



Seema Nagpal, MD

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor (By courtesy), Neurosurgery
- 📄 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Cancer Center Neuro-Oncology Clinic**

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Stanford, CA 94305

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Cancer > Neuro Oncology
- Neurology
- Glioma
- Brain Metastasis
- Carcinomatosis, Leptomeningeal
- chemotherapy induced neuropathy
- Paraneoplastic Syndromes

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor (By courtesy), Neurosurgery
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Who's Who in America, Marquis (2015)
- Selected Participant, NINDs Clinical Trials Training Course (2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Clinical Oncology (2010 - present)
- Member, Society of Neuro-Oncology (2010 - present)
- Member, American Academy of Neurology (2005 - present)

PROFESSIONAL EDUCATION

- Medical Education: Perelman School of Medicine University of Pennsylvania (2004) PA
- Residency: University Of Iowa Hospitals and Clinics GME Training Verifications (2005) IA

- Board Certification: Neuro-Oncology, United Council for Neurologic Subspecialties (2015)
- Residency: University of California School of Medicine (2009) CA
- Internship: University of California School of Medicine (2007) CA
- Fellowship: Stanford University (2011) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2010)

LINKS

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

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I'm a board certified neuro-oncologist who treats both primary brain tumors as well as metastatic disease to the brain and nervous system. My research concentrates on clinical trials for patients with late-stage central nervous system cancer. I have a special interest in leptomeningeal disease, a devastating complication of lung and breast cancers. I collaborate with Stanford scientists to detect this disease earlier, and with our breast and lung oncologists to improve outcomes for patients.

CLINICAL TRIALS

- [18F]DASA-23 and PET Scan in Evaluating Pyruvate Kinase M2 Expression in Patients With Intracranial Tumors or Recurrent Glioblastoma and Healthy Volunteers, Recruiting
- Molecular Analysis of Thoracic Malignancies, Recruiting
- A Phase 1b/2, Multicenter, Open-label Study of ACP-196 in Subjects With Recurrent Glioblastoma Multiforme (GBM), Not Recruiting
- A Phase 3, Pivotal Trial of VB-111 Plus Bevacizumab vs. Bevacizumab in Patients With Recurrent Glioblastoma (GLOBE), Not Recruiting
- A Study to Evaluate the Safety and Antitumor Activity in Subjects With Advanced Solid Tumors, Not Recruiting
- BPM31510 in Treating Patients With Recurrent High-Grade Glioma Previously Treated With Bevacizumab, Not Recruiting
- Brentuximab Vedotin (SGN-35) in Patients With Mycosis Fungoides With Variable CD30 Expression Level, Not Recruiting
- Feasibility Study of New Method of Diagnostic and Prediction of Painful CIPN, Not Recruiting
- INO-5401 and INO-9012 Delivered by Electroporation (EP) in Combination With Cemiplimab (REGN2810) in Newly-Diagnosed Glioblastoma (GBM), Not Recruiting
- Memantine Hydrochloride and Whole-Brain Radiotherapy With or Without Hippocampal Avoidance in Reducing Neurocognitive Decline in Patients With Brain Metastases, Not Recruiting
- Phase II Etirinotecan Pegol in Refractory Brain Metastases & Advanced Lung Cancer / Metastatic Breast Cancer, Not Recruiting
- Study of REGN2810 (Anti-PD-1) in Patients With Advanced Malignancies, Not Recruiting
- The Toca 5 Trial: Toca 511 & Toca FC Versus Standard of Care in Patients With Recurrent High Grade Glioma, Not Recruiting

