



Robert P. Cowan, MD, FAAN, FAHS

- Clinical Professor, Adult Neurology
- Clinical Professor (By courtesy), Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Stanford Headache Clinic at Hoover Pavilion**
211 Quarry Rd
MC 5992 2nd Fl
Stanford, CA 94305
Tel (650) 723-6469 **Fax** (650) 725-0390

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
Michelle Krzanich - Administrative Associate
Email mng2@stanford.edu
Tel 6507235184

Bio

BIO

Dr. Cowan is a neurologist with board certification in neurology, pain medicine, and headache medicine. He is a professor in the Stanford University School of Medicine Department of Neurology and Neurological Sciences and (by courtesy) in the Department of Anesthesiology, Perioperative & Pain Medicine. He is Director of Headache Research and holds the endowed position of the Betty Higgins Family Foundation Directorship in Headache Research.

Dr. Cowan has held several nationally elected positions, including chair of the sections on Chronic Daily Headache and In-office Patient Education for the American Headache Society. He is past president of the Headache Cooperative of the Pacific and a fellow of the American Academy of Neurology and the American Headache Society. He has served on the boards of the Alliance for Headache Diseases Advocacy, the Headache Cooperative of the Pacific, the American Headache and Migraine Association, and the American Council for Headache Education.

His research focuses on advancing the understanding of chronic daily headache. He has received grants to support his research from the National Institutes of Health, foundations, and industry, as well as private grants and gifts.

Dr. Cowan is widely published in peer-reviewed journals, including Headache and Neurology. He reviews articles for Headache and other publications and is an editor for Headache Currents. He has authored the book The Keeler Migraine Method and Chronic Daily Headache, as well as multiple textbook chapters.

He has presented his work at meetings of the American Academy of Neurology and International Headache Society, and other organizations, and lectures both nationally and internationally on diverse headache topics. He has appeared on network television and been featured in articles in publications ranging from the San Francisco Chronicle and New York Times to Vogue Magazine.

Dr. Cowan educates the headache specialists of the future as a professor in the School of Medicine, as a senior fellow in the Stanford Center for Innovation in Global Health, and as a mentor for the American Brain Foundation.

He is a member of the American Headache Society, American Academy of Neurology, and Headache Cooperative of the Pacific.

He has volunteered his time and expertise to serve the Alliance for Patient Access, Veterans Administration, and community health programs.

CLINICAL FOCUS

- Headache Medicine
- Pain Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Adult Neurology
- Clinical Professor (By courtesy), Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Director of Headache Research, Stanford University School of Medicine, (2022- present)
- Betty Higgins Family Foundation Director, Neurology, (2017- present)
- Chair, Refractory Headache Special Interest Section, American Headache Society, American Headache Society, (2012-2016)
- President, Headache Cooperative of the Pacific, (2012-2016)
- Director, Stanford Headache Program, Stanford University School of Medicine, (2011-2022)
- Vice President, Headache Cooperative of the Pacific, (2007-2012)
- Program Director, Headache Cooperative of the Pacific, (2007-2011)

HONORS AND AWARDS

- Magna Cum Laude, Clark University, Worcester, Massachusetts (1972)
- Woodrow Wilson Scholar, Clark University, Worcester, Massachusetts (1972)
- Chief Resident, LAC/USC, Los Angeles, California (1989)
- Fellow, American Academy of Neurology (2006)
- Fellow, American Headache Society (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Board of Directors, Alliance for Headache Disorders Advocacy (2009 - present)
- Member, Board of Directors, Headache Cooperative of the Pacific (2007 - present)
- Member, Advisory Committee, NCAA Select committee on headache in collegiate athletes (2013 - present)
- Member,, American Headache Society (1995 - present)
- Member, American Academy of Neurology (1990 - present)
- Member, International Headache Society (2010 - present)

PROFESSIONAL EDUCATION

- Residency: University of Southern CA Los Angeles Medical Center Neurology Residency (1990) CA
- Medical Education: University of Southern California Keck School of Medicine (1986) CA
- Internship: LACplusUSC Medical Center Internal Medicine Residency (1987) CA

