

## Curriculum Vitae for Thomas Simopoulos, MD, MA

**Date Prepared:** February 14, 2022



*Experienced Double Board Certified Pain Physician, Consultant, Trainer, Educator, Invited Conference Speaker, and Peer-Reviewed Author. Active Academic Clinical Practice. Author of Peer-Reviewed Publications. Member of American Academy of Physician Life Care Planners.*

### Current Medical Legal Consulting:

2022-Present	Physician Life Care Planner	LCPMD, LLC Tampa, FL
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### Education:

1991	BA	Biochemistry	Brandeis University, Waltham, MA
1991	MA	Biochemistry	Brandeis University, Waltham, MA
1995	MD	Medicine	School of Medicine, University of Worcester, MA

### Postdoctoral Training:

1995-1996	Intern	Medical Internship Preliminary Medicine	New England Medical Center, Faulkner Hospital, Boston, MA
1996-1999	Resident	Department of Anesthesiology	Brigham and Women's Hospital, Boston, MA

1999-2000	Fellow, Pain Management	Department of Anesthesiology	Beth Israel Deaconess Medical Center
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**Faculty Academic Appointments:**

1996-1999	Clinical Fellow Anesthesia	Anesthesia	Harvard Medical School, Boston, MA
1999-2000	Clinical Fellow in Pain	Anesthesia	Harvard Medical School, Boston, MA
2000 - 2008	Instructor in Anesthesia	Anesthesia	Harvard Medical School, Boston, MA
2009-2020	Assistant Professor	Anesthesia	Harvard Medical School, Boston, MA
2021-	Associate Professor	Anesthesia	Harvard Medical School,  Boston, MA

**Appointments at Hospitals/Affiliated Institutions:**

2000 -	Associate in Anesthesia	Department of Anesthesia, Critical Care and Pain Medicine	Beth Israel Deaconess Medical Center, Boston, MA
2000- 2003	Member, Regional Anesthesia Team	Department of Anesthesia, Critical Care and Pain Medicine	Beth Israel Deaconess Medical Center, Boston, MA
2001 - 2006	Director Acute Postoperative Pain Service	Department of Anesthesia, Critical Care and Pain Medicine	Beth Israel Deaconess Medical Center, Boston, MA
2002 - 2016	Director of Interventional Pain Service	Department of Anesthesia, Critical Care and Pain Medicine	Beth Israel Deaconess Medical Center, Boston, MA
2016 - 2017	Interim Division Chief	Arnold Warfield Pain Medicine Center	Beth Israel Deaconess Medical

2016 - 2017	Interim Co-Director	Spine Center	Center, Boston, MA Beth Israel Deaconess Medical Center, Boston, MA Beth Israel Deaconess Medical Center, Boston, MA Beth Israel Deaconess Medical Center, Boston, MA
2017-2 021	Division Chief	Arnold Warfield Pain Medicine Center	
2017-2 021	Co-director	Spine Center	

#### Major Administrative Leadership Positions:

##### Local

2001 - 2006	Director of Acute Postoperative	Beth Israel Deaconess Medical Center, Boston, MA
2002 - 2016	Director of Interventional	Beth Israel Deaconess Medical Center, Boston, MA
2013-pres	President Pain Physicians	Massachusetts Society of Interventional Pain Physicians
2016 - 2017	Interim Division Chief	Beth Israel Deaconess Medical Center, Arnold Warfield Pain Medicine Center, Brookline, MA
2016 - 2017	Interim Co-Director	Beth Israel Deaconess Medical Center, Spine Center, Boston, MA
2017 -2021	Division Chief	Beth Israel Deaconess Medical Center, Arnold Warfield Pain Medicine Center, Brookline, MA
2017 -2021	Co-director	Beth Israel Deaconess Medical Center, Spine Center, Boston, MA

#### Committee Service:

##### Local

2003- present	Pain Fellow Selection Committee	Beth Israel Deaconess Medical Center, Boston, MA, Member
2008 - 2012	Peer Review Committee	Beth Israel Deaconess Medical Center, Boston, MA, Member

2012 - 2017	Interventional Procedures Committee	Beth Israel Deaconess Medical Center, Boston, MA, Member
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**National and International**

2006 - 2008	Board Examination Committee	American Board of Interventional Pain Board Examination Member
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**Professional Societies:**

