



## Nicholas Trakul, MD, PhD

Clinical Associate Professor, Radiation Oncology - Radiation Therapy

### CLINICAL OFFICE (PRIMARY)

- **Stanford Health Care Radiation Oncology at Pleasanton**

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### Bio

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#### BIO

Dr. Nicholas Trakul is a radiation oncologist with Stanford Medicine Cancer Center and clinical associate professor of Radiation Oncology-Radiation Therapy with Stanford School of Medicine. Dr. Trakul serves as Medical Director for Stanford Medicine Radiation Oncology in Pleasanton and for the Stanford Medicine I Sutter Health Cancer Collaborative in Castro Valley.

Dr. Trakul completed residency training at Stanford in 2013 and then joined the faculty at the University of Southern California, where he specialized in head and neck and central nervous system malignancies, with an emphasis on stereotactic radiosurgery (SRS) and stereotactic ablative radiotherapy (SABR/SBRT). He is widely published as first author in peer-reviewed journals. His research focus involves the creation of novel clinical databases as well as outcomes in the treatment of head and neck, gastrointestinal and thoracic malignancies. In 2017, Dr. Trakul returned to Stanford Medicine, becoming the Medical Director of Stanford Medicine Radiation Oncology in Pleasanton. In 2020, he was named Medical Director of Stanford Radiation Oncology Network Sites. In February 2022, Dr. Trakul assumed the medical directorship of Eden Radiation Oncology Center, the first site to become operation under the Stanford/Sutter Cancer Collaborative. He is focused on providing access to high quality radiation therapy, collaboration with community health care systems and creating/maintaining productive and high engagement workplace culture. He believes in providing personalized, high-quality care, and bringing new technology to the East Bay, allowing patients to access cancer care while staying connected to their communities and support networks.

#### CLINICAL FOCUS

- Radiation Oncology

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiation Oncology - Radiation Therapy

#### ADMINISTRATIVE APPOINTMENTS

- Associate Chair: Director of Radiation Oncology Network, Stanford Radiation Oncology, (2022- present)
- Medical Director, Eden Radiation Oncology Center, (2022- present)
- Medical Director, Stanford Radiation Oncology Pleasanton, (2017- present)

## HONORS AND AWARDS

- Academic Achievement Award, Wayne State University (2008)
- Edwin H. Lorentzen Scholarship, Wayne State University School of Medicine, Detroit MI (2005)
- Elected to Alpha Omega Honor Society, Wayne State University School of Medicine (2006)
- Gordon B. Myers Award, Wayne State University, Department of Internal Medicine (2008)
- Introduction to Academic Radiology Program at the Annual RSNA Meeting, Travel Award: RSNA/AUR/ARRS (2010)
- James A Orbison, MD Award, Intern of the Year, University of Hawaii (2009)
- Malcolm Bagshaw Award, Stanford University, Department of Radiation Oncology (2013)

## PROFESSIONAL EDUCATION

- Board Certification: Radiation Oncology, American Board of Radiology (2014)
- Residency: Stanford University Radiation Oncology Residency (2013) CA
- Internship: University of Hawaii Internal Medicine Residency Program (2009) HI
- Medical Education: Wayne State University School of Medicine (2008) MI
- PhD Training: University of Chicago (2004) IL

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Publications

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### PUBLICATIONS

- **Detection of Recurrence After Thoracic Stereotactic Ablative Radiotherapy Using FDG-PET-CT.** *Clinical lung cancer*  
Sodji, Q. H., Harris, J. P., Quon, A., Modlin, L. A., Lau, B., Jiang, A., Trakul, N., Maxim, P. G., Diehn, M., Loo, B. W., Hiniker, S. M.  
2022
- **CT-less electron radiotherapy simulation and planning with a consumer 3D camera.** *Journal of applied clinical medical physics*  
Skinner, L., Knopp, R., Wang, Y., Dubrowski, P., Bush, K. K., Limmer, A., Trakul, N., Million, L., Marquez, C. M., Yu, A. S.  
2021
- **Challenges in the re-irradiation of locally advanced head and neck cancers: outcomes and toxicities** *JOURNAL OF RADIATION ONCOLOGY*  
Phuong, C., Pham, A., Bath, S. S., Tsao-Wei, D., Schechter, N., Jennelle, R. L., Trakul, N., Garsa, A.  
2019; 8 (3): 259–66
- **The use of texture-based radiomics CT analysis to predict outcomes in early-stage non-small cell lung cancer treated with stereotactic ablative radiotherapy.** *The British journal of radiology*  
Starkov, P., Aguilera, T. A., Golden, D. I., Shultz, D. B., Trakul, N., Maxim, P. G., Le, Q., Loo, B. W., Diehn, M., Depeursinge, A., Rubin, D. L.  
2018: 20180228
- **Challenges in the Re-Irradiation of Locally Advanced Head and Neck Cancers: Outcomes and Toxicity from a Single Institution**  
Phuong, C., Pham, A., Bath, S., Tsao-Wei, D., Garsa, A. A., Schechter, N., Jennelle, R. L., Trakul, N.  
ELSEVIER SCIENCE INC.2018: E32
- **Pre-treatment non-target lung FDG-PET uptake predicts symptomatic radiation pneumonitis following Stereotactic Ablative Radiotherapy (SABR).** *Radiotherapy and oncology*  
Chaudhuri, A. A., Binkley, M. S., Rigdon, J., Carter, J. N., Aggarwal, S., Dudley, S. A., Qian, Y., Kumar, K. A., Hara, W. Y., Gensheimer, M., Nair, V. S., Maxim, P. G., Shultz, et al  
2016; 119 (3): 454-460
- **Colorectal Histology Is Associated With an Increased Risk of Local Failure in Lung Metastases Treated With Stereotactic Ablative Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*  
Binkley, M. S., Trakul, N., Jacobs, L. R., von Eyben, R., Quynh-Thu Le, Q. T., Maxim, P. G., Loo, B. W., Shultz, D. B., Diehn, M.

