

## *Andrew Michael Blumenfeld, M.D.*

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### EDUCATION

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**St. Andrews College, South Africa**

First class pass and distinction in Mathematics, ■ 1975

**University of the Witwatersrand Faculty of Medicine, Johannesburg, South Africa**

**Bachelor of Medicine and Surgery (MD equivalent), ■ 1976-1981**

**Johannesburg Hospital, South Africa, ■ 1981-1982**

**Internship, General Surgery Resident, Internal Medicine Resident**

**No. 1 Military Hospital, South Africa ■ 1983-1984**

Medical Officer (Full Lieutenant), Department of internal medicine

**Johannesburg Hospital, South Africa ■ 1985-1986**

Neurology Resident, Department of Neurology

**University of Massachusetts Medical School ■ 1986-1989**

Neurology Resident, Department of Neurology

**University of Massachusetts Medical School ■ 1989-1990**

Neurophysiology Fellow: EEG and EMG Fellowship

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### LICENSURE

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California Medical License Number – A47863

NPI number – 1164459913

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### CERTIFICATIONS

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American Board of Psychiatry and Neurology ■ January 1991

United Council for Neurologic Subspecialties Certification in Headache Medicine ■ 2008 and 2018

ECFMG Certification, Number 337-486-5 ■ 1981

Registered - South African Medical and Dental Council, Number 24399 ■ 1983

Registered - British Medical Council, Number 3100769 ■ 1985

FMGEMS certification, Number 337-486-5 ■ 1986

FLEX certification, Number 580421014 ■ 1987

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## AWARDS

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Achievement Award in Mathematics Olympiad (nationwide mathematics competition) ■ 1975  
Academic Honors at St. Andrews College, South Africa ■ 1975  
Dystonia Doctor of Excellence Award ■ 2000  
Margaret Treat Excellence in Ethics Award, Kaiser Permanente ■ 2003  
Race Across America: Completed ■ 2003  
Race Across America: First Place, Corporate Challenge Division ■ 2004  
American Headache Society Member's Choice Award for the Best paper published in Headache in 2014: see reference 45 below.

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## ACADEMIC APPOINTMENTS

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### **Neurology Instructor**

University of Massachusetts, Medical School ■ 1988-1989

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## STAFF APPOINTMENT

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**Partner**, Private Group Practice, North County Neurology Associates, The Neurology Center, San Diego CA ■ 2004 - 2016

**Director**, The Headache Center of Southern California ■ 2004 – Present

**Director**, The Los Angeles Headache Center ■ March 2021

**Director**, The San Diego Headache Center ■ March 2021

**Partner**, The Research Center of Southern California, LLC, Oceanside, California ■ 2007-2016

**Co-Director**, The Sleep Center of Southern California ■ 2009 – 2014

**Staff Neurologist**, Kaiser Permanente, San Diego, California ■ 1990 – 2004

**Partner**, Southern California Permanente Medical Group, San Diego, California ■ May 29, 1992-2004

**Chief of Service**, Kaiser Permanente, Neurology, San Diego, California ■ 1999 – 2004

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## HOSPITAL AFFILIATIONS

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**Scripps Memorial Hospital**, Encinitas, California, Privileges ■ 2004 – Present

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## MEMBERSHIPS

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American Academy of Neurology: Fellow

American Society of Headache: Fellow

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## COMMITTEE APPOINTMENTS

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- Member, Bioethics committee, Kaiser Permanente, San Diego
- Chairman, Bioethics committee, Kaiser Permanente, San Diego
- Member, Regional Bioethics committee, Kaiser Permanente, Southern California
- Member, Bioethics committee, Scripps Hospital, Encinitas CA
- Emeritus Chair, American Headache Society Special Section: Peripheral Nerve Block & Other Interventional Procedures for Headache & Facial Pain. Founding Chair, served two terms.

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## OFFICE LOCATIONS

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The Neurology Center at 9850 Genesee Ave, La Jolla, CA 92037

