

Curriculum Vitae

Ron L. Alterman, M.D.

July 2011

Academic Appointments

1995-1997	Assistant Clinical Professor of Neurosurgery New York University School of Medicine
1997-1998	Assistant Professor of Neurosurgery University of Pennsylvania School of Medicine
1998-2004	Assistant Professor of Neurosurgery Albert Einstein College of Medicine
2004-2009	Associate Professor of Neurosurgery Mount Sinai School of Medicine
2009-	Professor of Neurosurgery Mount Sinai School of Medicine

Hospital Appointments

1994-1997	Clinical Assistant, Bellevue Hospital Center, New York
1994-1997	Neurosurgical Consultant, Manhattan Veterans Affairs Medical Center, New York
1995-1997	Director of Neurological Surgery, New York Downtown Hospital, NY
1995-1997	Attending Neurosurgeon, New York University Medical Center, New York
1995-1997	Attending Neurosurgeon, Hospital for Joint Diseases/Orthopaedic Institute, New York
1995-1997	Attending Neurosurgeon, Brooklyn Hospital Center, Brooklyn, New York
1995-1997	Attending Neurosurgeon, Lenox Hill Hospital, New York
1997-1998	Attending Neurosurgeon, Hospital of the University of Pennsylvania, Philadelphia
1997-1998	Provisional Active Staff, Pennsylvania Hospital, Philadelphia
2001-2002	Attending Neurosurgeon, Long Island College Hospital, Brooklyn, NY
1998-2004	Attending Neurosurgeon, Beth Israel Medical Center, New York
2000-2008	Attending Neurosurgeon, Walter Reed Army Medical Center, Washington, DC
2004-	Attending Neurosurgeon, Mount Sinai Medical Center, New York
2004-	Attending Neurosurgeon, Elmhurst Hospital Center, Queens, New York
2008-	Attending Neurosurgeon, Beth Israel Medical Center, New York

Education

1979-1982	B.A. University of Pennsylvania (Genetics) Magna cum Laude
1982-1986	M.D. Albert Einstein College of Medicine Alpha Omega Alpha National Medical Honor Society
2001-2002	MBA Columbia University Beta Gamma Sigma Honor Society

Postgraduate Training and Fellowship Appointments

1986-1987	Intern, General Surgery, Barnes Hospital, St. Louis, MO
1987-1989	Research Fellow, Montefiore Medical Center, Bronx, New York
1989-1994	Neurosurgery Resident and Chief Resident, Montefiore Medical Center, Bronx, New York
1994-1995	Fellow in Stereotactic and Functional Neurosurgery, New York University Medical Center, New York, New York

Specialty Certification

American Board of Neurological Surgery, June 1998

Licensure

New York 171869-1

Awards, Honors and Membership in Honorary Societies

1986	Alpha Omega Alpha
1986	M.D. with Distinction for Research in Neuropathology
1989	New York Society for Neurosurgery Resident Research Award
1990	New York Society for Neurosurgery Resident Research Award
1991-1992	Dr. Richard Duhon Fellowship of the American Brain Tumor Association, Chicago, Illinois, \$25,000
1994	Davidoff Society for the Albert Einstein College of Medicine
2001	Young Neurosurgeon Award, Presented at the Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, Adelaide, Australia.
2004	President's Award, Dystonia Medical Research Foundation

Professional Society Membership

Congress of Neurological Surgeons

American Association of Neurological Surgeons

World Society for Stereotactic and Functional Neurosurgery

American Society for Stereotactic and Functional Neurosurgery

2002-2006 Executive Committee

- Liaison to AANS/CNS Washington Committee
- Scientific Co-Chair Biannual Scientific Meeting (2006)
- Biannual Meeting Planning Committee (2010)
 - Course Director: Programming DBS Devices

Administrative Leadership Appointments

- 1995-1997 Co-Director, NYU Center for Movement Disorders, New York, NY
Worked in collaboration with Drs. Patrick Kelly and Aleksander Beric, to build the busiest movement disorder surgery program in the New York Tristate area. Our work focused primarily on ablative pallidotomy and thalamotomy and resulted in a number of significant publications particularly focused on defining the use of microelectrode recording during functional DBS procedures and the avoidance of post-operative confusion by instituting stringent patient selection criteria.
- 1997-1998 Director, Stereotactic and Functional Neurosurgery, Pennsylvania Hospital, Philadelphia, PA
Joined the busiest movement disorder neurology team in the Delaware Valley as a member of the University of Pennsylvania Department of Neurosurgery. Became an early adopter of deep brain stimulation technology, performing 30 thalamic DBS procedures for tremor in just nine months. Departed with Dr. Flamm, Chairman of the Department of Neurosurgery when he accepted the position of Chairman at Beth Israel Medical Center in New York.
- 1998-2004 Director, Stereotactic and Functional Neurosurgery, Beth Israel Medical Center, NY
Worked in collaboration with Drs. Susan Bressman, Michele Tagliati and Jay Shils to build the busiest movement disorders surgery program in the New York Tristate region. Developed clinical research programs around the use of subthalamic DBS for Parkinson's disease and pallidal DBS for dystonia. Solidified our international standing by being awarded the Young Neurosurgeon Award at the Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery in 2001 and by being elected to the Executive Committee of the American Society for Stereotactic and Functional Neurosurgery in 2002.
- 2004- Director, Functional and Restorative Neurosurgery, Mt. Sinai School of Medicine
Responsible for developing both clinical and academic programs in the emerging field of functional neurosurgery. At Mt. Sinai, my work has focused primarily on the application of deep brain stimulation technology for treating movement disorders such as Parkinson's disease and torsion dystonia. In 2008 I have performed more than 150 DBS-related procedures, the most in the New York Tri-

state Region. I have performed more DBS procedures for childhood onset dystonia than any other center in the US. In collaboration with Michele Tagliati, the director of the movement disorders center, I have published seminal articles concerning the use of DBS for torsion dystonia in *Neurology* and *Brain*. We have pioneered the use of low frequency stimulation to prolong the life-span of the implanted devices. I serve on the Scientific Advisory Board of the Dystonia Medical Research Foundation, which presented me with their President's Award in 2004. We are routinely recruited to participate in industry-sponsored research including protocols to examine cortical stimulation to enhance motor recovery after stroke, gene therapy trials for both Parkinson's and Alzheimer's disease, deep brain stimulation for the treatment of refractory depression, and pivotal trials of the Advanced Neuromodulation Systems, Inc. deep brain stimulator device. Under my leadership the Mt. Sinai functional neurosurgery program is a recognized center of excellence as reflected in my regular invitations to speak at international symposia and our routine instruction to visiting surgeons and neurologists who wish to learn more about DBS technology and applications.

