



Vafi Salmasi

Assistant Professor of Anesthesiology, Perioperative and Pain Medicine (Adult Pain)

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pain Management Center**

450 Broadway Ave 1st Fl

Redwood City, CA 94063

Tel (650) 723-6238

Fax (650) 721-3417

Bio

BIO

Vafi Salmasi, MD, is a specialist in pain medicine with clinical foci in neuromodulation, neuropathic pain; complex regional pain syndrome (CRPS); radiculopathy; spinal stenosis; and postherpetic neuralgia. He received his medical degree from Tehran University, Iran, and completed his residency in anesthesiology at Cleveland Clinic. He then completed his fellowship in pain medicine at Stanford University. He is board certified in both Anesthesiology and Pain Medicine by the American Board of Anesthesiology. Dr. Salmasi is currently a Clinical Instructor of Anesthesiology and Pain Medicine at Stanford University.

CLINICAL FOCUS

- Pain Management
- Neuromodulation
- Spinal Cord Stimulation
- Dorsal Root Ganglion Stimulation
- Peripheral Nerve Stimulation
- Minimally Invasive Spine Interventions
- Back Pain
- Post-Laminectomy Syndrome
- Neuropathic Pain
- CRPS
- Postherpetic Neuralgia
- Radiculopathy
- Spinal Stenosis
- Perioperative Pain Management

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

HONORS AND AWARDS

- Recipient of Michael J. deUngria M.D. Residency Award, Cleveland Clinic Anesthesiology Residency Program (2016)
- Second place winner in Residents' Research Essay Contest, American Society of Anesthesiologists Annual Meeting (2016)

PROFESSIONAL EDUCATION

- Master's Degree, Stanford University School of Medicine , Epidemiology and Clinical Research (2019)
- Fellowship: Stanford University Pain Management Fellowship (2017) CA
- Board Certification: Pain Management, American Board of Anesthesiology (2017)
- Board Certification: Anesthesia, American Board of Anesthesiology (2017)
- Medical Education: Tehran University of Medical Sciences (2004) Iran
- Residency: Cleveland Clinic Foundation (2016) OH
- Internship: Cleveland Clinic Foundation (2012) OH

Research & Scholarship

CLINICAL TRIALS

- Comparing Effectiveness of Duloxetine and Desipramine in Patients With Chronic Pain: A Pragmatic Trial Using Point of Care Randomization, Recruiting
- Stanford Pragmatic Effectiveness Comparison, Recruiting
- Comparing Long-term Effectiveness of High Frequency and Burst Spinal Cord Stimulation, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pain Management (Fellowship Program)

Publications

PUBLICATIONS

- **Pragmatic Comparative Effectiveness Trials and Learning Health Systems in Pain Medicine: Opportunities and Challenges.** *Anesthesiology clinics*
Salmasi, V., Terkawi, A. S., Mackey, S. C.
2023; 41 (2): 503-517
- **Transitional Pain Medicine; New Era, New Opportunities, and New Journey.** *Anesthesiology clinics*
Terkawi, A. S., Ottestad, E., Altirkawi, O. K., Salmasi, V.
2023; 41 (2): 383-394
- **Clinical Approach to Chronic Pain due to Perioperative Nerve Injury.** *Anesthesiology clinics*
Terkawi, A. S., Altirkawi, O. K., Salmasi, V., Ottestad, E.
2023; 41 (2): 489-502
- **Durable Chronic Low Back Pain Reductions to 24-Months Post-Treatment for An Accessible, 8-Week, In-Home Behavioral Skills-Based Virtual Reality Program: A Randomized Controlled Trial.** *Pain medicine (Malden, Mass.)*
Maddox, T., Sparks, C., Oldstone, L., Maddox, R., Ffrench, K., Garcia, H., Krishnamurthy, P., Okhotin, D., Garcia, L. M., Birkhead, B. J., Sackman, J., Mackey, I., Louis, et al
2023
- **Application of multidisciplinary team conference for neuromodulation candidates facilitates patient selection and optimization.** *Frontiers in pain research (Lausanne, Switzerland)*
Salmasi, V., Rasouli, M. R., Kao, M. C., Ottestad, E., Terkawi, A. S., Morris, G., Qian, X., Coleman, S., Talavera, D. C., Poupore-King, H., Slater, K., Leong, M. S.
2023; 4: 1331883

