

Dr Anuj Kumar S

Radiation Oncologist



Personal Info

DOB: June 20, 1988

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Experience

16th June 2021- Present: **Assistant Professor**, Head and Neck DMG,
Department of Radiation Oncology, ACTREC, Tata Memorial Centre

August 2020-15th June 2021: **Chief Resident**

Department of Radiation Oncology, Tata Memorial Hospital, Mumbai

August 2018-July 2020: **Senior Resident**

Department of Radiation Oncology, Tata Memorial Hospital, Mumbai

June 2015- May 2018: **Junior Resident**

Department of Radiation Oncology, Tata Memorial Hospital, Mumbai

Education

June 2015- May 2018: **MD in Radiation Oncology**,

Tata Memorial Centre, Mumbai

June 2007-March 2013: **MBBS**,

Sri Devaraj Urs University, Kolar, Karnataka

Memberships

American Society of Clinical Oncology

Association of Radiation Oncologists of India

Foundation of Head and Neck Oncology

Publications

1	Reducing Salivary Toxicity with Adaptive Radiotherapy (ReSTART): A Randomized Controlled Trial Comparing Conventional IMRT to Adaptive IMRT in Head and Neck Squamous Cell Carcinomas.
	Ghosh Laskar S, Sinha S, Kumar A , Samanta A, Mohanty S, Kale S, Khan F, Lewis Salins S, Murthy V.
	Clin Oncol (R Coll Radiol). 2024 Jun;36(6):353-361. doi: 10.1016/j.clon.2024.03.015. Epub 2024 Mar 18. PMID: 38575432. Copy
2	Contralateral Nodal Relapse in Well-lateralised Oral Cavity Cancers Treated Uniformly with Ipsilateral Surgery and Adjuvant Radiotherapy With or Without Concurrent Chemotherapy: a Retrospective Study
	Swain M, Budrukkar A, Murthy V, Pai P, Kanoja A, Ghosh-Laskar S, Deshmukh A, Pantvaidya G, Kannan S, Patil VM, Naronha V, Prabhash K, Sinha S, Kumar A , Gupta T, Agarwal J.
	Clin Oncol (R Coll Radiol). 2024 May;36(5):278-286. doi: 10.1016/j.clon.2024.02.003. Epub 2024 Feb 10. PMID: 38365518.
3	Development and Validation of Single-Optimization Knowledge-Based Volumetric Modulated Arc Therapy Model Plan in Nasopharyngeal Carcinomas
	Shwetabh Sinha, Anuj Kumar , Guncha Maheshwari, Samarpita Mohanty, Kishore Joshi, Prakash Shinde, Deeksha Gupta, Shrikant Kale, Reena Phurailatpam, Monali Swain, Ashwini Budrukkar, Rajesh Kinhikar, Sarbani Ghosh-Laskar
	Advances in Radiation Oncology, https://doi.org/10.1016/j.adro.2023.101311 , July 2023
4	Psycho-oncology/Supportive Care in Head–Neck Cancers Patients Undergoing Radiation Therapy:A Randomized Controlled Trial
	Shwetabh Sinha, Saket Pandey, Shirley L. Salins, Naveen Salins, Jayita Deodhar, Tejpal Gupta, Sarbani G. Laskar, Ashwini Budrukkar, Monali Swain, Anuj Kumar, Vedang Murthy, Sudhir Nair, Deepa Nair, Poonam Joshi, Pankaj Chaturvedi, Nandini Menon, Vijay Patil, Amit Joshi, Vanita Noronha, Kumar Prabhash, Jai Prakash Agarwal
	South Asian Journal of Cancer 2023
5	Machine-Learning-Based Radiomics for Classifying Glioma Grade from Magnetic Resonance Images of the Brain
	Kumar A , Jha AK, Agarwal JP, Yadav M, Badhe S, Sahay A, Epari S, Sahu A, Bhattacharya K, Chatterjee A, Ganeshan B, Rangarajan V, Moyiadi A, Gupta T, Goda JS.
	J Pers Med. 2023 May 30;13(6):920. doi: 10.3390/jpm13060920. PMID: 37373909; PMCID: PMC10305272.
6	Prophylactic versus reactive feeding approach in patients undergoing adjuvant radiation therapy for oral cavity squamous cell carcinoma: A propensity score matched-pair analysis.
	Ghosh Laskar S, Sinha S, Gupta M, Karmakar S, Nivedha J M, Kannan S, Budrukkar A, Swain M, Kumar A , Gupta T, Murthy V, Chaukar D, Pai P, Chaturvedi P, Pantvaidya G, Nair D, Nair S, Thiagarajan S, Deshmukh A, Noronha V, Patil V, Joshi A, Prabhash K, Agarwal JP
	Head Neck. 2023 May;45(5):1226-1236. doi: 10.1002/hed.27336. Epub 2023 Mar 13. PMID: 36912016
7	Oral cavity adjuvant therapy (OCAT) -a phase III, randomized controlled trial of surgery followed by conventional RT (5 fr/wk) versus concurrent CT-RT versus accelerated RT (6fr/wk) in locally advanced, resectable, squamous cell carcinoma of oral cavity.
	Laskar SG, Chaukar D, Deshpande M, Chatterjee A, Sinha S, Chakraborty S, Agarwal JP, Gupta T, Budrukkar A, Murthy V, Pai P, Chaturvedi P, Pantvaidya G, Deshmukh A, Nair D, Nair S, Prabhash K, Swain M, Kumar A , Noronha V, Patil V, Joshi A, DCruz A.

