



## Eugene Lipov, MD

1 E Oak Hill Dr #100

Westmont, Il 60559

312 618 0829 (m)

[elipovmd@aol.com](mailto:elipovmd@aol.com)

[dreugenelipov.com](http://dreugenelipov.com)

[www.linkedin.com/in/eugenelipov](http://www.linkedin.com/in/eugenelipov)

**Pain Medicine thought-leader. Developer of multiple innovative pain treatments. Developed hybrid stimulator that combined convention dorsal column stimulator and sub-q stimulator. Evaluated needle design that lead to improvement of Sprotte needle. Pioneered the use of Stellate Ganglion Block (SGB) for the treatment of post-traumatic stress disorder (PTSD) and hot flashes. Currently retained as an expert witness for impact of PTSD on severity of sepsis. Developed the Dual Sympathetic Reset (DSR) protocol to treat PTSD. Work has been written about in the *Wall Street Journal*, the *Los Angeles Times*, and the *Chicago Tribune*, and featured on ABC, NBC and WGN. Experienced expert witness and medical device consultant. Active clinical practice.**

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### WORLD FIRST REPORTS

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- Successful treatment of hot flashes utilizing Stellate Ganglion Block. 2005
- Successful treatment of Post Traumatic Stress Disorder (PTSD)utilizing Stellate Ganglion Block. 2008
- Successful use of peripheral subcutaneous field stimulation for the treatment of axial neck pain. 2009

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### EXPERIENCE

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**Stella Trauma Centers, Westmont, Illinois** 2020 – Present  
Co-Founder and Chief Medical Officer  
*Providing SGB for PTSD as well as Ketamine infusions for various medical conditions.*

**Illinois Orthopedic Network, Chicago, Illinois** 2019 – Present  
Pain Physician  
*I perform the entire range of pain procedures, including dorsal column stimulators, radio frequency ablations frequency as well as diagnosing and treating CRPS (previously termed RSD). Diagnosis and treatment of post laminectomy syndrome using RACZ procedures and others.*

**Erase PTSD Now**  
Senior Medical Advisor 2015 – Present  
*Assuring best medical services for the patients we sponsor, providing medical services such as stellate ganglion block (SGB), Special Operations Forces (SOF) Method and other. Medical Policies and procedures. Study design as well as being a primary investigator. Currently studying age reversal in SOF patients with PTSD related accelerated aging, by the use of SOF method with the GRIM AGE epigenetic clock assessment tool.*

Science Advisor 2015 – Present  
*Leading a 501 C-3 organization in assuring best patient care as well as medically oriented development.*

Science Advisor to Non for Profit to Treat PTSD 2013 – Present  
*Treat PTSD using Stellate Ganglion Block (SGB) and now with Dual Sympathetic Reset (DSR). Supervise research to improve care for PTSD patients.*

University of Illinois, Chicago, IL 2018 - Present  
Clinical Assistant Professor, Department of Surgery

Advanced Pain Centers, Chicago, Illinois 1996 – Present  
Medical Director  
*Medical Director responsible for policies and procedure of the clinic as well as direct patient care.*

Illinois Masonic Hospital, Chicago, Illinois 2018 - 2022  
Medical Director of Pain Clinic  
*Direct patient care, as well as optimizing policies and procedures.*

Medtronic, Minneapolis, Minnesota 2013-2015  
Medical Device Consultant  
*Help with development of dorsal column stimulators (DCS) devices.*

B&D, NYC, New York 2006-2008  
Medical Device Consultant  
*Needle design assistance.*

I Grow Chicago, Chicago, Illinois 2014 - 2018  
CMO for 501-C  
*Developed programs to evaluate impact of organization on underserved communities, direct medical assistance with various needs in the same population. Assisted with grant writing for same organization.*

Poplar Creek Surgery Center, Hoffman Estates, Illinois 1994 – 1999  
Chief of Anesthesia  
*In charge of staffing and procedures as well as direct patient care overseeing busy 4 room surgical center.*

Rush University Medical Center, Chicago, Illinois 1990 – 1994  
Assistant Professor of Anesthesiology, Pain Management, Cardiothoracic, OB, and Craniofacial Repair  
*Pain Clinic attending, complex anesthesia provider including pediatrics.*

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### BOARD CERTIFICATIONS

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ABA, Pain Medicine (Current ) 1993, 2014  
ABA, Anesthesiology (No need to recertify due to being grandfathered in) 1991

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### LICENSES

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Illinois, #036071840 since 1986  
Additionally, have active licenses in the following states: California, Florida, Georgia, Massachusetts, New York, North Carolina, Virginia, Washington State.