- **In-home virtual reality program for chronic low back pain: durability of a randomized, placebo-controlled clinical trial to 18 months post-treatment.** *Regional anesthesia and pain medicine*
Maddox, T., Garcia, H., Ffrench, K., Maddox, R., Garcia, L., Krishnamurthy, P., Okhotin, D., Sparks, C., Oldstone, L., Birkhead, B., Sackman, J., Mackey, I., Louis, et al
2022
- **Association of cannabis and/or opioid with quality of life and healthcare utilization in patients with chronic pain.** *Frontiers in pain research (Lausanne, Switzerland)*
Salmasi, V., Nelson, L. M., Hong, J., Mackey, S. C.
2022; 3: 1015605
- **A literature review of the impact of exclusion criteria on generalizability of clinical trial findings to patients with chronic pain** *PAIN REPORTS*
Salmasi, V., Lii, T. R., Humphreys, K., Reddy, V., Mackey, S. C.
2022; 7 (6): e1050
- **"My Surgical Success": Feasibility and Impact of a Single-Session Digital Behavioral Pain Medicine Intervention on Pain Intensity, Pain Catastrophizing, and Time to Opioid Cessation After Orthopedic Trauma Surgery-A Randomized Trial.** *Anesthesia and analgesia*
Ziadni, M. S., You, D. S., Keane, R., Salazar, B., Jaros, S., Ram, J., Roy, A., Tanner, N., Salmasi, V., Gardner, M., Darnall, B. D.
2022
- **Correction: Durability of the Treatment Effects of an 8-Week Self-administered Home-Based Virtual Reality Program for Chronic Low Back Pain: 6-Month Follow-up Study of a Randomized Clinical Trial.** *Journal of medical Internet research*
Garcia, L., Birkhead, B., Krishnamurthy, P., Mackey, I., Sackman, J., Salmasi, V., Louis, R., Castro, C., Maddox, R., Maddox, T., Darnall, B. D.
2022; 24 (6): e40038
- **Durability of the Treatment Effects of an 8-Week Self-administered Home-Based Virtual Reality Program for Chronic Low Back Pain: 6-Month Follow-up Study of a Randomized Clinical Trial (vol 24, e37480, 2022)** *JOURNAL OF MEDICAL INTERNET RESEARCH*
Garcia, L., Birkhead, B., Krishnamurthy, P., Mackey, I., Sackman, J., Salmasi, V., Louis, R., Castro, C., Maddox, R., Maddox, T., Darnall, B. D.
2022; 24 (6)
- **Durability of the Treatment Effects of an 8-Week Self-administered Home-Based Virtual Reality Program for Chronic Low Back Pain: Follow-up Study of a Randomized Clinical Trial.** *Journal of medical Internet research*
Garcia, L., Birkhead, B., Krishnamurthy, P., Mackey, I., Sackman, J., Salmasi, V., Louis, R., Castro, C., Maddox, R., Maddox, T., Darnall, B. D.
2022; 24 (5): e37480
- **Considerations in Permanent Implantation of Peripheral Nerve Stimulation (PNS) for Chronic Neuropathic Pain: An International Cross Sectional Survey of Implanters.** *Pain practice : the official journal of World Institute of Pain*
Li, A. H., Gulati, A., Leong, M. S., Aggarwal, A. K., Salmasi, V., Spinner, D., Ottestad, E.
2022
- **Management of Postoperative Pain in Patients Following Spine Surgery: A Narrative Review.** *International journal of general medicine*
Prabhakar, N. K., Chadwick, A. L., Nwaneshiudu, C., Aggarwal, A., Salmasi, V., Lii, T. R., Hah, J. M.
2022; 15: 4535-4549
- **Stanford pragmatic effectiveness comparison (SPEC) protocol: Comparing long-term effectiveness of high-frequency and burst spinal cord stimulation in real-world application.** *Contemporary clinical trials*
Petrou, P. A., Leong, M. S., Mackey, S. C., Salmasi, V.
2021: 106324
- **Double-blind, randomized placebo-controlled trial of 8-week self-administered at-home behavioral skills-based virtual reality (VR) for chronic low back pain (during COVID-19).** *Journal of medical Internet research*
Darnall, B. n., Garcia, L. n., Birkhead, B. n., Krishnamurthy, P. n., Mackey, I. n., Sackman, J. n., Louis, R. n., Maddox, T. n.
2021
- **Three-month follow-up results of a double-blind, randomized placebo-controlled trial of 8-week self-administered at-home behavioral skills-based virtual reality (VR) for chronic low back pain.** *The journal of pain*
Garcia, L. M., Birkhead, B. J., Krishnamurthy, P., Mackey, I., Sackman, J., Salmasi, V., Louis, R., Maddox, T., Darnall, B. D.
2021
- **Development and validation of the Collaborative Health Outcomes Information Registry body map.** *Pain reports*
Scherrer, K. H., Ziadni, M. S., Kong, J., Sturgeon, J. A., Salmasi, V., Hong, J., Cramer, E., Chen, A. L., Pacht, T., Olson, G., Darnall, B. D., Kao, M., Mackey, et al