Coastal Medical Group at 12264 El Camino Real #202, San Diego, CA 92130

The San Diego Headache Center at 7625 Mesa College Dr #200a, San Diego, CA 92111

The Los Angeles Headache Center at 2080 Century Park E, Los Angeles, CA 90067

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## PUBLICATIONS AND PAPERS

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(A) **Refereed Articles:**

1. Blumenfeld AM, Seilling W, Isaacson M. Chloroquine-resistant plasmodium falciparum malaria in South Western Africa. S. Afr. Med J. 1984; 66: 207-208.
2. Blumenfeld AM, Seilling W. Acute autonomic neuropathy with Salmonella typhi infection. S. Afr. Med. J. 1987; 71: 532-533.
3. Fisher M., Blumenfeld AM, Smith TW. The importance of carotid artery plaque disruption and hemorrhage. Arch. Neurol. 1987; 44:1086-1089.
4. Chad DA, Smith TW, Blumenfeld AM, Fairchild PG. HIV-associated myopathy: Immunocytochemical Identification of an HIV antigen (gp 41) in muscle. Ann. Neurol. 1990; 28:579-582.
5. Temlett JA., Ming A, Saling M, Fritz VU, Blumenfeld AM, Bilchik T, Becker AL, Fourie PB, Reef HE. Adjunctive therapy with Bromocriptine in Parkinson's Disease. S. Afr. Med. J. 1990; 78:680-685.
6. Blumenfeld AM, Recht L, Chad DA, Griffin T, Jaeckle KA. Co-existence of Lambert-Eaton Myasthenic Syndrome and Subacute cerebellar degeneration in a patient with neuronal antibodies: differential effects of treatment. Neurology 1991; 41:1682-1685.

7. Blumenfeld AM. Impact of Botulinum Toxin Type A treatment on medication costs and usage in difficult to treat chronic headache. Headache Quarterly, Current Treatment and Research, Volume XIII, 2002.
8. Rammohan KW, Rosenberg JH, Lynn DJ, Blumenfeld AM, Pollak CP, Nagaraja HN. Efficacy and safety of Modafinil (Provigil) for the treatment of fatigue in Multiple Sclerosis: a two centre phase 2 study. J Neurol Neurosurg Psychiatry 2002; 72: 0-4.
9. Blumenfeld AM. Center of Excellence for Headache Care: Group Model at Kaiser Permanente. Headache 2003; 43: 431-450.
10. Blumenfeld AM, Evans RW. Expert Opinion-Botulinum Toxin Injection for Headache. Headache 2003,43:682-685.
11. Blumenfeld AM, Binder W, Silberstein S, Blitzer A. Procedures for Administering Botulinum Toxin Type A for Migraine and Tension Headache. Headache 2003, 43:884-891.
12. Blumenfeld AM. Botulinum Toxin Type A as an Effective Prophylactic Treatment in Primary Headache Disorders. Headache 2003, 43:853-860.
13. Silberstein S, Blumenfeld AM, Dodick D. Botulinum Neurotoxin for the Treatment of Migraine and other Primary Headache Disorders. Clinics in Dermatology 2004, 22:167-175.
14. Blumenfeld AM, Binder WJ., Blitzer A, Katz H. The Emerging Role of Botulinum Toxin Type A in Headache Prevention. Operative Techniques in Otolaryngology – Head and Neck Surgery, 2004, 15:90-96.
15. Blumenfeld AM, Welch KMA. Controversies in Headache Botulinum Toxin Type A for the treatment of Headache. Headache 2004, 44:825-830.
16. Maizels M, Blumenfeld AM., Burchette R. A Combination of Riboflavin, Magnesium and Fever Few for Migraine Prophylaxis: A randomized trial. Headache 2004, 44:885-890.
17. Blumenfeld AM. Clinical Approaches to Migraine Prophylaxis. The American Journal of Managed Care, Supplement 2005, 11: S55 – S61.
18. Harpole L H, Samsa G P, Matchar D B, Silberstein S D, Blumenfeld A, Jurgelski A E. Burden of illness and satisfaction with care among patients with headache seen in a primary care setting. Headache, 2005; 45:1048-1055.
19. Elkind AH, O'Carroll P, Blumenfeld A, DeGryse R, Dimitrova R. BoNTA-024-026-036 Study Group. A series of three sequential, randomized, controlled studies of repeated treatments with botulinum toxin type A for migraine prophylaxis. J Pain. 2006;10: 688-96.
20. Blumenfeld AM., Chippendale TJ., Schim JD. Botulinum toxin type A versus divalproex sodium for prophylactic migraine treatment: a randomized, evaluator-masked trial. Headache Care, 2006; 3(4): 119-127.
21. Blumenfeld AM., Schim JD., Chippendale TJ. Botulinum Toxin Type A and Diavalproex Sodium for Prophylactic Treatment of Episodic or Chronic Migraine. Headache, 2008; 48: 210-220.