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## CERTIFICATIONS

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<b>Advanced Cardiac Life Support (ACLS)*</b> current	since 1994
<b>Advanced Trauma Life Support (ATLS)</b>	1994-1996
<b>Basic Life Support (BLS)*</b> current	since 1994

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## EDUCATION

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<b>Rush University Medical Center, Chicago, IL</b> <u>Advanced Training in Anesthesia and Pain</u>	1989 - 1990
<b>University of Illinois, Chicago, IL</b> <u>Anesthesia Residency, West Side VA, Pain Medicine Training</u>	1987 - 1989
<b>University of Illinois, Chicago, IL</b> <u>Surgical Residency, Cook County Hospital, West Side VA</u>	1984 - 1986
<b>Northwestern University, Chicago, Illinois</b> <u>Medical Doctorate</u>	1980 - 1984
<b>Northwestern University, Evanston, IL</b> <u>BA, Biochemistry, Phi Beta Kappa</u>	1976 - 1980

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## MEMBERSHIPS

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<b>American Society of Anesthesiology (ASA)</b>	1990 to present
<b>American Society of Interventional Pain Physicians (ASIPP)</b> <i>Founding Member and First President of the Illinois Chapter</i>	2010-present

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## FACULTY/INSTRUCTOR

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<b>Spine Injection Society (SIS),</b> <u>Instructor and Professional Resource</u>	2010-2018
<b>North American Spine Society (NASS),</b> <u>Instructor and Professional Resource</u>	2016-2018
<b>Rush Medical Center, Chicago, IL</b> <u>Academic Faculty</u>	1990 - 1996
<b>Rush University Medical Center, Chicago, IL</b> <u>Assistant Professor of Anesthesiology</u>	1990 - 1996
<u>University of Illinois, Chicago</u> <u>Assistant Professor of Surgery</u>	2018- current

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## INTERNATIONAL PRESENTATIONS

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1. **Use of SGB to Treat Suicidal Ideation in PTSD**, *American Psychiatric Association (APA)*, Canada, 2015.
2. **Use of SGB to Treat Hot Flashes**, *Pan Asian Lancet Oncology*, Singapore, 2012.
3. **Use of SGB to treat PTSD**, *ISPOR*, Spain, 2011.
4. **Hot Flash Treatment Using SGB**, *Oslo University Hospital*, Norway, 2010.
5. **Hot Flash Treatment Using SGB**, *Oslo University Hospital*, Norway, 2009.
6. **Long-Duration Pulsed Radiofrequency for the Treatment of Upper Extremity Complex Regional Pain Syndrome**, *Euroneuro*, Netherlands, 2008.
7. **Lower Back Treatment**, *DRK Kliniken Hospital*, Germany, 2004.

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## SGB IN TREATING PTSD PRESENTATIONS

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1. **American Society Regional Anesthesia (ASRA)**, e poster live presentation, “Stellate ganglion block has a marked impact on post-acute COVID-19 syndrome: a case series,” *San Francisco, CA*, May 2023.
2. **American Psychiatric Association (APA) (Oral Presentation)**, *San Francisco, CA* 2023
3. **Fort Bragg, SOCOM**, Grand Rounds, *Fayetteville, NC*, 2021.
4. **American Academy of Pain Medicine (AAPM) Oral presentation**, *Washington DC*, 2020.
5. **Walter Reed Medical Center**, Grand Rounds, *Washington, DC*, 2020.
6. **American Psychiatric Association (APA) (Oral Presentation)**, *Toronto, Canada*, 2015.
7. **American Psychiatric Association (APA) (Oral Presentation)**, *New York, NY*, 2014.
8. **Amsus**, *Seattle, Washington*, 2013.
9. **Canadian Society of Anesthesiologists (Poster)**, *Quebec City, Canada*, 2012.
10. **International Anesthesia Research Society (Poster)**, *Boston, MA*, 2012.
11. **American Society of Regional Anesthesia (Poster)**, *San Diego, CA*, 2012.
12. **PGA (Post Graduate Assembly) (Poster)**, *New York, NY*, 2011.
13. **ISPOR, Annual European Congress (Poster)**; *Madrid, Spain*, 2011.
14. **U.S. Congressional Committee on Veterans’ Affairs**, Oral Presentation, *Washington, DC* 2010