- Board Certification: Neurology, American Board of Psychiatry and Neurology (1994)
- Board Certification, Unified Council of Neurologic Subspecialties , Headache Medicine (2008)
- Board Certification, American Academy of Pain Medicine (2000)

COMMUNITY AND INTERNATIONAL WORK

- AHDA
- AHMA

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Current interest focus on patient education technology and patient/physician communication with a particular emphasis on tools which increase encounter efficiency and improve outcomes. Basic research focuses on mechanisms of action in Chronic Daily Headache, with a particular emphasis on New Daily Persistent Headache. Techniques include fMRI, biomarker investigation and evoked potentials. Clinical research includes clinical trials of novel treatments for episodic and chronic headache forms.

CLINICAL TRIALS

- Analysis of Headache Chronification with Imaging, Deep Phenotyping, and Proteomics, Recruiting

PROJECTS

- Chronic Daily Headache Project - SunStar Foundation (8/15/2013)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Study participant impression of use and satisfaction with STS101 (dihydroergotamine nasal powder): Results from the open-label ASCEND acute migraine study.** *Headache*
Ailani, J., Charleston, L., Strom, S., Albrecht, D., Cowan, R.
2025
- **A Novel Approach to Migraine Classification to Improve Clinical Outcome**
Babaei, M., Sridhar, J., Sanjanwala, B., De Souza, D., Cowan, R.
SAGE PUBLICATIONS LTD.2025: 165-166
- **AI Agents outperform large language models in making headache diagnoses from free text**
Blythe, J., Chawla, V., Cowan, R., Rapoport, A.
SAGE PUBLICATIONS LTD.2025: 104
- **Assessing traditional medicine in the treatment of neurological disorders in Mali: prelude to efficient collaboration.** *BMC complementary medicine and therapies*
Maiga, Y., Moskatel, L. S., Diallo, S. H., Sangho, O., Dolo, H., Konipo, F., Diallo, S., Coulibaly, A., Daou, M., Sangaré, M., Coulibaly, T., Sissoko, A., Landouré, et al