1996-pres	American Society of Anesthesiologists (ASA)	Member
1996-pres	American Society of Regional Anesthesiologist (ASRA)	Member
2002-pres	Massachusetts Society of Anesthesiologists	Member
2004-pres	Massachusetts Society of Interventional Pain Physicians	Member
2003-pres	American Society of Interventional Pain Physicians	Member
2003-pres	North American Neuromodulation Society	Member
2006-pres	Spine Intervention Society (SIS)	Member
2006-pres	MA Society Interventional Pain Physicians	Past President, and Current CEO
2022-pres	American Academy of Physician Life Care Planners	Member

**Editorial Activities:**

**Ad hoc Reviewer**

2001-2002, Regional Anesthesia & Pain Medicine  
 2009 – present, Neuromodulation  
 2017 – present, Pain Practice  
 2107 – present, Pain Medicine

**Other Editorial Roles**

2017-pres	Section Editor	Pain Physician
2004-16	Editorial Advisory Board	Pain Physician
2013-pres	Editorial Board	Journal of Substance Abuse & Alcoholism
2021- present	Associate Editor Neuromodulation	Interventional Pain Medicine

**Honors and Prizes:**

1990	Nathan and Bertha Richter Basic Science	Brandeis University Waltham, MA
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	and Ford Fellow Research Award	
1991	Phi Beta Kappa member of Mu of Massachusetts	Brandeis University Waltham, MA
1991	Summa Cum Laude BA/MA Biochemistry	Brandeis University Waltham, MA
1991	Melvin M. Snider Prize in Chemistry	Brandeis University Waltham, MA
1991	Student Award for the Outstanding Senior Majoring in Chemistry	New England Institute of Chemists, Boston, MA
1995	Medical Student Research Award in Anesthesiology	Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
2003-04, 2010-11	“Teacher of the Year in Pain Management”	Beth Israel Deaconess Medical Center, Harvard Medical School
2017-21	Top Doctor in Pain Medicine	Boston Magazine/ Castle Connolly Ltd
2018	Academic Achievement Award	American Society of Interventional Pain Physicians

### **Report of Funded and Unfunded Projects**

#### **Funding Information:**

##### **Past**

2002-2004	Advanced Neuromodulation Systems-Evaluation of a New Pulse Generator, PI
2004-2007	Advanced Bionics-Evaluation of Spinal cord stimulation in Axial Low Back Pain, PI
2004-2007	Arthrocare-Plasma Disc Decompression Compared to Epidural Steroid Injection for Disc Herniation, PI

- 2007 Advanced Neuromodulation Systems -Spinal Cord Stimulation for the Treatment of Refractory Angina, Co-PI
- 2014 Saint Jude Medical- Spinal Cord Stimulation vs. Spinal cord and Peripheral Field Stimulation for Low Back Pain, PI
- 2015 Boston Scientific – Relief Study: Long-term Evaluation of Spinal Cord Stimulation for the Management of Low Back Pain, PI

#### **Current**

- 2019 Sollis: Therapeutics: A Prospective, multicenter, randomized, double-Blinded, sham-Controlled study to evaluate the efficacy and safety of clonidine micro-pellets for the treatment of pain associated with lumbosacral radiculopathy in adults: RePRIEVE-CM Co PI

#### **Unfunded Current Projects**

- 2017-22 Complications and outcomes of Spinal Cord Stimulators Creation of a database for Quality and Safety, PI
- 2017 10 kHz Spinal Cord Stimulation (SCS) for the Treatment of Complex Regional Pain Syndrome: A Case Series of Patients with or without Previous SCS Implantation, PI

#### **Report of Local Teaching and Training**

##### **Teaching of Students in Courses:**

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|----------------|---|--|
| 2001 &<br>2002 | Chronic Facial Pain Annual Orofacial Pain Course 3rd year Dental Students | Harvard Dental School, Boston MA<br><br>1 hour per year  |
| 2005 &<br>2006 | Annual acute pain management 3rd year medical students                    | Harvard Medical School, Boston MA<br><br>1 hour per year |

##### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

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| 2001-pres | Morning Didactic Lecture Chronic Pain Topics Fellows and Residents   | Beth Israel Deaconess Medical Center, Boston, MA<br>1-hour bimonthly |
| 2001-2005 | Acute Postoperative Pain 1st year surgery residents                  | Beth Israel Deaconess Medical Center, Boston, MA<br>1-hour monthly   |
| 2001-2005 | Various Pain Management Strategies 1st-3rd year Anesthesia residents | Beth Israel Deaconess Medical Center, Boston, MA<br>1-hour monthly   |