- 2008 Member, Psychiatry Chair Search Committee
- 2008-10 Director of Quality Assurance, Mt. Sinai Department of Neurosurgery
Responsible for conducting the department's monthly QA meeting and preparing the department's monthly report to the Mt. Sinai QA Committee. Responsible for replying to inquiries from the Mt. Sinai QA Committee concerning interdepartmental matters that include Neurosurgery.
- 2010- Director, Performance Improvement Committee, Department of Neurosurgery
In charge of monitoring clinical indicators for the department, filing quarterly reports to the Chief Medical Officer, and instituting procedural changes to improve the quality of neurosurgical care at Mount Sinai Hospital. Initial effort will be to institute insertion and daily care checklist for initial placement and on-going management of external ventricular devices.
- 2012 Co-Director, "Neuromodulation"
Post-graduate, CME accredited course for General Practitioners, Neurologists, Psychiatrists and Neurosurgeons, developed in collaboration with Drs. Wayne Goodman and Steven Frucht.

Miscellaneous

- 2006-2010 Scientific Advisory Committee, Dystonia Medical Research Foundation
- 2008 Neuromodulation; Section Editor, Movement Disorders
- 2009 Youman's Neurological Surgery; Section Editor, Stereotactic and Functional Neurosurgery
- 2009 Neurosurgeon, Bachmann-Strauss Foundation Dystonia Center of Excellence, Beth Israel Medical Center, New York, New York
- 2010 Scientific Planning Committee, American Association of Neurological Surgeons Annual Meeting.
- 2010 Member, Clinical Events Committee, Reclaim™ Deep Brain Stimulation Therapy for Treatment Resistant Depression
- 2011 Co-Author, Neural Stimulation for Major Depressive Disorder, Cambridge Press.

Ad Hoc Reviewer: Neurosurgery
 Brain
 Movement Disorders
 Neuromodulation
 Neuroscience Letters
 European Journal of Neurology
 Focused Ultrasound Surgery Foundation
 Bachmann-Strauss Foundation for Dystonia and Parkinson's Research
 Dystonia Medical Research Foundation

Training Record

Name of Trainee	Level	Role in Training	Training Venue	Trainee's Current Status
Jeffrey Arle, MD, PhD	Clinical Fellow	Mentor in Stereotactic and Functional Neurosurgery, 1996-1997	Hospital for Joint Diseases, NYU Medical Center, NY	Director of Functional Neurosurgery, Lahey Clinic, Burlington, MA
Praveen Reddy, MD, PhD	Clinical Fellow	Mentor in Clinical Neurosurgery 2004	Beth Israel Medical Center, New York	Neurosurgeon, Minneapolis, MN
Abilash Haridas, MD	Resident	Mentor in Functional Neurosurgery 2008-2009	Mt. Sinai Medical Center, New York	Neurosurgery Resident, Mt. Sinai School of Medicine
Yan Epelbom	Medical Student	Mentor, Summer Research Project 2008	Mt. Sinai Medical Center, New York	Medical Student, Mt. Sinai School of Medicine
Catherine Cho, MD	Assistant Professor	Mentor, K12 Award	Mt. Sinai Medical Center, New York	Assistant Professor, Mt. Sinai School of Medicine
Yakov Gologorsky, MD	Resident	Mentor, Clinical Research, 2009-2011	Mt. Sinai Medical Center, New York	Resident, Mt. Sinai School of Medicine
Sharona Ben-Haim, MD	Resident	Mentor, Clinical Research, 2009-2011	Mt. Sinai Medical Center, New York	Resident, Mt. Sinai School of Medicine
Fedor Panov, MD	Resident	Mentor, Clinical Research, 2010-2012	Mt. Sinai Medical Center, New York	Resident, Mt. Sinai School of Medicine

Teaching Activities

Teaching Activity	Level	Role	No. of Learners	Time	Years Taught
Resident Instruction	Departmental (NYU)	Attending Physician	1	~15 Hr/week	1994-1997
Resident Instruction	Departmental (U. PENN)	Attending Physician	1	~15 Hr/week	1997-1998
Resident Instruction	Departmental (Beth Israel)	Attending Physician	12	~15 Hr/week	1998-2004
Resident Instruction	Departmental (Mt. Sinai)	Attending Physician	12	~15 Hr/week	2004-
Neurosurgery Journal Club	Departmental (Mt. Sinai)	Attending Physician	12	Once/year	2005-

Grant and Contract Support

Funding Source, Project Title, Project Number	Role	Dates	Direct Costs	Supplemental Information
Sponsor: American Heart Association Title: "Cost-effective screening for cerebral aneurysm with magnetic resonance angiography"	Principal Investigator	1997-2000	\$265,000	
Sponsor: Advanced Neuromodulation Systems, Inc. Title: "A clinical evaluation of bilateral stimulation of the subthalamic nucleus using the ANS totally implantable deep brain stimulation system as an adjunctive treatment for reducing some of the symptoms of advanced levodopa-responsive Parkinson's disease that are not adequately controlled with medication." GCO#05-1244	Co-Investigator	2005-	\$9609.60 per patient enrolled.	Surgical costs guaranteed by sponsor if insurance denies payment.
Sponsor: Advanced Neuromodulation Systems, Inc. Title: "A clinical evaluation of the ANS totally implantable deep brain stimulation system for the suppression of tremor of the upper extremities of patients with essential tremor."	Co-Investigator	2005-2008	\$9609.60 per patient enrolled.	Study Closed by sponsor.
Sponsor: Northstar Neuroscience, Inc. Title: "Safety and effectiveness of cortical stimulation in the treatment of upper extremity hemiparesis." GCO# 05-0933	Co-Investigator	2005-2007	\$70,515	
Sponsor: Ceregene, Inc. Title: "Multi-center, randomized, double-blind sham surgery-controlled study of CERE-120 (Adeno-Associated Virus Serotype 2 [AAV-2]-Neurturin [NTN]) to assess the efficacy and safety of bilateral intraputamin delivery in subjects with idiopathic Parkinson's disease" GCO#07-0466	Co-Investigator	2007	\$193,750 (5 patients @ \$38,750 per)	

<p>Sponsor: Ceregene, Inc. Title: “Multi-center, randomized, double-blind sham surgery-controlled study of CERE-110 (Adeno-Associated Virus Serotype 2 [AAV-2]-Nerve Growth Factor [NGF]) to assess the efficacy and safety of bilateral delivery into the Basal Nucleus of Meynert in subjects with idiopathic Alzheimer’s Disease.”</p>	Co- Investigator	2009	Contract in negotiation	Mt. Sinai has been selected as an investigational site.
<p>Sponsor: Bachmann-Strauss Foundation Title: Deep Brain Stimulation Therapy For Parkinson’s Disease: A Study Of Long-Term Outcomes And Complications. GCO# 05-0589(2)</p>	Co- Investigator	2005-	\$50,000/yr	
<p>Sponsor: Parkinson’s Study Group Title: The MOST Study: Mood and STN DBS GCO#05-0367</p>	Co- investigator	2005	\$47,000/yr	
<p>Sponsor: Ceregene, Inc. Title: “Multi-center, Phase I/II study of CERE-120 (Adeno-Associated Virus Serotype 2 [AAV-2]-Neurturin [NTN]) to assess the efficacy and safety of bilateral intraputamin and substantial nigra delivery in subjects with idiopathic Parkinson’s disease”</p>	Co- Investigator	2009-	\$50,000/yr	
<p>Sponsor: National Institutes of Health Title: “Controlled Trial of Deep Brain Stimulation for Obsessive Compulsive Disorder</p>	Co- Investigator	2009-	\$50,000/yr	