22. Matchar DB, Harpole L, Samsa GP, Jurgelski A, Lipton RB, Silberstein S, Young W, Kori S, Blumenfeld A. The Headache Management Trial: A Randomized Study of Coordinated Care. Headache, 2008; 48:1294-1310.
23. Blumenfeld A, et al. Patterns of use of Peripheral Nerve Blocks and Trigger Points Injections among Headache Practitioners in the USA: Results of the American Headache Society Interventional Procedure Survey. Headache, 2010; 50: 937-942.
24. Ashkenazi A, Blumenfeld A, et al. Review Article: Peripheral Nerve Blocks and Trigger Point Injections in Headache Management – A Systematic Review and Suggestions for future Research. Headache, 2010; 50: 943- 952.
25. Blumenfeld A, Ashkenazi A. Editorial: Nerve Blocks, Trigger Point Injections and Headache. Headache, 2010; 50: 953-954.
26. Blumenfeld A, Silberstein SD, Dodick DW, Aurora SK, Turkel CC, Binder WJ. Method of Injection of OnabotulinumtoxinA for Chronic Migraine: A Safe, Well-Tolerated Paradigm Based on the PREEMPT Clinical Program. Headache 2010; 50:1406-1418.
27. Cady RK, Schreiber CP, Porter JA, Blumenfeld AM, Farmer KU. A multi-center double-blind pilot comparison of onabotulinumtoxinA and topiramate for the prophylactic treatment of chronic migraine. Headache 2011;51(1):21-32.
28. Blumenfeld A, Schim J, Brower J. Pure Tension-type Headache Versus Tension-type Headache in the Migraineur. Volume 14, Issue 6 Current Pain and Headache Reports.
29. Blumenfeld AM. Injection Procedure Record for OnabotulinumtoxinA (BOTOX®, Allergan, Inc., Irvine, CA, USA) treatment. Headache, 2011;51:189
30. Blumenfeld A, Varon S, Wilcox TK, Buse D, Kawata AK, Manack A, Goadsby PJ, Lipton RB. Disability, HRQoL and resource use among chronic and episodic migraineurs: Results from the International Burden of Migraine Study (IBMS). Cephalalgia. 2011;31(3): 301-315.
31. Payne KA, Varon SF, Kawata AK, Yeomans K, Wilcox TK, Manack A, Buse DC, Lipton RB, Goadsby PJ, Blumenfeld AB. The International Burden of Migraine Study (IBMS): Study design, methodology, and baseline cohort characteristics. Cephalalgia. 2011; 31(10): 1116-1130.
32. Stokes ME, Becker WJ, Lipton RB, Sullivan SD, Wilcox TK, Wells L, Manack A, Proskorovsky I, Gladstone J, Buse DC, Varon S, Goadsby PJ, Blumenfeld AB. Cost of health care among patients with chronic and episodic migraine in Canada and the USA: Results from the International Burden of Migraine Study (IBMS). Headache 2011;51(7):1058-1077.
33. Blumenfeld A, Evans R. OnabotulinumtoxinA for Chronic migraine. Headache 2012;52(1):140-148.
34. Blumenfeld A, Gennings C, Cady R. Pharmacological Synergy: The Next Frontier on Therapeutic Advancement for Migraine. Headache 2012; 52(4):636-647.
35. Bloudek LM, Stokes M, Buse DC, Wilcox TK, Lipton RB, Goadsby PJ, Varon SF, Blumenfeld AM, Katsarava Z, Pascual J, Lanteri-Minet M, Cortelli P, Martelletti P. Cost of healthcare for patients with migraine in five European countries: results from the International Burden of Migraine Study (IBMS). J Headache Pain. 2012 Jul;13(5):361-378.

