

CURRICULUM VITAE

Vafi Salmasi M.D.

April 2019

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointment

Pain Medicine Instructor
Department of Anesthesiology, Perioperative and Pain Medicine
Masters Student in Epidemiology and Clinical Research
Stanford University School of Medicine
Palo Alto, CA

Personal Data

Work Address:
1070 Arastradero Rd. Suite 200
Palo Alto, CA 94305
Phone: 650-725-0246
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Education and Training

Feb. 1997-Oct. 2004	Medical Doctorate	Tehran University of Medical Sciences Tehran Iran
Jan. 2008-Oct. 2009	Neurosurgery Residency	Neurological Surgery Residency Training Program Firoozgar Hospital Iran University of Medical Sciences Tehran Iran
Oct. 2009-Mar. 2011	Postdoctoral Research Fellowship	Johns Hopkins University School of Medicine Department of Neurosurgery Baltimore, MD USA
Mar. 2011-Jan. 2012	Postdoctoral Clinical Research Fellowship	Cleveland Clinic Department of Outcomes Research Anesthesiology Institute Cleveland, OH USA
Feb. 2012-Jun. 2012	Anesthesiology Pre-residency	Cleveland Clinic Anesthesiology Institute Cleveland, OH USA
Jul. 2012-Jun. 2016	Anesthesiology Residency	Cleveland Clinic Anesthesiology Institute Cleveland, OH USA
Aug. 2016-Jul. 2017	Pain Medicine Fellowship	Stanford University Department of Anesthesiology and Pain Medicine Palo Alto, CA USA
Aug. 2017-Sep. 2018	Pain Medicine Postdoctoral Research Fellowship	Stanford University Department of Anesthesiology and Pain Medicine Palo Alto, CA USA
Sep. 2017-Mar. 2019	Master's Degree In Clinical Research and Epidemiology	Stanford University School of Medicine Palo Alto, CA USA

Funding

Aug. 2017-Jul. 2018 T32 postdoctoral research fellow on a training grant by National Institute of Health

Aug. 2018-Jul. 2020 Mentored Research Training Grant by American Society of Anesthesiology (ASA) Foundation for Anesthesia Education and Research (FAER)

Licensure and Board Certification

ECFMG Certified since 10/28/2010

Step 1	First Pass in Sep. 2009 (255)
Step 2 CK	First Pass in Nov. 2006 (240)
Step 2 CS	First Pass in Mar. 2010
Step 3	First Pass in Nov. 2011 (211)

Licensed for medical practice in state of Ohio since 2015

Licensed for medical practice in state of California since 2016

American Board of Anesthesiology Diplomate since 2017

American Board of Anesthesiology Pain Medicine Board Certified since 2017

Languages

Persian (Native Language)

English (Proficient in all 4 skills)

French (Basic knowledge of reading, listening and speaking)

Arabic (Basic knowledge of reading, and writing)

Professional Experience

Medical

Oct. 2004-Dec. 2005 Primary Care Physician and Family Physician
Iran Ministry of Health; Booshehr University of Medical Sciences
Booshehr, Iran

Dec. 2005-Nov. 2006 Emergency Physician
Oil Industry Engineering Company (OIEC, the main contractor of phases 9 & 10
South Pars Gas Field Development)
Assaluyeh, Iran

Jan. 2007-Sep. 2009 Consulting Physician (health consultation for foreign employees of multiple different
companies and embassies based in Iran including British Embassy, Embassy of the
Netherlands, Statoil, Shell, OMV, etc)
Medcare Iran
Tehran, Iran

Oct. 2008-Nov. 2008 Emergency Physician of the Gas Field Platform SPD8
Statoil Company (under supervision of Medcare Iran)
Assaluyeh, Iran

Aug. 2017-Sep. 2018	Clinical Instructor Stanford University School of Medicine Department of Anesthesiology, Perioperative and Pain Medicine Palo Alto, CA
Sep. 2018-Present	Pain Medicine Instructor Stanford University School of Medicine Department of Anesthesiology, Perioperative and Pain Medicine Palo Alto, CA

Research Activities

M.S. Thesis Title:

Characterization of Patients with Chronic Pain who Report Use of Opioids and/or Cannabinoids
(<https://purl.stanford.edu/fs165hz2574>)

Research Experience

Mar. 2004-Sep. 2009	Translator, English Editor, and Researcher Pajouheshyar Pars Teb Company Tehran, Iran
Apr. 2007-Sep. 2007	Translator, Researcher, and Designer of Studies Cardiovascular Surgery and Heart Transplant Research Center Shariati Hospital Tehran University of Medical Sciences Tehran, Iran
Jul. 2007-Jan. 2008	Local Project Administrator Bayer Schering Pharma Iran Tehran, Iran
Oct. 2009-Mar. 2011	Postdoctoral Research Fellow Johns Hopkins University School of Medicine Department of Neurosurgery Baltimore, MD
Mar. 2011-Jan. 2012	Postdoctoral Clinical Research Fellow Cleveland Clinic Department of Outcomes Research Anesthesiology Institute Cleveland, OH
May 2013-Jun. 2016	Residency Research Coordinator Cleveland Clinic Department of Outcomes Research Anesthesiology Institute Cleveland, OH
Aug. 2017-Current	Pain Medicine Postdoctoral Research Fellowship Stanford University School of Medicine Department of Anesthesiology and Pain Medicine Palo Alto, CA