	Eur J Cancer. 2023 Mar;181:179-187. doi: 10.1016/j.ejca.2022.12.016. Epub 2022 Dec 26. PMID: 36669426.
8	Utilising alternative cystoscopic schedules to minimise cost and patient burden after trimodality therapy for muscle-invasive bladder cancer. Krishnatry R, Maitre P, Kumar A , Telkhade T, Bakshi G, Prakash G, Pal M, Joshi A, Menon S, Murthy V. Cancer Med. 2023 May;12(10):11305-11314. doi: 10.1002/cam4.5840. Epub 2023 Mar 25. PMID: 36965102; PMCID: PMC10242324
9	A Longitudinal Study to Reexamine the Mental Health Impact on Radiation Oncology Health Care Workers with the Launch of COVID-19 Vaccination Strategies in India Tabassum Wadasadawala, Anuj Kumar , Sarbani G. Laskar, Smruti Mokal, Rakesh Kapoor, Abhijit Das, Satyajit Pradhan, Lincoln Pujari, Umesh Mahantshetty, Rohit Vadgaonkar, Jai P. Agarwal IJMPO, 2022
10	Impact of the First Wave of COVID-19 Pandemic on Radiotherapy Practice at Tata Memorial Centre, Mumbai: A Longitudinal Cohort Study Tibdewal A, Pathak R, Kumar A , Anand S, Ghosh Laskar S, Sarin R, Chopra S, Engineer R, Laskar S, Murthy V, Gupta T, Agarwal JP JCO Glob Oncol. 2022 Jul;8:e2100365. doi: 10.1200/GO.21.00365. PMID: 35802835; PMCID: PMC9296187
11	Radiation and radioisotopes for human healthcare applications Sharmila Banerjee, Sandip Basu, Akshay D. Baheti, Suyash Kulkarni, Venkatesh Rangarajan, Prashant Nayak, Vedang Murthy, Anuj Kumar , Sarbani G. Laskar, J. P. Agarwal, Sudeep Gupta, R. A. Badwe Current Science, August 2022
12	Definitive and adjuvant radiation therapy for external auditory canal and temporal bone squamous cell carcinomas: Long term outcomes. Laskar SG, Sinha S, Pai P, Nair D, Budrukkar A, Swain M, Kumar A , Moiyadi A, Shetty P, Ray V, Johnny C, Murthy V, Gupta T, Menon N, Patil V, Noronha V, Joshi A, Prabhash K, Agarwal JP. Radiother Oncol. 2022 May;170:151-158. doi: 10.1016/j.radonc.2022.02.021. Epub 2022 Feb 24. PMID: 35219800
13	Volumetric and Dosimetric Comparison between Two Different Safety Margins for CTV Delineation in Accelerated Partial Breast Irradiation with Brachytherapy Anuj Kumar , Tabassum Wadasadawala, Swati Kumari, Kishore Joshi, Rima Pathak, Rajiv Sarin Brachytherapy Journal, May 2019
14	Is Transoral Robotic Surgery (TORS) for oropharyngeal squamous cell carcinoma being done more often than actually indicated? Kumar A , Laskar SG, Thiagarajan S Head Neck. 2021 Apr;43(4):1376-1377. doi: 10.1002/hed.26569. Epub 2020 Dec 9. PMID: 33295681.
15	Mental Health Impact of COVID-19 in Radiation Oncology Health Care Workers of Asian Countries. Kumar A , Wadasadawala T, Laskar SG, Gondhowiardjo S, Agarwal JP. Clin Oncol (R Coll Radiol). 2021 May;33(5):e243-e244. doi: 10.1016/j.clon.2021.02.007. Epub 2021 Feb 25. PMID: 33676823; PMCID: PMC7904513.
16	Oligometastatic nasopharyngeal cancer: Intent and approach? Laskar SG, Kumar A , Sinha S. Bengal J Cancer 2021;1:6-7
17	Intensification of adjuvant treatment in early oral cancers. Kumar A , Sinha S, Laskar SG. Ann Oncol Res Ther 2021;1:3-9.

