

Biographical Sketch

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Education/Training

INSTITUTION AND LOCATION	DEGREE (if applicable)	Duration	FIELD OF STUDY
Madras Medical College, Chennai, India	MBBS	2006-2012	Medicine
All India Institute of Medical Sciences, New Delhi, India	MD	2013-2016	Radiation Oncology
MD Anderson Cancer Center, Texas, USA	Post-doctoral fellow	2017-2019	Immunology, Nanotechnology, Cancer Biology
Henry Ford, Michigan, USA	-	2019-2020	Preliminary year: Medicine
Loyola University, Chicago and Edward Hines VA Hospital, USA	MD	2020-2024	Radiation Oncology

Honors and Awards

- MIM & eContour Travel Grant for ACRO 2023
- ASTRO resident quiz bowl First prize winner, 2022
- Chicago Radiological Society Best Abstract Award 2021
- American College of Radiation Oncology travel grant 2020
- Chicago Radiological Society Best Abstract Award 2020
- Luther Brady Educational grant for integrating 3D printing in resident learning of interstitial brachytherapy in Prostate and Gynecological malignancies-2020
- European Society of Medical Oncology travel grant to ESMO Asia 2016
- Indian Council for Medical Research Travel Grant 2016
- Won second place in the All India Oncology quiz conducted at AIIMS New Delhi, India, among medical, surgical and radiation oncology residents-2015
- Won First Prize in the Pediatric Radiation Oncology quiz conducted by the Association of Radiation Oncologists of India-2014
- NICHE in Centre for Regenerative Medicine All India stem cell Quiz-1st prize Conducted by Indo-Japanese collaborative group- 2012
- All India Medical Quiz– 1st prize conducted at Christian Medical College, Vellore, India-2011

Clinical Trials/Funding

- **Co-Principal Investigator:** Phase 2 clinical trial of Stereotactic ablative body radiation therapy (SBRT) for Oligometastatic pancreatic cancer. Funded by *Thomas J. Gohr Pancreatic Research Fund* USD 50,000
- **Co-Principal Investigator:** Randomized phase 2 double-blinded basket clinical trial of Interleukin-15 super agonist as a rescue agent for radiation-induced lymphopenia in Solid malignancies. (Glioblastoma and Pancreatic cancer). Letter of intent accepted. Full protocol submitted for the final decision to *Gateway to Cancer research* USD 600,000

- **Co-investigator:** Decipher testing in patients with Locally recurrent Prostate Cancer in Phase I/II Focal Salvage HDR trial. Funded and study is ongoing USD 40,000

Participation in guidelines

1. Contributed as a resident reviewer for literature review and data extraction for Radiation Therapy for Endometrial Cancer: An American Society for Radiation Oncology Clinical Practice Guideline. Published in 2022 PRO
2. Contributed as a resident reviewer for literature review and data extraction for Radiation Therapy for Oligometastatic Lung Cancer: An ASTRO and ESTRO Clinical Practice Guideline. In press PRO 2022
3. Contributed as a resident reviewer for literature review and data extraction for Radiation Therapy for positive Oropharyngeal cancer: An American Society for Radiation Oncology Clinical Practice Guideline. Ongoing
4. Resident lead for American Radium Society (ARS) Appropriate Use Criteria (AUC) locally advanced cervical cancer. Ongoing
5. Resident lead for American Radium Society (ARS) Appropriate Use Criteria (AUC) for using PSMA PET in prostate cancer. Ongoing
6. Resident lead for the International Commission of Radiation Protection TG119 for the “Effects of Ionizing Radiation on Diseases of the Circulatory System and their Consideration in the System of Radiological Protection.” Ongoing.
7. Resident lead for Consensus Quality Measures and Dose Constraints for Rectal Cancer from the Veterans Affairs Radiation Oncology Quality Surveillance Program and American Society for Radiation Oncology (ASTRO) Expert Panel. Published in PRO 2022

Peer-reviewed journal publications

- 1: Kim H, **Venkatesulu BP**, McMillan MT, Verma V, Lin SH, Chang JY, Welsh JW. Local Therapy for Oligoprogressive Disease: A Systematic Review of Prospective Trials. Int J Radiat Oncol Biol Phys. 2022 Nov 15;114(4):676-683. Epub 2022 Aug 13. [PMID: 35973624](#)
- 2: **Venkatesulu B**, Giridhar P, Pujari L, Chou B, Lee JH, Block AM, Upadhyay R, Welsh JS, Harkenrider MM, Krishnan S, Verma V, En Hsieh C, Pradhan S, Small W Jr, Solanki AA. Lymphocyte sparing normal tissue effects in the clinic (LymphoTEC): A systematic review of dose constraint considerations to mitigate radiation-related lymphopenia in the era of immunotherapy. Radiother Oncol. 2022 Nov 2;177:81-94. doi: 10.1016/j.radonc.2022.10.019. Epub ahead of print. [PMID: 36334694](#)
- 3: Park J, Puckett LL, Katsoulakis E, **Venkatesulu BP**, Kujundzic K, Solanki AA, Movsas B, Simone CB 2nd, Sandler H, Lawton CA, Das P, Wo JY, Buchholz TA, Fisher CM, Harrison LB, Sher DJ, Kapoor R, Chapman CH, Dawes S, Kudner R, Wilson E, Hagan M, Palta J, Kelly MD. Veterans Affairs Radiation Oncology Quality Surveillance Program and American Society for Radiation Oncology Quality Measures Initiative. Pract Radiat Oncol. 2022 Nov-Dec;12(6):468-474. Epub 2022 Jun 8. [PMID: 35690354](#)
- 4: Mallick S, Benson R, **Venkatesulu B**, Melgandi W, Rath GK. Systematic Review and Individual Patient Data Analysis of Uncommon Variants of Glioblastoma: An Analysis of 196 Cases. Neurol India. 2022 Sep-Oct;70(5):2086-2092. [PMID: 36352613](#)
- 5: Park J, **Venkatesulu BP**, Kujundzic K, Katsoulakis E, Solanki AA, Puckett LL, Kapoor R, Chapman CH, Hagan M, Kelly MD, Palta J, Ashman JB, Jacqmin D, Kachnic LA, Minsky BD, Olsen J, Raldow AC, Wo JY, Dawes S, Wilson E, Kudner R, Das P. Consensus Quality Measures and Dose Constraints for Rectal Cancer from the Veterans Affairs Radiation Oncology Quality Surveillance Program and American Society for Radiation Oncology (ASTRO) Expert Panel. Pract Radiat Oncol. 2022 Sep-Oct;12(5):424-436. Epub 2022 Jun 11. [PMID: 35907764](#)