36. LM Bloudek, M Stokes, DC Buse, TK Wilcox, RB Lipton, PJ Goadsby, SF Varon, AM Blumenfeld, Z Katsarava, J Pascual, M Lanteri-Minet, P Cortelli, P Martelletti. Cost of healthcare for patients with migraine in five European countries: results from the International Burden of migraine Study (IBMS). Headache May 2012; 13(5): 361-78.
37. Blumenfeld AM, Bloudek LM, Becker WJ, Buse DC, Varon SF, Maglante GA, Wilcox TK, Kawata AK, Lipton RB. Patterns of Use and Reasons for Discontinuation of Prophylactic Medications for Episodic Migraine and Chronic Migraine: Results From the Second International Burden of Migraine Study (IBMS-II). Headache 2013 Apr;53(4):644-55.
38. Blumenfeld A, et al. Expert Consensus Recommendations for the Performance of Peripheral Nerve Blocks for Headaches – A Narrative Review. Headache 2013; Mar;53(3):437-46.
39. Sanderson JC, Devine EB, Lipton RB, Bloudek LM, Varon SF, Blumenfeld AM, Goadsby PJ, Buse DC, Sullivan SD. Headache-related health resource utilisation in chronic and episodic migraine across six countries. Journal of Neurology, Neurosurgery, and Psychiatry. 2013;84(12):1309-1317.
40. Silberstein SD, Blumenfeld AM, Cady RK, Turner IM, Lipton RB, Diener H-C, Aurora SK, Sirimanne M, DeGryse RE, Turkel CC, Dodick DW. OnabotulinumtoxinA for treatment of chronic migraine: PREEMPT 24-week pooled subgroup analysis of patients who had acute headache medication overuse at baseline. Journal of Neurology, Neurosurgery, and Psychiatry. 2013;331(1):48-56.
41. Blumenfeld AM, Aurora SK, Laranjo K, Papapetropoulos S. Unmet Clinical Needs in Chronic Migraine: Rationale for Study and Design of COMPEL, an Open-Label, Multicenter Study of the Long-Term Efficacy, Safety, and Tolerability of OnabotulinumtoxinA for Headache Prophylaxis in Adults With Chronic Migraine. BMJ Neurology. 2015;15(100):1-9.
42. Blumenfeld AM, Nikolskaya G. Glossopharyngeal Neuralgia. Current Pain and Headache Reports. 2013 Jul;17(7):343.
43. Ashkenazi A, Blumenfeld A. OnabotulinumtoxinA for the Treatment of Headache. Headache. 2013; Sept;53(S2):54-61.
44. Robbins MS, Kuruvilla D, Blumenfeld A, et al. Trigger Point Injections for Headache Disorders: Expert Consensus Methodology and Narrative Review. Headache The Journal of Head and Face Pain. 09/2014; 54(9). DOI: 10.1111/head.12442
45. Lipton R, Serrano D, Blumenfeld A, Dodick D, Aurora S, Becker W, Diener HC, Wang SJ, Vincent M, Buse D, Sanderson J, Gillard P, Varon S, Reed M. Developing and validating the ID-Chronic Migraine (ID-CM) screening tool. Journal of Pain. 2014;15(4):S24.
46. Blumenfeld AM, Ashkenazi A, Evans R. Expert opinion: Occipital and Trigeminal Nerve Blocks for Migraine. Headache The Journal of Head and Face Pain. 04/2015; DOI: 10.1111/head.12579
47. Lipton RB, Serrano D, Buse DC, Pavlovic JM, Blumenfeld AM, Dodick DW, Aurora SK, Becker WJ, Diener H-C, Wang S-J, Vincent MB, Hindiyeh NA, Starling AJ, Gillard PJ, Varon SF, Reed ML. Development and Validation of the Identify Chronic Migraine (ID-CM) Screening Tool. Cephalalgia. 2015;36(3):203-215.

48. Messali A, Sanderson JC, Blumenfeld AM, Goadsby PJ, Buse DC, Varon SF, Stokes M, Lipton RB. Direct and Indirect Costs of Chronic and Episodic Migraine in the United States: A Web-based Survey. Headache. 2016;56(2):306-322.
49. Blumenfeld A, Silberstein S, Dodick D, Aurora S, Brin M, Binder W. Insights into the Functional Anatomy behind the PREEMPT Injection Paradigm: Guidance on Achieving Optimal Outcomes. Headache. 2017;57(5):766-777.
50. Hareendran A, Mannix S, Skalicky A, Bayliss M, Blumenfeld A, Buse DC, Desai PR, Ortmeier BG, Sapro S. Development and exploration of the content validity of a patient-reported outcome measure to evaluate the impact of migraine- the migraine physical function impact diary (MPFID). Health and Quality of Life Outcomes. 2017; 15:224.
51. Blumenfeld AM, Stark RJ, Freeman MC, Orejudos A, Manack Adams A. Long-term study of the efficacy and safety of onabotulinumtoxinA for the prevention of chronic migraine: COMPEL study. The Journal of Headache and Pain. 2018. DOI: 10.1186/s10194-018-0840-8.
52. Blumenfeld A, Siavoshi S. The Challenges of Cervicogenic Headache. Current Pain and Headache Reports. <https://doi.org/10.1007/s11916-018-0699-z>.
53. Blumenfeld A, Stark R, Freeman M, Orejudos A, Manack Adams A. Long-Term Study of the Efficacy and Safety of OnabotulinumtoxinA for the Prevention of Chronic Migraine: COMPEL Study. The Journal of Headache and Pain. 2018; 19(1):13
54. Winner P, Blumenfeld A, Eross E, Orejudos A, Mirjah D, Manack Adams A, Brin M. Long-Term Safety and Tolerability of OnabotulinumtoxinA Treatment in Patients With Chronic Migraine: Results of the COMPEL Study. Drug Safety. 2018. DOI: 10.1007/s40264-019-00824-3.
55. Blumenfeld AM, Tepper SJ, Robbins LD, Manack Adams A, Buse DC, Orejudos A, Silberstein SD. Effects of OnabotulinumtoxinA Treatment for Chronic Migraine on Common Comorbidities including Depression and Anxiety. Journal of Neurology, Neurosurgery, and Psychiatry. 2018; 90:353-360.
56. Kim B, Chu M, Manack Adams A, Blumenfeld A. Long-Term Safety and Efficacy of OnabotulinumtoxinA for the Prevention of Chronic Migraine In a South Korean Population: COMPEL Study. Neurology Asia. 2019; 24(2):127-137.
57. Young WB, Lopez J, Rothrock JF, Orejudos A, Manack Adams A, Lipton RB, Blumenfeld A. Effects of OnabotulinumtoxinA Treatment in Patients With and Without Allodynia: Results of the COMPEL Study. The Journal of Headache and Pain. DOI: 10.1186/s10194-018-0952-1.
58. Young W, Lopez J, Rothrock J, Orejudos A, Manack Adams A, Lipton R, Blumenfeld A. Effects of OnabotulinumtoxinA Treatment in Patients With and Without Daily Headache at Baseline: Results From the COMPEL Study. The Journal of Headache and Pain. DOI: 10.1186/s10194-018-0953-0.
59. Rothrock J, Manack Adams A, Lipton R, Silberstein SD, Ester J, Xiang Z, Blumenfeld A. FORWARD Study: Evaluating the Comparative Effectiveness of OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults With Chronic Migraine. Headache 26 September 2019 <https://doi.org/10.1111/head.13653>

