ALAN M. RAPOPORT, M.D.

CURRICULUM VITAE

Personal Information:

Date of Preparation: January 4, 2023

Citizenship: USA

Office Address: 2001 Santa Monica Blvd. #880W Santa Monica, CA 90404

Email: alanrapoport@gmail.com

Spouse: Arja Rapoport, M.S.

Children: Terrence Mark Sabrina

Academic Training:

1962 - 1966	DOWNSTATE MEDICAL CENTER, STATE UNIVERSITY OF NEW YORK, Brooklyn, New York. <u><i>M.D. Degree</i></u> , June, 1966.
1965	In my last year of Medical School, I spent two months doing clinical neurology at the Institute of Neurology at Queen Square, London and two months doing research in neuroanatomy at St. Thomas's Hospital Medical School, London.
1958 - 1962	DARTMOUTH COLLEGE, Hanover, New Hampshire. <u><i>B.A. Degree</i></u> in zoology, June, 1962.
<i>Licensure</i> .	California-#00006394 Connecticut-#014540 – Inactive 2009 Florida-#ME0015383 – Inactive 2009 New York-#099257-1 – Inactive 2009

Traineeship:

1970 - 1972	N.I.H. Post-Doctoral Fellowship in Neuromuscular Disease (See Military Service)
1969 - 1970	THE MOUNT SINAI HOSPITAL , New York, Chief Resident in Neurology.
1967 - 1970	THE MOUNT SINAI HOSPITAL , New York, <i>Junior Assistant</i> and Assistant Resident in Neurology.
1966 - 1967	THE MAIMONIDES MEDICAL CENTER, Brooklyn, New York, Internship in Medicine.

Specialty Board Certification:

Certified by the *UCNS (United Council of Neurological Subspecialties) in Headache Medicine*, December, 2006, Recertified 2016

Certified by the <u>American Board of Psychiatry and Neurology</u> (Neurology) -April, 1973 - Certification Number 12606

Diplomate of the National Board of Medical Examiners, 1967

Military Service:

UNITED STATES PUBLIC HEALTH SERVICE (US PHS) **Surgeon** (Equivalent to **Lt. Commander, U.S. Navy**) July, 1970 - June, 1972. Stationed at The National Institutes of Health, Bethesda, Maryland. Clinical Associate in Medical Neurology specializing in *Neuromuscular Disease*, research on the ultrastructure of peripheral nerve and muscle, and clinical care of patients with nerve and muscle disease.

Current and Recent Professional Activities:

2007 – 2023 TEACHING AT UCLA DEPARTMENT OF NEUROLOGY Clinical Professor of Neurology The David Geffen School of Medicine at UCLA Los Angeles, California

2013 – 2022	NEUROLOGICAL RESEARCH INSTITUTE Santa Monica, California.
2007 – present	PRIVATE PRACTICE IN NEUROLOGY and CLINICAL TRIAL INVOLVEMENT (seeing private patients with headache on a regular basis and performing various clinical trial duties including Sub PI status) The California Medical Clinic for Headache Santa Monica, California
2007 – 2007	TEACHING COLUMBIA UNIVERSITY MEDICAL STUDENTS Stamford Hospital, Stamford, CT
2006 – present	THE NEW ENGLAND CENTER FOR HEADACHE, P.C. Founder and Director-Emeritus 30 Buxton Farms Road, Suite 230 Stamford, CT 06905
2013 to 2015	PRESIDENT OF THE INTERNATIONAL HEADACHE SOCIETY
1979 – 2006	 THE NEW ENGLAND CENTER FOR HEADACHE, P.C. Founder and Director 778 Long Ridge Road, Stamford, Connecticut 06902-1251 An outpatient headache diagnostic and treatment facility. Treatment of over 20,000 headache patients to date using pharmacologic and nonpharmacologic techniques. Ongoing supervision and involvement in research, publishing and patient care. Supervision of staff including nurse practitioners, physicians, International Headache Society Clinical Fellows, other fellows, residents, medical students, registered nurses, technicians and executive assistants, secretarial/administrative personnel. Development of non-pharmacologic, physiological and behavioral treatment
	 therapies including biofeedback and relaxation techniques (which led to the creation of The New England Institute of Behavioral Medicine). Ongoing development and participation in approximately 200 open and double-blind, placebo-controlled clinical trials in the development and testing of new and approved pharmacologic agents for the treatment of headache and other neuropsychiatric conditions.
1994 – 2006	THE NEW ENGLAND RESEARCH INSTITUTE 778 Long Ridge Road, Stamford, Connecticut 06902-1251 Founder and Director

Director and Co-founder of a neuropsychiatric research institute comprised of two board certified neurologists, and a psychiatrist. The staff also includes two Ph.D. neuropsychologists, a clinical fellow with an M.D. and Ph.D. degrees, 2 study coordinators with Master's degrees, one nurse practitioner, three registered nurses and other administrative staff.