- 6: Upadhyay R, Yadav D, **Venkatesulu BP**, Singh R, Baliga S, Raval RR, Lazow MA, Salloum R, Fouladi M, Mardis ER, Zaorsky NG, Trifiletti DM, Paulino AC, Palmer JD. Risk of secondary malignant neoplasms in children following proton therapy vs. photon therapy for primary CNS tumors: A systematic review and meta-analysis. *Front Oncol*. 2022 Aug 12;12:893855. [PMID: 36033525](#)
- 7: Hsieh RC, Krishnan S, Wu RC, Boda AR, Liu A, Winkler M, Hsu WH, Lin SH, Hung MC, Chan LC, Bhanu KR, Srinivasamani A, De Azevedo RA, Chou YC, DePinho RA, Gubin M, Vilar E, Chen CH, Slay R, Jayaprakash P, Hegde SM, Hartley G, Lea ST, Prasad R, Morrow B, Couillault CA, Steiner M, Wang CC, **Venkatesulu BP**, Taniguchi C, Kim YSB, Chen J, Rudqvist NP, Curran MA. ATR-mediated CD47 and PD-L1 up-regulation restrict radiotherapy-induced immune priming and abscopal responses in colorectal cancer. *Sci Immunol*. 2022 Jun 10;7(72):eabl9330. Epub 2022 Jun 10. [PMID: 35687697](#)
- 8: Solipuram V, Soltani R, **Venkatesulu BP**, Annam S, Alavian F, Ghasemi S. Efficacy of Anti-VEGF Drugs Based Combination Therapies in Recurrent Glioblastoma: Systematic Review and Meta-Analysis. *Curr Rev Clin Exp Pharmacol*. 2022 May 17. Epub ahead of print. [PMID: 35585804](#)
- 9: **Venkatesulu BP**, Chan DP, Giridhar P, Upadhyay R, Sharma A, Elghazawy H, Elumalai T, V P, Mallick S, Hsieh CE. A systematic review and meta-analysis of the impact of radiation-related lymphopenia on outcomes in pancreatic cancer. *Future Oncol*. 2022 May;18(15):1885-1895. Epub 2022 Feb 8. [PMID: 35132868](#)
- 10: Giridhar P, **Venkatesulu BP**, Yoo R, V P, Rath GK, Mallick S, Upadhyay A, Chan DP. Demography, patterns of care, and survival outcomes in patients with salivary duct carcinoma: an individual patient data analysis of 857 patients. *Future Sci OA*. 2022 Mar 8;8(4):FSO791. [PMID:35369277](#)
- 11: Bhattarai S, Mackeyev Y, **Venkatesulu BP**, Krishnan S, Singh PK. CXCR4 chemokine receptor 4 (CXCR4) targeted gold nanoparticles potentially enhance radiotherapy outcomes in breast cancer. *Nanoscale*. 2021 Nov 25;13(45):19056-19065. doi: 10.1039/d1nr05385j. [PMID: 34757363](#)
- 12: Elumalai T, Periasamy K, Rajendran I, Yedala A, Giridhar P, Upadhyay R, Kim BK, Sharma A, Elghazawy H, Dhanireddy B, Mallick S, Hsieh CE, Johnny C, **Venkatesulu B**. A Systematic Review of Radiation-Related Lymphopenia in Genito-urinary Malignancies. *Cancer Invest*. 2021 Oct;39(9):769-776. Epub 2021 Aug 17. [PMID: 34313522](#)
- 13: Solanki AA, **Venkatesulu BP**, Efsthathiou JA. Will the Use of Biomarkers Improve Bladder Cancer Radiotherapy Delivery? *Clin Oncol (R Coll Radiol)*. 2021 Jun;33(6):e264-e273. Epub 2021 Apr 16. [PMID: 33867226](#)
- 14: Ramdulari AV, Izzuddeen Y, Benson R, Mallick S, **Venkatesulu B**, Giridhar P. Laryngeal soft tissue sarcoma: Systematic review and individual patient data analysis of 300 cases. *Head Neck*. 2021 May;43(5):1421-1427. Epub 2021 Jan 14. [PMID: 33448036](#)
- 15: Venkatesulu BP, Chandrasekar VT, Giridhar P, Advani P, Sharma A, Elumalai T, Hsieh CE, Elghazawy HI, Verma V, Krishnan S. A Systematic Review and Meta-Analysis of Cancer Patients Affected by a Novel Coronavirus. *JNCI Cancer Spectr*. 2021 Feb 24;5(2):pkaa102. [PMID: 33875976](#)
- 16: Upadhyay R, **Venkatesulu BP**, Giridhar P, Kim BK, Sharma A, Elghazawy H, Dhanireddy B, Elumalai T, Mallick S, Harkenrider M. Risk and impact of radiation-related lymphopenia in lung cancer: A systematic review and meta-analysis. *Radiother Oncol*. 2021 Apr;157:225-233. Epub 2021 Feb 10. [PMID: 33577865](#)
- 17: **Venkatesulu BP**, Lester S, Hsieh CE, Verma V, Sharon E, Ahmed M, Krishnan S. Low-Dose Radiation Therapy for COVID-19: Promises and Pitfalls. *JNCI Cancer Spectr*. 2020 Nov 19;5(1):pkaa103. [PMID: 33437924](#)
- 18: **Venkatesulu BP**, Thoguluva Chandrasekar V, Giridhar P, V P, Patel HK, Manteuffel J. The mechanistic rationale of drugs, primary endpoints, the geographical distribution of clinical trials against severe acute respiratory syndrome-related coronavirus-2: A systematic review. *J Med Virol*. 2021 Feb;93(2):843-853. Epub 2020 Aug 2. [PMID: 32706390](#)