18	Diagnostic Performance of Response Assessment FDG-PET/CECT in HNSCC Treated With Definitive Radio(chemo)therapy Using NI-RADS
	Sonz Paul, Tejpal Gupta, Nilendu Purandare, Kishore Joshi, Sarbani Ghosh-Laskar, Ashwini Budrukhar, Monali Swain, Shwetabh Sinha, Anuj Kumar, Amit Joshi, Kumar Prabhash, Sudhir Nair, Venkatesh Rangarajan, Jai Prakash Agarwal
	Otolaryngol Head Neck Surg (March 2023)
19	Wadasadawala T, Kumar A , Laskar SG, et al.
	CO Glob Oncol. 2021 Apr;7:464-473. doi: 10.1200/GO.20.00647. PMID: 33822644; PMCID: PMC8081510
	CO Glob Oncol. 2021 Apr;7:464-473. doi: 10.1200/GO.20.00647. PMID: 33822644; PMCID: PMC8081510
20	Compliance of Radiotherapy Treatment at a Tertiary Cancer Center in India—A Clinical Audit
	Khanna, Nehal; Kumar, Anuj ; Kataki, Kaushik et al
	Indian Journal of Medical and Paediatric Oncology. 43. 084-091. 10.1055/s-0042-1742666
21	Contribution of Tata Memorial Centre, India, to cervical cancer care,
	Kumar, Anuj ; Chopra, Supriya; Gupta, Sudeep
	Indian Journal of Medical Research August 2021 - Volume 154 - Issue 2 - p 319-328 doi: 10.4103/ijmr.IJMR_339_21
22	Brachytherapy in India: Learning from the past and looking into the future.
	Kumar A , Chopra S, Mahantshetty U, Reddy VA.
	Brachytherapy. 2020 Nov-Dec;19(6):861-873. doi: 10.1016/j.brachy.2020.08.019. Epub 2020 Sep 15. PMID: 32948463
23	What is the dosimetric impact of isotropic vs anisotropic safety margins for delineation of the clinical target volume in breast brachytherapy?
	Kumar A , Wadasadawala T, Joshi K, Pathak R, Scaria L, Upreti RR, Bhajbhujje R, Shet T, Parmar V, Gupta S, Mokal S, Sarin R.
	Brachytherapy. 2021 Jan-Feb;20(1):155-162. doi: 10.1016/j.brachy.2020.06.019. Epub 2020 Sep 2. PMID: 32888852.

Ongoing studies

As Principal Investigator:

- A Phase III Randomized Controlled Trial Evaluating Toxicity and Quality of Life between a Short Course of Hypofractionated versus Conventionally fractionated Chemoradiation for Locally Advanced Unresectable Oral Cancers (SHyne)
- A Pilot Clinical Study to Evaluate the Safety and Efficacy of Photobiomodulation Therapy in Reducing Oral Mucositis in Head and Neck Cancer Patients Undergoing Radiation Therapy
- Impact of Radiation Therapy Volumes on Patterns of Failure in patients with Perineural invasion in Oral Squamous cell carcinoma

As Co-Principal Investigator:

- A Retrospective Study to evaluate the Impact of Radiation Therapy volumes on Patterns of Failure in patients with Perineural Invasion in Oral Squamous cell carcinoma
- Randomised Trial comparing efficacy of Prophylactic versus Reactive Enteral Tube Insertion for Enteral Nutrition in Patients with Locally Advanced Head and Neck Carcinoma Treated with (Chemo)radiotherapy

As Co-Investigator:

