

## CURRICULUM VITAE

**Name:** Dr Rimpa Achari

**Designation:** Senior Consultant, Radiation Oncology.

**Disease management sites:** Neuro oncology | Hematolymphoid malignancy | Pediatric Oncology

### Work Contact Details:

Department of Radiation Oncology,

Tata Medical Center

14, Main Arterial Road (E W)

Newtown, Rajarhat

Kolkata, India

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### Educational Qualifications.

1. Undergraduate: MBBS (Calcutta National Medical College, Kolkata, India.)
2. Post Graduate: MD Radiation Oncology (Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India)
3. Senior residency: Tata Memorial Center, Mumbai, India.
4. Faculty observer: Department of Radiation Oncology, Duke University Medical Center, Durham, North Carolina, USA
5. UICC ICRETT Fellow in pediatric radiation oncology, Duke University Medical Center, Durham, North Carolina, USA

### Honors and Awards

University Gold Medal for proficiency in Anatomy: First Professional MBBS

University Honors in Anatomy: First Professional MBBS

University Gold Medal for proficiency in ENT: Final Professional MBBS

University Honors in ENT: Final Professional MBBS

University Honors in Ophthalmology: Final Professional MBBS

Best Paper Award in AROI meeting [Radiation Oncology]: 1998

Best Paper Award in AROI UP state chapter [Radiation Oncology]: 2001

Best Poster Award in AROI meeting [Radiation Oncology]: 2012

### Clinical Appointments

Consultant Radiation Oncologist Tata Medical Center, Kolkata: 04.04.2010 to date

### Memberships:

Association of Radiation Oncologists of India

Society of Neuro oncology

European association of neuro oncology

International lymphoma radiation oncology group

**Ongoing research projects:**

**Radiomics** as a tool for predicting outcomes in **high** grade gliomas

**Acronym:** RadGlio High - A\*

**Role:** Principal Investigator

**Recruitment:** Retrospective

Prospective evaluation of involved site versus involved node target volume parameters for deep inspiration breath-hold mediastinal radiation therapy for Hodgkin's lymphoma.

Peer reviewed and accepted for discussion: International Lymphoma Radiation Oncology Group (ILROG) meeting in Institut Gustave Roussy, Paris, May, 2018

**Role:** Principal Investigator

**Recruitment:** Ongoing

Phase II study to evaluate toxicity and clinical outcomes of definitive Helical Tomotherapy for primarily unresected carcinoma cervix using Fluoro-deoxy glucose Positron Emission Tomography based radiotherapy planning.

**Grant approval from Department of Biotechnology, Government of India: approved.**

**Role:** Principal Investigator

**Recruitment:** Complete

**Publications:**

1. Problems and uncertainties with multiple point A's during multiple high-dose-rate intracavitary brachytherapy in carcinoma of the cervix. Datta NR, Basu R, Das KJ, Rajasekar D, Pandey CM, Singh U, Ayyagari S. Clin Oncol (R Coll Radiol). 2004 Apr; 16(2):129-37.
2. Total reference air kerma: to what extent can it predict intracavitary volume enclosed by isodose surfaces during multiple high-dose rate brachytherapy? Datta NR, Das KJ, Basu R, Singh U. Brachytherapy. 2003; 2(2):91-7.
3. Problems in reporting doses and volumes during multiple high-dose-rate intracavitary brachytherapy for carcinoma cervix as per ICRU Report 38: a comparative study using flexible and rigid applicators. Datta NR, Basu R, Das KJ, Rajasekar D, Pandey CM, Ayyagari S. Gynecol Oncol. 2003 Nov; 91(2):285-92.
4. Tumor regression dynamics with external radiotherapy in cancer cervix and its implications. Datta NR, Rajkumar A, Basu R. Indian J Cancer. 2004 Jan-Mar; 41(1):18-24.
5. Variations in clinical estimates of tumor volume regression parameters and time factor during external radiotherapy in cancer cervix: does it mimic the linear-quadratic model of cell survival? Datta NR, Rajkumar A, Basu R. Indian J Cancer. 2005 Apr-Jun; 42(2):70-7.
6. Summated chemotherapy dose-intensity versus loco-regional response in locally advanced breast cancer: possible implications. Datta NR, Rajkumar A, Basu R. Indian J Cancer. 2003 Oct-Dec; 40(4):127-34.
7. Radiation therapy for sacral osteoblastoma. Rajkumar A, Basu R, Datta NR, Dhingra S, Gupta RK. Clin Oncol (R Coll Radiol). 2003 Apr; 15(2):85-6.
8. Spontaneous expulsion of a mediastinal lymph node in carcinoma of the esophagus. Basu R, Datta NR. Dis Esophagus. 2003; 16(1):44-6.
9. Hypofractionation in Breast Cancer: Is it Fair to Generalise the Data? S. Chatterjee, I. Mallick, R. Achari. Clinical Oncology 24 (2012) 228