##### **Laboratory and Other Research Supervisory and Training Responsibilities:**

2001-pres	Supervise and train 6-8 Fellows per academic year in Pain	Beth Israel Deaconess Medical Center/ Arnold Warfield Pain Medicine Center, Brookline, MA 10 hours per week
2015-pres	Supervision of pain research fellow	Beth Israel Deaconess Medical Center/ Arnold Warfield Pain Medicine Center, Brookline, MA 1 hour per week

**Formal Teaching of Peers (e.g., CME and other continuing education courses):**

2004-2006	Pain Management for the Non-Pain Specialist, Implantable therapies for pain; "New modalities for low back pain, guided tour of pain treatment procedures, Overview of low back pain".	Harvard Medical School Boston, MA
2003	Invited Speaker and moderator: Feasibility and Safety of Chronic Pain Blocks Meeting	Society of Ambulatory Anesthesiologists Annual Meeting, Boston, MA
2001-2019	Principles and Practice of Pain Medicine, Harvard Medical School New therapies for PHN, Intrathecal Therapies, Trouble-Shooting Implantable Technologies, Discogenic Low Back Pain, Pathophysiology of Low Back Pain Complex Regional Pain Syndromes & Spinal Cord Stimulation.	Harvard Medical School Boston, MA.
2002	Annual course on Anesthesia Update of Anesthesia Massachusetts Society for Anesthesiology-	Massachusetts Anesthesiology Continuing Education New Analgesics, Pain for the non-pain specialist, Interventional pain management
2002, 2013, 2019	Harvard Anesthesiology and Update Annual Course Lower Extremity Nerve Blocks, Recent Advances in Interventional Pain Management, Evidence Based Perioperative Management of the Opioid Tolerant Patient.	Harvard Medical School, Boston, MA
2006 – 2010	Head and Facial Pain Advanced Therapies for Head and Neck Pain	Harvard Medical School, Boston, MA
2015	Essentials of Orthopedic and Musculoskeletal Medicine: A Multidisciplinary Approach for the Primary Care Physician: "Low Back Pain and Neck Pain".	Harvard Medical School, Boston, MA

2017-19	Evaluating and Treating Pain: Course Co-Director and moderator	Harvard Medical School, Boston, MA
2020 TX	Neuroscience Clinical Update Chronic Spine Pain: Strategies to Manage Opioid Medication	DHR Health, Edinburg,

**Local Invited Presentations:**

2002	Lecturer, Complex Regional Pain Syndromes I & II, Beth Israel Deaconess Medical Center, Boston, MA
2002	Lecturer, Psychiatry Clinical Conference, Beth Israel Deaconess Medical Center, Boston, MA
2003	Lecturer, Pharmacotherapy of Pain Symposium on Pain Management for Nurses at BIDMC, Beth Israel Deaconess Medical Center, Boston, MA
2004	Lecturer, Basics on Spinal Cord Stimulation resident conference, Spaulding Rehabilitation Hospital, Boston, MA
2004	Lecturer, Spinal Cord Stimulation, Anesthesia Grand Rounds, Boston Medical Center, Boston, MA
2005	Lecture, Management of Malignant Pain Clinical Conference: Hematology/Oncology, Beth Israel Deaconess Medical Center, Boston, MA
2005	Lecturer, New Modalities for Low Back Pain Nursing Symposium Taking the Mysteries out of pain, Beth Israel Deaconess Medical Center, Boston, MA
2006-2019	Lecturer, Application of radio-frequency technology to the dorsal root ganglion, Massachusetts General Hospital Boston, MA
2007	Lecturer, Application of radiofrequency technology to the dorsal root ganglion Morning conference, Brigham and Women's Hospital, Boston, MA
2008	Lecturer, Spinal Cord Stimulation Anesthesia Grand Rounds, Beth Israel Deaconess Medical Center, Boston, MA
2013	Lecturer, Update on Interventional Pain Management Procedures Anesthesia Grand rounds Beth Israel Deaconess Medical Center, Boston, MA
2014	Lecturer, Complex Regional Pain Syndromes Anesthesia Grand Rounds, Saint Elizabeth's Medical Center, Brighton, MA
2014	Lecturer, Pathophysiology of Low Back Pain and Interventional Pain Management Rheumatology Grand Rounds, Beth Israel Deaconess Medical Center, Boston, MA
2015	Lecturer, Pathophysiology of Low Back Pain and Interventional Pain Management Medical Staff Grand Rounds, Anna Jacques Hospital & Beth Israel Deaconess Medical Center, Boston, MA
2017	Lecturer, Opioids in Pain Management Grand Rounds, Milton Hospital, Milton, MA
2020	Lecturer, COVID 19 –Lessons Learned in Pain Medicine, Anesthesia Grand Rounds, Beth Israel Deaconess Medical Center, Boston, MA
2021	Lecturer, Chronic Spinal Pain and Management of Opioid Therapy, Pain Medicine Division, Massachusetts General Hospital, Boston, MA