• The institute specializes in clinical trials for treatment of neurological/psychiatric disorders including Headache and Alzheimer's Disease. Institute activities include designing clinical trials, administering clinical trials, consulting with pharmaceutical companies, entering patients into study protocols, neuropsychological evaluations, physical and neurological exams, and computer data transmission.

• The institute is affiliated with The Neurological Clinical Trial Network (NCTN) of The New York-Presbyterian Hospital

• The institute maintains an active recruitment program through marketing and a network of healthcare professionals and satisfied patients. To date the institute has treated thousands of patients and served as a valuable resource for bringing new and effective medications to the marketplace.

1988 - 2001 THE GREENWICH HOSPITAL INPATIENT HEADACHE UNIT Medical Director Medical Director of the Greenwich Hospital Inpatient Unit founded in 1988, a

comprehensive, interdisciplinary inpatient program for the care of patients with daily and/or intractable headache conditions. This program was one of the few full time, comprehensive, dedicated inpatient headache units in the world.

1972 -2006 PRIVATE PRACTICE IN NEUROLOGY Former address: 2 1/2 Dearfield Drive, Greenwich, Connecticut 06831. Most recent address: Suite 27, 778 Long Ridge Road, Stamford, Connecticut 06902-1251 Affiliated with Greenwich, Stamford and New York - Presbyterian Hospitals. Affiliated with Greenwich Hospital Neurology Clinic Affiliated with Columbia University Neurology Clinic,

Professional Organizations and Societies

ALZHEIMER DISEASE MEDICAL NETWORK OF FAIRFIELD COUNTY *Co-Founder (inactive)* AMERICAN ACADEMY OF NEUROLOGY (AAN) *Fellow Past Headache and Pain Chair for Selection of Abstracts Lecturer in several courses including Therapy of Neurology (2007) Formerly Director of and lecturer in course on Chronic Daily Headache*

AMERICAN HEADACHE SOCIETY (AHS) formerly the AMERICAN

ASSOCIATION FOR THE STUDY OF HEADACHE (AASH) Fellow Former Member, Board of Directors

Lecturer and member, board of Directors Lecturer and member of various committees AMERICAN PAIN SOCIETY (presented a poster May 2010) ANIRCEF (Italian Neurological Association for Cephalalgia Research) CONNECTICUT STATE MEDICAL SOCIETY (Lifetime member) CONTROVERSIES IN NEUROLOGY (CONy)

Chairman of the headache day FAIRFIELD COUNTY MEDICAL SOCIETY (lifetime member) FAIRFIELD COUNTY NEUROLOGY SOCIETY

Founder and Immediate Past President GREENWICH MEDICAL SOCIETY (inactive)

HEADACHE COOPERATIVE OF NEW ENGLAND (HCNE)

Founder, Director, Past President Founding President Director, Corporate Liaisons HEADACHE COOPERATIVE OF THE PACIFIC (Founding Director) IASP (International Association for the Study of Pain) INTERNATIONAL HEADACHE SOCIETY (IHS)

President

Member, Board of Trustees 2009-present Chairman, Membership and Education Subcommittee (in the past) Corporate Liaison to the Executive Committee (in the past) Member Electronic Education Task Force Charter Member since 1981 NATIONAL HEADACHE FOUNDATION (NHF) NEW ENGLAND PAIN ASSOCIATION (inactive) SOUTHERN CLINICAL NEUROLOGICAL SOCIETY Chairman, Headache Course since 2005 STAMFORD MEDICAL SOCIETY (inactive)

UCNS (United Council of Neurological Subspecialties) Board Certified in Headache Medicine December, 2006

Academic Appointments:

2006 – 2023	THE DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA, Los Angeles, California, Clinical Professor of Neurology
2002 - 2006	COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS & SURGEONS, New York, New York. York. Clinical Professor of Neurology
1977 - 2002	YALE UNIVERSITY SCHOOL OF MEDICINE, New Haven, Connecticut. Assistant Clinical Professor of Neurology

1973 - 1990	NEW YORK MEDICAL COLLEGE, Valhalla, New York. Assistant Clinical Professor of Neurology
1969 - 1974	THE MOUNT SINAI SCHOOL OF MEDICINE, New York, New York. Clinical Instructor in Neurology

Hospital Appointments:

2006 – 2023	THE DAVID GEFFEN SCHOOL OF MEDICINE AT UCLA, Los Angeles, California Attending in Neurology , active staff, Department of Neurology
2002 – 2006	NEW YORK - PRESBYTERIAN HOSPITAL, New York, New York Attending in Neurology , active staff, Department of Neurology.
2002 - 2006	GREENWICH HOSPITAL, Greenwich, Connecticut Consultant in Neurology
1988 - 2001	GREENWICH HOSPITAL, Greenwich, Connecticut Medical Director of the In-Patient Headache Unit.
1972 - 2002	GREENWICH HOSPITAL, Greenwich, Connecticut. Attending Staff Chief of Neurology , 1983 to 1993, Department of Medicine, Division of Neurology.
1972 - 2006	STAMFORD HOSPITAL, Stamford, Connecticut Attending in Neurology, currently Courtesy Staff , Department of Medicine, Division of Neurology.