Publications

PUBLICATIONS

- **Osimertinib for EGFR-Mutant Lung Cancer with Brain Metastases: Results from a Single-Center Retrospective Study** *ONCOLOGIST*
Xie, L., Nagpal, S., Wakelee, H. A., Li, G., Soltys, S. G., Neal, J. W.
2019; 24 (6): 836–43
- **Adverse Radiation Effect and Disease Control in Patients Undergoing Stereotactic Radiosurgery and Immune Checkpoint Inhibitor Therapy for Brain Metastases** *WORLD NEUROSURGERY*
Koenig, J. L., Shi, S., Sborov, K., Gensheimer, M. F., Le, G., Nagpal, S., Chang, S. D., Gibbs, I. C., Soltys, S. G., Pollom, E. L.
2019; 126: E1399–E1411
- **To Biopsy or Not to Biopsy? A case of primary intramedullary spinal cord lymphoma presenting as longitudinally extensive transverse myelitis within cervical cord**

Satyanarayan, S., Rizvi, A., Nagpal, S.

LIPPINCOTT WILLIAMS & WILKINS.2019

- **Adverse Radiation Effect and Disease Control in Patients Undergoing Stereotactic Radiosurgery and Immune Checkpoint Inhibitor Therapy for Brain Metastases.** *World neurosurgery*
Koenig, J. L., Shi, S., Sborov, K., Gensheimer, M. F., Li, G., Nagpal, S., Chang, S. D., Gibbs, I. C., Soltys, S. G., Pollom, E. L.
2019
- **Current State of Immunotherapy for Treatment of Glioblastoma.** *Current treatment options in oncology*
McGranahan, T., Therkelsen, K. E., Ahmad, S., Nagpal, S.
2019; 20 (3): 24
- **Case closed: another prophylactic cranial irradiation trial for stage 3 non-small cell lung cancer fails to improve overall survival** *ANNALS OF TRANSLATIONAL MEDICINE*
Moghavem, N., Wakelee, H. A., Nagpal, S.
2018; 6
- **Central Nervous System Lymphoma in a Patient with Chronic Lymphocytic Leukemia: A Case Report and Literature Review.** *Cureus*
Albahr, A., Alhothali, W., Samghabadi, P., Maeda, L., Nagpal, S., Ajlan, A.
2018; 10 (11): e3660
- **Developing a standardized process for oral chemotherapy management for neuro-oncology.**
McGranahan, T., Gershon, M., Pena, J., Bains, C., Van Meter, M., Salas, S., Nagpal, S.
AMER SOC CLINICAL ONCOLOGY.2018
- **A Diffuse Leptomeningeal Glioneuronal Tumor Without Diffuse Leptomeningeal Involvement: Detailed Molecular and Clinical Characterization** *JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY*
Kung, J. H., Buckley, A. F., Nagpal, S., Fischbein, N., Peters, K. B.
2018; 77 (9): 751–56
- **BPM 31510, a clinical stage metabolic modulator, demonstrates therapeutic efficacy in glioblastoma models of temozolomide chemosensitive and resistance by targeting mitochondrial function**
Dadali, T., Kulkarni, S., Ng, R., Awate, P., Mogre, S., Diers, A. R., Jang, T., Merchant, M., Sun, J., Gesta, S., Thapa, K., Nagpal, S., Recht, et al
AMER ASSOC CANCER RESEARCH.2018
- **Recurrently Mutated Genes Differ between Leptomeningeal and Solid Lung Cancer Brain Metastases.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Li, Y., Liu, B., Connolly, I. D., Kakusa, B. W., Pan, W., Nagpal, S., Montgomery, S. B., Hayden Gephart, M.
2018
- **First-in-human intraoperative near-infrared fluorescence imaging of glioblastoma using cetuximab-IRDye800.** *Journal of neuro-oncology*
Miller, S. E., Tummers, W. S., Teraphongphom, N., van den Berg, N. S., Hasan, A., Ertsey, R. D., Nagpal, S., Recht, L. D., Plowey, E. D., Vogel, H., Harsh, G. R., Grant, G. A., Li, et al
2018
- **Osimertinib for EGFR-Mutant Lung Cancer with Brain Metastases: Results from a Single-Center Retrospective Study.** *The oncologist*
Xie, L., Nagpal, S., Wakelee, H. A., Li, G., Soltys, S. G., Neal, J. W.
2018
- **Conditional Probability of Survival as a Proposed Endpoint for Future Single-Arm Clinical Trials in Glioblastoma**
Patel, C. B., Thomas, R. P., Nagpal, S., Recht, L. D.
WILEY.2017: S206–S207
- **History and current state of immunotherapy in glioma and brain metastasis** *THERAPEUTIC ADVANCES IN MEDICAL ONCOLOGY*
McGranahan, T., Li, G., Nagpal, S.
2017; 9 (5): 347-368
- **Phase 1/2 Trial of 5-Fraction Stereotactic Radiosurgery With 5-mm Margins With Concurrent and Adjuvant Temozolomide in Newly Diagnosed Supratentorial Glioblastoma: Health-Related Quality of Life Results.** *International journal of radiation oncology, biology, physics*
Pollom, E. L., Fujimoto, D., Wynne, J., Seiger, K., Modlin, L. A., Jacobs, L. R., Azoulay, M., von Eyben, R., Tupper, L., Gibbs, I. C., Hancock, S. L., Li, G., Chang, et al