2021; 6 (1): e880

- **Peripheral Nerve Stimulation for Occipital Neuralgia.** *Pain medicine (Malden, Mass.)*
Salmasi, V., Olatoye, O. O., Terkawi, A. S., Hah, J. M., Ottestad, E., Pingree, M.
2020; 21 (Supplement_1): S13–S17
- **Peripheral Nerve Stimulation for Pudendal Neuralgia: A Technical Note.** *Pain medicine (Malden, Mass.)*
Gregory, N. S., Terkawi, A. S., Prabhakar, N. K., Tran, J. V., Salmasi, V., Hah, J. M.
2020; 21 (Supplement_1): S51–S55
- **Outcomes of Sympathetic Blocks in the Management of Complex Regional Pain Syndrome: A Retrospective Cohort Study.** *Anesthesiology*
Cheng, J. n., Salmasi, V. n., You, J. n., Grille, M. n., Yang, D. n., Mascha, E. J., Cheng, O. T., Zhao, F. n., Rosenquist, R. W.
2019
- **Genomic analysis identifies frequent deletions of Dystrophin in olfactory neuroblastoma.** *Nature communications*
Gallia, G. L., Zhang, M., Ning, Y., Haffner, M. C., Batista, D., Binder, Z. A., Bishop, J. A., Hann, C. L., Hruban, R. H., Ishii, M., Klein, A. P., Reh, D. D., Rooper, et al
2018; 9 (1): 5410
- **Genomic analysis identifies frequent deletions of Dystrophin in olfactory neuroblastoma** *NATURE COMMUNICATIONS*
Gallia, G. L., Zhang, M., Ning, Y., Haffner, M. C., Batista, D., Binder, Z. A., Bishop, J. A., Hann, C. L., Hruban, R. H., Ishii, M., Klein, A. P., Reh, D. D., Rooper, et al
2018; 9
- **Relationship between Intraoperative Hypotension, Defined by Either Reduction from Baseline or Absolute Thresholds, and Acute Kidney and Myocardial Injury after Noncardiac Surgery: A Retrospective Cohort Analysis.** *Anesthesiology*
Salmasi, V., Maheshwari, K., Yang, D., Mascha, E. J., Singh, A., Sessler, D. I., Kurz, A.
2016: -?
- **Clonidine Does Not Reduce Pain or Opioid Consumption After Noncardiac Surgery.** *Anesthesia and analgesia*
Turan, A., Babazade, R., Kurz, A., Devereaux, P. J., Zimmerman, N. M., Hutcherson, M. T., Naylor, A. J., Ali Sakr Esa, W., Parlow, J., Gilron, I., Honar, H., Salmasi, V., Sessler, et al
2016; 123 (3): 749-757
- **Establishment and Biological Characterization of a Panel of Glioblastoma Multiforme (GBM) and GBM Variant Oncosphere Cell Lines** *PLOS ONE*
Binder, Z. A., Wilson, K. M., Salmasi, V., Orr, B. A., Eberhart, C. G., Siu, I., Lim, M., Weingart, J. D., Quinones-Hinojosa, A., Bettegowda, C., Kassam, A. B., Olivi, A., Brem, et al
2016; 11 (3)
- **Identification of location of nerve catheters using pumping maneuver and M-Mode-a novel technique** *JOURNAL OF CLINICAL ANESTHESIA*
Elsharkawy, H., Salmasi, V., Abd-Elsayed, A., Turan, A.
2015; 27 (4): 325-330
- **Intraoperative hypertensive crisis due to a catecholamine-secreting esthesioneuroblastoma** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
Salmasi, V., Schiavi, A., Binder, Z. A., Ruzevick, J., Orr, B. A., Burger, P. C., Ball, D. W., Blitz, A. M., Koch, W. M., Ishii, M., Gallia, G. L.
2015; 37 (6): E74-E80
- **Intraoperative Core Temperature Patterns, Transfusion Requirement, and Hospital Duration in Patients Warmed with Forced Air** *ANESTHESIOLOGY*
Sun, Z., Honar, H., Sessler, D. I., Dalton, J. E., Yang, D., Panjasawatwong, K., Deroee, A. F., Salmasi, V., Saager, L., Kurz, A.
2015; 122 (2): 276-285
- **Perioperative aspirin and clonidine and risk of acute kidney injury: a randomized clinical trial.** *JAMA*
Garg, A. X., Kurz, A., Sessler, D. I., Cuerden, M., Robinson, A., Mrkobrada, M., Parikh, C. R., Mizera, R., Jones, P. M., Tiboni, M., Font, A., Cegarra, V., Gomez, et al
2014; 312 (21): 2254-2264
- **Clonidine in Patients Undergoing Noncardiac Surgery** *NEW ENGLAND JOURNAL OF MEDICINE*
Devereaux, P. J., Sessler, D. I., Leslie, K., Kurz, A., Mrkobrada, M., Alonso-Coello, P., Villar, J. C., Sigamani, A., Biccard, B. M., Meyhoff, C. S., Parlow, J. L., Guyatt, G., Robinson, et al
2014; 370 (16): 1504-1513