- 19: Elghazawy H, Bakkach J, Zaghloul MS, Abusanad A, Hussein MM, Alorabi M, Eldin NB, Helal T, Zaghloul TM, **Venkatesulu BP**, Elghazaly H, Al-Sukhun S. Implementation of breast cancer continuum of care in low- and middle-income countries during the COVID-19 pandemic. *Future Oncol*. 2020 Nov;16(31):2551-2567 Epub 2020 Jul 27. [PMID: 32715776](#)
- 20: **Venkatesulu BP**, Giridhar P, Malouf TD, Trifletti DM, Krishnan S. A systematic review of the role of carbon ion radiation therapy in recurrent rectal cancer. *Acta Oncol*. 2020 Oct;59(10):1218-1223. Epub 2020 Jun 1. [PMID: 32476538](#)
- 21: Pathy S, **Venkatesulu BP**, Mallick S, Deo SSV, Mohanti BK. Adjuvant radiation therapy for malignant tumors of the eyelid: Experience from a tertiary cancer center in India. *Natl Med J India*. 2020 Sep-Oct;33(5):271-275. [PMID: 34213452](#)
- 22: Elghazawy H, **Venkatesulu BP**, Verma V, Pushparaji B, Monlezun DJ, Marmagkiolis K, Iliescu CA. The role of cardio-protective agents in cardio-preservation in breast cancer patients receiving Anthracyclines ± Trastuzumab: a Meta-analysis of clinical studies. *Crit Rev Oncol Hematol*. 2020 Sep;153:103006. Epub 2020 May 22. [PMID: 32777728](#)
- 23: **Venkatesulu BP**, Chandrasekar VT, Girdhar P, Advani P, Sharma A, Elumalai T, Hsieh C, Elghazawy HI, Verma V, Krishnan S. A systematic review and meta-analysis of cancer patients affected by a novel coronavirus. *JNCI Cancer Spectr*. 2021 Feb 24;5(2):pkaa102. PMID: 32511470
- 24: Dilmanian FA, **Venkatesulu BP**, Sahoo N, Wu X, Nassimi JR, Herchko S, Lu J, Dwarakanath BS, Eley JG, Krishnan S. Proton mini beams-a springboard for physics, biology and clinical creativity. *Br J Radiol*. 2020 Mar;93(1107):20190332. Epub 2020 Jan 24. [PMID: 31944824](#)
- 25: Mahajan M, **Venkatesulu BP**, Sallam O, Taneja K, Scott M, Brar I. Unmasking lymphoma immune reconstitution inflammatory syndrome in a patient with pyrexia of unknown origin: a case report. *J Egypt Natl Canc Inst*. 2020 Jan 30;32(1):8. [PMID: 32372315](#)
- 26: Singh PK, Deorukhkar AA, **Venkatesulu BP**, Li X, Tailor R, Bomalaski JS, Krishnan S. Exploiting Arginine Auxotrophy with Pegylated Arginine Deiminase (ADI-PEG20) to Sensitize Pancreatic Cancer to Radiotherapy via Metabolic Dysregulation. *Mol Cancer Ther*. 2019 Dec;18(12):2381-2393. Epub 2019 Aug 8. [PMID: 31395686](#)
- 27: **Venkatesulu BP**, Sharma A, Pollard-Larkin JM, Sadagopan R, Symons J, Neri S, Singh PK, Tailor R, Lin SH, Krishnan S. Ultra high dose rate (35 Gy/sec) radiation does not spare the normal tissue in cardiac and splenic models of lymphopenia and gastrointestinal syndrome. *Sci Rep*. 2019 Nov 20;9(1):17180. [PMID: 31748640](#)
- 28: Hsieh CE, **Venkatesulu BP**, Lee CH, Hung SP, Wong PF, Aithala SP, Kim BK, Rao A, Tung-Chieh Chang J, Tsang NM, Wang CC, Lee CC, Lin CC, Tseng JH, Chou WC, Wang YC, Krishnan S, Hong JH. Predictors of Radiation-Induced Liver Disease in Eastern and Western Patients With Hepatocellular Carcinoma Undergoing Proton Beam Therapy. *Int J Radiat Oncol Biol Phys*. 2019 Sep 1;105(1):73-86. Epub 2019 Feb 21. [PMID: 30797890](#)
- 29: **Venkatesulu BP**, Sanders KL, Hsieh CE, Kim BK, Krishnan S. Biomarkers of radiation-induced vascular injury. *Cancer Rep (Hoboken)*. 2019 Apr;2(2):e1152. Epub 2018 Dec 3. [PMID: 32721134](#)
- 30: Chadha AS, Gunther JR, Hsieh CE, Aliru M, Mahadevan LS, **Venkatesulu BP**, Crane CH, Das P, Herman JM, Koay EJ, Taniguchi C, Holliday EB, Minsky BD, Suh Y, Park P, Sawakuchi G, Beddar S, Odisio BC, Gupta S, Loyer E, Kaur H, Raghav K, Javle MM, Kaseb AO, Krishnan S. Proton beam therapy outcomes for localized unresectable hepatocellular carcinoma. *Radiother Oncol*. 2019 Apr;133:54-61. Epub 2019 Jan 16. [PMID: 30935582](#)
- 31: **Venkatesulu BP**, Hsieh CE, Sanders KL, Krishnan S. Recent advances in radiation therapy of pancreatic cancer. *F1000Res*. 2018 Dec 13;7:F1000 Faculty Rev-1931. [PMID: 30613390](#)

