

Publication, Awards and Research Experience

Dr Shivakumar Gudi

PUBLICATIONS

1. Inter-observer Variability in the Delineation of Gross Tumour Volume and Specified Organs-at-risk During Intensity Modulated Radiation Therapy for Head and Neck Cancers and the Impact of Fluoro-deoxy-glucose Positron Emission Tomography/Computed Tomography on Such Variability at the Primary Site

Shivakumar Gudi, MD, Sarbani Ghosh-Laskar, MD, DNB, Jai Prakash Agarwal, MD, Suresh Chaudhari, MSc, DipRP, Venkatesh Rangarajan, MD, Siji Nojin Paul, MSc, DipRP, Rituraj Upreti, MSc, DipRP, Vedang Murthy, MD, DNB, Ashwini Budrukkar, MD, DNB, Tejpal Gupta, MD, DNB. **Journal of Medical Imaging and Radiation Sciences**. DOI: <http://dx.doi.org/10.1016/j.jmir.2016.11.003>

2. Radiation Oncology in India: Challenges and Opportunities.

Grover S, Gudi S, Gandhi AK, Puri PM, Olson AC, Rodin D, Balogun O, Dhillon PK, Sharma DN, Rath GK, Shrivastava SK, Viswanathan AN, Mahantshetty U.

“**Semin Radiat Oncol**. 2017 Apr;27(2):158-163.doi: 10.1016/j.semradonc.2016.11.007. Epub 2016 Nov 14.

3. Predicting loco-regional recurrence risk in T1, T2 breast cancer with 1-3 positive axillary nodes post mastectomy: Development of a Predictive nomogram. Wadasadawala T, Kannan S, Gudi S, Rishi A, Budrukkar A, Parmar V, Shet T, Desai S, Gupta S, Badwe R, Sarin R. Indian J Cancer [serial online] 2017 [cited 2018 Jun 27];54:352-7. Available from: <http://www.indianjcancer.com/text.asp?2017/54/1/352/219556>

4. Income generated by women treated with Magnetic Resonance Imaging based Brachytherapy: A simulation study evaluating the macroeconomic benefits of implementing a high end technology in a public sector healthcare

setting. Santam Chakraborty MD, Umesh Mahantshetty, MD, DNB; Supriya Chopra, MD, DNB; Shirley Lewis, MD; Vinod Hande, MBA (CR), BHMS; Shivakumar Gudi, MD; Rahul Krishnatry, MD; Reena Engineer, MD, DNB; Shyam KishoreShrivastava, MD, DNB. *Brachytherapy*. 2017 Jun 6. pii: S1538- 4721(17)30356-2. doi: 10.1016/j.brachy.2017.05.003.

5. A prospective comparison of computerized-tomography (CT) based with trans-rectal-ultrasonography (TRUS) assistance and magnetic-resonance imaging (MRI) based target-volume definition during image guided adaptive brachytherapy for cervical cancers

Umesh Mahantshetty MD, DNB, Pushpa Naga C H MD, DNB, Chira Ranjan Khadanga MD, Shivakumar Gudi MD, Supriya Chopra MD, Lavanya Gurram MD, Swamidas Jamema MSc, PhD, Yogesh Ghadi MSc, DRP, Shyamkishore Shrivastava MD, DNB. *International Journal of Radiation Oncology Biology Physics*, 7 June 2018. In Press, <https://doi.org/10.1016/j.ijrobp.2018.05.080>

6. Indian Brachytherapy Society Guidelines for radiotherapeutic management of cervical cancer with special emphasis on high-dose-rate brachytherapy. Mahantshetty U, Gudi S, Singh R, et al *J Contemp Brachytherapy*. 2019;11(4):293–306. doi:10.5114/jcb.2019.87406.

7. Transabdominal Ultrasonography-Based Image Guidance during External Beam Radiotherapy for Cervical Cancer - An Initial Experience

Chira Ranjan K , Shivakumar G , Lavanya N , Supriya C , Reena E , Rajesh K , Chetana V , Vivek S , Dandpani E and Umesh M , *J Gynecol Oncol*. 2021; 4(1): 1051

8. Statistical fundamentals on cancer research for clinicians: Working with your statisticians. Xu W, Huang SH, Su J, Gudi S, O'Sullivan B. *Clin Transl Radiat Oncol*. 2021 Jan 16;27:75-84. doi: 10.1016/j.ctro.2021.01.006. PMID: 33532634; PMCID: PMC7829109.

9. Outcome and treatment toxicity in east-indian versus white-canadian patients with oral cavity cancer following postoperative (chemo-)radiotherapy delivered under similar multidisciplinary care: A propensity-matched cohort study. *Oral Oncol*. 2021 Sep;120:105419. doi: 10.1016/j.oraloncology.2021.105419. Epub 2021 Jun 25. PMID: 34175612. Gudi S, O'Sullivan B, Hosni A, Su J, Hope A, Ringash J, Hueniken K, Liu G, Tong L, Goldstein D, de Almeida J, Hansen AR, Bratman SV, Cho J, Giuliani M, Hahn E, Kim J, Xu W, Waldron J, Huang SH.

AWARDS AND GRANTS

- Research grant from Tata Memorial Centre Research and Administrative Council for the prospective study 'Inter-observer Variability in the Delineation of Gross Tumour Volume and Specified Organs-at-risk During Intensity Modulated Radiation Therapy for Head and Neck Cancers and the Impact of Fluoro-deoxy-glucose Positron Emission Tomography/Computed Tomography on Such Variability at the Primary Site'
- **R. S. Bush Award 2020 - For Academic Excellence in Research by a Radiation Oncology Fellow.** University of Toronto
- High- Quality Protocol Writing Award in the FeRN Workshop (Federation of Asian Radiation Oncology) held on 11th, 12th, & 18th,19th of August 2023.
- Intramural research grant from Tata Memorial Centre Research Administrative Council for a clinical trial titled 'Systemic therapy with or without Radiation Therapy in Unresectable nonmetastatic Gall Bladder Carcinoma: Open label, Parallel arm, Phase 2/3 integrated randomized clinical trial (RUGB)'

RESEARCH EXPERIENCE

1. Successfully completed a prospective clinical research study titled 'Inter-observer Variability in the Delineation of Gross Tumour Volume and Specified Organs-at-risk During Intensity Modulated Radiation Therapy for Head and Neck Cancers and the Impact of Fluoro-deoxy- glucose Positron Emission Tomography/Computed Tomography on Such Variability at the Primary Site' at Tata Memorial Hospital and results were published in peer reviewed journal.
2. Principal Investigator in ongoing Phase 3 randomized Clinical trial 'Systemic therapy with or without Radiation Therapy in Unresectable nonmetastatic Gall Bladder Carcinoma: Open label, Parallel arm, Phase 2/3 integrated randomized clinical trial (RUGB)' NCT06214572
3. Involved in clinical research as Co-investigator in number of studies at Tata Memorial Hospital