10. R.Vaitheeswaran V.K.Sathiya Narayanan, Janhavi. R.Bhangale, Kamlesh K.Gupta, Sumit Basu, Vikram Maiya, Rimpa Basu Achari, "An optimization Algorithm for Aperture-based IMRT", 29th annual Conference of association of Medical physicists of India (AMPICON- 2008) BARC, Mumbai.
11. Dose escalation in image-guided, intensity-modulated radiotherapy of carcinoma prostate: initial experience in India. Swamy K, Sathiya Narayanan VK, Basu S, Maiya V, Achari R, Deshpande S, Bhangale J, Gupta KK, Babu N, Pawar S, Atre A, Balachandra K, Koppiker CB. J Cancer Res Ther. 2009 Oct-Dec; 5(4):277-83.
12. CT based HDR brachytherapy for intracavitary applications Janhavi.R.Bangle, V.K.sathianarayanan, Kamlesh Kumar Gupta, Sumit Basu, Rimpa Achari, Vikram Maiya 29th annual Conference of association of Medical physicists of India (AMPICON- 2008) BARC Poster-062 special issue pg no 94 Nov 2008.
13. Accelerated Partial Breast Irradiation. V Maiya, Kumaraswamy, Sathianarayan VKS, Bhangale J, Achari R, Koppiker C B. Oral presentation at the RSNA conference, Chicago, Nov 30, 2008.
14. An optimization algorithm for volumetrically segmented aperture-based IMRT R.Vaitheeswaran, V.K.sathianarayanan, Kamlesh Kumar Gupta, Janhavi.R.Bangle, R.Vaitheeswaran Sumit Basu, Rimpa Achari, Vikram Maiya 29th annual Conference of association of Medical physicists of India (AMPICON- 2008) BARC Oral -O23 Special Issue pg no 47 Nov 2008 PMID: 20160362 [PubMed - in process]
15. Stereotactic Radiosurgery using X knife: an Institutional Audit. Achari R, Bhanage A B, Basu S, Maiya V, Sathianarayanan VK, Bhangale J and Gupta K. Abstracted after oral presentation at the International Society of Radiosurgery, Seoul, 2009.
16. Can offline corrections effectively substitute for daily online imaging in radiotherapy of carcinoma of Prostate? D. Prasad, P. Das, N. Saha, M. Nandi, S. Guha, S. Chatterjee, R. Achari, I. Mallick. ESTRO, Bracelona, 2012.
17. Image guidance for adjuvant radiotherapy in gastric cancer – exploring uncertainties and solutions by I. Mallick, N. Lingampally, T. Majumdar, R. Achari, S. Chatterjee. ESTRO, Barcelona, 2012.
18. Outcomes Following a Moderately Hypofractionated Adjuvant Radiation (START B Type) Schedule for Breast Cancer in an Unscreened Non-Caucasian Population. Chatterjee S, Arunsingh M, Agrawal S, Dabkara D, Mahata A, Arun I, Shrimali RK, Achari R, Mallick I, Ahmed R. Clin Oncol (R Coll Radiol). 2016 Oct;28(10):e165-72. doi: 10.1016/j.clon.2016.05.008. Epub 2016 Jun 28.
19. Das A, Roy P, Modi SK, Achari RB, Sen S, Singh A, Sukumaran R, Bhattacharyya A. Germline DICER1-mutant intracranial sarcoma with dual chondroid and spindle cell morphology and pulmonary metastases treated with multimodal therapy. Pediatr Blood Cancer. 2019 Apr 16:e27744. doi: 10.1002/pbc.27744. [Epub ahead of print] PubMed PMID: 30989777.
20. Das A, Chowdhury SP, Achari RB, Zameer L, Sen S, Sukumaran RK, Bhattacharyya A. Challenges in the management of localized intracranial ependymoma in children: Experience from a referral oncology center in Eastern India. Pediatr Hematol Oncol. 2018 Aug - Sep;35(5-6):369-372. doi: 10.1080/08880018.2018.1564806. Epub 2019 Jan 20. PubMed PMID: 30661422.
21. Shrimali RK, Nallathambi C, Saha A, Das A, Prasath S, Mahata A, Arun B, Mallick I, Achari R, Dabkara D, Thambudurai R, Chatterjee S. Radical radiotherapy or chemoradiotherapy for inoperable, locally advanced, non-small cell lung cancer: Analysis of patient profile, treatment approaches, and outcomes for 213 patients at a tertiary cancer center. Indian J Cancer. 2018 Apr-Jun;55(2):125-133. doi: 10.4103/ijc.IJC\_469\_17. PubMed PMID: 30604722.
23. Shrimali RK, Chakraborty S, Bhattacharyya T, Mallick I, Achari RB, Prasath S, Arun B, Mahata A, Vidhya Shree M, Vishnupriya E, Chatterjee S. 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). *Br J Radiol*. 2019 Feb;92(1094):20180431. doi: 10.1259/bjr.20180431. Epub 2018 Nov 9. PubMed PMID: 30387364; PubMed Central PMCID: PMC6404834.