- Outcomes of Head and Neck Neuroendocrine cancers following multimodality treatment: A retrospective clinical audit from single institute
- Clinicopathological spectrum of salivary gland Myoepithelial carcinoma of the head and neck region
- Dosimetric comparative study of Intensity Modulated radiotherapy (IMRT) versus Intensity Modulated Proton Therapy (IMPT) in Sinonasal Cancers
- Concurrent chemoradiation versus neoadjuvant chemotherapy followed by definitive therapy for management of locally advanced resectable hypopharyngeal squamous cancers: A phase III randomized controlled trial.
- Proteomics based approach to identify and validate a set of potential biomarkers in head and neck squamous cell carcinoma
- An open-labelled, randomized, two-arm, non-inferior clinical investigational plan to evaluate the efficacy of novel moisturizing bio-patch compared to standard of care in Xerostomia (radiotherapy-induced xerostomia / Sjogren's syndrome / drug-induced xerostomia).
- A Phase I Study to Assess the Safety of Hyperthermic Intracavitary Chemotherapy in Advanced Oral Cancers (HICOC)
- Phase 3 study comparing TPF versus Paclitaxel-Carboplatin and oral metronomic chemotherapy as neoadjuvant chemotherapy for borderline resectable oral cancers
- Cross sectional study of late effects in Nasopharyngeal carcinoma treated with Intensity Modulated Radiation Therapy
- A Phase II randomized study to assess the radioprotective effect of oral chlorophyllin in acute toxicity reduction for Head Neck cancer patients receiving radiation / chemoradiation.
- Deep learning-based post neoadjuvant chemotherapy response and survival outcome prediction in gingivobuccal complex carcinomas on computed tomography (CT) and histopathology slides
- Dosimetric and Feasibility study of Sparing of Tubarial Salivary Glands in Head and Neck Cancer patients treated with Definitive Radiotherapy, with or without Concurrent Chemotherapy
- Free Fibula Flap (FFF) versus Pedicled Pectoralis Major Myocutaneous flap (PMMC) for the reconstruction of the lateral mandibular defects in Oral Cancer Patients: A Prospective observational study to evaluate the Quality of life and Cost-effectiveness.
- Artificial Intelligence based radiotherapy treatment planning for Cervical and Head and Neck cancer
- Patterns of Failure and Outcomes in Carcinoma of Unknown Primary of the Head & Neck
- Improving the accuracy of NI-RADS score in head-neck squamous cell cancers by adding qualitative and quantitative FDG PET parameters
- Voice Quality after Transoral CO₂-Laser Surgery versus Single Vocal Cord Irradiation for Unilateral Stage 0 & I Glottic Larynx Cancer – A Randomized Phase III Trial
- Sentinel Node Biopsy Versus Limited Elective Neck Dissection In Early Cancers Of Oral Cavity NoDe Negative (SECOND N0)- Non inferiority phase III trial

- Intra-operative gross examination versus frozen section for achievement of adequate margin in patients undergoing surgery for oral cavity squamous cell carcinoma: A randomized controlled trial.
- Audit of clinical outcomes of patients of de novo metastatic nasopharyngeal cancer treated with induction chemotherapy followed by radical doses of loco-regional treatment (concurrent radical chemo-radiotherapy) with or without local treatment of the metastatic disease
- Reducing Salivary Toxicity with Adaptive Radiotherapy (ReSTART): A Randomized Controlled trial.
- Quality of life and swallowing outcomes after re-irradiation for recurrent and second primary head and neck cancers
- Prospective Screening log for patients with recurrent or second primary Head and Neck Cancers referred for re-Radiotherapy.
- Impact of IDH and MGMT in predicting overall survival for patients with Glioblastoma.
- Vitamin D Receptor Gene Polymorphisms and Risk of developing Bone Metastases in patients with Breast Cancer

Reviewer

1. Brachytherapy-An International Multidisciplinary Journal
2. Cancer Reports
3. BMC Cancer
3. Indian Journal of Medical and Paediatric Oncology
4. JCO Global Oncology

Training

- Lab Experience in Genetics at Sarin Cancer Genetics Lab, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai, India.
- Hands on experience in techniques including DNA Extraction, Polymerase Chain Reaction, Agarose Gel Electrophoresis and Restriction Fragment Length Polymorphism.
- Virtual Regional Training Course on Basic Science and Clinical Applications of Hypofractionated Radiotherapy, Virtual meeting from Vienna conducted by International Atomic Energy Agency, Austria (October 2022)
- Team leader for EQUiP, a quality improvement program from Standford University and NCG, India

International Presentations and Awards

1. Oral Presentation with Travel Grant Award at the International Conference of Head and Neck Oncology (ICHNO) 2024, 'Patterns of Recurrence in Oral Cavity Squamous Cell Carcinoma with Perineural Invasion: Impact of Radiation Therapy Volumes'.
2. Meritorious Award for Oral Presentation, Indian Cancer Congress, November 2023, 'Reirradiation in Head & Neck Cancers: Reasons for Denial & Long-term Outcomes'
3. Oral Presentation: American Brachytherapy Society Annual Conference, Miami, Florida, June 2019, 'Volumetric and Dosimetric Comparison between Two different Safety Margins for CTV Delineation in Accelerated Partial Breast Irradiation with Interstitial Brachytherapy.'
4. Poster Presentation, International Conference on Landscape of Genetic Variants in Asian Founder Populations- From Near to Far East, 2017, India, 'Association of Vitamin D Receptor Polymorphisms and Risk of developing Bone Metastases in patient with Breast Cancer'.

Extra-Curricular Activities

1. Trained Indian Carnatic Singer.
2. Best Male Singer Award in Undergraduate Medical College.
3. First Prize Winner in Inter-College Solo Singing Competition in South India, 2010.
4. Received accolades in various television shows and music programs.