2017; 98 (1): 123-130

- **A Neuro-oncologist's Perspective on Management of Brain Metastases in Patients with EGFR Mutant Non-small Cell Lung Cancer.** *Current treatment options in oncology*
McGranahan, T., Nagpal, S.
2017; 18 (4): 22-?
- **Characterization of the peripheral neuropathy associated with brentuximab vedotin treatment of Mycosis Fungoides and Sézary Syndrome.** *Journal of neuro-oncology*
Corbin, Z. A., Nguyen-Lin, A., Li, S., Rahbar, Z., Tavallae, M., Vogel, H., Salva, K. A., Wood, G. S., Kim, Y. H., Nagpal, S.
2017
- **Stereotactic Radiosurgery and Hypofractionated Radiotherapy for Glioblastoma.** *Neurosurgery*
Shah, J. L., Li, G., Shaffer, J. L., Azoulay, M. I., Gibbs, I. C., Nagpal, S., Soltys, S. G.
2017
- **Optimizing bevacizumab dosing in glioblastoma: less is more.** *Journal of neuro-oncology*
Ajlan, A., Thomas, P., Albakr, A., Nagpal, S., Recht, L.
2017; 135 (1): 99-105
- **AN OVERVIEW OF DNA TOPOISOMERASE I INHIBITORS UNDER DEVELOPMENT DRUGS OF THE FUTURE**
Connolly, I. D., Hixson, J. D., Nagpal, S.
2016; 41 (12): 731-740
- **PS01.04: A Phase II Study of Etrinecetan Pegol (NKTR-102) in Patients with Refractory Brain Metastases and Advanced Lung Cancer: Topic: Medical Oncology.** *Journal of thoracic oncology*
Neal, J. W., Wakelee, H., Padda, S. K., Bertrand, S., Acevedo, B., Holmes Tisch, A., Pagtama, J. Y., Soltys, S. G., Nagpal, S.
2016; 11 (11S): S271-S272
- **A Phase I/II Trial of 5 Fraction Stereotactic Radiosurgery With 5-mm Margins With Concurrent and Adjuvant Temozolomide in Newly Diagnosed Supratentorial Glioblastoma Multiforme.** *International journal of radiation oncology, biology, physics*
Azoulay, M., Ho, C. K., Fujimoto, D. K., Modlin, L. A., Gibbs, I. C., Hancock, S. L., Li, G., Chang, S. D., Adler, J. R., Harsh, G. R., Nagpal, S., Thomas, R., Recht, et al
2016; 96 (2S): E131-E132
- **Tumor DNA in cerebral spinal fluid reflects clinical course in a patient with melanoma leptomeningeal brain metastases** *JOURNAL OF NEURO-ONCOLOGY*
Li, Y., Pan, W., Connolly, I. D., Reddy, S., Nagpal, S., Quake, S., Gephart, M. H.
2016; 128 (1): 93-100
- **The "Liquid Biopsy": the Role of Circulating DNA and RNA in Central Nervous System Tumors.** *Current neurology and neuroscience reports*
Connolly, I. D., Li, Y., Gephart, M. H., Nagpal, S.
2016; 16 (3): 25-?
- **Phase II Investigator-Initiated Study of Brentuximab Vedotin in Mycosis Fungoides and Sézary Syndrome With Variable CD30 Expression Level: A Multi-Institution Collaborative Project.** *Journal of clinical oncology*
Kim, Y. H., Tavallae, M., Sundram, U., Salva, K. A., Wood, G. S., Li, S., Rozati, S., Nagpal, S., Krathen, M., Reddy, S., Hoppe, R. T., Nguyen-Lin, A., Weng, et al
2015; 33 (32): 3750-3758
- **Glioblastoma Multiforme Recurrence: An Exploratory Study of F-18 FPPRGD(2) PET/CT1** *RADIOLOGY*
Iagaru, A., Mosci, C., Mittra, E., Zaharchuk, G., Fischbein, N., Harsh, G., Li, G., Nagpal, S., Recht, L., Gambhir, S. S.
2015; 277 (2): 497-506
- **Phase II pilot study of single-agent etirinecetan pegol (NKTR-102) in bevacizumab-resistant high grade glioma** *JOURNAL OF NEURO-ONCOLOGY*
Nagpal, S., Recht, C. K., Bertrand, S., Thomas, R. P., Ajlan, A., Pena, J., Gershon, M., Coffey, G., Kunz, P. L., Li, G., Recht, L. D.
2015; 123 (2): 277-282
- **Cerebral Blood Flow Changes in Glioblastoma Patients Undergoing Bevacizumab Treatment Are Seen in Both Tumor and Normal Brain.** *The neuroradiology journal*
Andre, J. B., Nagpal, S., Hippe, D. S., Ravanpay, A. C., Schmiedeskamp, H., Bammer, R., Palagallo, G. J., Recht, L., Zaharchuk, G.

