

## RESEARCH AND PUBLICATIONS:

The department is actively engaged in research endeavours aimed at advancing cancer treatment and improving patient outcomes. Our team collaborates on various studies, clinical trials, and innovative projects, contributing to the field of oncology.

### 2023

Krishna, Abhishek, M. S. Athiyamaan, Challapalli Srinivas, Sourjya Banerjee, Johan Sunny, and Dilson Lobo. "Geographic and demographic distribution and access to brachytherapy in India with its implications on cancer care." *Brachytherapy* (2023).

Krishna, Abhishek, M. Sathya, S. Mukesh, M. S. Athiyamaan, Sourjya Banerjee, Johan Sunny, Challapalli Srinivas, Dilson Lobo, Bharat Sai Makkapatti, and Vaishak Jawahar. "Efficacy and safety of EGFR inhibitor gefitinib in recurrent or metastatic cervical cancer: a preliminary report." *Medical Oncology* 40, no. 7 (2023): 203.

Johan, Sunny K., Dilson Lobo, M. S. Athiyamaan, Challapalli Srinivas, Sourjya Banerjee, Krishna Abhishek, and PU Prakash Saxena. "In-vivo Comparison of Planned and Measured Rectal Doses during Cobalt-60 HDR CT-based Intracavitary Brachytherapy Applications of Cervical Cancer Using the PTW 9112 Semiconductor Probe." *Asian Pacific Journal of Cancer Prevention: APJCP* 24, no. 3 (2023): 897.

Krishna, Abhishek, A. G. Hasib, Donald Fernandes, M. S. Athiyamaan, Sandesh Rao, Sharaschandra Shankar, Mohsina Ali et al. "Comparison of two high dose rate intracavitary brachytherapy regimens in treatment of cervical cancer: a preliminary report." *Discover Oncology* 14, no. 1 (2023): 33.

Baliga, M.S., Lasrado, S., Krishna, A., George, T., Madathil, L.P., D'souza, R.F. and Palatty, P.L., 2023. Social, Ethical and Treatment Related Problems Faced by Healthcare Workers in the Care of Head and Neck Cancer Patients: A Narrative Review from the Bioethics Consortium from India. *Indian Journal of Otolaryngology and Head & Neck Surgery*, pp.1-11.

Manohar, V.R., Rai, M. and Athiyamaan, M.S., 2023. Evaluation of the Antipyretic and Anti-Inflammatory Potential of Aqueous Fruit Pulp Extract of *Terminalia bellirica*. *Biomedical and Pharmacology Journal*, 16(1), pp.295-304.

Srinivas, C., Banerjee, S., Lobo, D., Athiyamaan, M.S., Ramamoorthy, R., Johan, S., Abhishek, K., Ajaykumar, S. and Kumar, E.S., 2023. Dosimetric Study to Estimate Deviations in Delivered Radiation Dose due to Occluded Air Spaces in Vaginal Vault Brachytherapy Applications. *Asian Pacific Journal of Cancer Prevention*, 24(5), pp.1659-1666.

Apoorva, K. V., S. Vijendra Shenoy, M. S. Athiyamaan, Sushmitha Kabekkodu, K. Kshithi, and Neehal Zuturu. "Radiation dose to the cochlea and its association with sensorineural hearing loss in head and neck cancer-A prospective study." *American Journal of Otolaryngology* 44, no. 4 (2023): 103914.

Pai, Radhika R., Ravikiran Ongole, and Sourjya Banerjee. "Can Nurses' Training and Documentation Audit Improve the Oral Care Practice among Patients Receiving Cancer Treatment? Results from the Pretest-Post-Pest Study." *Asian Pacific Journal of Cancer Prevention* 24, no. 5 (2023): 1635-1642.

Makkapati, Bharat, Dilson Lobo, Abhishek Krishna, M. S. Athiyamaan, Sourjya Banerjee, Challapalli Srinivas, and Johan Sunny. "Comparison of the dosimetric benefits of two different three-dimensional conformal radiotherapy treatment approaches for postmastectomy radiotherapy." (2023).

Srikant Natarajan, M.D.S., MD, S.S.M., Ray, A.B., Menon, N., Suresh, K., Bharat, T.B. and Jawahar, V., PREVALENCE OF CANDIDAL SPECIES IN SALIVA BEFORE AND AFTER ORAL CANCER THERAPY.

### 2022

Almas Binnal, Gururaghavendran Rajesh, P U Prakash Saxena, Sourjya Banerjee, Ceena Denny, Santosh Kumar Tadakamadla Health-related quality of life among oral and oropharyngeal cancer patients : an exploratorystudyoriginal10.1111/odi.13772index

Raviprasad Kuthethur, Vaibhav Shukla, Sandeep Mallya, Divya Adiga, Shama Prasad kabekkodu, Lingadakai Ramachandra, P U Prakash Saxena, Kapaettu Satyamoorthy, Sanjiban Chakrabarty Expression analysis and function of mitochondrial genome - encoded micro RNAs original DOI: 10.1242/jcs.258937.