Bibliography

Research Publications, Peer Reviewed

1. Maleci A, **Alterman RL**, Sundstrom D, Kornblith PL, Moskal JR: Effect of phorbol esters on the susceptibility of a glioma cell line to lymphokine activated killer cell activity. *Journal of Neurosurgery* 73:91-97, 1990.
2. Morrison RS, Gross JL, Herblin WF, Reilly TM, LaSala PA, **Alterman RL**, Moskal JR, Kornblith PL, Dexter DL: Basic fibroblast growth factor-like activity and receptors are expressed in a human glioma cell line. *Cancer Research* 50:2524-2529, 1990.
3. **Alterman RL**, Morrison RS, Goodrich JT, Papenhausen P, Moskal JR: A primary encephalocele culture yields a pure population of human astrocytes. *Brain Research* 550:319-323, 1991.
4. **Alterman RL**, de los Reyes RA: The staged treatment of multiple intracranial aneurysms. *International Journal of Angiology* 1(3):234-241, 1993.
5. **Alterman RL**, Stanley ER: Colony stimulating factor-1 expression in human glioma. *Molecular and Chemical Neuropathology* 21:177-188, 1994.
6. **Alterman RL**, Kall BA, Cohen H, Kelly PJ: Stereotactic ventrolateral thalamotomy: is ventriculography necessary? *Neurosurgery* 37:717-722, 1995.
7. Beric A, Sterio D, Dogali M, **Alterman RL**, Kelly P: Electrical stimulation of the globus pallidus preceding stereotactic posteroventral pallidotomy. *Stereotactic and Functional Neurosurgery* 66:161-169, 1996.
8. Kazumata K, Antonini A, Dhawan V, Moeller JR, **Alterman RL**, Kelly P, Sterio D, Fazzini E, Beric A, Eidelberg D: Preoperative indicators of clinical outcome following stereotactic pallidotomy. *Neurology* 49:1083-1090, 1997.
9. **Alterman RL**, Kelly PJ, Sterio D, Fazzini E, Eidelberg D, Perrine K, Beric A: Selection-criteria for unilateral posteroventral pallidotomy. *Acta Neurochirurgica [Suppl]* 68:18-23, 1997.
10. **Alterman RL**, Kall B, Beric A, Sterio D, Kelly P: Pallidal targeting with the COMPASS system. *Stereotactic and Functional Neurosurgery* 69:69-72, 1997.
11. Kall BA, Wharen RE, Davis DH, Goerss SJ, **Alterman RL**, Kelly PJ: A retrospective multicenter analysis comparing imaging and microelectrode derived target coordinates for stereotactic pallidotomy. *Stereotactic and Functional Neurosurgery* 69:72-75, 1997.
12. Kim R, **Alterman R**, Kelly PJ, Fazzini E, Eidelberg D, Beric A, Sterio D: Efficacy of bilateral pallidotomy. *Neurosurgical Focus* 2(3): e8, 1997.
13. Eidelberg D, Moeller JR, Kazumata K, Antonini A, Sterio D, Dhawan V, Spetsieris P, **Alterman RL**, Kelly P, Dogali M, Fazzini E, Beric A: Metabolic correlates of pallidal neuronal activity in Parkinson's disease. *Brain* 120:1315-1324, 1997.

14. **Alterman RL**, Drucker E. Cost-effective screening for cerebral aneurysms. *Neurosurg Clin N Amer* 9(3):497-507, 1998.
15. **Alterman RL**, Kelly PJ. Pallidotomy technique and results: the New York University experience. *Neurosurg Clin N Am* 9(2):337-43, 1998.
16. Arle JE, **Alterman RL**. Surgical options in Parkinson's disease. *Med Clin North Am* 83(2): 483-98, 1999.
17. **Alterman RL**, Sterio D, Beric A, Kelly PJ: Microelectrode recording during posteroventral pallidotomy: impact on target selection and complications. *Neurosurgery* 44:315-323, 1999.
18. **Alterman RL**, Reiter GT, Shils J, Skolnick B, Colcher A, Simuni T, Stern MB, Hurtig H: Targeting for Thalamic Deep Brain Stimulator Implantation Without Computer Guidance: Assessment of Targeting Accuracy. *Stereotactic and Functional Neurosurgery* 72:150-153, 1999.
19. **Alterman RL**, Shils J, Rogers J: Methylmethacrylate insufficiently fixes deep brain stimulator lead position. *Neurosurgery* 48:458, 2001 (Letter)
20. Shils JL, Tagliati M, **Alterman RL**: Intraoperative Microelectrode Recording Equipment: What features are necessary? *Stereotactic and Functional Neurosurgery*. 77 (1-4):101-107, 2001.
21. **Alterman RL**, Shils J, Tagliati M: Immediate and sustained relief of levodopa-induced dyskinesias after dorsal relocation of a deep brain stimulation lead. *Neurosurg Focus* 17(1):39-42, 2004
22. Okun MS, Tagliati M, Pourfar M, Fernandez HH, Rodriguez RL, **Alterman RL**, Foote KD: Management of referred deep brain stimulation failures: A retrospective analysis from two movement disorders centers. *Archives of Neurology*, 62(8):1250-5, 2005.
23. Tagliati M, Pourfar MH. **Alterman RL**: Subthalamic nucleus deep brain stimulation in Parkinson disease patients over 70 years. *Neurology*, 65(1):179-80; 2005.
24. Koss A, **Alterman RL**, Tagliati M, Shils: Calculating total electrical energy delivered by deep brain stimulation systems. *Annals of Neurology*, 58(1):168-169, 2005.
25. **Alterman RL**, Shils JL, Miravite J, Tagliati M: Reducing stimulation frequency can enhance the tolerability and efficacy of deep brain stimulation for torsion dystonia. *Movement Disorders*, 22(3):366-368. 2007.
26. **Alterman RL**, Miravite J, Shils JL, Weisz D, Bressman SB, Tagliati M: 60 Hertz pallidal stimulation for primary torsion dystonia. *Neurology*, 69(7):681-688, 2007.
27. Isaias IU, **Alterman RL**, Tagliati M: Outcome predictors of pallidal stimulation in patients with primary dystonia: the role of disease duration. *Brain*, 131:1895-1902, 2008.
28. Isaias IU, **Alterman RL**, Tagliati M: Deep brain stimulation for primary dystonia: long-term outcomes. *Archives of Neurology*, 66(4):465-70, 2009.