60. Blumenfeld AM, et al. Pharmacology and Pharmacokinetics of Ubrogapant: A Potent, Selective Calcitonin Gene-Related Peptide Receptor Antagonist for the Acute Treatment of Migraine. Journal of Family Practice. 2020;69(1):S1-S24.
61. Blumenfeld AM, Patel AT, Turner IM, Mullin KB, Manack Adams A, Rothrock JF. Patient-Reported Outcomes From a 1-Year, Real-World, Head-to-Head Comparison of OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults With Chronic Migraine. J Prim Care Community Health (2020) 11:1-11. <https://doi.org/10.1177/2150132720959936>.
62. Burstein R, Blumenfeld AM, Silberstein SD, Adams AM, Brin MF. Mechanism of Action of OnabotulinumtoxinA in Chronic Migraine: A Narrative Review. Headache (2020) 60:1259-1272. <https://doi.org/10.1111/head.13849>.
63. Blumenfeld AM, Stevanovi DM, Ortega M, Cohen JM, Seminerio MJ, Yang R, Jiang B. No Wearing-off Effect Seen in Quarterly or Monthly Dosing of Fremanezumab: Sub-analysis of a Randomized Long-term Study. Headache 2020 Oct 4. 2431-2443.
64. Clemow DB, Johnson KW, Hochstetler HM, Ossipov MH, Hake AM, Blumenfeld AM. Lasmiditan mechanism of action - review of a selective 5-HT<sub>1F</sub> agonist. J Headache Pain. 2020 Jun 10;21(1):71. doi: 10.1186/s10194-020-01132-3.
65. Goadsby PJ, Blumenfeld AM, Lipton RB, Dodick DW, Kalidas K, Adams A, Jakate A, Liu C, Szegedi A, and Trugman J. Time Course of Efficacy of Ubrogapant for the Acute Treatment of Migraine: Clinical Implications. Cephalalgia 2020 DOI: 10.1177/0333102420970523.

(B) **Journal Letters:**

1. Fisher M, Blumenfeld AM, Smith TW. Carotid Plaque Disruption. Arch. Neurol. 1989; 46:605.
2. Fisher M, Lingley JF, Blumenfeld AM, Felice K. Anterior choroidal artery territory infarction and small vessel disease. Stroke 1989; 20:1591-1592.
3. Blumenfeld A. Does single-file Botox injection really work for primary headache? Headache, 2004; 8: 838-9.
4. Blumenfeld A, Bender SD, Glassman B, Malizia D. Bruxism, temporomandibular dysfunction, tension type headache, and migraine: a comment. Headache 2011; Nov-Dec; 51(10):1549-50.
5. Blumenfeld A, et al. Pharmacological Synergy: The Next Frontier on Therapeutic Advancement for Migraine. Headache 2012; 52(10): 1600-1601.
6. Blumenfeld AM. Clinician-Patient Dialogue About Preventive Chronic Migraine Treatment. J Prim Care Community Health 2020;11:1-6.
7. Blumenfeld AM, Silberstein S. Modifications to the PREEMPT Protocol for OnabotulinumtoxinA Injections for Chronic Migraine in Clinical Practice. Headache 2020. Page 2589.

(C) **Chapters and Reviews:**



1. Phillips C, Blumenfeld AM. Status Epilepticus. Intensive Care Medicine, Second Edition, 1991, 1565-1569.
2. Blumenfeld AM. Botulinum Toxin in Primary Headache Disorders. Medlink 2003 - present.

(D) **Guidelines:**

1. Blumenfeld AM, Blalock E, Kazimiroff P, Van Petten C, Ratcliffe J. Headache Guidelines. Clinical Practice Guidelines, Kaiser Permanente 1996.
2. Blumenfeld AM. Headache Guidelines. Clinical Practices Guidelines, Kaiser Permanente 2003.