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## MEDICAL JOURNAL REVIEWER

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JAMA, Psychiatry  
Journal of Affective Disorders  
Journal of Clinical Anesthesia  
Journal of Traumatic Stress Anesthesiology  
Maturas  
Medical Hypothesis  
Military Medicine  
Neuromodulation Pain Practice  
Postgraduate Medical Journal

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## RESEARCH EXPERIENCE

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- **Reversal of Battle-Related Aging (ROBRA) in a Special Operations Forces Cohort**, Lipov PI in physician-initiated study, NCT05855876, 2023.
- **Effects of Stellate Ganglion Block in Post-Traumatic Stress Disorder**, Co-designer of a study for NYU, NCT0539197, 2022.
- **Efficacy of a New Utilization of Neuro Stimulators for Persistent Neck Pain Post Surgical**, Lead in a physician-initiated study, in a sub q stimulator study for Medtronic Company, 2012.

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## REFERENCES

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2024

- **Lipov, Eugene G.**, Hunter Rolain, and Luke Lammers. "Unanticipated elimination of bulimia symptoms following a cervical sympathetic block for treating Post-Traumatic Stress Disorder (PTSD): A Case Report." (2024).

2023

- **Lipov, Eugene**, et al. "Efficacy of combined subanesthetic ketamine infusion and cervical sympathetic blockade as a symptomatic treatment of PTSD/TBI in a special forces patient with a 1-year follow-up: A case report." *Heliyon* 9.4 (2023).
- **Lipov, Eugene**, and John A. Faber. "Efficacy of cervical sympathetic blockade in the treatment of primary and secondary PTSD symptoms: a case series." *Heliyon* 9.6 (2023).
- **Lipov, Eugene**. "Efficacy of Right-Sided Cervical Sympathetic Block in Treating Post-Traumatic Stress Disorder in Australian Cohorts: A Retrospective Analysis." (2023).
- **Lipov, Eugene**. "Survey Reveals That Renaming Post-Traumatic Stress 'Disorder' to 'Injury' Would Reduce Stigma." *Cureus* 15.5 (2023).

2022

- **Lipov, Eugene**, et al. "Utility of cervical sympathetic block in treating post-traumatic stress disorder in multiple cohorts: a retrospective analysis." *Pain physician* 25.1 (2022): 77.

2021

- **Lipov, Eugene**, and Kenneth Candido. "The successful use of left-sided stellate ganglion block in patients that fail to respond to right-sided stellate ganglion block for the treatment of post-traumatic stress disorder symptoms: a retrospective analysis of 205 patients." *Military medicine* 186.11-12 (2021): 319-320.

2020

- **Lipov, Eugene**, Vicko Gluncic, Ivan K. Lukić, and Kenneth Candido. "How does stellate ganglion block alleviate immunologically-linked disorders?" *Medical hypotheses* 144 (2020): 110000.

2018

- **Lipov, Eugene**, Andrea Tukan, and Kenneth Candido. "It is time to look for new treatments for posttraumatic stress disorder: Can sympathetic system modulation be an answer?" *Biological psychiatry* 84.2 (2018): e17-e18.

## 2017

- **Lipov, Eugene.** Stellate Ganglion Block for Posttraumatic Stress Disorder: A Call for the Complete Story, and Continued Research . ASRA Newsletter
- **Lipov Eugene,** Tukan A, Candido K. Letter to the editor "It is time look for new treatments for Post Traumatic Stress Disorder (PTSD): Can sympathetic system modulation be an answer?" Biological Psychiatry. 2017 Oct 12.
- **Lipov Eugene,** Candido K. "BDNF Val66Met polymorphism and memory performance in older adults: the Met carrier effect is more complex than previously thought." Rev Bras Psiquiatr. 2017 Jul-Sep;39(3):276.
- **Lipov, Eugene,** Kenneth Candido, and Elspeth C. Ritchie. "Possible Reversal of PTSD-Related DNA Methylation by Sympathetic Blockade." Journal of Molecular Neuroscience (2017): 1-6.
- **Lipov, Eugene,** and Ken Candido. "Efficacy and safety of stellate ganglion block in chronic ulcerative colitis." World journal of gastroenterology 23.17 (2017): 3193.