24. Chatterjee S, Chakraborty S, Moses A, Nallathambi C, Mahata A, Mandal S, Achari RB, Mallick I, Shrimali RK, Bhattacharyya T, Agrawal S, Ghosh J, Ahmed R. 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. *Pract Radiat Oncol*. 2018 Nov - Dec;8(6):382-387. doi: 10.1016/j.prro.2018.03.007. Epub 2018 Mar 21. PubMed PMID: 29699893.

25. Shrimali RK, Arunsingh M, Reddy GD, Mandal S, Arun B, Prasath S, Sinha S, Mallick I, Achari R, Chatterjee S. Actual gains in dosimetry and treatment delivery efficiency from volumetric modulated arc radiotherapy for inoperable, locally advanced lung cancer over five-field forward-planned intensity-modulated radiotherapy. *Indian J Cancer*. 2017 Jan-Mar;54(1):155-160. doi: 10.4103/ijc.IJC\_79\_17. PubMed PMID: 29199680.

26. Shrimali RK, Arunsingh M, Das A, Mallick I, Mahata A, Prasath S, Achari R, Chatterjee S. Continuous hyperfractionated accelerated radiotherapy using modern radiotherapy techniques for nonsmall cell lung cancer patients unsuitable for chemoradiation. *Indian J Cancer*. 2017 Jan-Mar;54(1):120-126. doi: 10.4103/ijc.IJC\_158\_17. PubMed PMID: 29199674.

27. Das A, Zameer L, Vinarkar S, Singh M, Parihar M, Arora N, Chandra A, Achari RB. TP53 Mutation, MYCN Amplification, and Large Cell/Anaplastic Histology in Medulloblastoma. *Indian J Pediatr*. 2018 Aug;85(8):684-685. doi: 10.1007/s12098-017-2527-6. Epub 2017 Nov 15. PubMed PMID: 29139064.

25. Arora N, Mehta A, Ravichandran S, Arun I, Achari RB, Chakrapani A, Bhawe SJ, Chandy M, Nair R. NK/T Cell Lymphoma: A Tertiary Centre Experience. *Indian J Hematol Blood Transfus*. 2017 Mar;33(1):69-73. doi: 10.1007/s12288-016-0675-x. Epub 2016 Apr 21. PubMed PMID: 28194059; PubMed Central PMCID: PMC5280857.

27. Achari R, Arunsingh M, Badgami RK, Saha A, Chatterjee S, Shrimali RK, Mallick I, Arun B. High-dose Neural Stem Cell Radiation May Not Improve Survival in Glioblastoma. *Clin Oncol (R Coll Radiol)*. 2017 Jun;29(6):335-343. doi: 10.1016/j.clon.2017.01.010. Epub 2017 Feb 8. PubMed PMID: 28188088.