**Report of Regional, National and International Invited Teaching and Presentations**

**Regional**



2006 Invited Speaker, Emerging Devices for Pain Management, Eastern Pain Association Annual Meeting

2012 Invited Speaker: Spinal Cord Stimulator Therapy for Pain Management. The International Association of Rehabilitation Professionals of New England & The Institute of Social & Rehabilitation Services at Assumption College. Spring Conference, Assumption College, Worcester, MA

### National

2005 Visiting Professor in Anesthesiology UMDNJ, Cooper Hospital, NJ *Grand Rounds: Advances in Chronic Pain Management*

2005 Visiting Professor for Pain Management/Anesthesiology *Department of Anesthesiology*, Santa Clara Medical Center, CA *Grand Rounds: New Modalities in Chronic Pain Management*

2006 Invited Speaker: Pressure-Controlled Discography, Radiofrequency of the Dorsal Root Ganglion, Epidural Steroids & Vertebroplasty Workshops American Society of Regional Anesthesia & Pain Medicine, Fall Meeting, San Francisco.

2006 Invited Speaker: Advances in Chronic Pain & Implantable Devices for Chronic Pain Clinical Issues in Anesthesiology UMDNJ, Lake Placid, NY

2006 Invited Speaker: Advanced Modalities for Diagnosis & Treatment in Chronic Pain The New Hampshire Society of Interventional Pain Physicians Annual Meeting

2007 Invited Speaker: Failed Back Surgery Syndrome and Spinal Cord Stimulation Midwest Cadaver Implant Workshop, University of Cincinnati.

2007 Visiting Professor for Pain Management/Anesthesiology University of Louisville *Grand Rounds: Introduction to Spinal Cord Stimulation*.

2008 Invited Speaker: Failed Back Surgery Syndrome and Spinal Cord Stimulation Midwest Cadaver Implant Workshop, University of Cincinnati.

2010 Invited Speaker: Spinal Cord Stimulation Trials, workshops on Insertion of spinal cord stimulators discography/intra-discal therapies, cervical epidural steroid injections and epi-cranial stimulation. American Society of Regional Anesthesia & Pain Medicine, Fall Meeting, Phoenix, New Orleans, and Miami.

2015 Invited Chairperson: Emerging Concepts and Controversies in Interventional Pain Management. Annual Meeting: American Society of Interventional Pain Physicians. Orlando, Florida

2017 Lecturer, 10 kilo-Hertz Spinal Cord Stimulation Adoption and Use in My Clinical Practice Annual Pain Meeting, The Pain Society of the Carolinas, Duke Medical School, Durham, NC

2021 Lecturer, Evidence Based Perioperative Management of the Opioid Tolerant Patient. Anesthesia Grand Rounds, Indiana University, Indianapolis, In.

### International

2007 Invited Speaker: Spinal Cord Stimulation for Axial Back Pain. The Neuromodulation Society of UK and Ireland and the British Stereotactic and functional Neurosurgery Group

2008	International Spine Intervention Society Annual Meeting	Invited Speaker: Select Complications in Spinal Cord Stimulation
2013	Northwest Anesthesia Seminars, International Continuing Medical Education for the medical professional: Spinal cord stimulation, Intrathecal Therapies, Radiofrequency, Cryo-ablation, Percutaneous Discectomy, Spinal Injections, Complex Regional Pain Syndromes, Imaging and Discography for Low Back Pain	
2020	Invited Speaker: High Frequency Spinal Cord Stimulation following SCS. International Neuromodulation Society, Neuromodulation Appropriateness Consensus Committee (NACC) Salvage for Failed Spinal Cord Stimulation Therapy.	