29. De Los Reyes K, Chandrasekhar SS, Tagliati M, **Alterman RL**: Successful Implantation of a Deep Brain Stimulator for Essential Tremor in a patient with a pre-existing cochlear implant: surgical technique. *Neurosurgery* 66(ONS Suppl 2):372, 2010.
30. Sebeo J, Deiner SG, **Alterman RL**, Osborn IP: Anesthesia for Pediatric Deep Brain Stimulation. *Anesthesiology Research and Practice*, Vol. 2010 Article ID 401419.
31. Tagliati M, Martin C, **Alterman RL**: Lack of motor symptom progression in Parkinson's disease patients with long-term bilateral subthalamic deep brain stimulation. *International Journal of Neuroscience* 120:717-723, 2010.
32. Marks WJ, Bartus RT, Siffert J, Davis CS, Lozano A, Boulis N, Vitek J, Stacy M, Turner D, Verhagen L, Bakay R, Watts R, Guthrie B, Jankovic J, Simpson R, Tagliati M, **Alterman R**, Stern M, Baltuch G, Starr PA, Larson PS, Ostrem JL, Nutt J, Kieburz K, Kordower JH, Olanow CW: Gene delivery of AAV2-neurturin for Parkinson's disease: a double-blind, randomized, controlled trial. *Lancet Neurology* 9(12):1164-72, 2010.
33. Bronstein JM, Tagliati M, **Alterman RL**, Lozano AM, Volkmann J, Stefani A, Horak FB, Okun MS, Foote K, Krack P, Pahwa R, Henderson JM, Hariz MI, Bakay RA, Rezai A, Marks WA, Moro E, Vitek JL, Weaver FM, Gross RE, DeLong MR: Deep Brain Stimulation for Parkinson's Disease: An Expert Consensus and Review on Key Issues. *Arch Neurol* 68(2): 165-171, 2011.
34. Haridas A, Tagliati M, Isaias I, Gologorsky Y, Bressman SB, Weisz D, **Alterman RL**: Pallidal Deep Brain Stimulation for Primary Dystonia in Children. *Neurosurgery*, 68:738-743, 2011.
35. Gologorsky Y, Ben-Haim S, Moshier EL, Godbold J, Tagliati M, Weisz D, **Alterman RL**: Transgressing the ventricular wall during subthalamic deep brain stimulation surgery for Parkinson's disease increases the risk of adverse neurological sequelae. *Neurosurgery*, 2011, PMID: 21389886.
36. Ben-Haim S, Gologorsky Y, Monahan A, Weisz D, **Alterman RL**: Fiducial registration with SPGR MRI enhances the accuracy of STN targeting. *Neurosurgery*, 2011 PMID: 21552170.
37. Isaias I, Volkmann J, Kupsch A, Burgunder JM, Ostrem JL, **Alterman RL**, Mehdorn HM, Schonecker T, Krauss JK, Starr P, Reese R, Kuhn AA, Schupach WMM, Tagliati M: Factors predicting protracted improvement after pallidal DBS for primary dystonia: the role of age and disease duration. *J Neurol*, 2011, PMID: 21365458.
38. **Alterman RL**, Tagliati M, Olanow CW: Open-label trials of novel Parkinson's disease therapies: time for reconsideration. *Ann Neurol*, 2011, In Press.
39. Sidtis J, Tagliati M, **Alterman RL**, Sidtis D, Dhawan V, Eidelberg D: Therapeutic high frequency stimulation of the subthalamic nucleus in Parkinson's Disease produces global increases cerebral blood flow. *J Neurosci*, In Press, 2011.
40. Panov F, Tagliati M, Ozelius L, Fuchs T, Gologorsky Y, Cheung T, Avshalumov M, Saunders-Pullman R, Bressman S, Weisz D, **Alterman RL**: Pallidal deep brain stimulation for DYT6 Dystonia. *J Neurol Neurosurg Psych*, In Press.

41. Katz M, Kilbane C, Rosengard J, **Alterman RL**, Tagliati M: Referring Patients for Deep Brain Stimulation: An Improving Practice. *Arch Neurol*, In Press.
42. Okun MS, Gallo BV, Mandybur G, Jagid J, Foote K, Revilla F, **Alterman R**, Jankovic J, Simpson R, Junn F, Verhagen L, Arle J, Ford B, Stewart M, Horn S, Baltuch G, Kopell B, Marshall F, Peichel D, Pahwa R, Lyons K, Tröster AI, Vitek J, Tagliati M: A randomized, controlled trial of constant current subthalamic DBS in Parkinson's disease. *New Engl J Med*, Submitted

Editorials, Reviews, Chapters

1. **Alterman RL**, Kornblith PL: Biology: Basic science with implications for current and future therapy. In Apuzzo MLJ (Ed) Malignant Cerebral Glioma, American Association of Neurological Surgeons, Park Ridge, Illinois, pp. 25-40, 1990.
2. **Alterman RL**: Robotics in Neurosurgery. *Critical Reviews in Neurosurgery*, November 1995.
3. **Alterman RL**, Kelly PJ: Pallidotomy technique and results: the NYU experience. In Bakay RAE (Ed) Surgical Treatment of Movement Disorders, *Neurosurgery Clinics of North America*, 9(2):337-343, W.B. Saunders, Philadelphia, April 1998.
4. **Alterman RL**, Kelly PJ: Magnetic Resonance Image Guidance for Parkinson's Disease Surgery. In Germano I (Ed) Surgery for Movement Disorders, American Association for Neurological Surgeons, Park Ridge, Illinois, pp. 195-205, 1998.
5. **Alterman RL**, Kelly PJ: Contemporary pallidotomy for treatment of other parkinsonian syndromes. In Krauss J, Grossman R (Eds) Movement Disorder Surgery, W.B. Saunders, Philadelphia, pp. 267-272, 1998.
6. **Alterman RL**, Drucker E: Screening for aneurysms and cost-effectiveness. In LeRoux P, Winn HR (Eds) Current Management of Cerebral Aneurysms; Part 1: Evaluation and perioperative care for cerebral aneurysms. *Neurosurgery Clinics of North America*, 9(3):497-507, W.B. Saunders, Philadelphia, April 1999.
7. Arle JW, **Alterman RL**: Surgical Options in Parkinson's Disease. In Stern MB, Hurtig H (Eds) *Medial Clinics of North America*, 83(2):483-498, W.B. Saunders, Philadelphia, April 1999.
8. Tagliati M, **Alterman RL**: Guidelines for patient selection for ablative and deep brain stimulation surgery. In Germano I (Ed) "Advances in Neurosurgical Treatment of Movement Disorders," *Seminars in Neurosurgery*, 12(2):161-167, 2001.
9. Feldman RP, **Alterman RL**, Goodrich JT: Contemporary psychosurgery and a look to the future. *Journal of Neurosurgery* 95:944-956, 2001
10. Shils J, **Alterman RL**: Interventional Neurophysiology during Movement Disorder Surgery. In Deletis V, Shils J (Eds) Interventional Neurophysiology, Academic Press, San Diego, 2002, pp. 405-448.