Peer Reviewed Publications

1. **Salmasi V**, Blitz AM, Ishii M, Gallia GL. Expanded endonasal endoscopic approach for resection of a large skull base aneurysmal bone cyst in a pediatric patient with extensive cranial fibrous dysplasia. *Childs Nerv Syst.* 27(4):649-56. Epub 2010 Dec 4
2. Gallia GL, Reh DD, **Salmasi V**, Blitz AM, Koch WM, Ishii M. Endonasal Endoscopic Resection of Esthesioneuroblastoma: The Johns Hopkins Hospital Experience and Review of the Literature. *Neurosurg Rev.* 34(4):465-75. Epub 2011 Jun 8.
3. **Salmasi V**, Blitz A, Argani P, Reh DD, Gallia GL. Expanded Endonasal Endoscopic Approach for Resection of a Skull Base Low Grade Smooth Muscle Neoplasm in a Pediatric Patient. *Childs Nerv Syst.* 28:151-158. Epub 2011 Oct 29
4. Siu I, **Salmasi V**, Binder Z, Orr B, Zhao Q, Gallia GL. Establishment and Characterization of a Primary Human Chordoma Xenograft Model. *JNS.* 116(4):801-809. Epub 2012 Jan 27
5. Turan A, Shao D, **Salmasi V**, Honar H, Atim A, Dalton JE, Saager L, Sessler DI. Chemotherapy within 30 days before surgery does not augment postoperative mortality and morbidity. *Can J Anesth.* 59(8):758-765. Epub 2012 May 26
6. Xia X, Ramanathan M, Orr BA, **Salmasi V**, Salvatori R, Reh DD, Gallia GL. Expanded Endonasal Endoscopic Approach for Resection of a Growth Hormone Secreting Pituitary Macroadenoma Coexistent with a Cavernous Carotid Artery Aneurysm. *J Clin Neurosci.* 19:1437-1441. Epub 2012 Jul 25
7. Bettgowda C, Agrawal N, Jiao Y, Wang Y, Wood LD, Rodriguez FJ, Hruban RH, Gallia GL, Binder ZA, Riggins CJ, **Salmasi V**, Riggins GJ, Reitman ZJ, Rasheed A, Keir S, Shinjo S, Marie S, McLendon R, Jallo G, Vogelstein B, Bigner D, Yan H, Kinzler KW, Papadopoulos N: Exomic Sequencing of Four Rare Central Nervous System Tumor Types. **Oncotarget.** 2013 Apr;4(4):572-83 Epub 2013 Apr 6
8. Baia GS, Caballero OL, Ho JSY, Qi Z, Binder ZA, **Salmasi V**, Gallia GL, Duinones-Hinojosa A, Olivi A, Brem H, Burger P, Strausberg RL, Simpson AJG, Eberhart CG, Riggins GJ. NY-ESO-1 Expression in Meningioma Suggests a Rationale for New Immunotherapeutic Approaches. **Cancer Immunology Research.** 2013 Nov;1(5):296-302. Epub 2013 Aug 5
9. Borodovsky A, **Salmasi V**, Turcan S, Baia GS, Eberhart CG, Weingart JD, Gallia GL, Baylin, SB, Chan TA, Riggins GJ. 5-azacytidine reduces methylation, promotes differentiation and induces tumor regression in a patient-derived *IDH1* mutant glioma xenograft. **Oncotarget.** 2013 Oct; 4 (10): 1737-47
10. **Salmasi V**, Schiavi A, Binder ZA, Ruzevick J, Orr BA, Burger PC, Ball, DW, Koch WM, Ishii M, Gallia GL. Intraoperative hypertensive crisis due to a catecholamine-secreting esthesioneuroblastoma. **Head & Neck.** 2014 Oct 28
11. Devereux PJ. & POISE-2 Investigators. Aspirin in patients undergoing noncardiac surgery. **NEJM.** 2014 Apr 17;370(16):1494-503. Epub 2014 Mar 31
12. Devereux PJ. & POISE-2 Investigators. Clonidine in patients undergoing noncardiac surgery. **NEJM.** 2014 Apr 17;370(16):1504-13. Epub 2014 Mar 31
13. **Salmasi V**, Chaiban G, Eissa H, Tolba R, Lirette L, Guirguis MN. Application of Cooled radiofrequency ablation in management of chronic pain. **Techniques in Regional Anesthesia and Pain Management.** 2014 Oct;18(4):137-44
14. Garg AX, Kurz A, Sessler DI & POISE-2 Investigators. Perioperative aspirin and clonidine and risk of acute kidney injury: a randomized clinical trial. **JAMA.** 2014 Dec 3;312(21):2254-64
15. Sun Z, Honar H, Sessler DI, Dalton JE, Yang D, Panjasawatwong K, Deroee AF, **Salmasi V**, Saager L, Kurz A. Intraoperative core temperature patterns, transfusion requirement, and hospital duration in patients with forced air. **Anesthesiology.** 2015 Feb;122(2):276-285
16. Elsharkawy H, **Salmasi V**, Turan A, Abdelsayed A. Identification of the Location of Peripheral Nerve Catheters during Peripheral Nerve Blocks using Pumping Technique. **Journal of Clinical Anesthesia.** 2015 Jun;27(4):325-330
17. Binder ZA, Wilson KM, **Salmasi V**, Orr BA, Eberhart CG, Siu IM, Lim M, Weingart JD, Quinones-Hinojosa A, Bettgowda C, Kassam AB, Olivi A, Brem H, Riggins GJ, Gallia GL. Establishment and Biological Characteristics of a Panel of Glioblastoma Multiforme (GBM) and GBM Variant Oncosphere Cell Lines. **PLoS One.** 2016 Mar 30;11(3):e0150271

18. Turan A, Babazade R, Kurz A, Devereaux PJ, Zimmerman NM, Hutcherson MT, Naylor AJ, Ali Sakr Esa W, Parlow J, Gilron I, Honar H, **Salmasi V**, Sessler DI. Clonidine Does Not Reduce Pain or Opioid Consumption after Noncardiac Surgery. **Anesthesia Analgesia**. 2016 Sep;123(3):749-57
19. Elsharkawy H, **Salmasi V**, Mounir-Soliman L, Ali Sakr Esa W, Blanco R. Single Shot Ultrasound-guided Quadratus Lumborum Block with Liposomal Bupivacaine: A Case Report and Description of the Technique. **Journal of Anesthesia and Critical Care**. 2016 Nov 6(1):00214
20. **Salmasi V**, Maheshwari K, Yang D, Mascha EJ, Singh A, Sessler DI, Kurz A. The Relationship Between Intraoperative Hypotension, Defined By Reduction from Baseline or Absolute Thresholds, and Acute Kidney and Myocardial Injury after Non-cardiac Surgery; A Retrospective Cohort Analysis. **Anesthesiology**. 2017 Jan;126(1):47-65 (**This publication is featured in January 2017 Podcast of Anesthesiology**)
21. Gallia GL, Zhang M, Ning Y, Haffner MC, Batista D, Binder ZA, Bishop JA, Hann CL, Hruban RH, Ishii M, Klein AP, Reh DD, Rooper LM, **Salmasi V**, Tamargo RJ, Wang Q, Williamson T, Zhao T, Zou Y, Meeker AK, Agrawal N, Vogelstein B, Kinzler KW, Papadopoulos N, Bettegowda C. Genomic Analysis Identifies Frequent Deletions of Dystrophin in Olfactory Neuroblastoma. **Nature Communications**. 2018 Dec 21;9(1):5410