Teaching Experience:

Clinical Professor of Neurology at The David Geffen School of Medicine at UCLA, Los Angeles, California at present

44 years of teaching medical students, house staff and attending on rounds, in clinics and by didactic lectures (locally, regionally, nationally and internationally). See academic appointments above.

Other Professional Activities:

A) Editorial positions (see below).

B) I currently lecture several times per month to physicians around the US and internationally.

Television and Radio.

Numerous radio and TV shows including:

The Sunday Today Show, NBC Network, Easter Sunday, 2002

Fox News Network, March 1997, July and December 1996.

The Today Show, NBC Network, January 22, 1996.

20/20, ABC Network, January 19, 1996.

Dateline NBC, NBC Network, Update on Headache, August 10, 1994.

Numerous Appearances in the media, i. e., 20/20, ABC; Innovations, PBS; CNN News, Sonja Live, CNN; Sunday Today, NBC; WNBT News Scientific Feature with Al Roker, NBC; Two on the Town, CBS; Good Morning America, ABC; Cover to Cover, NBC; CBS This Morning, CBS.

Appearance on Cable TV of Connecticut on multiple occasions. Topics: New Treatments in Headache.

Several radio shows on diagnosis and treatment of headache WNLK AM and KISS FM, Norwalk, Connecticut, 1989 to present.

Several shows on Headache Update WSTC, Stamford, Connecticut, and WGCH, Greenwich, Connecticut, 1989 to present.

Books and Chapters:

Bussone, G, **Rapoport, A**. Acute and Preventive Treatment of Cluster Headache and other Trigeminal Autonomic Cephalgias. In Moskowitz, M. and Nappi G. Eds *The Handbook of Clinical Neurology, 3rd Series*. Amsterdam:Elsevier, B.V., 2011, pp 431-442.

Leone, M, **Rapoport A.** Preventive and Surgical Management of Cluster Headaches. In Olsen, J. et al Eds *The Headaches, 3rd edition*, Philadelphia: Lippincott Williams & Wilkins, 2006, pp 809-814.

Purdy A, **Rapoport A**, Tepper S, Sheftell F. eds. *Advanced Therapy of Headache, 2nd edition*. Toronto: BC Decker, 2005.

Tepper SJ, Bigal ME, Sheftell FD, **Rapoport AM.** Botulinum Toxin Type A in the Treatment of Refractory Headache. In Olesen, J. et al Eds. *Preventive Pharmacotherapy of Headache Disorders.* Oxford: Oxford University Press 2004, pp 138-141.

Rapoport AM, Bigal ME, Tepper SJ, Sheftell FD. Naratriptan in the Preventive Treatment of Refractory Chronic Migraine. In Olesen, J., et al. Eds. *Preventive Pharmacotherapy of Headache Disorders*. Oxford: Oxford University Press 2004; pp 205-211.

Blumenthal H, **Rapoport A**. Common Headache Syndromes. In Warfield C, and Bajwa Z, eds. *Principles and Practice of Pain Management.* New York: McGraw-Hill, 2004.

Rapoport A, Sheftell F, Tepper S. Conquering Headache, 5th edition, Hamilton: Decker DTC, 2004.

Rapoport A, Pharmacological Treatment of Migraine. In Samuels M, et al, eds in *Office Practice of Neurology,* 2^{nd} edition. New York: Churchill Livingstone, 2003.

Rapoport A, Sheftell F, Tepper S. Conquering Headache, 4th edition, Hamilton: Decker DTC, 2003.

Tepper SJ, Sheftell FD, Rapoport AM eds. The Spectrum of Migraine. New York: CNS News, 2002.

Rapoport A, Sheftell F, Tepper S. Conquering Headache, 3rd edition, Hamilton: Decker DTC, 2001.

Rapoport A. Cerebral Vascular Disease and Headache. In Diamond M, and Solomon G, eds. *Diamond and Dalessio's The Practicing Physician's Approach to Headache.* Philadelphia: W.B. Saunders Co., 2000.

Rapoport A, Sheftell F, Purdy A. eds. Advanced Therapy of Headache. Toronto: BC Decker, 1999.

Rapoport A. Making Headway Against Migraine. In *Encyclopedia Britannica's 1998 Medical and Health Annual*, 1998; 293-298.

Rapoport A, Sheftell F. Conquering Headache, 2nd edition, Toronto: Empowering Press, 1998.

Rapoport A, Lipton R. Pharmacological Treatment of Migraine. In Samuels M, et al, eds. *Office Practice of Neurology.* New York: Churchill Livingstone, 1996.

Lipton R, **Rapoport A**. Diagnosis of Migraine. In Samuels M, et al, eds. *Office Practice of Neurology.* New York: Churchill Livingstone, 1996.