(E) **Books:**

Rapoport A, Sheftell F, Tepper S J, Blumenfeld AM. Conquering Daily Headache 2008 Decker DTC.

(F) **Posters:**

1. Blumenfeld A. Chronic daily headache treated non-pharmacologically with Nociceptive Trigeminal Inhibition Dental Splint. Presented at the International Headache Society, London September 2008. Aurora S, Schim J, Cutrer FM, Ward TN, Blumenfeld AB, Lay C, Patel S, Lei X, Turkel CC. Botulinum neurotoxin type A for treatment of chronic migraine: PREEMPT 1 trial double-blind phase. Presented at the 14th International Headache Congress (IHC), September 10-13, 2009, Philadelphia, Pennsylvania; PO45.
2. Buse D, Lipton RB, Kawata AK, Varon SF, Manack A, Wilcox TK, Goadsby PJ, Blumenfeld A. Global impact of chronic migraine (CM) compared to episodic migraine (EM) on health-related quality of life (HRQoL), depression and anxiety. Presented at the 14th International Headache Congress (IHC), September 10-13, 2009, Philadelphia, Pennsylvania.
3. Blumenfeld A, Tarzemyan R, Neshandar M, Jalalian E, Beladimoghaddam N. Combination therapy: Valproic Acid with an NTI clenching reduction dental splint for prophylactic treatment of primary Headache: a pilot study for efficacy assessment. Presented at the 14th International Headache Congress (IHC), September 10-13, 2009, Philadelphia, Pennsylvania.
4. Payne KA, Wilcox TK, Yeomans K, Kawata AK, Varon SF, Burk CT, Lipton RB, Blumenfeld A. Clinical history, resource utilization, and other patient-reported outcomes (PROs) in migraineurs: An adaptable web-based methodology for the design, implementation and conduct of a multinational survey of patients. Presented at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 14th Annual International Meeting, May 16-20, 2009, Orlando, Florida.
5. Payne KA, Wilcox TK, Yeomans K, Kawata AK, Varon SF, Burk CT, Lipton RB, Blumenfeld A. Clinical history, resource utilization, and other patient-reported outcomes (PROs) in migraineurs: An adaptable web-based methodology for the design, implementation and conduct of a multinational survey of patients. Presented at the 12th European International Society for Pharmacoeconomics and Outcomes Research Congress (ISPOR EU), October 24-27, 2009, Paris, France.

6. Silberstein SD, Blumenfeld AM, Cady RK, Turner IM, Sirimanne M, DeGryse R, Turkel CC. OnabotulinumtoxinA for treatment of chronic migraine: Analysis of the PREEMPT chronic migraine subgroup who were overusing acute headache medications at baseline. Presented at the 14th International Headache Congress (IHC), September 10-13, 2009, Philadelphia, Pennsylvania; PO49.
7. Varon SF, Blumenfeld A, Lipton RB, Manack A, Buse D, Wilcox TK, Goadsby PJ, Kawata AK. Health care resource utilization patterns among individuals with chronic migraine (CM) and episodic migraine (EM). Presented at the 14th International Headache Congress (IHC), September 10-13, 2009, Philadelphia, Pennsylvania, PO126.
8. Varon SF, Burk CT, Buse DC, Kawata AK, Payne KA, Blumenfeld A, Lipton RB. Impact of chronic (CM) and episodic migraine (EM) on work presenteeism in 9 countries. Presented at the 12th European International Society for Pharmacoeconomics and Outcomes Research Congress (ISPOR EU), October 24-27, 2009, Paris, France.
9. Varon SF, Burk CT, Buse DC, Kawata AK, Payne KA, Blumenfeld A, Lipton RB. Impact of chronic (CM) and episodic migraine (EM) on work presenteeism in 9 countries. Presented at the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 14th Annual International Meeting, May 16-20, 2009, Orlando, Florida.
10. Aurora SK, Dodick DW, Blumenfeld AM, DeGryse RE, Turkel CC. OnabotulinumtoxinA for Chronic Migraine: Safety and Tolerability of the Effective Treatment Paradigm in the PREEMPT Clinical Program. Presented at the 52nd Annual Scientific Meeting of the American Headache Society (AHS), June 24-27, 2010, Los Angeles, California; PO-27.
11. Blumenfeld AM, Silberstein SD, Dodick DW, Aurora SK, Turkel CC, Binder WJ. OnabotulinumtoxinA for chronic migraine: PREEMPT clinical program establishes a safe and effective dose and injection paradigm. Presented at the 62nd Annual Meeting of the American Academy of Neurology (AAN), April 10-17, 2010, Toronto, ON, Canada.
12. Blumenfeld AM, Silberstein SD, Dodick DW, Aurora SK, Turkel CC, Binder WJ. OnabotulinumtoxinA for chronic migraine: PREEMPT trials establish a safe and effective dose and injection paradigm. Presented at the 2nd European Headache and Migraine Trust International Congress (EHMTIC 2010), October 28-31, 2010, Nice, France.
13. Becker WJ, Kawata AK, Yeomans K, Varon SF, Lipton RB, Wells L, Blumenfeld AM. Headache severity, comorbidities, and healthcare resource utilization (RU) among chronic migraine (CM) and episodic migraine (EM) in Canada. Presented at the Canadian Neurological Sciences Federation (CNSF) 45th Annual Congress, June 8-11, 2010, Quebec City, Canada.
14. Becker WJ, Wilcox TK, Wells L, Blumenfeld AM, Kawata AK, Varon SF, Lipton RB. Migraine-related disability, work impact, and quality of life (QOL) among Canadians with chronic migraine (CM) and episodic migraine (EM). Presented at the Canadian Neurological Sciences Federation (CNSF) 45th Annual Congress, June 8-11, 2010, Quebec City, Canada.
15. Blumenfeld AM, Kawata TK, Goadsby PJ, Buse DC, Wilcox TK, Varon SF, Lipton RB. Preventive medication use among Americans with chronic and episodic migraine. Presented at the American Managed Care Pharmacy (AMCP) 2010 Educational Conference, October 13-15, 2010, St. Louis, Missouri.