Presentations

1. Sarzaeem MR, Jebeli M, Mandegar MH, Eghtesadi-Araghi P, **Salmasi V**, Darezereshki A. Delayed Sternal Closure in Patients Undergoing Cardiac Surgery. **The World Society on Cardio-Thoracic Surgeons 18th World Congress, Kos, Greece, May 2008**
2. Binder ZA, **Salmasi V**, Lim M, Weingart J, Brem H, Olivi A, Riggins GJ, Gallia GL. Establishment of GBM suspension cell lines. **Society for Neuro-Oncology 15th Annual Scientific Meeting, Montreal, Canada, Nov. 2010**
3. **Salmasi V**, Pradilla G, Reh DD, Gallia GL. Expanded Endonasal Endoscopic Approach for Resection of a Cavernous Sinus Teratoma. **21st North American Skull Base Society Annual Meeting, Scottsdale, AZ, Feb. 2011**
4. Gallia GL, Reh DD, **Salmasi V**, Koch WM, Blitz AM, Ishii M. Endonasal Endoscopic Resection of Esthesioneuroblastoma: The Johns Hopkins Hospital Experience and Review of the Literature. **21st North American Skull Base Society Annual Meeting, Scottsdale, AZ, Feb. 2011**
5. **Salmasi V**, You J, Saager L, Sessler DI, Kurz A, Turan A. Angiotensin Converting Enzyme Inhibitors Do not Alter Intraoperative Hemodynamic Characteristics; Cleveland Clinic Experience. **2011 American Society of Anesthesiologists Annual Meeting, Chicago, IL, Oct. 2011** (Also presented at Cleveland Clinic Research Day on November 8, 2011 and won the second prize for the Bumpus Award for the best student/fellow abstract and presented at 2012 Midwest Anesthesia Residents' Conference, Chicago, USA, Mar. 2012)
6. Atim A, You j, Saager L, Bashour A, Kurz A, Sessler DI, **Salmasi V**, Turan A. Effect of Dexmedetomidine on Atrial Arrhythmias after Cardiac Surgery. **Cleveland Clinic Research Day, Cleveland, OH, Nov. 2011**
7. **Salmasi V**, Schiavi Adam S, Orr BA, Ball D, Binder ZA, Ishii M, Gallia GL. Intraoperative Hypertensive Crisis due to a Catecholamine-secreting Esthesioneuroblastoma. **22nd North American Skull Base Society Annual Meeting, Las Vegas, NV, Feb. 2012**
8. **Salmasi V**, Xia X, Ishii M, Reh DD, Gallia GL. Expanded Endonasal Endoscopic Approaches to Skull Base Lesions in Pediatric Patients. **22nd North American Skull Base Society Annual Meeting, Las Vegas, NV, Feb. 2012**
9. **Salmasi V**, Tran M, Stapelfeldt WH. Successful Anesthetic Management of a Patient with a Metastatic Catecholamine Secreting Paraganglioma. **2013 Midwest Anesthesia Residents' Conference, Kansas City, MO, Apr. 2013**
10. **Salmasi V**, Arora L, Elsharkawy H. Identification of the Location of Peripheral Nerve Catheters during Peripheral Nerve Blocks using Pumping Technique. **38th Annual Regional Anesthesia and Acute Pain Medicine Meeting, Boston, MA, May 2013**