2024; 24 (1): 352

- **Deep and unbiased proteomics, pathway enrichment analysis, and protein-protein interaction of biomarker signatures in migraine.** *Therapeutic advances in chronic disease*
Woldeamanuel, Y. W., Sanjanwala, B. M., Cowan, R. P.
2024; 15: 20406223241274302
- **The burden of headache and a health-care needs assessment in the adult population of Mali: a cross-sectional population-based study.** *The journal of headache and pain*
Maiga, Y., Diallo, S. H., Sangho, O., Moskatel, L. S., Konipo, F., Bocoum, A., Diallo, S., Coulibaly, A., Daou, M., Dolo, H., Sangaré, M., Albakaye, M., Traoré, et al
2024; 25 (1): 107
- **Long-Term Epidural Patching Outcomes and Predictors of Benefit in Patients With Suspected CSF Leak Nonconforming to ICHD-3 Criteria.** *Neurology*
Carroll, I., Han, L., Zhang, N., Cowan, R. P., Lanzman, B., Hashmi, S., Barad, M. J., Peretz, A., Moskatel, L., Ogunlaja, O., Hah, J. M., Hindiyeh, N., Barch, et al
2024; 102 (12): e209449
- **Oxytocin Receptors on Calvarial Periosteal Innervation: Therapeutic Target for Post-Traumatic Headache?** *Pharmaceutics*
Bharadwaj, V. N., Klukinov, M., Cowan, R. P., Mahinparvar, N., Clark, D. J., Yeomans, D. C.
2024; 16 (6)
- **Diagnosis and Treatment of Spontaneous Intracranial Hypotension: Role of Epidural Blood Patching.** *Neurology. Clinical practice*
Callen, A. L., Friedman, D. I., Parikh, S., Rau, J. C., Schievink, W. I., Cutsforth-Gregory, J. K., Amrhein, T. J., Haight, E., Cowan, R. P., Barad, M. J., Hah, J. M., Jackson, T., Deline, et al
2024; 14 (3): e200290
- **Time It Right! The Application of Circadian Medicine Interventions for the Management of Migraine**
Woldeamanuel, Y. W., Palesh, O., Cowan, R. P.
WILEY.2023: S152
- **Significant reduction in migraine days with Remote Electrical Neuromodulation (REN) for migraine prevention: A double-blind randomized sham-controlled clinical trial**
Tepper, S., Rabany, L., Cowan, R., Smith, T., Grosberg, B., Torphy, B., Harris, D., Vizel, M., Ironi, A., Stark-Inbar, A., Garas, S., Blumenfeld, A.
LIPPINCOTT WILLIAMS & WILKINS.2023
- **A Telemedicine Platform to Increase Access to Migraine Care in Men**
Crystal, S., Mauskop, A., Rapoport, A., Cowan, R., Bain, P., Kiarashi, J., Murdoch, E., Cohen, A., Parikh, N.
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Asynchronous Telemedicine Platform Associated with Decreased Migraine-Related Emergency Room and Urgent Care Use**
Crystal, S., Mauskop, A., Rapoport, A., Cowan, R., Bain, P., Kiarashi, J., Murdoch, E., Cohen, A., Parikh, N.
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Preventive Treatment With Eptinezumab in Patients With a Dual Diagnosis of Chronic Migraine and Medication- Overuse Headache: Subgroup Analysis of PROMISE-2**
Marmura, M. J., Diener, H., Cowan, R. P., Starling, A. J., Hirman, J., Brevig, T., Cady, R.
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Remote electrical neuromodulation for migraine prevention: A double-blind, randomized, placebo-controlled clinical trial.** *Headache*
Tepper, S. J., Rabany, L., Cowan, R. P., Smith, T. R., Grosberg, B. M., Torphy, B. D., Harris, D., Vizel, M., Ironi, A., Stark-Inbar, A., Blumenfeld, A. M.
2023
- **Eptinezumab improved patient-reported outcomes in patients with migraine and medication-overuse headache: Subgroup analysis of the randomized PROMISE-2 trial.** *Headache*
Starling, A. J., Cowan, R. P., Buse, D. C., Diener, H. C., Marmura, M. J., Hirman, J., Brevig, T., Cady, R.
2023
- **Clinical benefits and economic cost-savings of remote electrical neuromodulation (REN) for migraine prevention.** *Journal of medical economics*
Cowan, R., Stark-Inbar, A., Rabany, L., Harris, D., Vizel, M., Ironi, A., Vieira, J. R., Galen, M., Treppendahl, C.