16. Blumenfeld AM, Lipton RB, Buse DC, Kawata AK, Wilcox TK, Varon SF, Goadsby PJ. Impact on chronic and episodic migraine on work patterns in five European countries. Presented at the 2nd European Headache and Migraine Trust International Congress (EHMTIC 2010), October 28-31, 2010, Nice, France.
17. Cortelli P, Martelletti P, Stokes M, Varon SF, Sullivan SD, Blumenfeld AM, Buse DC, Lipton RB, Wilcox TK, Goadsby PJ. Healthcare resource use and costs among chronic and episodic migraine in Italy. Presented at the XLI Congresso Societa Italiana di Neurologia (SIN), 2010.
18. Cortelli P, Martelletti P, Lipton RB, Blumenfeld A, Kawata AK, Varon SF, Renoldi M, Goadsby PJ. Impact of chronic versus episodic migraine on disability, health-related quality of life in Italy. Presented at the Italian Internal Medicine Congress (SIMI), 2010.
19. Cortelli P, Martelletti P, Lipton RB, Blumenfeld A, Kawata AK, Varon SF, Renoldi M, Goadsby PJ. Impact of chronic versus episodic migraine on disability and health-related quality of life in Italy (Impatto dell'emicrania cronica rispetto all'emicrania episodica sulla disabilit  di vita in Italia. Presented at the IV Congresso Nazionale Association Neurologica Italiana per la Riserca sulle Cefalee (ANIRCEF), June 2, 2010, Genoa, Italy.
20. Cortelli P, Martelletti P, Lipton RB, Blumenfeld A, Kawata AK, Varon SF, Renoldi M, Goadsby PJ. Impact of chronic versus episodic migraine on disability, health-related quality of life in Italy. Presented at the XLI Congresso Societa Italiana di Neurologia (SIN), 2010.
21. Cortelli P, Martelletti P, Stokes M, Varon SF, Sullivan S, Blumenfeld A, Buse DC, Lipton RB, Wilcox TK, Goadsby PJ. Healthcare resource use and costs among chronic and episodic migraine in Italy. Presented at the Italian Internal Medicine Congress (SIMI), 2010.
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#### (G) **Presentations**

1. Blumenfeld A, Patel A, Zhao X, Manack Adams A, Rothrock J. A Multicenter, Prospective, Randomized, Open-Label Study to Compare the OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: Patient Reported Outcomes From The FORWARD Study. American Headache Society - 60th Annual Scientific Meeting. 2018; San Francisco, CA.
2. Pascual J, Blumenfeld A, Tepper S, Robbins L, Orejudos A, Manack Adams A, Buse D, Silberstein S. Effect of OnabotulinumtoxinA in Depression and Anxiety Associated With Chronic Migraine. Sociedad Espanola de Neurologia - LXX Reunion Anual. 2018; Seville, Spain.
3. Rothrock J, Lipton R, Silberstein S, Jo E, Zhao X, Manack Adams A, Blumenfeld A. A Multicenter, Prospective, Randomized, Open-Label Study to Compare the Efficacy, Safety, and Tolerability of OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: The FORWARD Study. European Academy of Neurology - 4th Congress. 2018; Lisbon, Portugal.
4. Rothrock J, Tepper S, Wilson M, Orejudos A, Manack Adams A, Blumenfeld A. The Long-Term Efficacy and Safety of OnabotulinumtoxinA for the Prevention of Chronic Migraine in Patients with Medication Overuse: Results of the COMPEL Study. European Academy of Neurology - 4th Congress. 2018; Lisbon, Portugal.
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6. Blumenfeld AM, Tepper SJ, Robbins LD, Orejudos A, Adams AM, Buse DC, Silberstein SD. Effect of OnabotulinumtoxinA Prevention on Comorbidities of Depression and Anxiety in Chronic Migraine: Analysis in Headache Day Frequency Responders vs Headache Day Frequency Non-Responders. The International Neurotoxin Association's 4<sup>th</sup> international conference - TOXINS 2019: Basic Science and Clinical Aspects of Botulinum and Other Neurotoxins. 2019; Copenhagen, Denmark.
7. Rothrock JF, Stark R, Sommer K, Blumenfeld AM. Healthcare Resource Utilization in Adult Patients Treated With OnabotulinumtoxinA for Chronic Migraine: Results From the COMPEL Study. American Academy of Neurology 2020 - 72nd Annual Meeting. 2020; Virtual.