28. Arunsingh M, Mallick I, Prasath S, Arun B, Sarkar S, Shrimali RK, Chatterjee S, Achari R. Acute toxicity and its dosimetric correlates for high-risk prostate cancer treated with moderately hypofractionated radiotherapy. *Med Dosim*. 2017 Spring;42(1):18-23. doi: 10.1016/j.meddos.2016.10.002. Epub 2017 Jan 24. PubMed PMID: 28129973.

29. Chatterjee S, Arunsingh M, Agrawal S, Dabkara D, Mahata A, Arun I, Shrimali RK, Achari R, Mallick I, Ahmed R. Outcomes Following a Moderately Hypofractionated Adjuvant Radiation (START B Type) Schedule for Breast Cancer in an Unscreened Non-Caucasian Population. *Clin Oncol (R Coll Radiol)*. 2016 Oct;28(10):e165-72. doi: 10.1016/j.clon.2016.05.008. Epub 2016 Jun 28. PubMed PMID: 27369459.

30. Saha A, Mallick I, Das P, Shrimali RK, Achari R, Chatterjee S. Evaluating the Need for Daily Image Guidance in Head and Neck Cancers Treated with Helical Tomotherapy: A Retrospective Analysis of a Large Number of Daily Imaging-based Corrections. Clin Oncol (R Coll Radiol). 2016 Mar;28(3):178-84. doi: 10.1016/j.clon.2015.11.014. Epub 2015 Dec 30. PubMed PMID: 26746002.
31. Gupta SK, Mallick I, Ray R, Shrimali RK, Achari R, Chatterjee S. Planning target volumes determine weight loss in highly conformal radiation therapy in head and neck cancers--a validation study. Clin Oncol (R Coll Radiol). 2014 Oct;26(10):668. doi: 10.1016/j.clon.2014.05.008. Epub 2014 Jun 5. PubMed PMID: 24908569.
32. Prasad D, Das P, Saha NS, Chatterjee S, Achari R, Mallick I. Image guidance in prostate cancer - can offline corrections be an effective substitute for daily online imaging? J Cancer Res Ther. 2014 Jan-Mar;10(1):21-5. doi: 10.4103/0973-1482.131342. PubMed PMID: 24762481.
33. Nandi M, Mahata A, Mallick I, Achari R, Chatterjee S. Hypofractionated radiotherapy for breast cancers--preliminary results from a tertiary care center in eastern India. Asian Pac J Cancer Prev. 2014;15(6):2505-10. PubMed PMID: 24761855.
35. Chatterjee S, Guha S, Prasath S, Mallick I, Achari R. Carotid sparing hypofractionated tomotherapy in early glottic cancers: Refining image guided IMRT to improve morbidity. J Cancer Res Ther. 2013 Jul-Sep;9(3):452-5. doi: 10.4103/0973-1482.119349. PubMed PMID: 24125982.
36. Chatterjee S, Sarkar S, Mahata A, Roy R, Achari R, Mallick I. Parotid dosimetric changes correlate to weight loss during radical but not adjuvant head and neck radiotherapy: an exploratory analysis. Clin Oncol (R Coll Radiol). 2013 Nov;25(11):685-6. doi: 10.1016/j.clon.2013.08.004. Epub 2013 Aug 29. PubMed PMID: 23994039.
37. Mallick I, Gupta SK, Ray R, Sinha T, Sinha S, Achari R, Chatterjee S. Predictors of weight loss during conformal radiotherapy for head and neck cancers - how important are planning target volumes? Clin Oncol (R Coll Radiol). 2013 Sep;25(9):557-63. doi: 10.1016/j.clon.2013.04.003. Epub 2013 May 4. PubMed PMID: 23651866.
38. Chatterjee S, Mallick I, Achari R. Hypofractionation in breast cancer: is it fair to generalise the data? Clin Oncol (R Coll Radiol). 2012 Apr;24(3):228. doi: 10.1016/j.clon.2011.11.003. Epub 2011 Nov 25. PubMed PMID: 22118806.

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