11. **Alterman RL**: Movement Disorder Surgery with the Leksell System. In Schulder M (Ed) The Handbook of Stereotactic and Functional Neurosurgery. Marcel Dekker, New York, 2003, pp. 353-362.
12. **Alterman RL**, Oishi M: The efficacy and cost-effectiveness of screening for cerebral aneurysms. In Le Roux P, Winn HR (Eds) Management of Cerebral Aneurysms, W.B. Saunders, Philadelphia, 2003, pp. 257-270.
13. Hollander E, **Alterman R**, Dell'Osso B: Approaching treatment-resistant obsessive-compulsive disorder with brain stimulation interventions: the state of the art. *Psych Ann* 36(7): 480-488, 2006.
14. **Alterman, RL**, Snyder BJ: Deep brain stimulation for torsion dystonia. In Sakas DE, Simpson BA (Eds) Operative Neuromodulation Vol 2: Neural Networks Surgery Acta Neurochirurgica Supplement 97(2): 191-199, 2007.
15. **Alterman RL**, Tagliati M: Deep brain stimulation for torsion dystonia in children. *Childs Nervous System* 23(9):1033-1040, 2007.
16. Malhado-Chang N, **Alterman RL**, Tagliati M: Deep brain stimulation. In Factor SA, Weiner WJ (Eds) Parkinson's Disease: Diagnosis and Clinical Management (2nd ed). Demos Medical Publishing, LLC, New York, 2008, pp. 663-688.
17. **Alterman RL**: Outcome measures for functional neurosurgery. Congress of Neurological Surgeons Quarterly, Spring 2008, pp 31-34.*
18. Dumitriu D, Collins K, **Alterman R**, Mathew SJ: Neurostimulatory therapeutics in management of treatment-resistant depression with focus on deep brain stimulation. *Mt. Sinai J Med* 75:263-275, 2008.
19. **Alterman RL**, Tagliati M: Preparation for Movement Disorder Surgery. In Bakay RAE (Ed) Movement Disorder Surgery- the Essentials, Thieme, New York, 2008, pp. 58-69.
20. **Alterman RL**, Shils JL: Pallidal Stimulation for Dystonia. In Starr PA, Barbaro N (Eds) AANS Neurosurgical Operative Atlas, Thieme, New York, 2008, pp. 195-203.*
21. Shils JL, **Alterman RL**, Arle JE: Deep brain stimulation fault testing. In Tarsy D, Vitek JL, Starr PA, Okun MS (Eds) Deep Brain Stimulation in Neurological and Psychiatric Disorders, Humana Press, Totowa, NJ, 2008, pp. 475-494.
22. Brozova H, Barnaure I, **Alterman RL**, Tagliati M: STN-DBS frequency effects on freezing of gait in advanced Parkinson's disease. *Neurology* 72:770-771, 2009.
23. Weisz D, **Alterman RL**: Neuromodulation for Movement Disorders: Introduction. In Rezai A, Krames E, Peckham PH (Eds) Neuromodulation, Academic Press, London, UK, 2009, pp. 527-528.
24. **Alterman RL**, Tagliati M: Deep brain stimulation for dystonia. In Rezai A, Krames E, Peckham PH (Eds) Neuromodulation, Academic Press, London, UK, 2009, pp. 571-578.

25. **Alterman RL**, Dumitriu D, Mathew SJ: Deep brain stimulation for major depressive disorder. *Clinical Neuropsychiatry* 6:259-265, 2009.
26. **Alterman RL**: Deep Brain Stimulation for Dystonia. In Winn HR (Ed) Youman's Textbook of Neurological Surgery. WB Saunders, Philadelphia, 2011, In Press.
27. **Alterman RL**, Tagliati M: Deep brain stimulation for dystonia: patient selection, surgical technique, and device programming. *Open Neurosurgery Journal* 2011, In Press.
28. Gologorsky Y, **Alterman RL**: Deep Cerebral Targets for Neuromodulation. In Arle JE, Shils JL (Eds). Essential Neuromodulation, 2011, In Press.

On-line Publications

1. Tagliati M, **Alterman R**: Surgical treatment of Tremor. e-Medicine Journal - Neurology (www.emedicine.com) 2001.
2. Tagliati M, **Alterman R**: Surgical treatment of Tremor. e-Medicine Journal - Neurology (www.emedicine.com) 2001.

Lectures by Invitation

May 1996	Indications for Posteroventral Pallidotomy Special Course on Surgery for Movement Disorders American Association of Neurological Surgeons Annual Meeting, Minneapolis, MN
June 1996	Indications for Posteroventral Pallidotomy , European Society for Stereotactic and Functional Neurosurgery, Milan, Italy
September 1996	Future Technologies Special Course on Surgery for Movement Disorders, Congress of Neurological Surgeons Annual Meeting, Montreal, Quebec
April 1997	Pallidotomy with Microelectrode Guidance American Association of Neurological Surgeons Annual Meeting, Denver, CO
June 1997	Complication Avoidance during Pallidotomy American Association of Neurological Surgeons Sponsored Course on Movement Disorder Surgery, Orlando, Florida
July 1997	Pallidal Targeting with the COMPASS System World Society of Stereotactic and Functional Neurosurgery, Lyons, France
September 1997	Pallidotomy: The NYU Experience Congress of Neurological Surgeons Annual Meeting, New Orleans, LA Faculty, American Association of Neurological Surgeons Sponsored Course on Movement Disorder Surgery, New Orleans, Louisiana
March 1998	Parkinson's Disease Symposium at Community Medical Center, Tom's River, New Jersey
March 1998	
April 1998	Surgical Management of Movement Disorders Pennsylvania Neurosurgical Society, Philadelphia, Pennsylvania