2015; 28 (2): 112-119

- **Brain Tumor Mutations Detected in Cerebral Spinal Fluid** *CLINICAL CHEMISTRY*
Pan, W., Gu, W., Nagpal, S., Gephart, M. H., Quake, S. R.
2015; 61 (3): 514-522
- **Prolonged survival of patients with non-small-cell lung cancer with leptomeningeal carcinomatosis in the modern treatment era.** *Clinical lung cancer*
Riess, J. W., Nagpal, S., Iv, M., Zeineh, M., Gubens, M. A., Ramchandran, K., Neal, J. W., Wakelee, H. A.
2014; 15 (3): 202-206
- **Risk of Leptomeningeal Disease in Patients Treated With Stereotactic Radiosurgery Targeting the Postoperative Resection Cavity for Brain Metastases** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Atalar, B., Modlin, L. A., Choi, C. Y., Adler, J. R., Gibbs, I. C., Chang, S. D., Harsh, G. R., Li, G., Nagpal, S., Hanlon, A., Soltys, S. G.
2013; 87 (4): 713-718
- **Simultaneous perfusion and permeability measurements using combined spin- and gradient-echo MRI.** *Journal of cerebral blood flow and metabolism*
Schmiedeskamp, H., Andre, J. B., Straka, M., Christen, T., Nagpal, S., Recht, L., Thomas, R. P., Zaharchuk, G., Bammer, R.
2013; 33 (5): 732-743
- **A Patient With Anaplastic Lymphoma Kinase-Positive Non-Small Cell Lung Cancer With Development of Leptomeningeal Carcinomatosis While on Targeted Treatment With Crizotinib** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Riess, J. W., Nagpal, S., Neal, J. W., Wake, H. A.
2013; 11 (4): 389-394
- **ETIRINOTECAN PEGOL DNA Topoisomerase 1 Inhibitor Oncolytic** *DRUGS OF THE FUTURE*
Nagpal, S., Recht, L. D.
2013; 38 (4): 227-233
- **The incidence and significance of multiple lesions in glioblastoma** *JOURNAL OF NEURO-ONCOLOGY*
Thomas, R. P., Xu, L. W., Lober, R. M., Li, G., Nagpal, S.
2013; 112 (1): 91-97
- **A case series of NSCLC patients with different molecular characteristics and choroidal metastases: improvement in vision with treatment including pemetrexed and bevacizumab.** *Journal of thoracic oncology*
Riess, J. W., Nagpal, S., Das, M., Neal, J. W., Kim, J. W., Wakelee, H. A.
2013; 8 (2): e17-8
- **EGFR mutation status and brain metastases in non-small cell lung cancer: an understudied problem** *TRANSLATIONAL CANCER RESEARCH*
Riess, J. W., Nagpal, S.
2013; 2 (1): 54-56