11. **Salmasi V**, Elsharkawy H. Identification of the Location of Peripheral Nerve Catheters during Peripheral Nerve Blocks using M-Mode. **2014 American Society of Anesthesiologists Annual Meeting, New Orleans, LA, Oct. 2014**
12. **Salmasi V**, Rosenquist R. Rare Presentation of Facet Joint Disease with Upper Abdominal Pain. **2014 American Society of Anesthesiologists Annual Meeting, New Orleans, LA, Oct. 2014**
13. **Salmasi V**, Rosenquist R. Rare Presentation of Thoracic Syringomyelia with Abdominal Pain. **2014 American Society of Anesthesiologists Annual Meeting, New Orleans, LA, Oct. 2014**
14. **Salmasi V**, Jerabek J. Acute Increase of Intracranial Pressure in Post-Anesthesia Care Unit after Elective Frontal Lobectomy. **2014 American Society of Anesthesiologists Annual Meeting, New Orleans, LA, Oct. 2014**
15. **Salmasi V**, Vrooman B. Novel Application of Spinal Cord Stimulation in Persistent Post-Mastectomy Pain. **14th Annual Pain Medicine Meeting of American Society of Regional Anesthesia and Pain Medicine, Miami, FL, Nov. 2015** (Also presented at 2016 Midwest Anesthesia Residents' Conference (MARC), Minneapolis, MN, Apr. 2016 and won the first prize)
16. **Salmasi V**, Maheshwari K, Yang D, Mascha EJ, Singh A, Sessler DI, Kurz A. The Relationship Between Intraoperative Hypotension, Defined By Reduction from Baseline or Absolute Thresholds, and Myocardial Injury after Non-cardiac Surgery; A Retrospective Cohort Analysis. **63rd Annual Meeting of Association of University Anesthesiologists, San Francisco, CA, May 2016** (Also presented at 2016 Midwest Anesthesia Residents' Conference (MARC), Minneapolis, MN, Apr. 2016 and won the first prize; 2016 American Society of Anesthesiologists Annual Meeting, Chicago, IL, Oct. 2016 and won second place winner in Residents' Research Essay Contest)
17. **Salmasi V**, You J, Mascha EJ, Grille, M, Cheng J. Preprocedure Temperature Does not Predict the Outcome of Sympathetic Blocks. **15th Annual Pain Meeting of American Society of Regional Anesthesia and Pain Medicine, San Diego, CA, Nov. 2016.**
18. **Salmasi V**, You J, Mascha EJ, Grille, M, Cheng J. Effectiveness of Sympathetic Block is not Associated with Increased Success Rate of Spinal Cord Stimulation. **American Academy of Pain Medicine 33rd Annual Meeting, Orlando FL, Mar. 2017**
19. **Salmasi V**, Prasad R, Kao, MC, Leong M. Application of Interdisciplinary Team Conference for Spinal Cord Stimulation Candidates. **North American Neuromodulation Society 21st Annual Meeting, Las Vegas NV, Jan. 2018**
20. **Salmasi V**, Prasad R, Kao, MC, Ottestad E, Coleman S, Leong M. Application of Interdisciplinary Team Conference for Spinal Cord Stimulation Candidates: Two-year Update. **North American Neuromodulation Society 22st Annual Meeting, Las Vegas NV, Jan. 2019**

Book Chapters

1. Christian S, Salmasi V, Leong MS. Stimulation methods and device choices: Dorsal root ganglion stimulator, spinal cord stimulator, peripheral nerve stimulator, In Deer (Ed) Deer's Treatment of Pain
2. Coleman S, Salmasi V, Leong MS. Wound closure and surgical healing, In Deer (Ed) Deer's Treatment of Pain

Invited Lectures

1. Natividad Hospital, Invited speaker at grand rounds for Department of Physical Medicine and Rehabilitation, Neurodmodulation: Basics and available technology, September 2017
2. American Society of Anesthesiologists (ASA) annual meeting, Moderator for Medically Challenging Cases session, October 2018
3. California Society of Interventional Pain Physicians (CASIPP) annual meeting, Innovations in radiofrequency, November 2018