- April 1998 **Patient Selection for Pallidotomy**
American Association of Neurosurgical Surgeons Annual Meeting, Philadelphia, Pennsylvania
- May 1998 **Pallidotomy: Target Localization and Lesioning**
American Society for Neurophysiological Monitoring Annual Meeting, Philadelphia, Pennsylvania
- May 1998 **Pallidotomy and Thalamic Deep Brain Stimulation in the Pediatric Population**
Symposium on Movement Disorders in Children, Beth Israel Medical Center, New York, New York
- June 1998 **Thalamic Deep Brain Stimulation for Essential Tremor**
Thomas Bond Symposium, Pennsylvania Hospital, Philadelphia, PA
- October 1998 **Posteroventral Pallidotomy: Technique and Results**
Congress of Neurological Surgeons Annual Meeting, Seattle, Washington
- January 1999 **Surgical Management of Movement Disorders**
Neurology Grand Rounds, Robert Wood Johnson Medical Center, New Brunswick, New Jersey
- January 1999 **Surgical Management of Movement Disorders**
Neurology Grand Rounds, Our Lady of Mercy Medical Center, Bronx, NY
- January 1999 **Surgical Management of Movement Disorders**
Neurology Grand Rounds, SUNY Stony Brook Medical Center, Stony Brook, New York
- March 1999 **Surgical Management of Movement Disorders**
New Jersey Neurological Society Monthly Meeting
- April 1999 **Posteroventral Pallidotomy: Technique and Results**
American Association of Neurological Surgeons Annual Meeting, New Orleans, Louisiana
- May 1999 **Surgical Management of Movement Disorders**
Neurology Grand Rounds, Montefiore Medical Center, Bronx, New York
- June 1999 **Surgical Management of Tremor**
Symposium on Multiple Sclerosis, St. Luke's/Roosevelt Hospital Center, New York, New York
- June 1999 **Surgical Options for Parkinson's Disease**
National Parkinson's Foundation Symposium of Parkinson's Disease, NY
- July 1999 **Magnetic Resonance Image-Guided Implantation of Thalamic Deep Brain Stimulators**
Quadrennial Meeting of the American Association for Stereotactic and Functional Neurosurgery, Salt Lake City, Utah
- February 2000 **Contemporary Surgical Management of Movement Disorders**
Neurology Grand Rounds, Long Island College Hospital, Brooklyn, NY
- February 2000 **Contemporary Surgical Management of Movement Disorders**
Neurosurgery Grand Rounds, Montefiore Medical Center, Bronx, NY
- February 2000 **Present and Future Applications of Deep Brain Stimulation**
Surgery Grand Rounds, NYU Downtown Medical Center, New York
- June 2000 **Posteroventral Pallidotomy for Hypoxia-Induced Choreoathetosis**
Sixth International Congress of Parkinson's Disease and Movement Disorders, Madrid, Spain
- June 2000 **Surgical Management of Movement Disorders**
Neurosurgery Grand Rounds, Walter Reed Army Hospital, Washington, DC

- October 2000 **Surgical Management of Movement Disorders**
Neurology Grand Rounds, North Shore University Hospital, New York
- October 2000 **Comparative Accuracy of Fast Spin Echo Inversion Recovery and Coronal T-2 Weighted MRI for Targeting the Subthalamic Nucleus**
European Society for Stereotactic and Functional Neurosurgery Biennial Meeting, London, UK
- November 2000 **Surgical Management of Movement Disorders**
Neurosurgery Grand Rounds, Downstate Medical Center, Brooklyn, NY
- November 2000 **Microelectrode-Guided Movement Disorder Surgery**
Intraoperative Neurophysiological Monitoring in Neurosurgery Symposium, Marriott Marquis Hotel, New York, New York
- January 2001 **What is the True Target for Subthalamic Deep Brain Stimulation?**
Annual Round Table Discussion of Top Medtronic DBS Implanters, Laguna Beach, California
- September 2001 **Microelectrode-Guided Movement Disorder Surgery**
World Society for Stereotactic and Functional Neurosurgery Quadrennial Meeting, Adelaide, Australia
- September 2001 **What is the True Target for Subthalamic Deep Brain Stimulation?**
World Society for Stereotactic and Functional Neurosurgery Quadrennial Meeting, Adelaide, Australia
- May 2002 **Surgical Management of Advanced Parkinson's Disease**
University of Wisconsin Symposium on Parkinson's Disease, Madison, Wisconsin
- May 2002 **Contemporary Surgical Management of Movement Disorders**
Neurology Grand Rounds, Long Island College Hospital, Brooklyn, NY
- September 2002 **Pearls for Operating in the Subthalamus**
Congress of Neurological Surgeons Annual Meeting, Philadelphia, PA
- September 2002 **What is the True Target for Subthalamic Deep Brain Stimulation?**
Congress of Neurological Surgeons Annual Meeting, Philadelphia, PA
- November 2002 **Deep Brain Stimulation: Surgical Technique**
Deep Brain Stimulation Symposium, Beth Israel Medical Center, NY.
- November 2002 **The History of Movement Disorder Surgery**
The Institute for Neurology and Neurosurgery's Third Biannual Conference on Neurophysiology, New York, New York.
- November 2002 **Subthalamic Deep Brain Stimulation for Parkinson's Disease**
The Institute for Neurology and Neurosurgery's Third Biannual Conference on Neurophysiology, New York, New York
- December 2002 **Contemporary Surgical Management of Movement Disorders**
Neurology Grand Rounds, Montefiore Medical Center, Bronx, New York
- December 2002 **Surgical Treatment in Parkinson's Patients**
The Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
- May 2003 **Pallidal Targeting for Ablation or Deep Brain Stimulation**
Movement Disorder Surgery Workshop, Quadrennial Meeting of the American Society for Stereotactic and Functional Neurosurgery, New York, New York.
- June 2003 **Contemporary Surgical Management of Movement Disorders**
Neurosurgery Grand Rounds, Walter Reed Army Medical Center, Washington, DC

- September 2003 **Anatomical Targeting for Movement Disorder Surgery**
Microelectrode Recording for Functional Neurosurgery Workshop, Beth Israel Medical Center, New York, New York.
- October 2003 **Complications of DBS Surgery**
Congress of Neurological Surgeons Annual Meeting, Denver, CO.
- December 2003 **Deep Brain Stimulation for Idiopathic Torsion Dystonia**
Joint Section on Pediatric Neurosurgery Annual Meeting, Salt Lake City, UT.
- December 2003 **Deep Brain Stimulation for Movement Disorders: Technique and Results**
Special Symposium on Deep Brain Stimulation; 2nd Military Medical School, Shanghai, China.
- May 2004 Faculty Member, Movement Disorder Surgery Workshop, American Association of Neurological Surgeons Annual Meeting, Orlando, Florida.
- May 2004 Faculty Member, Movement Disorder Surgery Breakfast Seminar, American Association of Neurological Surgeons Annual Meeting, Orlando, Florida.
- May 2004 **Contemporary Management of Head Trauma**
Neurology Grand Rounds, Beth Israel Medical Center, New York
- November 2004 **The Future of Neural Stimulation**
The Institute for Neurology and Neurosurgery's Fourth Biannual Conference on Neurophysiology, New York, New York.
- March 2005 Update on DBS Surgery for Movement Disorders
Seoul National University Hospital, Seoul, Korea
- April 2006 **Deep Brain Stimulation for Torsion Dystonia**
Practical course on Movement Disorder Surgery, American Association of Neurological Surgeons Annual Meeting, San Francisco, California.
- September 2006 **Deep Brain Stimulation: An Overview**
Neurology Grand Rounds, Montefiore Medical Center, Bronx, New York.
- November 2006 **Low Frequency Pallidal Stimulation for Primary Generalized Dystonia**
The Institute for Neurology and Neurosurgery's Fourth Biannual Conference on Neurophysiology, New York, New York.
- December 2006 **Deep Brain Stimulation for Torsion Dystonia in Children**
Annual Meeting of the Joint Section for Pediatric Neurosurgery, Denver, CO.
- April 2007 **Deep Brain Stimulation for Dystonia**
American Association of Neurological Surgeons Annual Meeting, Washington, DC.
- May 2007 **Deep Brain Stimulation: An Overview**
Neurosurgery Grand Rounds, St. Vincent's Medical Center, New York, New York.
- September 2007 **Deep Brain Stimulation for Dystonia**
Annual Meeting of the European Association of Neurological Surgeons, Glasgow, Scotland.
- December 2007 **Deep Brain Stimulation for Psychiatric Disorders**
Psychiatry Grand Rounds, St. Vincent's Medical Center, New York, NY.
- December 2007 **A Multi-disciplinary Approach to the Treatment of Movement Disorders**
Advanced Techniques and Technology in Brain and Spine Surgery Course, Mount Sinai School of Medicine, New York.