- **Aspirin in Patients Undergoing Noncardiac Surgery** *NEW ENGLAND JOURNAL OF MEDICINE*
Devereaux, P. J., Mrkobrada, M., Sessler, D. I., Leslie, K., Alonso-Coello, P., Kurz, A., Villar, J. C., Sigamani, A., Biccard, B. M., Meyhoff, C. S., Parlow, J. L., Guyatt, G., Robinson, et al
2014; 370 (16): 1494-1503
- **NY-ESO-1 Expression in Meningioma Suggests a Rationale for New Immunotherapeutic Approaches** *CANCER IMMUNOLOGY RESEARCH*
Baia, G. S., Caballero, O. L., Ho, J. S., Zhao, Q., Cohen, T., Binder, Z. A., Salmasi, V., Gallia, G. L., Quinones-Hinojosa, A., Olivi, A., Brem, H., Burger, P., Strausberg, et al
2013; 1 (5): 296-302
- **5-azacytidine reduces methylation, promotes differentiation and induces tumor regression in a patient-derived IDH1 mutant glioma xenograft** *ONCOTARGET*
Borodovsky, A., Salmasi, V., Turcan, S., Fabius, A. W., Baia, G. S., Eberhart, C. G., Weingart, J. D., Gallia, G. L., Baylin, S. B., Chan, T. A., Riggins, G. J.
2013; 4 (10): 1737-1747
- **Exomic Sequencing of Four Rare Central Nervous System Tumor Types** *ONCOTARGET*
Bettegowda, C., Agrawal, N., Jiao, Y., Wang, Y., Wood, L. D., Rodriguez, F. J., Hruban, R. H., Gallia, G. L., Binder, Z. A., Riggins, C. J., Salmasi, V., Riggins, G. J., Reitman, et al
2013; 4 (4): 572-583
- **Expanded endonasal endoscopic approach for resection of a growth hormone-secreting pituitary macroadenoma coexistent with a cavernous carotid artery aneurysm** *JOURNAL OF CLINICAL NEUROSCIENCE*
Xia, X., Ramanathan, M., Orr, B. A., Salmasi, V., Salvatori, R., Reh, D. D., Gallia, G. L.
2012; 19 (10): 1437-1441
- **Chemotherapy within 30 days before surgery does not augment postoperative mortality and morbidity** *CANADIAN JOURNAL OF ANESTHESIA-JOURNAL CANADIEN D ANESTHESIE*
Turan, A., Shao, D., Salmasi, V., Honar, H., Atim, A., Dalton, J. E., Saager, L., Sessler, D. I.
2012; 59 (8): 758-765
- **Establishment and characterization of a primary human chordoma xenograft model Laboratory investigation** *JOURNAL OF NEUROSURGERY*
Siu, I., Salmasi, V., Orr, B. A., Zhao, Q., Binder, Z. A., Tran, C., Ishii, M., Riggins, G. J., Hann, C. L., Gallia, G. L.
2012; 116 (4): 801-809
- **Expanded endonasal endoscopic approach for resection of a skull base low-grade smooth muscle neoplasm** *CHILDS NERVOUS SYSTEM*
Salmasi, V., Reh, D. D., Blitz, A. M., Argani, P., Ishii, M., Gallia, G. L.
2012; 28 (1): 151-158
- **Endonasal endoscopic resection of esthesioneuroblastoma: the Johns Hopkins Hospital experience and review of the literature** *NEUROSURGICAL REVIEW*
Gallia, G. L., Reh, D. D., Salmasi, V., Blitz, A. M., Koch, W., Ishii, M.
2011; 34 (4): 465-474
- **Expanded endonasal endoscopic approach for resection of a large skull base aneurysmal bone cyst in a pediatric patient with extensive cranial fibrous dysplasia** *CHILDS NERVOUS SYSTEM*
Salmasi, V., Blitz, A. M., Ishii, M., Gallia, G. L.
2011; 27 (4): 649-656