4. American Academy of Pain Medicine (AAPM) annual meeting, Presenting cons of cooled radiofrequency ablation, March 2019
5. International Anesthesia Research Society (IARS) annual meeting, Pragmatic Clinical Trials, May 2019

Ongoing Research Projects

1. Comparative effectiveness of duloxetine and desipramine: a pragmatic randomized trial using point-of-care randomization
2. Characterization of patients with chronic pain who report use of opioids and/or cannabinoids
3. Validation of CHOIR body map survey
4. Comparing long-term effectiveness of high frequency and burst spinal cord stimulation

Professional Organization

Apr. 2007-Sep. 2007	Establishing the grounds of Cardiovascular Surgery and Heart Transplant Research Center, Tehran, Iran
Jul. 2007-Feb. 2008	Organizing all clinical studies of Bayer Schering Pharma Company in Iran
Oct. 2009-Mar. 2011	Co-organizing the tumor bank at Neurosurgery Department of Johns Hopkins Medical Institute
Mar. 2011-Jan. 2012	Working as the lead fellow of the international, multi-center clinical trial called POISE-2 (Perioperative Ischemic Evaluation 2) at Cleveland Clinic
May 2013-Jun. 2016	Residency research Coordinator at the Anesthesiology Residency Program of The Cleveland Clinic
Jan. 2017-Aug. 2017	Chief Fellow at the Pain Medicine Fellowship Program of Stanford Department of Anesthesiology, Perioperative and Pain Medicine
Jan. 2017-Present	Established and Organizing Stanford Pain Management Center Neuromodulation Multidisciplinary Team Conference
Jan. 2018-Present	Co-chair of education committee for California Society of Interventional Pain Physicians (CASIPP)
May 2018	Co-organized first fellow neuromodulation cadaver course for California Society of Interventional Pain Physicians (CASIPP)
Nov. 2018	Will be co-organizing pre-meeting cadaver course for Annual Meeting of California Society of Interventional Pain Physicians (CASIPP)

Awards

- Ranked 17th competing with 352,645 applicant in the entrance examination of the universities in 1996 in Iran
- Winner of the second prize of the Bumpus Award for the best student/fellow abstract at Cleveland Clinic Research Day in Nov. 2011, Cleveland, OH
- Winner of the first prize of pharmacology room at Midwest Anesthesia Resident Conference (MARC) in 2012, Chicago, IL
- Recipient of American Pain Society scholarship to attend “*Fundamentals of Pain Management: An Interdisciplinary Primer*” course and American Pain Society 34th Annual Meeting in May 2015, Palm Springs, CA
- Winner of first prize of general anesthesiology room at Midwest Anesthesia Resident Conference (MARC) in 2016, Minneapolis, MN
- Winner of first prize of pain room at Midwest Anesthesia Resident Conference (MARC) in 2016, Minneapolis, MN
- Recipient of Michael J. deUngria M.D. Residency Award at Cleveland Clinic Anesthesiology Residency Program in May 2016, Cleveland Clinic, Cleveland, OH
- Second place winner in Residents’ Research Essay Contest in American Society of Anesthesiology Annual Meeting in October 2016, Chicago, IL
- Awarded Mentored Research Training Grant By American Society of Anesthesiology (ASA) Foundation for Anesthesia Education and Research (FAER) in 2018

Memberships & Other Activities

- Member of Islamic Republic of Iran Medical Council since 2004
- Member of American Society of Anesthesiology since 2011
- Member of American Society of Regional Anesthesia and Pain Medicine since 2012
- Member of American Academy of Pain Medicine since 2016
- Member of North American Neuromodulation Society since 2016
- Member of American Society of Interventional Pain Physicians since 2018
- Performing Peer-Review for Journals of the Field (Neurosurgery, Pain Medicine, PLOS ONE, BMJ)

Non-Medical

1998-2000	English Language Instructor Simin Educational Institute Tehran, Iran
2000-2003	English Language Instructor Kish Language Institute Tehran, Iran
2003-2004	English Language Instructor Bayan-e-Salis Language Institute Tehran, Iran

Hobbies

- Photography
- Cars (test-driving and reading about them)
- Traveling
- Biking
- Improving my skills in making espresso drinks