### **Report of Clinical Activities and Innovations**

#### **Current Licensure and Certification:**

1995-pres	BLS and ACLS Certification
1999-present	Massachusetts State Medical License No. 159056
2000-present	Boarded by the American Board of Anesthesiology
2001-pres	Boarded by the American Board of Anesthesiology in Pain Medicine

### **Report of Scholarship**

#### **Peer-Reviewed Scholarship in print or other media:**

#### **Research Investigations**

1. **Simopoulos TT**, Jencks WP. *Alkaline phosphatase is an almost perfect enzyme.* Biochemistry. 1994; 33:10375-10380.
2. **Simopoulos TT**, Smith HS, Peeters-Asdourian, Stevens DS. *Use of meperidine in patient-controlled analgesia and the development of a normeperidine toxic reaction.* Arch Surgery. 2002; 137:84-88.
3. Malik A, **Simopoulos TT**, Elkersh M, Aner M, Bajwa Z. *Percutaneous radiofrequency lesioning of sensory branches of the obturator and femoral nerves for the treatment of non-operable hip pain.* Pain Physician. 2003; 6:499-502.
4. **Simopoulos TT**, Malik AB, Sial KA, Elkersh M, Bajwa JH. *Radiofrequency lesioning of the L2 ramus communicans in managing discogenic low back pain.* Pain Physician. 2005; 8:61-65.

5. **Simopoulos TT**, Kramer J, Nagda J, Aner M, Bajwa ZH. *Pulsed versus pulsed and continuous radiofrequency treatment of the dorsal root ganglion and segmental nerves in patients with chronic lumbar radicular pain: A pilot study.* Pain Physician. 2008; 11:137-144.
6. Bajwa ZH, **Simopoulos TT**, Pal J, Kraemer JJ, Chopra P, Nagda JV, et al. *Low and therapeutic doses of antidepressants are associated with similar response in context of multimodal treatment of pain.* Pain Physician. 2009; 12; 893-900.
7. Gerzten PC, Smuck M, Rathmell JP, **Simopoulos TT**, et al. *Plasma disc decompression compared with fluoroscopy-guided transforaminal epidural injections of symptomatic contained lumbar disc herniation: A prospective randomized controlled trial.* J Neurosurg Spine. 2010; 12; 357-371.
8. Nagda JV, Davis CW, Bajwa ZB, **Simopoulos TT**. *Retrospective review of the efficacy and safety of pulsed and continuous radiofrequency lesioning of the dorsal root ganglion/segmental nerve for lumbar radicular pain.* Pain Physician. 2011; 14:371-376.
9. Slavin KV, Vaisman J, Pollock KL, **Simopoulos TT**, Kowlowitz E, et al. *Treatment of chronic intractable pain with a conventional implantable pulse generator: A meta- analysis of 4 clinical studies.* Clin J of Pain. 2013; 29:78-84.
10. Gill J, Aner M, Nagda JV, Keel JC, **Simopoulos TT**. *Contralateral oblique view is superior to the lateral view for interlaminar cervical and cervicothoracic epidural access.* Pain Medicine. 2014;16;1:68-80.
11. Gill JS, Nagda JV, Aner MM, Keel JC, **Simopoulos TT**. *Contralateral oblique view is superior to the lateral view for lumbar epidural access.* Pain Medicine. 2016; 17:839-850.
12. **Simopoulos TT**, Rosa H, Wootton RJ, Eichman DS, Gill JS. *A survey of spinal cord stimulator use by chronic pain patients while driving.* Neuromodulation. 2016; 19:487-491.
13. **Simopoulos TT**, Sharma S, Aner M, Gill JS. *The incidence and management of post-dural puncture headache in patients undergoing percutaneous lead placement for spinal cord stimulation.* Neuromodulation. 2016; 19:738-743.
14. Gill JS, Nagda J, Aner M, **Simopoulos TT**. *Cervical epidural contrast spread patterns in fluoroscopic antero-posterior, lateral, and contralateral oblique view: A three dimensional analysis.* Pain Med. 2017; 18(6):1027-39.
15. **Simopoulos TT**, Leffler D, Campbell D, Lin S, Barnett S, Gill JS. *Prospective assessment of pain and comfort in chronic pain patients undergoing interventional pain management procedures.* Pain Medicine 2018; 19(2):336-47.
16. Bryan Hoelzer, Mark A. Bendel, Timothy R. Deer, Jason Eldrige, David Walega, Zhen Wang, Shrif Costandi, MD; Gerges Azer, Wenchun Qu, Steven Falowski, MD; Stephanie A. Neuman, Susan Moeschler, Catherine Wassef, Christopher Kim, Tariq Niazi, Taher Saifullah, Brian Yee, Chong Kim Christine L. Oryhan, Joshua Rosenow, Daniel T. Warren, Imanuel Lerman,