## 2016

- **Lipov, Eugene.** "Role of the Sympathetic Nervous System in Post-Traumatic Stress Disorder-Related Male Sexual Dysfunction." Intimacy Post-Injury: Combat Trauma and Sexual Health (2016):17.

## 2015

- **Lipov, Eugene,** and Elspeth Cameron Ritchie. "A Review of the Use of Stellate Ganglion Block in the Treatment of PTSD." Current psychiatry reports 17.8 (2015): 1-5.
- **Lipov, Eugene.** "The use of stellate ganglion block in the treatment of panic/anxiety symptoms (including suicidal ideation), with combat-related post-traumatic stress disorder." Posttraumatic stress disorder and related diseases in combat veterans. Springer International Publishing, 2015. 179-196.
- **Lipov, Eugene.** "With war-related post traumatic stress disorder being resistant to pharmaceuticals is it time to give stellate ganglion block (SGB) a shot." J Trauma Treat S 4 (2015): 2167-1222.

## 2014

- Mulvaney, Sean W., James H. Lynch, Matthew J. Hickey, Tabassum Rahman- Rawlins, Matthew Schroeder, Shawn Kane, and **Eugene Lipov.** "Stellate Ganglion Block Used to Treat Symptoms Associated With Combat-Related Post-Traumatic Stress Disorder: A Case Series of 166 Patients." Military medicine 179, no. 10 (2014): 1133-1140.

## 2013

- **Lipov, Eugene,** et al. "Stellate ganglion block improves refractory post-traumatic stress disorder and associated memory dysfunction: a case report and systematic literature review." Military medicine 178.2 (2013): e260-e264.
- **Lipov, Eugene.** "Post traumatic stress disorder (PTSD) as an over activation of sympathetic nervous system: an alternative view." J Trauma Treat 3.181 (2013): 2167-1222.
- **Lipov, Eugene,** and Konstantin V. Slavin. "More evidence supporting unified theory of stellate ganglion block." Medical hypotheses 81.1 (2013): 146.
- Hickey, Anita H., Maryam Navaie, Eric T. Stedje-Larsen, **Eugene G. Lipov,** and Robert N. McLay. "Stellate ganglion block for the treatment of posttraumatic stress disorder." Psychiatric

Annals 43, no. 2 (2013): 87-92.

- **Lipov, Eugene,** et al. "Use of Intra-Articular and Intrabursal Pulsed Radiofrequency for the Treatment of Persistent Arthrogenic Shoulder Pain." *Pain Medicine* 14.4 (2013): 554-556.

## 2012

- **Lipov, Eugene,** and Briana Kelzenberg. "Sympathetic system modulation to treat post-traumatic stress disorder (PTSD): A review of clinical evidence and neurobiology." *Journal of affective disorders* 142.1 (2012): 1-5.
- **Lipov Eugene** et al, "A novel application of stellate ganglion block: preliminary observations for the treatment of post-traumatic stress disorder." *Military medicine* 177.2 (2012): 125.
- **Lipov, Eugene,** et al. "Modulation of NGF by cortisol and the Stellate Ganglion Block—Is this the missing link between memory consolidation and PTSD?" *Medical hypotheses* 79.6 (2012): 750-753.

## 2011

- **Lipov, Eugene.** "Hybrid neurostimulator?: simultaneous use of spinal cord and peripheral nerve field stimulation to treat low back and leg pain." *Prog Neurol Surg.* 2011;24:147–55.
- **Lipov, Eugene,** and Briana Marie Kelzenberg. "Stellate ganglion block (SGB) to treat perimenopausal hot flashes: clinical evidence and neurobiology." *Maturitas* 69.2 (2011): 95-96.
- **Lipov, Eugene G.** "Hybrid neurostimulator?: simultaneous use of spinal cord and peripheral nerve field stimulation to treat low back and leg pain." *Peripheral Nerve Stimulation.* Vol. 24. Karger Publishers, 2011. 147-155.