Rapoport A, Sheftell F. *Headache Disorders: A Management Guide for Practitioners*. Philadelphia: W.B. Saunders Company, 1996.

Rapoport A, Sheftell F. Headache Relief for Women. Boston: Little, Brown and Company, 1995.

Rapoport A, Sheftell F. Conquering Headache. Toronto: Empowering Press, 1995.

Rapoport A -quoted in *Home Remedies: What Works.* Malesky G, Kaufman B and editors of *Prevention* Magazine Health Books. Emmaus, Pennsylvania: Rodale Press, 1995.

Rapoport A, Sheftell F. eds. *Headache: A Clinician's Guide to Diagnosis, Pathophysiology and Treatment Strategies.* Costa Mesa, CA: PMA Publishing, 1993

Rapoport A. Headache Associated with Medication and Substance Withdrawal. In: Tollisson C, et al, eds. *Headache: Diagnosis and Management*. Baltimore: Williams and Wilkins, 1993.

Rapoport A, Sheftell F, Headache Relief. New York: Fireside Books, 1991.

Rapoport A, Sheftell F, Headache Relief. New York: Simon and Schuster, 1990.

Rapoport A, Sheftell F, Labson L. Headache. Collier's Encyclopedia, *Health and Medical Horizons*. New York: MacMillan Educational Company, 1984. 4-17.

Medical Consultant for Time-Life Books, Library of Health Series: *Dealing with Headaches*, 1982.

Editorial Positions:

Former Member of the Editorial Board of *Cephalalgia*, an international headache journal, 1985-2000 Currently a reviewer for *Cephalalgia*.

Reviewer for *Headache*, 1993-Present.

Supplement Editor for Headache 2004-Present

Reviewer and currently Member of the Editorial Board for CNS Drugs, 1996-Present.

Reviewer for Neurology.

Reviewer for Journal of Clinical Neuropharmacology

Member of the Editorial Board of *Headache Quarterly*, 1997-2003.

Member of Editorial Board of Head Pain 2003 - present.

Editor of Seminars in Headache Management, Decker Periodicals, 1996-Present.

Member of the Editorial Board of *Topics in Pain Management: Current Concepts and Treatment Strategies*, PSG Publishing Co., 1985-Present.

Reviewer for *Managed Care* and *Pharmacoeconomics*, 1996-Present.

Member of Editorial Board of *Neurology Reviews*, 1995 to present.

Editor in Chief, Neurology Reviews, 2009 to present.

Other Activities:

American Association for the Study of Headache (AASH), now named American Headache Society (AHS), Board of Directors, 1988-1991, 1995-1996.

American Association for the Study of Headache, (AASH), now named American Headache Society (AHS), member of several committees, 1986 to present.

I have attended all of the meetings of the The International Headache Congress, since the Initial meeting In Munich, Germany, 1983 with the exception of one. These meetings Include Barcelona, Spain, May 1999, Amsterdam, The Netherlands, June 1997, Toronto, Canada, September, 1995, Paris, France, August 1993, Washington D. C., July 1-3, 1991, Florence, Italy, September, 1987 and Munich, Germany, 1983. Attended Migraine Trust, London, England, on multiple occasions, including September 25-28, 1990, 1992.

Lecturer on Headache Inpatient Treatment Programs in the U. S. at the Department of Neurology, Turku University, Finland, on several occasions including July 1987, 1990.

Lecturer in Neurology at the National Hospital at Queen Square, September 1986, invited by Professor Nathan Blau.

Publications:

Babei Mahsa, Rapoport Alan. "Device profile of Nerivio for acute treatment of episodic or chronic migraine in

patient 12 years or older." Expert Review of Medical Devices (In Press) 2023.

Lampl C, **Rapoport AM**, Cohen JM, Barash S, Ramirez Campos V, Seminerio MJ, Ning X, Silberstein SD. "Efficacy and quality-of-life improvements with fremanezumab treatment in patients with difficult-to-treat migraine with associated neurological dysfunction." *European Journal of Neurology*. 2022 Mar 18.

Cowan RP, **Rapoport AM**, Blythe J, Rothrock J, Knievel K, Peretz AM, Ekpo E, Sanjanwala BM, Woldeamanuel YW. "Diagnostic accuracy of an artificial intelligence online engine in migraine: A multi-center study." *Headache: The Journal of Head and Face Pain*. 2022.

Rattanawong W, **Rapoport A**, Srikiatkhachorn A. "Neurobiology of Migraine Progression." *Neurobiology of Pain.* 2022 Jun 9:100094

Barrientos N, Juliet R, **Rapoport A**, Salles P, Milán A, Meza P. "Cefalea por abuso de medicamentos y sus marcadores clínicos." *Revista chilena de neuro-psiquiatría*. 2022 Mar;60(1):26-39.