2023; 26 (1): 656-664

- **Quantity changes in acute headache medication use among patients with chronic migraine treated with eptinezumab: subanalysis of the PROMISE-2 study.** *The journal of headache and pain*
Cowan, R. P., Marmura, M. J., Diener, H., Starling, A. J., Schim, J., Hirman, J., Brevig, T., Cady, R.
2022; 23 (1): 115
- **Three Dimensions of Association Link Migraine Symptoms and Functional Connectivity.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Krimmel, S. R., DeSouza, D. D., Keaser, M. L., Sanjanwala, B. M., Cowan, R. P., Lindquist, M. A., Haythornthwaite, J. A., Seminowicz, D. A.
2022
- **Diagnostic accuracy of an artificial intelligence online engine in migraine: A multi-center study.** *Headache*
Cowan, R. P., Rapoport, A. M., Blythe, J., Rothrock, J., Kniewel, K., Peretz, A. M., Ekpo, E., Sanjanwala, B. M., Woldeamanuel, Y. W.
2022
- **Changes in Acute Headache Medication Use Among Patients With Chronic Migraine and Medication Overuse Headache: An Exploratory Analysis of PROMISE-2**
Cowan, R., Marmura, M. J., Diener, H., Starling, A. J., Schim, J., Hirman, J., Brevig, T., Cady, R.
LIPPINCOTT WILLIAMS & WILKINS.2022
- **PREDICTIVE ENRICHMENT TO IDENTIFY RESPONSE TO SLEEP INTERVENTION IN CANCER SURVIVORS WITH HEADACHE - A PRECISION MEDICINE STUDY**
Woldeamanuel, Y. W., Kushida, C. A., Kesler, S., Jo, B., Neri, E., Edwards, K. S., Gore-Felton, C., Blayney, D. W., Cowan, R. P., Palesh, O.
OXFORD UNIV PRESS INC.2022: S523
- **Computerized migraine diagnostic tools: a systematic review** *Therapeutic Advances in Chronic Disease.*
Woldeamanuel, Y. W., Cowan, R. P.
2022
- **Preventive migraine treatment with eptinezumab reduced acute headache medication and headache frequency to below diagnostic thresholds in patients with chronic migraine and medication-overuse headache.** *Headache*
Marmura, M. J., Diener, H., Cowan, R. P., Tepper, S. J., Diamond, M. L., Starling, A. J., Hirman, J., Mehta, L., Brevig, T., Cady, R.
2021
- **A new hypothesis linking oxytocin to menstrual migraine.** *Headache*
Bharadwaj, V. N., Porreca, F., Cowan, R. P., Kori, S., Silberstein, S. D., Yeomans, D. C.
2021
- **Understanding the Impact of Sex and Race on the Migraine Patient's Journey in the United States: Analyses From an Annual Cross-Sectional Patient Chart Audit**
Cowan, R., Stabb, M., Robinson, N., Schobel, V.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Altered Functional Network Connectivity in Chronic Migraine: a Replication-Extension Study**
DeSouza, D., Hindiyeh, N., Sanjanwala, B., Krimmel, S., Seminowicz, D., Cowan, R.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **A patient perspective of complementary and integrative medicine (CIM) for migraine treatment: a social media survey.** *BMC complementary medicine and therapies*
Kuruvilla, D. E., Mehta, A., Ravishankar, N., Cowan, R. P.
2021; 21 (1): 58
- **Evaluation of the 6-item Identify Chronic Migraine screener in a large medical group.** *Headache*
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Cowan, R. P., Dabbous, F., Pulicharam, R., Viswanathan, H. N., Lipton, R. B.
2021
- **Neuropathic pain in Mali: The current situation, comprehensive hypothesis, which therapeutic strategy for Africa?** *eNeurologicalSci*
Maiga, Y. n., Sangho, O. n., Konipo, F. n., Diallo, S. n., Coulibaly, S. D., Sangare, M. n., Péréon, Y. n., Giumelli, B. n., Sanou, M. n., Coulibaly, A. n., Diallo, S. n., Daou, M. n., Traoré, et al
2021; 22: 100312