## 2010

- **Lipov, Eugene.** "Successful Use of Stellate Ganglion Block and Pulsed Radiofrequency in the Treatment of Posttraumatic Stress Disorder: A Case Report." Hindawi Publishing Corporation *Pain Research and Treatment* February 2010; Volume 2010.
- **Lipov, Eugene.** "In search of an effective treatment for combat-related post-traumatic stress disorder (PTSD): can the stellate ganglion block be the answer?" *Pain Pract.* 2010;10:265-266.
- **Lipov, Eugene.** "Cervical Sympathetic Ganglion Block: New Hope for PTSD Relief." In Egan SJ. *Post-Traumatic Stress Disorder (PTSD): Causes, Symptoms and Treatment.* Nova Publishers. 2010;159-175. (Chapter #6)

## 2009

- **Lipov, Eugene,** Joshi JR, Sanders S, Slavin KV. "A unifying theory linking the prolonged efficacy of the stellate ganglion block for the treatment of chronic regional pain syndrome (CRPS), hot flashes, and posttraumatic stress disorder (PTSD)." *Med Hypotheses.* 2009;72:657-661.
- **Lipov, Eugene,** Joshi JR, Sanders S. "A new mechanism of action for tamoxifen." *Lancet Oncol.* 2009;10:542.
- **Lipov, Eugene,** et al. "Use of peripheral subcutaneous field stimulation for the treatment of axial neck pain: a case report." *Neuromodulation: Technology at the Neural Interface* 12.4 (2009): 292-295.

## 2008

- **Lipov, Eugene,** Joshi JR, Lipov S, Sanders SE, Siroko MK. "Cervical sympathetic blockade in a patient with post-traumatic stress disorder: a case report." *Ann Clin Psychiatry.* 2008;20:227-228.
- **Lipov, Eugene,** Joshi JR, Xie H, Slavin KV. "Updated findings on the effects of stellate ganglion block on hot flashes and night awakenings." [letter]. *Lancet Oncol* 2008;9(9):819-820.

- **Lipov, Eugene**, Joshi JR, Sanders S et al. "Effects of stellate-ganglion block on hot flushes and night awakenings in survivors of breast cancer: a pilot study." *Lancet Oncol.* 2008;9:523-532. **Lipov, E. G.**, and J. R. Joshi. "Long-duration pulsed radiofrequency for the treatment of upper extremity complex regional pain syndrome." *Eur J Anaesthesiol* 25 (2008).

2007

- **Lipov, Eugene, Lipov S**, Joshi JR, Santucci VD, Slavin KV, Beck Vigue SG. Stellate ganglion block may relieve hot flashes by interrupting the sympathetic nervous system. *Med Hypotheses.* 2007;69:758-763.

2005

- **Lipov, Eugene, Lipov S**, Stark JT. Stellate ganglion blockade provides relief from men- opausal hot flashes: a case report series. *J Womens Health (Larchmt).* 2005;14:737-741.

2002

- **Lipov, Eugene**, Intrathecal Drug Therapy in Chronic Low Back Pain. In: *Low Back Pain: Diagnosis and Treatment.* ASIPP Publishing, American Society of Interventional Pain Physicians. Paducha, Kentucky; 2002: 93-101.

1995

- **Lipov, Eugene**, McCarthy RJ, Ivankovich AD. Walk, don't run: alternative methods of changing needle direction [Response]. *Anesth Analg.* 1995;80:1067.

1994

- **Lipov, Eugene**, McCarthy RJ, Ivankovich AD. Severe kinking of an epidural needle. *Anesth Analg.* 1994; 78(3):607-608.
- **Lipov, Eugene**, Sosis MB, McCarthy RJ, Ivankovich AD. Does the design of the Sprotte spinal needle reduce the force needed to deform the tip? *J Clin Anesth.* 1994;6(5):411-413.

1993

- **Lipov, Eugene.** Safe nasogastric tube placement in a patient with a basal skull fracture. *Anesthesiology.* 1993;78(5):989.
- **Lipov, Eugene**, Sosis MB. Anesthesia for Otic Surgery. In Sosis M. *Anesthesia for Otolaryngologic and Head and Neck Surgery.* *Anesthesiol Clin.* 1993;11(3): 547-558.
- **Lipov, Eugene**, Sosis MB, Ivankovich AD. A Comparison of Epidermal Coring with 22-G Spinal Needles. *Reg Anesth Pain Med.* 1993;18(2S):91.

1991

- **Lipov, Eugene.** Emergence delirium in the PACU. *Crit Care Nurse Clin North Am.* 1991; 3(1):145-149.