- January 2008 **Deep Brain Stimulation for Torsion Dystonia in Children**
Pediatric Neurosciences Society of New Jersey.
- January 2008 **Deep Brain Stimulation for OCD and Depression**
Neurosurgery for Non-Neurosurgeons, Mt. Sinai School of Medicine, NY
- April 2008 **Deep Brain Stimulation for Torsion Dystonia**
Practical Course on Deep Brain Stimulation, Annual Meeting of the American Association of Neurological Surgeons, Chicago, Illinois
- September 2008 **Deep Brain Stimulation for Torsion Dystonia**
Annual Meeting of the Congress of Neurological Surgeons, Orlando, Florida.
- October 2008 **Deep Brain Stimulation for Torsion Dystonia**
Pediatric Grand Rounds, Mount Sinai School of Medicine, New York.
- October 2008 **Deep Brain Stimulation for Torsion Dystonia**
Movement Disorders Rounds, Montefiore Medical Center, New York.
- March 2009 **Deep Brain Stimulation for Psychiatric Disorders**
Neurology Grand Rounds, Beth Israel Medical Center, New York.
- March 2009 **Deep Brain Stimulation for Torsion Dystonia in Children**
4th Fred J Epstein Memorial Conference on Pediatric Neurology and Neurosurgery, Eilat, Israel.
- April 2009 **Deep Brain Stimulation for Torsion Dystonia**
Practical Course on Deep Brain Stimulation, Annual Meeting of the American Association of Neurological Surgeons, San Diego, California.
- May 2009 **Frame vs No Frame: Controversies in DBS Surgery**
Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, Toronto, Canada.
- September 2009 **Deep Brain Stimulation for Torsion Dystonia**
Quadrennial Meeting of the World Congress of Neurological Surgeons, Boston, Massachusetts.
- October 2009 **Surgery for Movement Disorders**
Annual Meeting of the Congress of Neurological Surgeons, New Orleans, Louisiana
- November 2009 **Observer Bias in Surgical Trials for Parkinson's Disease**
Annual Meeting of the American Academy of Neurological Surgeons, West Palm Beach, Florida.
- March 2010 **Surgery for Movement Disorders in Children and Adolescents**
McCullough Lecturer, Annual Neuroscience Review, National Children's Medical Center, Washington, DC
- April 2010 **Stereotactic and Functional Neurosurgery: State of the Art**
Neurology Grand Rounds, Beth Israel Medical Center, New York, NY
- April 2010 **Stereotactic and Functional Neurosurgery: State of the Art**
Neurosurgery Grand Rounds, Cedars Sinai Medical Center, Los Angeles, CA.
- May 2010 **Deep Brain Stimulation for Torsion Dystonia**
Practical Course on Deep Brain Stimulation, Annual Meeting of the American Association of Neurological Surgeons, Philadelphia, PA.
- May 2010 **Neuromodulation**
Keynote Address for the Friedman Brain Institute Annual Retreat. New York Academy of Medicine, New York, NY

Published Abstracts

1. **Alterman RL**, Sterio D, Beric A, Kelly PJ: Microelectrode recording during posteroventral pallidotomy: impact on target selection and complications. *Stereotactic and Functional Neurosurgery* 67:64, 1997.
2. Arle J, **Alterman RL**, Sterio D, Beric A, Kelly PJ: Neural network predictions of outcome from posteroventral pallidotomy. *Stereotactic and Functional Neurosurgery* 67:64, 1997.
3. Simuni T, Skolnick BE, Shils J, Colcher A, Hurtig HI, Stern MB, **Alterman RL**: Head tremor suppression with unilateral DBS. *Movement Disorders* 13 (Suppl 2):133, 1998.
4. Simuni T, Skolnick BE, Shils J, Colcher A, Hurtig HI, Stern MB, **Alterman RL**: Vocal tremor suppression with unilateral DBS. *Movement Disorders* 13 (Suppl 2):133, 1998.
5. Sterio D, Beric A, **Alterman RL**, Kelly PJ: Pallidotomy treatment for torsion dystonia. *Movement Disorders* 13 (Suppl 2):198, 1998.
6. Shils JL, Tagliati M, Miravite J, Sullivan B, **Alterman RL**: Differential response of PD symptoms to active electrode position in the subthalamic nucleus during deep brain stimulation. *Movement Disorders* 17 (Suppl 5):193, 2002.
7. Shils JL, Miravite J, Tagliati M, **Alterman RL**: Economic impact of the reduction in medication requirements after STN deep brain stimulation in Parkinson's disease.. *Movement Disorders* 17 (Suppl 5):194, 2002.
8. Tagliati M, Huang N, Shils JL, Miravite J, Sullivan B, **Alterman RL**: Immediate relief of levodopa-induced dyskinesias after deep brain stimulation of the subthalamic nucleus in Parkinson's disease. *Movement Disorders* 17 (Suppl 5):199, 2002.
9. Tagliati M, Shils JL, Bressman S, **Alterman RL**: Pallidal DBS in 7 patients with primary and secondary generalized dystonia. *Movement Disorders* 17 (Suppl 5):295, 2002.
10. Okpaku A, Shils JL, Tagliati M, **Alterman RL**: The symptomatic response to subthalamic deep brain stimulation is anatomically discrete. *Neurosurgery* 51:588, 2002.
11. **Alterman RL**, Shils JL, Tagliati M: What is the true therapeutic target of subthalamic deep brain stimulation for patients with Parkinson's disease? *Neurosurgery* 51:548, 2002.
12. **Alterman RL**, Tagliati M, Shils J, Poulad D: Complications of DBS Surgery: The Beth Israel Experience. *Neurosurgery* 53:494, 2003.
13. Latoussakis V, Tagliati M, Shils J, Kim Y, **Alterman RL**: Psychiatric effects of Deep Brain Stimulation in Parkinson's disease: Preliminary findings of a prospective study. Eleventh Congress of the International Psychogeriatric Association. Chicago, IL, August 2003.