2015; 92 (5): 1044-1052

- **Stereotactic ablative radiotherapy (SABR) for treatment of central and ultra-central lung tumors** *LUNG CANCER*  
Chaudhuri, A. A., Tang, C., Binkley, M. S., Jin, M., Wynne, J. F., von Eyben, R., Hara, W. Y., Trakul, N., Loo, B. W., Diehn, M.  
2015; 89 (1): 50-56
- **Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*  
Binkley, M. S., Shrager, J. B., Leung, A. N., Popat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.  
2014; 90 (1): 216-223
- **Lung volume reduction after stereotactic ablative radiation therapy of lung tumors: potential application to emphysema.** *International journal of radiation oncology, biology, physics*  
Binkley, M. S., Shrager, J. B., Leung, A. N., Popat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.  
2014; 90 (1): 216-223
- **Imaging Features Associated With Disease Progression After Stereotactic Ablative Radiotherapy for Stage I Non-Small-Cell Lung Cancer** *CLINICAL LUNG CANCER*  
Shultz, D. B., Trakul, N., Abelson, J. A., Murphy, J. D., Maxim, P. G., Quynh-Thu Le, Q. T., Loo, B. W., Diehn, M.  
2014; 15 (4): 294-301
- **Imaging features associated with disease progression after stereotactic ablative radiotherapy for stage I non-small-cell lung cancer.** *Clinical lung cancer*  
Shultz, D. B., Trakul, N., Abelson, J. A., Murphy, J. D., Maxim, P. G., Le, Q., Loo, B. W., Diehn, M.  
2014; 15 (4): 294-301 e3
- **Vagal and recurrent laryngeal neuropathy following stereotactic ablative radiation therapy in the chest.** *Practical radiation oncology*  
Shultz, D. B., Trakul, N., Maxim, P. G., Diehn, M., Loo, B. W.  
2014; 4 (4): 272-278
- **Stereotactic Body Radiotherapy in the Treatment of Pancreatic Cancer** *SEMINARS IN RADIATION ONCOLOGY*  
Trakul, N., Koong, A. C., Chang, D. T.  
2014; 24 (2): 140-147
- **Stereotactic body radiotherapy in the treatment of pancreatic cancer.** *Seminars in radiation oncology*  
Trakul, N., Koong, A. C., Chang, D. T.  
2014; 24 (2): 140-147
- **Early-stage non-small cell lung cancer: surgery, stereotactic radiosurgery, and individualized adjuvant therapy.** *Seminars in oncology*  
Padda, S. K., Burt, B. M., Trakul, N., Wakelee, H. A.  
2014; 41 (1): 40-56
- **Clinical impact of dose overestimation by effective path length calculation in stereotactic ablative radiation therapy of lung tumors.** *Practical radiation oncology*  
Liu, M. B., Eclov, N. C., Trakul, N., Murphy, J., Diehn, M., Le, Q., Dieterich, S., Maxim, P. G., Loo, B. W.  
2013; 3 (4): 294-300
- **Metabolic imaging metrics correlate with survival in early stage lung cancer treated with stereotactic ablative radiotherapy** *LUNG CANCER*  
Abelson, J. A., Murphy, J. D., Trakul, N., Bazan, J. G., Maxim, P. G., Graves, E. E., Quon, A., Quynh-Thu Le, Q. T., Diehn, M., Loo, B. W.  
2012; 78 (3): 219-224
- **Metabolic imaging metrics correlate with survival in early stage lung cancer treated with stereotactic ablative radiotherapy.** *Lung cancer*  
Abelson, J. A., Murphy, J. D., Trakul, N., Bazan, J. G., Maxim, P. G., Graves, E. E., Quon, A., Le, Q., Diehn, M., Loo, B. W.  
2012; 78 (3): 219-224
- **Stereotactic Ablative Radiotherapy for Reirradiation of Locally Recurrent Lung Tumors** *JOURNAL OF THORACIC ONCOLOGY*  
Trakul, N., Harris, J. P., Le, Q., Hara, W. Y., Maxim, P. G., Loo, B. W., Diehn, M.  
2012; 7 (9): 1462-1465
- **Tumor Volume-Adapted Dosing in Stereotactic Ablative Radiotherapy of Lung Tumors** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*

Trakul, N., Chang, C. N., Harris, J., Chapman, C., Rao, A., Shen, J., Quinlan-Davidson, S., Filion, E. J., Wakelee, H. A., Colevas, A. D., Whyte, R. I., Dieterich, S., Maxim, et al  
2012; 84 (1): 231-237

● **Modern Radiation Therapy Techniques for Pancreatic Cancer** *GASTROENTEROLOGY CLINICS OF NORTH AMERICA*

Trakul, N., Koong, A. C., Maxim, P. G., Chang, D. T.  
2012; 41 (1): 223-?