#### (H) **Abstracts**

1. Blumenfeld A, Patel A, Manack Adams A, Rothrock J. A Multicenter, Prospective, Randomized, Open-Label Study To Compare OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: Patient-Reported Outcomes From The FORWARD Study. Headache Update 2018.

2. Blumenfeld A, Patel A, Zhao X, Manack Adams A, Rothrock J. A Multicenter, Prospective, Randomized, Open-Label Study to Compare the OnabotulinumtoxinA and Topiramate for Headache Prevention in Adults with Chronic Migraine: Patient Reported Outcomes From The FORWARD Study. American Headache Society - 60th Annual Scientific Meeting. 2018; San Francisco, CA.
3. Blumenfeld A, Tepper S, Robbins L, Manack Adams A, Buse D, Silberstein S. Effects of OnabotulinumtoxinA Treatment on Chronic Migraine Comorbidities of Depression and Anxiety: Psychiatric Comorbidities Responder Analysis. Practicing Physician's Approach to the Difficult Headache Patient - 31st Annual. 2018.
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7. Paul Winner, DO, FAAN, FAHS, Andrew M. Blumenfeld, MD, Eric J. Eross, DO, Amelia Orejudos, MSc, Aubrey Manack Adams, PhD, Mitchell F. Brin, MD, FAAN. Long-Term Safety and Tolerability of OnabotulinumtoxinA Treatment in Chronic Migraine Patients: COMPEL Analysis by Treatment Cycle. Practicing Physician's Approach to the Difficult Headache Patient - 31st Annual. 2018.
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16. Rothrock JF, Lipton RB, Young WB, Jo E, Manack Adams A, Blumenfeld AM. OnabotulinumtoxinA Is Safe and Effective in Patients Who Discontinue Topiramate: Results of the FORWARD Study. American Academy of Neurology – 71<sup>st</sup> Annual Meeting. 2019; Philadelphia, PA.
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42. Severt L, Silberstein SD, Blumenfeld AM, Lipton RB, Lu K, Yu SY, Hutchinson S. Safety and Efficacy of Ubrogepant in Participants With Moderate to High Cardiovascular Risk. American Academy of Neurology 2020 - 72nd Annual Meeting. 2020; Virtual.
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## MEDICAL JOURNAL REVIEWER

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- Headache Journal
- Cephalalgia Journal
- Neurology Journal

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## US AND EUROPEAN PATENTS

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1. 8,617,572 Botulinum toxin treatments of depression
2. 8,617,571 Suture line administration technique using botulinum toxin
3. 8,609,113 Botulinum toxin treatments of depression
4. 8,609,112 Botulinum toxin treatments of depression
5. 8,603,983 Targeted delivery of botulinum toxin for the treatment and prevention of trigeminal autonomic cephalgias, migraine and vascular conditions
6. 8,530,425 Targeted delivery of botulinum toxin to the sphenopalatine ganglion
7. 8,388,952 Botulinum toxin compositions and methods
8. 8,383,103 Botulinum toxin compositions and methods

9. 8,241,641 Targeted delivery of botulinum toxin for the treatment and prevention of trigeminal autonomic cephalgias, migraine and vascular conditions
10. 7,981,433 Targeted delivery of botulinum toxin to the sphenopalatine ganglion
11. 7,749,515 Targeted delivery of botulinum toxin to the sphenopalatine ganglion
12. 7,655,244 Targeted delivery of botulinum toxin for the treatment and prevention of trigeminal autonomic cephalgias, migraine and vascular conditions.
13. Use of Botulinum toxins in the treatment of neuro-psychiatric conditions. Granted in: AU, CH, CN, DE, DK, ES, FR, UK, IE, IT, MX, NL, SE. EP 1677823