14. Shils JL, Tagliati M, Koss A, **Alterman RL**: Effects of STN DBS in post-pallidotomy patients: Clinical and neurophysiologic results. *Movement Disorders* 19 (Suppl 9):S301, 2004.
15. Shils JL, Tagliati M, **Alterman RL**: Non-invasive experimental and clinical DBS lead/extension failure testing. *Movement Disorders* 19 (Suppl 9):S302, 2004.
16. Shils JL, Koss A, Tagliati M, Koss A, **Alterman RL**: DBS electrode contact and stimulation frequency effect on parkinsonian symptoms. *Movement Disorders* 19 (Suppl 9):S302, 2004.
17. Tagliati M, Miravite J, Shils JL, Bressman SB, Saunders-Pullman R, **Alterman RL**: Long-term efficacy of pallidal DBS for treatment of medically refractory Dystonia. *Movement Disorders* 19 (Suppl 9): S321-2, 2004.
18. Tagliati M, Miravite J, Shils JL, Koss A, **Alterman RL**: Improvement of post-ischemic hemi-dystonia with low frequency subthalamic deep brain stimulation. *Movement Disorders* 19 (Suppl 9): S322, 2004.
19. Koss A, Tagliati M, Shils JL, **Alterman RL**: Ipsilateral hyperhidrosis as a side effect of subthalamic deep brain stimulation. *Movement Disorders* 19 (Suppl 9): S325, 2004.
20. Isaias IU, **Alterman RL**, Miravite J, Weisz D, Shils JL, Tagliati M: Clinical outcome predictors of pallidal stimulation in patients with primary dystonia. *Movement Disorders* 20 (Suppl 16): S39, 2007.
21. Martin CE, Chau C, **Alterman R**, Tagliati M: Bilateral STN DBS in PD patients with history of benign visual hallucinations. *Movement Disorders* 20 (Suppl 16): S60, 2007.
22. Martin CE, **Alterman R**, Tagliati M: Long-term lack of motor symptom progression in Parkinson's disease patients with bilateral STN deep brain stimulation. *Movement Disorders* 20 (Suppl 16): S61, 2007.
23. Tagliati M, Isaias IU, Weisz D, Shils JL, **Alterman RL**: Long-term follow-up of pallidal DBS for primary dystonia. *Movement Disorders* 20 (Suppl 16): S64, 2007.
24. Martin CE, Barnaure I, **Alterman RL**, Tagliati M: Long-term gait deterioration after bilateral STN DBS is not due to the natural progression of Parkinson's disease. *Movement Disorders* 23(Suppl 1):S109, 2008.
25. Brozova H, Barnaure I, **Alterman RL**, Tagliati M: The effect of 60Hz STN-DBS on gait and speech in patients with Parkinson's disease. *Movement Disorders* 23(Suppl 1):S109, 2008.
26. Tagliati M, Martin CE, **Alterman RL**: Optimal pallidal stimulation frequency for dystonia may vary with age. *Movement Disorders* 23(Suppl 1):S113, 2008.
27. Isaias IU, Volkmann J, **Alterman RL**, Mehdorn M, Pinsker P, Reese R, Deuschl G, Tagliati M: Long-term outcome predictors of pallidal stimulation in patients with primary dystonia: the role of disease duration and speech involvement. *Movement Disorders* 23(Suppl 1):S113, 2008.

28. Gupta F, Chan N, **Alterman RL**, Walker R, Tagliati M: DBS frequency screening for programming optimization in a patient with chorea-acanthocytosis. *Movement Disorders* 23(Suppl 1):S384, 2008.
29. **Alterman RL**, Tagliati M, Olanow W: Observer bias in biological/surgical trials of novel Parkinson's disease therapies. *Movement Disorders* 24(Suppl 1):S254, 2009.
30. **Alterman RL**, Gologorsky Y, Weisz D, Ben-Haim S, Tagliati M: Violating the ventricular wall increases length of stay following subthalamic DBS surgery for Parkinson's Disease. *Movement Disorders* 24(Suppl 1):S456-457, 2009.
31. Gupta F, Cho C, Sidtis D, Sidtis JJ, **Alterman RL**, Tagliati M: Atypical speech abnormality following initiation of deep brain stimulation of the subthalamic nucleus (STN-DBS) for Parkinson's Disease. *Movement Disorders* 24(Suppl 1):S464-465, 2009.
32. Osborn I, Deiner S, Brailler J, Reinhard P, Weisz D, Chestnut Y, Sullivan B, **Alterman RL**: Anesthesia for deep brain stimulation in adults and children: evolution of technique. *Movement Disorders* 24(Suppl 1):S470, 2009.
33. Isaias I, Volkmann J, **Alterman RL**, Mehdorn MH, Pinsker M, Reese R, Deuschl G, Tagliati M: Long-term follow-up of pallidal deep brain stimulation for secondary dystonias. *Movement Disorders* 24(Suppl 1):S484-485, 2009.
34. Cho C, Gupta F, Weisz D, Gracies JM, **Alterman RL**, Tagliati M: Long-term effects of high-frequency stimulation on tremor in Parkinson's disease: a case study. *Movement Disorders* 24(Suppl 1):S523, 2009.
35. Brozova H, Barnaure I, Ruzicka E, Stochl J, **Alterman R**, Tagliati M: Short and long-term effects of DBS on gait and other symptoms of Parkinson's disease. *Movement Disorders* 25 (Suppl 2):S440, 2010.
36. Rudolph JN, Ahmmad S, **Alterman R**, Tagliati M: Does subthalamic DBS directly impact levodopa-induced dyskinesias? *Movement Disorders* 25(Suppl 2):S454, 2010.
37. Raciti L, Rudolph J, Cheung TC, **Alterman RL**, Tagliati M: Successful pallidal DBS therapy in an elderly patient with DYT-1 dystonia. *Movement Disorders* 25(Suppl 2):S465, 2010.
38. **Alterman RL**, Tagliati M, Olanow CW: Observer bias in bio-surgical trials of novel Parkinson's disease therapies. *Acta Neurochirurgica* 153(3):669, 2011.
39. Sidtis J, **Alterman RL**, Tagliati M, Sidtis D, Dhawan V, Eidelberg D: High-frequency stimulation of the STN in Parkinson's disease increases cerebral blood flow. *Acta Neurochirurgica* 153(3):675, 2011.