- Ruben Mora, Salim M. Hayek, Michael Hanes, **Thomas T. Simopoulos**, Sanjiv Sharma, Chris Gilligan, Warren Grace, Timothy Ade, John P. Hunter, Daniel Choi, Deborah Y. Choi. *Spinal cord stimulator implant infection rates and risk factors: A multi-center retrospective study*. Neuromodulation 2017; 20(6):558-562.
17. Markus A Bendel, Travis O'Brien, Bryan C. Hoelzer, Timothy R Deer, Thomas P. Pittelkow, Shif Costandi, David R Walega, Gerges Azer, Salim M Hayek, Zhen Wang, Jason S Eldrige, Wenchun Qu, Joshua M Rosenow, Steven M Falowski, Stephanie A Neuman, Susan M Moescheler, Catherine Wassef, Christopher Kim, Tariqu Nazi, Taher Saifulah, Brian Yee, Chong Kim, Christine L Oryhan, Daniel T. Warren, Imanuel Lerman, Ruben Mora, Michael Hanes, **Thomas T. Simopoulos**, Sanjiv Sharma, Chris Gilligan, Warren Grace, Timothy Ade, Nagy Mekhail, John P Hunter, Daniel Choi, Deborah Y Choi. *Spinal cord stimulator related infections: Findings from a multicenter retrospective analysis of 2737 implants*. Neuromodulation 2017;20(6):553-557.
  18. **Simopoulos TT**, Sharma S, Aner M, Gill JS. *A temporary versus permanent anchored percutaneous lead trial of spinal cord stimulation: a comparison of patient outcomes and adverse events*. Neuromodulation 2018 21(5):508-512.
  19. **Simopoulos TT**, Sharma S, Aner M, Gill JS. *The Long –term Durability of Multi-Lumen Concentric Percutaneous Spinal Cord Stimulator Leads*. Pain Practice 2018 18(7):845-49.
  20. **Simopoulos TT**, Aner M, Sharma S, Ghosh P, Gill JS. *Explantation of Percutaneous Spinal Cord Stimulator Devices: A Retrospective Single Center 15-year Experience*. Pain Med 2019; 20(7):1355-1361.
  21. **Simopoulos TT**, Sharma S, Wootton RJ, Orhurhu V, Aner M, Gill JS. *Discontinuation of Chronic Opiate Therapy After Successful Spinal Cord Stimulation Is Highly Dependent Upon the Daily Opioid Dose*. Pain Pract. 2019 11; 19(8):794-799
  22. Orhurhu V, Olusunmade M, Akinola Y, Urits I, Orhurhu MS, Viswanath O, Hirji S, Kaye AD, **Simopoulos TT**, Gill JS. *Depression Trends in Patients with Chronic Pain: An Analysis of the Nationwide Inpatient Sample*. Pain Physician. 2019 09; 22(5):E487-E494.
  23. Orhurhu MS, Salisu B, Sottosanti E, Abimbola N, Urits I, Jones M, Viswanath O, Kaye AD, **Simopoulos TT**, Orhurhu V. *Chronic Pain Practices: An Evaluation of Positive and Negative Online Patient Reviews*. **Pain Physician** 2019; 22(5):E477-486.
  24. Orhurhu V, Agudile E, Chu R, Urits I, Orhurhu MS, Viswanath O, Ohuabunwa E, **Simopoulos TT**, Hirsch J, Gill J. *Socioeconomic disparities in the utilization of spine augmentation for patients with osteoporotic fractures: an analysis of National Inpatient Sample from 2011 to 2015*. Spine J. 2020 Apr; 20(4):547-555.
  25. Urits I, Cai V, Aner M, **Simopoulos TT**, Orhurhu V, Nagda J, Viswanath O, Kaye AD, Hess PE, Gill J. *Post Dural Puncture Headache, Managed with Epidural Blood Patch, Is Associated with Subsequent Chronic Low Back Pain in Patients: a Pilot Study*. Curr Pain Headache Rep. 2020 Jan 08; 24(1):1.