- 32: Hsieh CE, Cheng NM, Chou WC, **Venkatesulu BP**, Chou YC, Liao CT, Yen TC, Lin CY. Pretreatment Primary Tumor and Nodal SUVmax Values on 18F-FDG PET/CT Images Predict Prognosis in Patients With Salivary Gland Carcinoma. *Clin Nucl Med*. 2018 Dec;43(12):869-879. [PMID: 30273205](#)
- 33: Adhikari N, Kumar P, **Venkatesulu BP**, Pandey R, Haresh KP, Gupta S, Sharma DN, Rath GK. Crizotinib-Induced Fulminant Hepatic Failure: A Rare Adverse Event. *J Glob Oncol*. 2018 Sep;4:1-4. Epub 2016 Dec 15. [PMID: 30241172](#)
- 34: Mahadevan LS, Zhong J, **Venkatesulu B**, Kaur H, Bhide S, Minsky B, Chu W, Intven M, van der Heide UA, van Triest B, Krishnan S, Hall WA. Imaging predictors of treatment outcomes in rectal cancer: An overview. *Crit Rev Oncol Hematol*. 2018 Sep;129:153-162. Epub 2018 Jun 20. [PMID: 30097234](#)
- 35: **Venkatesulu BP**, Mahadevan LS, Aliru ML, Yang X, Bodd MH, Singh PK, Yusuf SW, Abe JI, Krishnan S. Radiation-Induced Endothelial Vascular Injury: A Review of Possible Mechanisms. *JACC Basic Transl Sci*. 2018 Aug 28;3(4):563-572. [PMID: 30175280](#)
- 36: Yang X, **Venkatesulu BP**, Mahadevan LS, Aliru ML, Mackeyev Y, Singh A, Prasad PN, Krishnan S. Gold-Small Interfering RNA as Optically Responsive Nanostructures for Cancer Theranostics. *J Biomed Nanotechnol*. 2018 May 1;14(5):809-828. [PMID: 29883555](#)
- 37: Ko KA, Wang Y, Kotla S, Fujii Y, Vu HT, **Venkatesulu BP**, Thomas TN, Medina JL, Gi YJ, Hada M, Grande-Allen J, Patel ZS, Milgrom SA, Krishnan S, Fujiwara K, Abe JI. Developing a Reliable Mouse Model for Cancer Therapy-Induced Cardiovascular Toxicity in Cancer Patients and Survivors. *Front Cardiovasc Med*. 2018 Apr 5;5:26. [PMID: 29675417](#)
- 38: **Venkatesulu BP**, Mallick S, Lin SH, Krishnan S. A systematic review of the influence of radiation-induced lymphopenia on survival outcomes in solid tumors. *Crit Rev Oncol Hematol*. 2018 Mar;123:42-51. Epub 2018 Feb 2. [PMID: 29482778](#)
- 39: Aliru ML, Schoenhals JE, **Venkatesulu BP**, Anderson CC, Barsoumian HB, Younes AI, K Mahadevan LS, Soeung M, Aziz KE, Welsh JW, Krishnan S. Radiation therapy and immunotherapy: what is the optimal timing or sequencing? *Immunotherapy*. 2018 Feb 1;10(4):299-316. [PMID: 29421979](#)
- 40: **Venkatesulu B**, Mallick S, Giridhar P, Upadhyay AD, Rath GK. The pattern of care and impact of prognostic factors on the outcome of head and neck extramedullary plasmacytoma: a systematic review and individual patient data analysis of 315 cases. *Eur Arch Otorhinolaryngol*. 2018 Feb;275(2):595-606. Epub 2017 Dec 9. [PMID: 29224044](#)
- 41: **Venkatesulu BP**, Krishnan S. Radiosensitization by inhibiting DNA repair: Turning the spotlight on homologous recombination. *Hepatology*. 2018 Feb;67(2):470-472. Epub 2017 Dec 28. [PMID: 28921592](#)
- 42: Thottian AG, Mallick S, **Venkatesulu B**, Kumar R, Haresh K, Gupta S, Sharma DN, Julka PK, Rath GK. Surviving Triple Trouble: Synchronous Breast and Cervical Cancer, HIV Infection and Myocardial Infarction. *Breast J*. 2017 Nov;23(6):731-735. Epub 2016 Nov 25. [PMID: 27886418](#)
- 43: Yusuf SW, **Venkatesulu BP**, Mahadevan LS, Krishnan S. Radiation-Induced Cardiovascular Disease: A Clinical Perspective. *Front Cardiovasc Med*. 2017 Oct 26;4:66. [PMID: 29124057](#)
- 44: Mallick S, Benson R, **Venkatesulu B**, Melgandi W, Rath GK. Patterns of care and survival outcomes in patients with astroblastoma: an individual patient data analysis of 152 cases. *Childs Nerv Syst*. 2017 Aug;33(8):1295-1302. Epub 2017 May 5. [PMID: 28477040](#)
- 45: **Venkatesulu BP**, Mallick S, Rath GK. Patterns of care of cervical cancer in the elderly: A qualitative literature review. *J Geriatr Oncol*. 2017 Mar;8(2):108-116. Epub 2017 Feb 4. [PMID: 28169196](#)
- 46: Benson R, Giridhar P, **Venkatesulu BP**, Mallick S, Raza MW, Rath GK. - irradiation for head and neck squamous cell carcinoma. *J Egypt Natl Canc Inst*. 2017 Mar;29(1):1-9. Epub 2016 Aug 29. [PMID: 27595192](#)

