. *Practical Radiation Oncology*

27. Development and validation of a decision support tool to select IMRT as radiotherapy treatment planning modality for patients with locoregionally advanced non-small cell lung cancers (NSCLC). *British Journal of Radiology*

28. Current Role of Chemotherapy in Nonmetastatic Nasopharyngeal Cancer. *Journal of Oncology*.

29. Current Status of Organ Preservation in Carcinoma Larynx. World journal of Oncology.

**Latest Publications:**

1. **Bhattacharyya T**, Koto M, Ikawa H, Hayashi K, Hagiwara Y, Tsuji H. Assessment of risk factors associated with development of oronasal fistula as a late complication after carbon-ion radiotherapy for head and neck cancer. *Radiother Oncol* 2020;144:53-58.
2. **Bhattacharyya T**, Koto M, Ikawa H, Hayashi K, Hagiwara Y, Makishima H et al. First prospective feasibility study of carbon-ion radiotherapy using compact superconducting rotating gantry. *Br J Radiol* 2019.
3. Hagiwara Y, **Bhattacharyya T**, Matsufuji N, Isozaki Y, Takiyama H, Nemoto K et al. Influence of dose-averaged linear energy transfer on tumour control after carbon-ion radiation therapy for pancreatic cancer. *Clinical and Translational Radiation Oncology* 2020;21:19-24.
4. Hagiwara Y, Koto M, **Bhattacharyya T**, Hayashi K, Ikawa H, Nemoto K et al. Long-term outcomes and toxicities of carbon-ion radiotherapy in malignant tumors of the sphenoid sinus. *Head Neck* 2020; 42: 50-58.
5. Isozaki Y, Takiyama H, **Bhattacharyya T**, Ebner D, Kasuya G, Makishima H et al. Heavy charged particle for gastrointestinal cancers. *Journal of Gastrointestinal Oncology* 2020;11:203-211.

**Special Clinical Training:**

- **Carbon Ion Radiotherapy Training at NIRS:**
- This is the most important component of my tenure at TMC Kolkata as I have spent most of my time for carbon ion radiotherapy training at NIRS, Japan to help set up the Carbon Ion facility at TMC Kolkata in near future which is going to be the only heavy ion radiotherapy facility in entire South east Asia.
- I underwent my advanced clinical training on carbon ion radiotherapy at NIRS from 15.05.2018 to 14.11.20219.

- I acquired expertise in carbon ion radiotherapy by learning about patient selection, treatment planning, assessing toxicities and following up those patients treated with carbon ion radiotherapy. Apart from the clinical aspects I have also learnt the physics and radiobiological aspects of carbon ion radiotherapy
- During my tenure at NIRS I got the opportunity to rotate in all clinical subsites including head and neck cancer , gastrointestinal cancers, bone and soft tissue sarcomas, lung cancers, gynaecological cancers and genitourinary cancers where there is a huge role of carbon ion in treating hypoxic, radioresistant and chemoresistant tumours.
- I also attended the International Symposium on Ion Therapy meeting held at Saga HIMAT in November 2019 which had enriched me with new ideas and ongoing research in the field of hadron therapy.
- I visited Osaka HIMAK on January 2019 to see the establishment of latest CIRT facility and spent quality time with Dr Kanai discussing different physical aspects of Carbon Ion.
- I also visited Kanagawa carbon ion facility IROCK to know their working pattern and especially their techniques in treating moving tumours. It was really a wonderful experience for me.
- During my Carbon Ion training at NIRS I was involved in multiple clinical research projects and few basic science projects of which some are already published in reputed international peer reviewed journals.

#### **Recent Conferences attended:**

- **Conferences attended:**

1. International Symposium on Ion Therapy at Saga HIMAT, Japan in 2018
2. International Workshop on Carbon Ion Radiotherapy at NIRS, Japan in 2019.
3. Young Radiation Oncology Conference in Coimbatore, 2020. Attended as faculty and delivered lecture on **“Carbon Ion Radiotherapy: Overcoming radioresistance.”**

#### **Domain: Future Goals:**



### **Ongoing Projects:**

1. During my tenure at NIRS I worked on Ray station based platform where I had performed dosimetric comparison between VMAT, Proton and Carbon. The data is now being compiled for statistical analysis. It was the first study where we had planned cases with three different modalities of radiation in the same platform
2. We intend to do a propensity score match analysis comparing outcome of photon based chemoradiation and carbon ion therapy in locally advanced unresectable lung cancer. This will help us to establish a baseline data comparing carbon vs photon based radiation in lung cancer, an important step for our upcoming CIRT project.
3. We intend to do a propensity score match analysis comparing outcome of photon based chemoradiation and carbon ion therapy in locally advanced unresectable pancreatic cancer.
4. Currently auditing the quality indicators influencing the treatment outcome in post operative carcinoma endometrium.

### **Contribution towards departmental accredited courses:**

- **Joint Msc Phd in Medical Physics:** We are participating in regular teaching activities and help in conduct and administration of the semester examinations.
- **Advanced Certificate in Clinical Oncology and Research: (In partnership with IIT KGP)** I am playing a supporting role in academics and research for the fellowship program.
- **Diploma in Radiotherapy Technology (WB State Medical Faculty):** Actively involved in teaching students and interns.

Signature: \_\_\_\_\_

*Jayesh Bhattacharya*

Date: \_\_\_\_\_

*26/10/2021*