26. Gill J, **Simopoulos TT**, Orhurhu V, Nagda J, Aner M. *Lumbar Epidural Contrast Spread Patterns for the Interlaminar Approach: Three-Dimensional Analysis Using Antero-Posterior, Lateral, and Contralateral Oblique Views*. Pain Med. 2020 04 01; 21(4):747-756
27. Ghosh PE, Gill JS, **Simopoulos TT**. *The Evolving Role of High-Frequency Spinal Cord Stimulation as Salvage Therapy in Neurostimulation*. Pain Pract. 2020 09; 20(7):706-713.
28. Orhurhu V, Khan F, Salisu Orhurhu M, Agudile E, Urits I, Hasoon J, Owais K, Chu R, Ogunsola D, Viswanath O, Yazdi C, Karri J, Hirji S, Gill J, **Simopoulos TT**. *Obesity Trends Amongst Hospitalized Patients with Spinal Cord Stimulator Implants*. Adv Ther. 2020 11; 37(11):4614-4626.
29. Orhurhu V, Urits I, Olusunmade M, Olayinka A, Salisu Orhurhu M, Uwandu C, Aner M, Ogunsola S, Akpala L, Hirji S, Viswanath O, Karri J, **Simopoulos TT**, Gill J. *Cannabis Use in Hospitalized Patients with Chronic Pain*. Adv Ther. 2020 08; 37(8):3571-3583.
30. Hasson J, Urits I, Burroughs M, Cai V, Orhurhu V, Aner M, Yazdi C, **Simopoulos T**, Viswanath O, Kaye AD, Hess PE, Gill J. *Epidural Blood Patch does not Contribute to the Development of Chronic Low Back Pain in Patients who Undergo Lumbar Punctures: A Pilot Study*. Psychopharmacol Bull 2020 Oct15; 50 (Suppl 1): 17-24.
31. Polshin V, Petro J, Wachtendorf LJ, Hammer M, **Simopoulos TT**, Eikermann M, Santer P. *Effect of peripheral nerve blocks on post-anesthesia care unit length of stay in patients undergoing ambulatory surgery: a retrospective cohort study*. Regional Anesthesia and Pain Medicine 2021 46:233-239.
32. Orhurhu V, Gao C, Agudile E, Monegro W, Urits I, Orhurhu MS, Olatoye D, Viswanath O, Hirji S, Jones M, Ngo A, Aiudi C, **Simopoulos TT**, Gill J. *Socioeconomic Disparities in the Utilization of Spinal Cord Stimulation Therapy in Patients with Chronic Pain*. Pain Pract. 2021; 21(1):72-82.
33. Hasson J, Urits I, Viswanath O, Varrassi G, **Simopoulos TT**, Kohan L, Gutierrez G, Orhurhu V, Aner M, Gill J. *Percutaneous Spinal Cord Stimulation Lead Placement under Deep Sedation and General Anesthesia*. Pain Ther 2021; 10:1719-1730.
34. Berger AA, Urits I, Hasoon J, Gill J, Aner M, Yazdi CA, Viswanath O, Cornett EM, Kaye AD, Imani F, Varrassi G, **Simopoulos TT**. *Improved Pain Control with Combination Spinal Cord Stimulator Therapy Utilizing Sub-perception and Traditional Paresthesia Based Waveforms: A Pilot Study*. Anesth Pain Med 2021; 11(1) e113089.