- 47: Pathy S, **Venkatesulu BP**, Mallick S, Chander S. Radiation Therapy in Pediatric Orbital Granulocytic Sarcomas: Experience from a Tertiary Cancer Center. J Clin Diagn Res. 2016 Oct;10(10): XC01-XC05. Epub 2016 Oct 1. [PMID: 27891440](#)
- 48: **Venkatesulu B**, Mallick S, George A, Bhasker S. Small cell carcinoma of the lung in a treated case of Myoepithelial carcinoma of the tongue--report of a rare case with an illustrated review of the literature. J Egypt Natl Canc Inst. 2016 Mar;28(1):45-8. Epub 2015 Jun 24. [PMID: 26117146](#)
- 49: **Venkatesulu BP**, Mallick S, Singh A, Julka PK. Non-small cell carcinoma of the lung with metachronous breast metastasis and cardiac tamponade: Unusual presentation of common cancer. J Egypt Natl Canc Inst. 2015 Sep;27(3):165-9. Epub 2015 Apr 28. [PMID: 25934444](#)
- 50: **Venkatesulu BP**, Pathy S, Vallonthaiel AG, Chawla B. Epithelial-myoepithelial carcinoma of the lacrimal gland from an ex pleomorphic adenoma. BMJ Case Rep. 2015 Jul 31;2015 [PMID: 26231189](#)
- 51: Benson R, Mallick S, **Prasad VB**, Haresh K, Gupta S, Julka PK, et al. Medullomyoblastoma treated with craniospinal radiation and adjuvant chemotherapy: Report of 4 cases and literature review. Journal of the Egyptian National Cancer Institute. 2015;27(2):109–11. [PMID: 25936510](#)
- 52: **Bhanuprasad V**, Mallick S, Bhasker S, Mohanti BK. Pediatric head and neck squamous cell carcinoma: Report of 12 cases and illustrated literature review. International journal of pediatric otorhinolaryngology. 2015;79(8):1279–82. [PMID: 26072014](#)
- 53: Bhasker S, Mallick S, Benson R, **Bhanuprasad V**, Sharma A, Thakar A. A multimodality approach to sinonasal undifferentiated carcinoma: a single institute experience. The Journal of Laryngology & Otology. 2017;131(1):19–25. [PMID: 27938440](#)
- 54: Chou B, **P Venkatesulu**, Coleman RL, Harkenrider M, Small W Jr. Management of stage I and II cervical cancer: a review. Int J Gynecol Cancer. 32(Mar):216–24. [PMID: 35256406](#)
- 55: Mallick S, Anjali V, Giridhar P, Upadhyay R, Kim BK, Sharma A, **Venkatesulu BP** et al. A Systematic Review and Meta-analysis of the Impact of Radiation-Related Lymphopenia on Outcomes in High-Grade Gliomas. South Asian Journal of Cancer. 2022; [PMID: 36756098](#)
- 56: Mallick S, Giridhar P, **Venkatesulu BP**. Regarding “Risk of second non-breast cancer after radiotherapy for breast cancer: A systematic review and meta-analysis of 762,468 patients.” Radiotherapy and Oncology. 2015;115(3):431. [PMID: 25847871](#)
- 57: Pathy S, **Venkatesulu BP**, Mallick S, Deo SS, Mohanti BK. Adjuvant radiation therapy for malignant tumors of the eyelid: Experience from a tertiary cancer center in India. National Medical Journal of India. 2020;33(5). [PMID: 34213452](#)
- 58: **Prasad VB**, Mallick S, Upadhyay AD, Rath G. Systematic review and individual patient data analysis of pediatric head and neck squamous cell carcinoma: an analysis of 217 cases. International journal of pediatric otorhinolaryngology. 2017;92:75–81. [PMID: 28012539](#)
- 59: **Venkatesulu B**, Giridhar P. With regards to Ellsworth et al. on “Lymphocyte sparing normal tissue effects in the clinic LymphoTEC): a systematic review of dose constraint considerations to mitigate radiation-related lymphopenia in the era of immunotherapy.” Radiotherapy and Oncology. 2023; [PMID: 36736587](#)
- 60: **Venkatesulu B**, Liauw SL, Joshi M, Baumann BC, Yoo R, Roupret M, et al. Multidisciplinary Management and Radiotherapy Recommendations for Clinically and Pathologically Node-positive Bladder Cancer. In WB Saunders; 2023. p. 35–50. [PMID: 36517192](#)
- 61: Kang H, Podgorsak AR, **Venkatesulu BP**, Saripalli AL, Chou B, Solanki AA, et al. Prostate segmentation accuracy using synthetic MRI for high-dose-rate prostate brachytherapy treatment planning. Phys Med Biol. 2023 Jul 11; [PMID: 37433302](#).

62. Podgorsak AR, **Venkatesulu BP**, Abuhamad M, Harkenrider MM, Solanki AA, Roeske JC, et al. Dosimetric and workflow impact of synthetic-MRI use in prostate high-dose-rate brachytherapy. Brachytherapy. 2023 Jun 12;S1538-4721(23)00060-0. [PMID: 37316376](#)
63. Saripalli AL, Lee B, Adams W, Bhandare N, **Venkatesulu BP**, Yoo RK, et al. Multi-institutional Development and Validation of Contouring Guidelines for Para-aortic Elective Nodal Irradiation in Prostate Cancer Based on Patterns of Involvement on Targeted Molecular Imaging Positron Emission Tomography/Computed Tomography. Int J Radiat Oncol Biol Phys. 2023 May 16;S0360-3016(23)00462-5. [PMID: 37201758](#)
64. Hsieh RCE, Chou YC, Hung CY, Lee LY, Venkatesulu BP, Huang SF, et al. A multicenter retrospective analysis of patients with salivary gland carcinoma treated with postoperative radiotherapy alone or chemoradiotherapy. Radiother Oncol. 2023 Nov;188:109891. PMID: 37659659
65. Hsieh RCE, Lee CH, Huang HC, Wu SW, Chou CY, Hung SP, et al. Clinical and Dosimetric Results of Proton or Photon Radiation Therapy for Large (>5 cm) Hepatocellular Carcinoma: A Retrospective Analysis. Int J Radiat Oncol Biol Phys. 2023 Sep 30;S0360-3016(23)07968-3. PMID: 37778426