Rapoport Alan M, Lipton Richard B. "Potassium channel openers —novel triggers of aura and Migraine." *Nat Rev Neurol* (2021). https://doi.org/10.1038/s41582-021-00517-5. Published on-line May 26, 2021

Sun-Edelstein C, **Rapoport AM**, Rattanawong W, Srikiatkhachorn, A. "The Evolution of Medication Overuse Headache: History, Pathophysiology and Clinical Update." *CNS Drugs* 2021;35(5);545-565. Published On-Line May 17, 2021 (DOI: 10.1007/s40263-021-00818-9)

Pavlovic JM, Paemeleire K, Göbel H, Bonner J, **Rapoport A**, Kagan R. "Efficacy and safety of erenumab in women with a history of menstrual migraine." *The Journal of Headache and Pain* 2020;21:1-9.

Spingos Konstantinos, Michail Vikelis, **Alan Rapoport**. "Acute Care Treatment of Migraine." *Journal Neuroophthalmol* 2020;40:472-484. PMID: 32956223. DOI: 10.1097/WNO.00000000001053

Rapoport AM, Ameri M, Lewis H, Kellerman DJ. "Development of a Novel Zolmitriptan Intracutaneous Microneedle System (QtryptaTM) for the Acute Treatment of Migraine." *Pain Management* 2020 (In Press).

Rapoport AM, Strom S, Kollins J, Albrecht D. "Safety of Dihydroergotamine for Acute Migraine Treatment: Reality vs Perception." *Headache* 2020;60:24-24.

Fishman RS, Forst AR, Guzman M, Armer TA, Borland SW, **Rapoport AM**. "Interim Results of a Phase 1 Single Ascending Dose Study of XC101-D13H, a Novel Compound for the Prevention of Migraine." *Headache* 2020;60:41-42.

Zachman MB, Halvorsen MB, **Rapoport AM**. "Incidence of TEAEss by Dose in a Multicenter, Open-Label, Long-Term, Safety Study of DFN-02 (Tosymra[™], Nasal Spray of Sumatriptan 10 mg Plus Permeation Enhancer Intravail." *Headache* 2020;60:110-110.

Fishman R, Guzman M, Armer T, Borland S, Leyden M, **Rapoport A**. "Serotonin Receptor Activity Profiles for Nine Commercialized Ergot Alkaloids Correspond to Known Risks of Fibrosis and Hallucinations." *Neurology* 2020;94 (15 Supplement).

Sun-Edelstien C, **Rapoport AM**. "Frequent Headaches with and Without Acute Medication Overuse." *Oxford Textbook of Headache Syndromes* 2020 p. 284.

Rapoport AM, McAllister P. "The Headache Pipeline: Excitement and Uncertainty." Headache2020;60:190-199.

Rapoport AM, Lin T, Tepper SJ. "Remote Electrical Neuromodulation (REN) for the Acute Treatment of Migraine." *Headache* 2020;60:229-234.

Rapoport AM, Lin T, Tepper SJ. "Device Profile of the Nerivio[™] for Acute Migraine Treatment: Overview of Its Efficacy and Safety." *Expert Review of Medical Devices* 2019;16:1017-1023.

Rapoport Alan M, Bonner Jo H, Lin Tamar, Harris Dagan, Gruper Yaron, Ironi Alon, Cowan Robert P. "Remote electrical neuromodulation (REN) in the acute treatment of migraine: a comparison with usual care and acute migraine medications." *J Headache Pain* 2019;20:83.

Silberstein SD, **Rapoport AM**, Loupe PS, Aycardi E, McDonald M, Yang R, Bigal ME. "The Effect of Beginning Treatment With Fremanezumab on Headache and Associated Symptoms in the Randomized Phase 2 Study of High Frequency Episodic Migraine: Post-Hoc Analyses on the First 3 Weeks of Treatment.." *Headache* 2019;59(3):383-393.

Bigal Marcelo E, Walter Sarah, **Rapoport Alan M**. "Fremanezumab as a Preventive Treatment for Episodic and Chronic Migraine." *Expert Rev Neurotherapeutics* 2019;19(8):719-728.

Charles James A, **Rapoport Alan M.** "The American Headache Society's Position Statement on integrating new migraine treatments into clinical practice – comments." *Headache* 2019:629. DOI: 10.1111/head.13496.

Lampl, Christian, **Rapoport Alan**, Levin Morris, Brautigam Elizabeth. "Migraine and episodic vertigo: a cohort survey study of their relationship." *J Headache Pain* 2019;20:33-37.

Rapoport AM, Edvinsson L. "Some aspects on the pathophysiology of migraine and a review of device therapies for migraine and cluster headache." *Neurological Sciences* 2019;40(Suppl1):S75-S80...

Bigal Marcelo E, **Rapoport Alan M**, Silberstein Stephen D, Walter Sarah, Hargreaves Richerd J, Aycardi, Ernesto."From LBR-101 to Fremanezumab for Migraine." CNS Drugs 2018;32:1025–1037.

Maasumi K, Michael R, **Rapoport AM**. "CGRP and migraine: The Role of Blocking Calcitonin Gene-Related peptide Ligand and Receptor in the Management of Migraine." *Drugs* 2018; Jun;78(9):913-928.