**Reviews, chapters, monographs and editorials**

1. **Simopoulos TT**, *Preemptive Analgesia*. Progress in Anesthesiology 2001; Volume XV (19):339-351.
2. **Simopoulos TT**, Bajwa ZH, *Opioids for Chronic Pain*. New England Journal of Medicine Watch Neurology 2004;6(4):50-51.
3. Dey, R, **Simopoulos TT**, *Failed Back Surgery Syndrome*. In: Warfield CA, and Bajwa ZH. Principles and Practice of Pain Medicine (Second Edition), McGraw-Hill, 2004.
4. **Simopoulos TT**, *Preemptive Analgesia*. In: Warfield CA, and Bajwa ZH. Principles and Practice of Pain Medicine (Second Edition), McGraw-Hill, 2004.
5. Elkersh M, **Simopoulos TT**, Bajwa ZH, *Fundamentals of Interventional Pain Medicine*. *The Neurologist* 2005;11(5):285-293.
6. Rathmell JP, **Simopoulos TT**, et al. *Low Back Pain*. In Ballantyne JC. The Massachusetts General Hospital Handbook of Pain Medicine (Third Edition), Lippincott Williams & Wilkins 2006.
7. Sial KA, **Simopoulos TT**, et al. *Cervical Facet Syndrome*. In Waldman SD. Pain Management (first, second Edition). Saunders-Elsevier 2007, 2011.
8. **Simopoulos TT**. *Management of Persistent Pain in the Opioid-Treated Patient*. In Smith HS and Passik SD. Pain and Chemical Dependency Oxford University Press 2008.
9. Burgest S, **Simopoulos TT**. *Failed Back Surgery Syndrome*. In Smith HS. Current Therapy in Pain Saunders Elsevier 2009.
10. Sial KA, **Simopoulos TT**, Malik AB. *Suprascapular Nerve Block*. In Manchikanti L. and Singh V. Interventional Techniques in Chronic Non-Spinal Pain ASIPP Publishing 2009.
11. Vaynberg E, **Simopoulos TT**. *Brachial Plexus Blocks*. In Manchikanti L. and Singh V. Interventional Techniques in Chronic Non-Spinal Pain ASIPP Publishing 2009.
12. Nguyen S, **Simopoulos TT**. *Upper Extremity Nerve Blocks*. In Manchikanti L. and Singh V. Interventional Techniques in Chronic Non-Spinal Pain ASIPP Publishing 2009.
13. **Simopoulos TT**. *Prescription Opioid Abuse in the US: The Perfect Storm with No Proven Strategies to Mitigate the Escalating Problem*. Journal of Subs Abuse & Alcohol 2013;1(1):1001-3.
14. Parikh A, **Simopoulos TT**, *Preemptive Analgesia*. In: Bajwa ZH, Wootton RJ, and Warfield CA. Principles and Practice of Pain Medicine (Third Edition), McGraw-Hill, 2017.
15. Gray DP, **Simopoulos TT**, *Facetogenic Pain*. In: Bajwa ZH, Wootton RJ, and Warfield CA,. Principles and Practice of Pain Medicine (Third Edition), McGraw-Hill, 2017.



16. Elliot JA, **Simopoulos TT**, *Neuromodulation for Pain* In: Bajwa ZH, Wootton RJ, and Warfield CA. Principles and Practice of Pain Medicine (Third Edition), McGraw-Hill, 2017.
17. **Simopoulos TT**, *Neck Pain* In: Bajwa ZH, Wootton RJ, and Warfield CA. Principles and Practice of Pain Medicine (Third Edition), McGraw-Hill, 2017.
18. Helm S, **Simopoulos TT**, Stojanovic M, Abdi S, Terany MA. *Effectiveness of Thermal Annular Procedures in Treating Discogenic Low back Pain*. Pain Physician 2017 Sept; 20(6):447-470.
19. Jones MR, Viswanath O, Peck J, Kaye AD, Gill JS, **Simopoulos TT**. *A Brief History of the Opioid Epidemic and Strategies for Pain Medicine*. Pain Ther 2018; 7(1):13-21.
20. Ghosh P, **Simopoulos TT**. *A review of the Senza System: a novel, high frequency 10 kHz (HF 10), paresthesia free spinal cord stimulator*. Pain Manag 2019; Jan 30 doi. 2217/pmt2018-0077.
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#### Thesis:

**Simopoulos TT**. Alkaline phosphatase is rate limited by diffusion. {Biochemistry Master of Arts}. Brandeis University; 1991

**Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:**

1. Gosh P, Gill JS, **Simopoulos TT**. High Frequency Spinal Cord Stimulation at 10 kilo Hertz as Salvage Therapy for Unsuccessful Traditional Spinal Cord Stimulator Trials and Implants. Presented at the North American Neuromodulation Society. Las Vegas, NV, 2019.
2. Jatinder Gill MD, Al-Shammaa Ammar BDS MS, Moris Aner MD, Nagda Jyotsna MD, Viet Cai MD, Yazdi Cyrus MD, Kerry Bradley MS, Thomas Simopoulos MD. **Variability of Efficacious Stimulation Sites with 10kHz Paresthesia-Independent SCS**  
Presented at the North American Neuromodulation Society, Virtual Meeting Orlando, FL, 2021.