Book chapters

1. R. A. Chandra, R. J. Li (eds.), Multidisciplinary Management of Head and Neck Cancer Advances in Radiation: Ion Therapy and Advanced Techniques. **Bhanu P. Venkatesulu**, Prashanth Girdhar, Henry S. Park, William M. Mendenhall, and Vivek Verma
2. Radiation Oncology: principles, precepts, and practice. Quality of Life in Radiation Therapy” Aruna Turaka, Yousra Izzuddeen KN, Lachlan McDowell, **Bhanu Prasad Venkatesulu**, Bobby Nagendra Koneru.
3. Salvage treatment for local failure after external beam radiation therapy in Prostate. Dennis Chan, **Bhanu Prasad Venkatesulu**, Grant Harmon, Abhishek Solanki
4. **Venkatesulu BP**. Carcinoma Rectum. Practical radiation oncology: Springer; 2020. p. 255-7;
5. Critical Appraisal of a Clinical Trial. Practical radiation oncology: Springer; 2020. p. 285-6;
6. Carcinoma Anal Canal. Practical radiation oncology: Springer; 2020. p. 259-62;
7. Simulators. Practical radiation oncology: Springer; 2020. p. 49-50.
8. Radiotherapy of Liver Cancer: Technological Advances in Radiotherapy. Belal Abousaida, Cheng-en Hsieh, **Bhanu P. Venkatesulu**, and Sunil Krishnan
9. **Venkatesulu BP**. Mixed Gliomas or Oligoastrocytoma, Spinal Cord Tumors. Practical Neuro-Oncology under editorial review.

Conference presentations

1. Kiran Devisetty, Stephanie Pugh, Paul Brown, Vinai Gondi, Jeffrey Wefel, Abhishek Solanki, Tomy Kalapparambath, Grant Harmon, Anjali Saripalli, Brian Chou, **Bhanu Prasad Venkatesulu**, Thomas Boike, Vijayananda Kundapur, David Roberge, Joseph Bovi, Mackenzie McGee, Tim Kruser, Andrew Baschnagel, Kenneth Usuki, Minesh Mehta, Lisa Kachnic. NCOG-03. Impact of the rate of radiographic response of brain metastases to the whole brain radiation therapy on neurocognitive function on NRG-CC001 Society of Neuro-Oncology 2022
2. **Bhanu Prasad Venkatesulu**, Upadhyay R, Giridhar P, Kim BK, Sharma A, Elghazawy H, Dhanireddy B, Elumalai T, Mallick S, Harkenrider M Risk and Impact of Radiation Related Lymphopenia in Thoracic Tumors: A systematic review and meta-analysis. Chicago Radiological Society 2022.

3. Alexander Podgorsak, **Bhanu Prasad Venkatesulu**, Mohammed Abuhamad, Matthew Harkenrider, Abhishek Solanki, John Roeske, Hyejoo Kang Dosimetric Considerations of the Use of Synthetic MRI for Prostate HDR Brachytherapy. American Association of Physicists in Medicine 2021
4. **Bhanu Prasad Venkatesulu**, Cheng Cheng-En Hsieh, Byung Kyu Kim, Keith L Sanders, Amrish Sharma, Pankaj Kumar Singh, Sunil Krishnan. Interleukin-15 Rescues Radiation-Related Lymphopenia and Improves Tumor Control Outcomes in Pancreatic Cancer. American Radium Society 2021
5. **Bhanu Prasad Venkatesulu**, Prashanth Giridhar, Rituraj Upadhyay, Amrish Sharma, Hagar Elghazawy, Thiraviyam Elumalai, Supriya Mallick, Cheng Cheng-En Hsieh. Should Immune System Sparing Dose Constraints Be Integrated into the QUANTEC Guidelines? American Radium Society 2021
6. **BP Venkatesulu**, PK Singh, J Symons, LSK Mahadevan, KL Sanders, BK Kim, S Krishnan Identification, and repurposing of FDA approved or drugs in the clinical pipeline to overcome radioresistance via modulation of Oncogenic KRAS. Chicago Radiological Society 2021.
7. **B Venkatesulu**, A Sharma, J Pollard-Larkin, R Sadagopan, R Tailor, G Aleman, S Neri, J Symons, M Gillin, P Balter, S Lin, S Krishnan. Ultrahigh Dose Rate FLASH Radiation Does Not Spare the Immune System in Cardiac and Splenic Models of Lymphopenia. American Association of Physicists in Medicine 2021
8. PK Singh, **BP Venkatesulu**, J Symons, LSK Mahadevan, KL Sanders, BK Kim, S Krishnan. Unbiased Drug Discovery Approaches to Identify Novel Radiosensitizers from Cancer Therapy Evaluation Program (CTEP) Portfolio of Drugs in Pancreatic Cancer. American Society of Therapeutic Radiation Oncology 2019
9. S Mallick, R Benson, **B Venkatesulu**, GK Rath. A systematic review and individual patient data analysis of uncommon GBM variants: An analysis of 196 cases European Society of Medical Oncology Asia 2016
10. **Venkatesulu BP**, Mallick S, Ventrapati P, Roshan V, Bhasker S, Rath GK. The pattern of microbial organisms in radiation-induced mucositis and dermatitis in head and neck squamous cell carcinoma (HNSCC) treated with radiation (RT)/chemoradiation (CTRT). ASCO Supportive Care Symposium 2014
11. MRI-guided Real-time Online Adaptive Gated Stereotactic Body Radiation Therapy for liver tumors **BhanuPrasad Venkatesulu**, Emily Ness, Brian Lee, Anil Sethi, Scott Cotler, Christopher Molvar, William Small Jr Tamer Refaat. American Society of Therapeutic Radiation Oncology 2022
12. Bombarding Oligoprogression: Oncologic Outcomes Following Localized Radiotherapy In Oligoprogressive Non-Small Cell Lung Cancer Patients On Maintenance Systemic Therapy. Brian Chou MD, Jae Han Lee, **Bhanu Prasad Venkatesulu** MD, Preston Kim, Matthew Harkenrider MD. American Society of Therapeutic Radiation Oncology 2022
13. Performance of Multiparametric MRI and PET imaging in Identifying and Localizing Locally Radiorecurrent Prostate Cancer in Phase I/II trial of Focal Salvage HDR. **Bhanu Prasad Venkatesulu**, Ryan Yoo, Alec Block, James Welsh, Ahmer Farooq, Gopal Gupta, Matthew M. Harkenrider, Abhishek A. Solanki. American Society of Therapeutic Radiation Oncology 2022
14. Prostate segmentation accuracy on synthetic magnetic resonance imaging from computed tomography scans using a novel generative adversarial network for high-dose-rate prostate brachytherapy Hyejoo Kang, **Bhanu Prasad Venkatesulu**, Alexander R. Podgorsak, Mohammed Abuhamad, Abhishek Solanki, and John C. Roeske. American Society of Therapeutic Radiation Oncology 2022
15. Using Molecular Imaging to Create Guidelines for the Optimal Clinical Target Volume for Para-aortic Lymph Nodes in Prostate Cancer Anjali L. Saripalli, Niranjana Bhandare, **Bhanu P. Venkatesulu**, Grant A. Harmon, Alec M. Block, William Small Jr., James S. Welsh, Matthew M. Harkenrider, Abhishek A. Solanki. American Society of Therapeutic Radiation Oncology 2022