- **Plasma Lipolysis and Changes in Plasma and Cerebrospinal Fluid Signaling Lipids Reveal Abnormal Lipid Metabolism in Chronic Migraine.** *Frontiers in molecular neuroscience*
Castor, K., Dawlaty, J., Arakaki, X., Gross, N., Woldeamanuel, Y. W., Harrington, M. G., Cowan, R. P., Fonteh, A. N.
2021; 14: 691733
- **Evidence that blood-CSF barrier transport, but not inflammatory biomarkers, change in migraine, while CSF sVCAM1 associates with migraine frequency and CSF fibrinogen.** *Headache*
Cowan, R. P., Gross, N. B., Sweeney, M. D., Sagare, A. P., Montagne, A. n., Arakaki, X. n., Fonteh, A. N., Zlokovic, B. V., Pogoda, J. M., Harrington, M. G.
2021
- **Efficacy, tolerability, and safety of eptinezumab in patients with a dual diagnosis of chronic migraine and medication-overuse headache: Subgroup analysis of PROMISE-2.** *Headache*
Diener, H., Marmura, M. J., Tepper, S. J., Cowan, R., Starling, A. J., Diamond, M. L., Hirman, J., Mehta, L., Brevig, T., Sperling, B., Cady, R.
2020
- **Estimating the Economic Burden of Migraine on US Employers** *AMERICAN JOURNAL OF MANAGED CARE*
Yucel, A., Thach, A., Kumar, S., Loden, C., Bensink, M., Goldfarb, N., Cowan, R.
2020; 26 (12): E403-+
- **Reimagining Headache Fellowships.** *Headache*
Zhang, N., Chan, T. L., Cowan, R.
2020
- **Improvements across a range of patient-reported domains with fremanezumab treatment: results from a patient survey study.** *The journal of headache and pain*
Buse, D. C., Gandhi, S. K., Cohen, J. M., Ramirez-Campos, V., Cloud, B., Yang, R., Cowan, R. P.
2020; 21 (1): 109
- **Endogenous glucocorticoids may serve as biomarkers for migraine chronification.** *Therapeutic advances in chronic disease*
Woldeamanuel, Y. W., Sanjanwala, B. M., Cowan, R. P.
2020; 11: 2040622320939793
- **Insights into chronic migraine pathophysiology - what measures of gray matter reveal.** *Cephalalgia : an international journal of headache*
DeSouza, D. D., Cowan, R. P.
2020: 333102420933263
- **Calcitonin Gene-Related Peptide Receptor Antagonists (Gepants) for the Acute Treatment of Nausea in Episodic Migraine: A Systematic Review and Meta-Analysis.** *Headache*
Chan, T. L., Cowan, R. P., Woldeamanuel, Y. W.
2020
- **Cerebrospinal Fluid Leak in the context of Pars Interarticularis Fracture: A Case Series**
Chan, L., Cowan, R., Hindiyeh, N., Hashmi, S., Lanzman, B., Carroll, I.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Patient Preference for Dosing Regimen and Perception of Dosing Flexibility With Fremanezumab for Migraine: Results From a Patient Survey Following Completion of a 1-Year Extension Study**
Cowan, R. P., Gandhi, S. K., Cloud, B., Cohen, J. M., Buse, D. C., Ramirez-Campos, V., Ahn, A. H., Lipton, R. B.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **ACEP Guidelines on Acute Nontraumatic Headache Diagnosis and Management in the Emergency Department, Commentary on Behalf of the Refractory, Inpatient, Emergency Care Section of the American Headache Society.** *Headache*
Peretz, A. n., Dujari, S. n., Cowan, R. n., Minen, M. n.
2020
- **Moving the Needle: Desiloing the Stakeholders in the Headache Space.** *Headache*
Cowan, R. P.
2020; 60 (9): 2041
- **Endogenous glucocorticoids may serve as biomarkers for migraine chronification** *Therapeutic Advances in Chronic Disease*