Ravindra Reddy, Stephen Samuel, Vijay Pratap Singh, Sourjya Banerjee Effect of exercise training on cardiotoxicity in cancer Survivors. A systematic review originalDOI:10.12688/f1000research.112667.1

Macrina D'souza, Stephen Samuel, Santosh Rai, Gopala Krishna Alaparathi, P U Prakash Saxena, Ravishankar NagarajaDiaphragm Thickness, mobility and respiratory muscle strength in patients with head and neck cancer receiving chemoradiation therapy: A longitudinal pilot study original DOI: 10.12688/f1000research.108596.1 PPR: PPR466674

Jyoti R. Kini, Deviprasad Dosemane, K Kshithi, Sourjya Banerjee Spindle Cell Carcinoma masquerading as a benign polyp of the soft palate Original PMID: 35900562 DOI: 10.4103/jcrt.JCRT\_617\_20

Lobo Dilson, Srinivas Challapalli, Banerjee Sourjya, M S Athiyamaan, Ravichandran Ramamoorthy, Sunny Johan, Krishna AbhishekEstimation of surface dose in the presence of unwanted air gaps under the bolus in postmastectomy radiation therapy: A phantom Dosimetric Study DOI: 10.31557/APJCP.2022.23.9.2973

Thejas Karthikolly, Sreekumaran N Nair, Aju Mathew, Prakash P U Saxena, Suma Nair Can serum autoantibodies be a potential early detection biomarker for breast cancer in women ? A diagnostic test accuracy review and meta-analysis DOI: 10.1186/s13643-022-02088

## **2021**

Dilson Lobo Srinivas Challapalli · Sourjya Banerjee · Suman Kumar Putha P. U. Prakash Saxena · Raghavendra Holla · R. Shreyas Ravichandran Ramamoorthy Fabrication and development of a thorax phantom to evaluate 3D CRT treatment planning techniques for post-mastectomy chest wall Radiotherapy. Physical and engineering science in medicine 2021;44(2):425-432.

Dilson Lobo, Sourjya Banerjee, Challapalli Srinivas, MS Athiyamaan, Shreyas Reddy, Johan Sunny, Ramamoorthy Ravichandran, Himani Kotian, PU Prakash Saxena Surface dose measurements in chest wall postmastectomy radiotherapy to achieve optimal dose delivery with 6 MV photon beam

Almas Binnal Gururaghavendran Rajesh PU Prakash Saxena Sourjya Banerjee Ceena Denny Santosh Kumar Tadakamadla Health related quality of life among oral and oropharyngeal cancer patients: An exploratory study.

Anirudh Ashok Aatresh · Kumar Alabhya · Shyam Lal · Jyoti Kini · PU Prakash Saxena LiverNet: efficient and robust deep learning model for automatic diagnosis of sub-types of liver hepatocellular carcinoma cancer from H&E stained liver histopathology images.

Gururaj, R., Samuel, S. R., Vijaya Kumar, K., Hegde, A., Prakash Saxena, P. U., Nagaraja, R., & Palesh, O. (2021). Relationship between physical activity, objective sleep parameters, and circadian rhythm in patients with head and neck cancer receiving chemoradiotherapy: A longitudinal study.

Ashwin Kamath, K. Maneesh Rai, R. Shreyas, PU Prakash Saxena & Sourjya Banerjee Effect of Domperidone, Ondansetron, Olanzapine-Containing Antiemetic Regimen on QTc interval in Patients with Malignancy: A Prospective, Observational, Single-Group, Assessor-Blinded study

## **2020**

Almas Binnal, Gururaghavendran Rajesh, P U Prakash Saxena, Sourjya Banerjee, Ceena Denny, Santosh Kumar Tadakamadla Health-related quality of life among oral and oropharyngeal cancer patients: an exploratory study 10.1111/odi.13772.

Raviprasad Kuthethur, Vaibhav Shukla, Sandeep Mallya, Divya Adiga, Shama Prasad Kabekkodu, Lingadakai Ramachandra, P U Prakash Saxena, Kapaettu Satyamoorthy, Sanjiban Chakrabarty Expression analysis and function of mitochondrial genome - encoded micro RNAs Original DOI: 10.1242/jcs.258937

Ravindra Reddy, Stephen Samuel, Vijay Pratap Singh, Sourjya Banerjee Effect of exercise training on cardiotoxicity in cancer Survivors. A systematic review DOI:10.12688/f1000research.112667.1 4.

Macrina D'souza, Stephen Samuel, Santosh Rai, Gopala Krishna Alaparathi, P U Prakash Saxena, Ravishankar Nagaraja Diaphragm Thickness, mobility and respiratory muscle strength in patients with head and neck cancer receiving chemoradiation therapy: A longitudinal pilot study DOI: 10.12688/f1000research.108596.1 PPR: PPR466674 5.

Jyoti R. Kini, Deviprasad Dosemane, K Kshithi, Sourjya Banerjee Spindle Cell Carcinoma masquerading as a benign polyp of the soft palate DOI: 10.4103/jcrt.JCRT\_617\_20

Lobo Dilson, Srinivas Challapalli, Banerjee Sourjya, M S Athiyamaan, Ravichandran Ramamoorthy, Sunny Johan, Krishna Abhishek Estimation of surface dose in the presence of unwanted air gaps under the bolus in postmastectomy radiation therapy: A phantom Dosimetric Study DOI: 10.31557/APJCP.2022.23.9.2973 7.

Kathrikolly T, Nair SN, Mathew A, Saxena PPU, Nair S. Can serum autoantibodies be a potential early detection biomarker for breast cancer in women? A diagnostic test accuracy review and meta-analysis. Syst Rev. 2022;11(1):215. Published 2022 Oct 9. doi:10.1186/s13643-022-02088-y