16. Radiosensitizing nanoparticles increase the immunogenicity of pancreatic cancer cells via X-ray excited photodynamic therapy Onur Sahin, Yuri Mackeyev, Geraldine V. Raja, Soumyabrata Roy, Ashokkumar Meiyazhagan, Yasmin Zahra, Okan Tezcan, Valeria Gonzalez, Belal Abousaida, **Bhanu P. Venkatesulu**, Cheng-En Hsieh, Joseph B.K. Kim, Subhiksha Raghuram, Xiang Zhang, Kristen A. Miller, Guanhui Gao, Pankaj K. Singh, Sang H. Cho, Rao V. Papineni, Pulickel M. Ajayan, Sunil Krishnan. American Society of Therapeutic Radiation Oncology 2022
17. Biological effects of low dose radiation (LDR) on peri-tumoral and tumoral areas with squamous cell skin cancer. G. Dhawan, **B. Venkatesulu**, R. Blankenbecler, V. Barron-Palma, E. J. T. Juarez-Torres, J. Berumen, C. Donahoe, L. Ritchie, and J. S. Welsh. American Society of Therapeutic Radiation Oncology 2022
18. Risk of Secondary Malignant Neoplasms in Children Following Proton Therapy vs. Photon Therapy for Primary CNS Tumors R. Upadhyay, D. Yadav, **B. Venkatesulu**, R. Singh, S. Baliga, R. Raval, M. Lazow, R. Salloum, M. Fouladi, E.R. Mardis, N.G. Zaorsky, D.M. Trifiletti, A.C. Paulino, and J.D. Palmer. American Society of Therapeutic Radiation Oncology 2022
19. ATR-Mediated CD47 and PD-L1 upregulation restricts radiotherapy-induced immune priming and abscopal responses in colorectal cancer. Rodney Cheng-En Hsieh, Sunil Krishnan, Ren-Chin Wu, Akash Boda, Arthur Liu, Michelle Winkler, Wen-Hao Hsu, Steven Lin, Mien-Chie Hung, Li-Chuan Chan, Krithikaa Bhanu, Anupallavi Srinivasamani, Ricardo De Azevedo, Yung-Chih Chou, Ronald Depinho, Matthew Gubin, Eduardo Vilar-Sanchez, Chao-Hsien Chen, Ravaen Slay, Priyamvada Jayaprakash, Shweta Hegde, Genevieve Hartley, Spencer Lea, Rishika Prasad, Brittany Morrow, Coline Couillault, Madeline Steiner, ChunChieh Wang, **Bhanu Venkatesulu**, Cullen Taniguchi, Betty Kim, Junjie Chen, NilsPetter Rudqvist, Michael Curran. Society of Immunotherapy Meeting 2021
20. Preclinical radiation-induced model of lymphopenia to identify abrogation strategies to enhance cancer therapy. Sharma A, Neri S, **Venkatesulu BP**, Lin SH. American Association for Cancer Research; 2020
21. Solitary extramedullary plasmacytoma (SEMP) of head and neck: An individual data meta-analysis of 315 patients. **Venkatesulu B**, Mallick S, Thoyattan A, Rath GK 2016;27(suppl_9) European Society of Medical Oncology Asia 2016
22. Primary squamous cell carcinoma of the stomach (PSCCS)—A systematic review and meta-analysis. Thottian A, **Venkatesulu B**, Chaliyadan S, Rath GK. 2016;27(suppl_9) European Society of Medical Oncology Asia 2016
23. Systematic review and meta-analysis of pediatric head and neck squamous cell carcinoma (PHNSCC): An analysis of 217 cases December 2016Annals of Oncology 27(suppl_9). **Bhanu Prasad Venkatesulu**, Supriya Mallick, A.G.F. Thoyattan, G.K. Rath. European Society of Medical Oncology Asia 2016
24. Patterns of care of cervical cancer in the elderly: A qualitative review of all published literature. **Bhanu Prasad Venkatesulu**, Supriya Mallick, A.G.F. Thoyattan, G.K. Rath. European Society of Medical Oncology Asia 2016
25. Should Neck Nodes Be Treated in Eyelid Tumors: Unmet Need of Nodal Irradiation. **Bhanu Prasad Venkatesulu**, Supriya Mallick, S Bhaskar, SVS Deo. American Society of Therapeutic Radiation Oncology 2016

Journal participation

Journal reviewer

- Annals of Internal Medicine
- Annals of Oncology
- Cochrane Colorectal Group and Cochrane collaboration
- International Journal of Radiation Oncology, Biology, and Physics
- American Journal of Clinical Oncology
- Cancer Nanotechnology
- Frontiers in Oncology
- Frontiers in Immunology
- Scientific Reports
- Journal of Biomedical Nanotechnology
- Cancer Management and Research
- BMJ Open
- eCancer
- Radiation Research
- ACS Omega
- Theranostic of Cancer Research Journal
- Annals of Otolaryngology and Rhinology
- Cancer Reports
- BJR Case Reports
- Plus One
- Cureus