Vikelis M, Spingos KC, **Rapoport AM.** "A new era in headache treatment." *Neurological Sciences* 2018;39(Suppl 1):S47-S58.

Lipton RB, Munjal S, Brand-Schieber E, **Rapoport AM**. "DFN-02 (Sumatriptan 10 mg with a Permeation Enhancer) Nasal Spray vs Placebo in the Acute Treatment of Migraine: a Double-Blind, Placebo-Controlled Study." *Headache* 2018;58:676-687.

Munjal S, Brand-Schieber E, Allenby K, Spierings Egilius LH, Cady RK, **Rapoport AM.** "A muticenter, open label, long-term safety and tolerability study of DFN-02, an intranasal spray of sumatriptan 10 mg plus permeation ehancer DDM, for the acute treatment of episodic migraine." *Journal of Headache and Pain* 2017;18:31.

Schuster NM, **Rapoport**, AM. "New strategies for the treatment and prevention of primary headache disorders." *Nature Reviews/Neurology* 2016;12:635-650.

Munjal S, Gautam A, **Rapoport A**, Fisher DM. "The effect of weight, body mass index, age, sex, and race on plasma concentrations of subcutaneous sumatriptan: a pooled analysis." *Clin Pharmacol.* 2016;8:109-16.

Mitsikostas D, **Rapoport**, **A**. "New players in the preventive treatment of migraine." BMC Medicine 2015;13:279-281.

Bigal ME, Dodick DW, **Rapoport AM**, Silberstein SD, Ma Y, Yang R, Loupe PS, Burstein R, Newman LC, Lipton RB. "Safety, tolerability, and efficacy of TEV-48125 for preventive treatment of high-frequency episodic migraine: a multicentre, randomised, double-blind, placebo-controlled, phase 2b study." *The Lancet Neurology* 2015 Nov;14(11):1081-90.

Bigal ME, Edvinsson L, **Rapoport AM**, Lipton RB, Spierings EL, Diener HC, Burstein R, Loupe PS, Ma Y, Yang R, Silberstein SD. "Safety, tolerability, and efficacy of TEV-48125 for preventive treatment of chronic migraine: a multicentre, randomised, double-blind, placebo-controlled, phase 2b study." *The Lancet Neurology* 2015 Nov;14(11):1091-100.

Rapoport AM, Ravishankar K. "Dr Ninan T Mathew-A tribute (1937-2015)." *Cephalalgia*. 2015 Nov;35(13):1221-3.

Vikelis M, Spingos KC, **Rapoport AM**. "The iontophoretic transdermal system formulation of sumatriptan as a new option in the acute treatment of migraine: a perspective." *Therapeutic Advances in Neurological Disorders*. 2015 Jul;8(4):160-5.

Rapoport AM. "Board Walk – April 2015." Cephalalgia 2015, Vol. 35(4) 370–37

Schuster NM, Vollbracht S, **Rapoport AM**. "Emerging treatments for the primary headache disorders." *Neurological Sciences*. 2015 May;36 Suppl 1:109-13.

Rapoport AM. "A comment on the Brazilian contribution to the diagnosis and treatment of headache disorders." *Headache*. 2015 May;55(5):696.

Bigal ME, Walter S, **Rapoport AM**. "Therapeutic antibodies against CGRP or its receptor." *British Journal of Clinical Pharmacology*. 2015 Jun;79(6):886-95.

Woldeamanuel YW, **Rapoport AM**, Cowan RP. "The place of corticosteroids in migraine attack management: A 65-year systematic review with pooled analysis and critical appraisal." *Cephalalgia*. 2015 Oct;35(11):996-1024.

Chen, C, Bujanover S, Kareht S, **Rapoport A.** "Differential Pharmacokinetics of Diclofenac Potassium for Oral Solution vs Immediate-Release Tablets From a Randomized Trial: Effect of Fed and Fasting Conditions." *Headache* 2015;55:265-75.

Rapoport AM, Meskunas CA, Bigal ME. Commentary on Westergaard's "Definitions of medication-overuse headache in population-based studies and their implications on prevalence estimates: A systematic review". *Cephalalgia*. 2015 Jun;35(7):637-8.

Woldeamanuel YW, **Rapoport AM**, Cowan RP. "What is the evidence for the use of corticosteroids in migraine?" *Current Pain and Headache Reports*. 2014 Dec;18(12):464.

Vollbracht S, Rapoport, AM. "New Treatments for Headache." Neurological Sciences 2014;35 Suppl 1:89-97.

Vikelis M, Mitsikostas DD, **Rapoport AM**. "Sumatriptan iontophoretic transdermal system for the acute treatment of migraine." *Pain Management* 2014;54:748-9.

Engel ER, Kudrow D, **Rapoport AM**. "A prospective, open-label study of milnacipran in the prevention of headache in patients with episodic or chronic migraine." *Neurological Sciences* 2014;35:429-35.