- **A Case Series of NSCLC Patients with Different Molecular Characteristics and Choroidal Metastases Improvement in Vision with Treatment Including Pemetrexed and Bevacizumab** *JOURNAL OF THORACIC ONCOLOGY*
Riess, J. W., Nagpal, S., Das, M., Neal, J. W., Kim, J. W., Wakelee, H. A.
2013; 8 (2): E17-E18
- **Advances in the management of glioblastoma: the role of temozolomide and MGMT testing.** *Clinical pharmacology : advances and applications*
Thomas, R. P., Recht, L., Nagpal, S.
2013; 5: 1-9
- **Treatment of Leptomeningeal Spread of NSCLC: A Continuing Challenge** *CURRENT TREATMENT OPTIONS IN ONCOLOGY*
Nagpal, S., Riess, J., Wakelee, H.
2012; 13 (4): 491-504
- **Polymer Wafers (Gliadel) in the Treatment of Malignant Glioma** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Nagpal, S.
2012; 23 (2): 289-?
- **Neoplastic Myelopathy** *SEMINARS IN NEUROLOGY*
Nagpal, S., Clarke, J. L.
2012; 32 (2): 137-145

- **Treatment and Prophylaxis of Hematologic Malignancy in the Central Nervous System** *CURRENT TREATMENT OPTIONS IN NEUROLOGY*
Nagpal, S., Recht, L.
2011; 13 (4): 400-412
- **Bevacizumab improves quality of life in patients with recurrent glioblastoma.** *Chemotherapy research and practice*
Nagpal, S., Harsh, G., Recht, L.
2011; 2011: 602812-?
- **Cardiac Rupture After Intravenous t-PA Administration in Acute Ischemic Stroke** *NEUROCRITICAL CARE*
Dhand, A., Nakagawa, K., Nagpal, S., Gelfand, J. M., Kim, A. S., Smith, W. S., Tihan, T.
2010; 13 (2): 261-262
- **Treatment and Prevention of Secondary CNS Lymphoma** *SEMINARS IN NEUROLOGY*
Nagpal, S., Glantz, M. J., Recht, L.
2010; 30 (3): 263-272
- **Decompressive laparotomy to treat intractable cerebral hypoxia.** *journal of trauma*
Nagpal, S., Halpern, C. H., Sims, C., Calland, J. F., Gracias, V. H., Schuster, J. M., LeRoux, P. D., Levine, J. M.
2009; 67 (5): E152-5
- **Vasospasm as the sole cause of cerebral ischemia: how strong is the evidence?** *Neurosurgical focus*
Stein, S. C., Levine, J. M., Nagpal, S., LeRoux, P. D.
2006; 21 (3): E2-?
- **Management of patients with Schwan nomatosis: Report of six cases and review of the literature** *SURGICAL NEUROLOGY*
Huang, J. H., Simon, S. L., Nagpal, S., Nelson, P. T., Zager, E. L.
2004; 62 (4): 353-361