Mentorship

Dates	Name	Institution	Role	Current
2022-present	Dylan Ross	Loyola University Stritch School of Medicine	Research	MS4 applying for radiation oncology match 2024
2021-present	Emily Ness	Loyola University Stritch School of Medicine	Research	PGY1- Psychiatry resident

2021-present	Cece Chioda	Loyola University Stritch School of Medicine	Research, career development	MS4 applying for radiation oncology match 2023
2019 – present	BK Kim	UT Health school of medicine, Houston, Texas	Research, Career Development	Internal Medicine resident, Mayo Jacksonville
2016 – present	Cheng En Hsieh	MD Anderson Cancer Center	Research, Career Development	Assistant Professor, Chung Gang Memorial Hospital, Taiwan
2016 – present	Jessica Symons	MD Anderson Cancer Center	Research, Career Development	Ph.D. student, MD Anderson Cancer Center
2017-present	Sam Regan	State University of New York Upstate Medical University	Research	Resident, Radiation Oncology, U Michigan
2017 – present	Onur Sahin	Undergraduate, Rice University	Research, Career Development	MS2 UT Health, Houston, Texas

Leadership Experience

- Incoming Chief Resident, Loyola and Hines VA Hospital, 2023-2024
- GME House staff council, Loyola University, 2021-2023
- Protocol review committee (2021-2023)
- Organizing Mortality & Morbidity (M&M) meetings during residency (2019 – present)
- ASTRO educational subcommittee (2019 – 2023)
- Program assessment committee, Henry Ford Preliminary year(2019-2020)
- Resident lead for American Radium Society (ARS) Appropriate Use Criteria (AUC) locally advanced cervical cancer
- Resident lead for American Radium Society (ARS) Appropriate Use Criteria (AUC) for the use of PSMA PET in prostate cancer
- Resident lead for an international commission of radiation protection TG119 for the “Effects of Ionizing Radiation on Diseases of the Circulatory System and their Consideration in the System of Radiological Protection.”

Radiation Oncology Experience

Intensity Modulated Radiation Therapy - Target/normal tissue delineation and plan optimization using Pinnacle and Eclipse software to treat CNS, head & neck, breast, gynecologic, GI and GU malignancies.

Image-Guided and Adaptive Radiation Therapy - Daily pretreatment imaging using Varian Trilogy-based kilovoltage cone-beam CT for setup verification and adaptive radiotherapy, with additional PET and MRI to CT fusion training.

Advanced Localization Systems - Experience with gold marker placement and localization for prostate radiotherapy.

Partial Breast Irradiation - Treatment planning techniques and logistical considerations of external beam and brachytherapy (IORT, interstitial implant) for partial breast irradiation.

Stereotactic Body Radiotherapy - for lung, liver, pancreas, adrenal, pelvic, head/neck and spinal tumors. I am accustomed to 4DCT and respiratory gating in moving targets.

Linac-Based Radiosurgery - Linac-based intra- and extracranial stereotactic radiosurgery for brain metastasis, lung, spine, adrenal, pancreatic, hepatic, pelvic and nodal malignancies.

Gamma Knife radiosurgery for brain metastases, pituitary adenomas, arteriovenous malformations, and acoustic neuromas with the Elekta Gamma Knife Perfexion unit. (Done at AIIMS Delhi and Delnor Cancer Center, Warrenville).

Proton Therapy - Completed training at Chicago Proton Center, Warrenville, IL, for using proton

therapy, specifically in pediatric malignancies, re-irradiation cases, CNS, head/neck, and GI tumors. Participation in weekly proton-specific case review conferences.

MRI-guided radiotherapy – adaptive and non-adaptive treatment of various malignancies using the MRI-guided radiotherapy machine with respiratory gating.

Optune Tumor Treating Fields (TTF) – Completed certification for the use of TTF for GBM

Brachytherapy skills

High Dose Rate (HDR) Brachytherapy - Placement of intracavitary HDR intracavitary/interstitial implants for gynecologic malignancies (performed >100 cases of Tandem & Ovoids/Ring, >100 vaginal cylinder cases). Placement of HDR catheters for prostate cancer (performed >50 cases), Breast interstitial implant, IORT (IntraBeam)

Brachytherapy Applicators experience: Tandem & Ovoids (T&O), Tandem & Ring (T&R), Vienna hybrid applicator, Venezia hybrid applicator, multichannel vaginal cylinder, Syed-Neblett, MUPIT, double-Y tandem (for inoperable uterine cancers), Interstitial catheters, custom applicators using Freiburg flap for skin cancers.

Unsealed Sources - Y-90 SIRS-Spheres and Thera-spheres Glass Microspheres Radioembolization, Oral I-131, Xofigo (Ra-223)

Ultrasound guidance (transabdominal and transrectal)

Contouring, planning system, Electronic Health systems

- Pinnacle, RayStation ViewRay, MIM, Oncentra, Eclipse,
- Record and Verify Systems: Mosaicq, Epic, CPRS

Professional memberships

- American Society of Radiation Oncology (ASTRO)
- American Society of Clinical Oncology (ASCO)
- American Radium Society (ARS)
- American Society of Brachytherapy (ABS)
- American College of Radiation Oncology (ACRO)
- Radiological Society of North America (RSNA)
- Chicago Radiological Society (CRS)
- Association of Radiation Oncologists of India (AROI)

Professional License

- Illinois Medical Board – Temporary Medical License

Languages

- English (fluent), Hindi (professional proficiency), Tamil (fluent), Telugu (fluent), Kannada (limited proficiency)

Hobbies/Interests

- Watching and playing soccer
- Gym, weightlifting
- Reading novels and random stuff on Wikipedia
- Cooking, Spending time with family and friends

Social Profile Hyperlinks

- **Twitter:** <https://twitter.com/BhanuPr92961213>

- **LinkedIn:** <https://www.linkedin.com/in/bhanu-prasad-venkatesulu-b6451599/>
- **ResearchGate:** <https://www.researchgate.net/profile/Bhanu-Venkatesulu/research>
- **Google Scholar:** <https://scholar.google.co.in/citations?hl=en&user=thZ1tw8AAAAJ>