Bigal ME, Walter S, **Rapoport**, AM. "Calcitonin Gene-Related Peptide (CGRP) and Migraine Current Understanding and State of Development." *Headache* 2013:53;1230-1244. July 12.

Chai NC, Shapiro RE, **Rapoport AM.** "Why does vomiting stop a migraine attack?" *Current Pain and Headache Reports* 2013;17:362.

Rapoport AM. "The next two years." Cephalalgia 2013;33:883-4.

Vollbracht S, Rapoport, AM. "The Pipeline in Headache Therapy." CNS Drugs 2013;27:717-29.

Tepper SJ, Chen S, Reidenbach F, **Rapoport A.** "Intranasal Zolmitriptan for the Treatment of Acute Migraine." *Headache* 2013;53;S2:62-71.

Purdy RA, Rapoport, AM. "Parsing the migraine attack." Headache 2013;53:879-80.

Nagy AJ, **Rapoport AM.** "Update on future headache treatments." *Neurological Sciences* 2013;34 Suppl 1:S101-108.

Vikelis M, Mitsikostas DD, **Rapoport AM**. "Sumatriptan transdermal iontophoretic patch (NP101-ZelrixTM):review of pharmacology, clinical efficacy, and safety in the acute treatment of migraine." *Neuropsychiatric Disease Treatment* 2012;8:429-434.

Vollbracht S, **Rapoport AM**. "New and emerging treatments for headache." *Expert Review of Neurotherapeutics* 2012;12:1271-1273.

Rapoport AM. "Acute treatment of migraine: established and emerging therapies." Headache 2012;52 Suppl 2:60-

64.

Rapoport AM. "The therapeutic future in headache." Neurological Sciences 2012;33 Suppl 1:S119-125.

Rapoport AM. "What happens to the old headache medicines?" Headache 2012;52:701-706.

Evans RW, Williams MA, **Rapoport AM**, Peterlin BL. "The association of obesity with episodic and chronic migraine." *Headache* 2012;52:663-671.

Bigal ME, Rapoport AM. "Obesity and chronic daily headache." Current Pain Headache Rep 2012;16:101-109.

Queiroz LP, Friedman DI, **Rapoport AM**, Purdy RA. "Characteristics of Migraine Visual Aura in Southern Brazil and Northern USA." *Cephalalgia* 2011 (On Line First November 23, 2011).

Bigal ME, **Rapoport AM.** "Obesity and Migraine." *Current Pain and Headache* (Chronic Daily Headache Section) (On Line First November 14, 2011).

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"Clinical Overview of Sumatriptan" - Presented to the World Congress of Neurology (WCN), Buenos Aires, September 16, 1997.

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"Zolmitriptan: Clinical Properties" - Presented to the International Headache congress (IHC), Amsterdam, June 10, 1997.

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"Chronic Daily Headache" -Presented to the Brazilian Headache Society Annual Scientific Meeting, Riberao Preto, Brazil, May 1997.

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"Refractory Headaches"-Presented to the Eighth Annual Symposium on Treatment of Headaches and Facial Pain, New York Headache Foundation, The New York Marriott East Side, New York, New York, April 14, 1996.

"Evaluating Inpatient and Outpatient Treatment of the Headache Patient: A Pharmacoeconomic Analysis" - Presented to NMHCC's Headache Care Management Conference, Atlanta, Georgia, December 13, 1996.

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"Cerebrovascular Disease and Headache," presented at a course entitled The Practicing Physician's Approach to the Difficult Headache Patient, Marriott's Rancho Las Palmas Resort and Country Club, Rancho Mirage, California, February 23-27, 1994.

"Sex Hormones and Headache" - Presented to Grand Rounds in the Department of Obstetrics and Gynecology of The Massachusetts General Hospital, Boston, Massachusetts, Thursday, February 17, 1994.

"Effective Diagnosis and Treatment of Headaches" -Presented at the Colorado Scientific Meeting sponsored by the American College of Physicians in association with the Colorado Society of Internal Medicine, Broadmore Hotel, Colorado Springs, Colorado, February 3-5, 1994.

"Headache Update, 1994" - Presented to Grand Rounds in the Department of Medicine of the New Britain Hospital, New Britain, Connecticut, January, 1994.

"Diagnosis and Treatment of Headache, 1993," Presented to Grand Rounds in the Department of Neurology, Dartmouth-Hitchcock Medical Center, West Lebanon, New Hampshire, October, 1993.

Chairman of the Conference entitled Advances in Headache Diagnosis and Treatment. "The Pharmacologic Treatment of Headache" -Presented by the Headache Consortium of New England (HCNE) at Sturbridge Village, Massachusetts, May 1993.

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"Daily Chronic Headache and Analgesic Rebound" -Presented at a program entitled Headache Management, A Comprehensive Update. Sponsored by the New York University Post-Graduate Medical School, New York University Medical Center, New York, New York, September 26, 1992.

Moderator of Symposium on Analgesic Rebound Headache and Chairman of the Conference entitled, "Update on the Pathophysiology and Treatment of Headache," - Presented by the Headache Consortium of New England (HCNE) at Bretton Woods, New Hampshire, October 5, 1991.

"Diagnosis and Treatment of Headache and Proper Use of Medical Services" - Presented to Travelers Insurance Corporation, Wallingford, Connecticut, September 19, 1991.

"Diagnosis and Treatment of Headache, 1991" - Grand Rounds at the New Britain General Hospital, on May 23, 1991.

"Analgesic Rebound Headache" - Presented to the Headache and Pain staff of the Upper Valley Medical Center in Troy, Ohio, on May 16, 1991.

"Analgesic Rebound Headache - The Misuse of Good Medicine" - Presented at Advances in Medicine by the 25-year class of the College of Medicine of the State University of New York at the Health Science Center in Brooklyn, New York on May 11, 1991.

"Migraine, 1991: Diagnosis, Scientific Basis and Treatment," presented at Neurology Grand Rounds at the University of Alabama School of Medicine in Birmingham, Alabama on April 17, 1991.

"The Overuse of Medication in the Chronic Headache Sufferer" - Presented at the Houston Headache Symposium, Houston, Texas, March 23, 1991.

Concluding Remarks on Analgesic Rebound Headache in Children - Presented at the International Juvenile Headache Congress (3rd IHS International Pediatric Symposium, Rome, March 6-9, 1991 at the Rome Cavalieri Hilton Hotel).

Grand Rounds Speaker, "New Advances in Migraine Diagnosis and Treatment" Charlotte Hungerford Hospital. December 7, 1990.

Lecturer, Mechanisms and Management of Headache. Washington, D.C., November 2, 3, 4, 1990.

Lecturer in Public Symposium on Chronic Daily Headache, Headache 1990. Sponsored by ACHE (American Council on Headache Education), in Baltimore, MD, November 1, 1990.

"Analgesic Abuse in Chronic Headache" -Presented at the Thirty Second Annual Scientific Meeting of the American Association for the Study of Headache. Los Angeles, California, June, 1990.

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Moderator, "The Proper Use of Analgesics: Use Versus Abuse" -Presented in Symposium at the American Association for the Study of Headache Winter Course - Headache: Changing Perspectives and Controversies. Scottsdale, Arizona, February, 1990.

"Clinical Causes of Dangerous Headaches" -Presented at the Swiss Society for the Study of Headache. Solothurn, Switzerland, December 2, 1989.

"Changes in Topographic Mapping of EEGs and Flash Visual Evoked Potentials during Attacks of Migraine" -Presented at the Thirty-First Annual Scientific Meeting of The American Association for the Study of Headache, Boston, MA., June, 1989.

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"Substance Abuse in Headache and Drug Induced Headaches" -Presented in a workshop of The American Association for the Study of Headache Course: Headache: Changing Perspectives and Controversies. Scottsdale, Arizona, January, 1989.

"Topographic Mapping In Headache and Migraine" -Presented in a symposium on Topographic Mapping of EEG and Evoked Potentials: Fundamentals and Clinical Applications. Municipal Hospital Slotervaart, Amsterdam, The Netherlands, November, 1988.

"New Dimensions in the Pharmacotherapy of Migraine" -Presented in a seminar entitled Headache: New Dimensions in Evaluation and Management. Neurological Sciences Center, Good Samaritan Hospital & Medical Center, Portland, Oregon, September, 17, 1988.

Rapoport, A., Gordon, B. - "The P300 Response in Post Head Trauma Patients" -Presented at the American Association for the Study of Headache, 30th Annual Scientific Meeting, San Francisco, CA, June, 1988.

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Rapoport A, Weeks R, Sheftell F, et al. "Analgesic Rebound Headache: Theoretical and Practical Implications." Presented at the Second International Headache Congress (IHC). Copenhagen, Denmark, June, 1985.

Discussant on "Radio Frequency Trigeminal Ganglio- lysis in the Treatment of Chronic Intractable Cluster Headache", by Ninan Mathew, et al. at The American Association for the Study of Headache Annual Meeting, New York, June, 1985.

Discussant on "Monocyte Population Increase in Cluster Headache": A New Immunological Aspect", by Giacovazzo, et al. At The American Association for the Study of Headache Annual Meeting, New York, June 1985.

Discussant on "The Treatment of Intractable Chronic Cluster Headache", by Seymour Diamond, et al. At The American Association for the Study of Headache Annual Meeting, New York, June, 1985.

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Lecturer on "Therapeutic Aspects of Intractable Headache" at the Annual Course of The American Association for the Study of Headache Meeting, San Francisco, California, June, 1984.

Lecturer on "Correlation of Facial Thermographic Patterns and Headache Diagnosis" at the Annual Meeting of the American Academy of Thermography, Los Angeles, California, June, 1984.

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"Rapid Evolution of Brain Abscess Documented by Serial CT Scanning." Presented at Society for Computerized Tomography and Neuro-Imaging, January 28, 1981.

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