- Woldeamanuel, Y. W., Sanjanwala, B. M., Cowan, R. P.
2020; 11
- **Electrophysiology and Structural Connectivity of the Posterior Hypothalamic Region: Much to Learn From a Rare Indication of Deep Brain Stimulation.** *Frontiers in human neuroscience*
Kakusa, B. n., Saluja, S. n., Dadey, D. Y., Barbosa, D. A., Gattas, S. n., Miller, K. J., Cowan, R. P., Kouyoumdjian, Z. n., Pouratian, N. n., Halpern, C. H.
2020; 14: 164
 - **Spinal cerebrospinal fluid leak in the context of pars interarticularis fracture.** *BMC neurology*
Chan, T. L., Cowan, R. n., Hindiyyeh, N. n., Hashmi, S. n., Lanzman, B. n., Carroll, I. n.
2020; 20 (1): 162
 - **Exploring Natural Clusters of Chronic Migraine Phenotypes: A Cross-Sectional Clinical Study.** *Scientific reports*
Woldeamanuel, Y. W., Sanjanwala, B. M., Peretz, A. M., Cowan, R. P.
2020; 10 (1): 2804
 - **Patient preference for and satisfaction with fremanezumab following completion of a 1-year extension study**
Cowan, R. P., Gandhi, S. K., Cohen, J. M., Cloud, B., Buse, D. C., Ramirez-Campos, V., Ahn, A. H., Lipton, R. B.
SAGE PUBLICATIONS LTD.2019: 264–65
 - **Evaluation of the 6-Item Identify Chronic Migraine (ID-CM) Screener in a Large Medical Group**
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Kawahara, S. H., Cowan, R. P., Dabbous, F., Campbell, K. L., Pulicharam, R., Viswanathan, H. N., Lipton, R. B.
SAGE PUBLICATIONS LTD.2019: 283–84
 - **Patient preference for dosing regimen and perception of dosing flexibility with fremanezumab for migraine: results from a patient survey following completion of a 1-year extension study**
Cowan, R. P., Gandhi, S. K., Cloud, B., Cohen, J. M., Buse, D. C., Ramirez-Campos, V., Ahn, A. H., Lipton, R. B.
SAGE PUBLICATIONS LTD.2019: 263–64
 - **Evaluation of the 6-Item Identify Chronic Migraine (ID-CM) Screener in a Large Medical Group**
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Kawahara, S. H., Cowan, R. P., Dabbous, F., Campbell, K. L., Pulicharam, R., Viswanathan, H. N., Lipton, R. B.
SAGE PUBLICATIONS LTD.2019: 283–84
 - **Patient preference for dosing regimen and perception of dosing flexibility with fremanezumab for migraine: results from a patient survey following completion of a 1-year extension study**
Cowan, R. P., Gandhi, S. K., Cloud, B., Cohen, J. M., Buse, D. C., Ramirez-Campos, V., Ahn, A. H., Lipton, R. B.
SAGE PUBLICATIONS LTD.2019: 263–64
 - **Remote electrical neuromodulation (REN) in the acute treatment of migraine: a comparison with usual care and acute migraine medications.** *The journal of headache and pain*
Rapoport, A. M., Bonner, J. H., Lin, T., Harris, D., Gruper, Y., Ironi, A., Cowan, R. P.
2019; 20 (1): 83
 - **Deep Brain Stimulation for Chronic Cluster Headache: A Review** *NEUROMODULATION*
Vyas, D. B., Ho, A. L., Dadey, D. Y., Pendharkar, A. V., Sussman, E. S., Cowan, R., Halpern, C. H.
2019; 22 (4): 388–97
 - **Subarachnoid Hemorrhage and Headache.** *Current pain and headache reports*
Ogunlaja, O. I., Cowan, R.
2019; 23 (6): 44
 - **Physician and patient preferences for dosing options in migraine prevention** *JOURNAL OF HEADACHE AND PAIN*
Cowan, R., Cohen, J. M., Rosenman, E., Iyer, R.
2019; 20
 - **Altered Permeability Blood-CSF of Barriers in Migraine**
Cowan, R., Sweeney, M., Sagare, A., Ekpo, E., Sanjanwala, B., Gross, N., Arakaki, X., Fonteh, A., Zlokovic, B., Harrington, M.
LIPPINCOTT WILLIAMS & WILKINS.2019

- **The Impact of Offering Monthly and Quarterly Dosing Options for a New Class of Migraine Preventive Therapy on Likelihood of Acceptance and Adherence in Adults With Migraine**
Cowan, R., Cohen, J., Rosenman, E., Iyer, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Exploring Natural Cohorts of Chronic Migraine Phenotype**
Woldeamanuel, Y., Sanjanwala, B., Peretz, A., Cowan, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Toward a Philosophy of Migraine HEADACHE**
Cowan, R. P.
2019; 59 (4): 481–83
- **Development of a claims-based algorithm to identify potentially undiagnosed chronic migraine patients CEPHALALGIA**
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Kawahara, S. H., Cowan, R. P., Dabbous, F., Campbell, K. L., Shewale, A. R., Pulicharam, R., Kowalski, J. W., Viswanathan, H. N., Lipton, et al
2019; 39 (4): 465-476
- **Toward a Philosophy of Migraine. Headache**
Cowan, R. P.
2019; 59 (4): 481–83
- **Development of a claims-based algorithm to identify potentially undiagnosed chronic migraine patients. Cephalgia : an international journal of headache**
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Kawahara, S. H., Cowan, R. P., Dabbous, F., Campbell, K. L., Shewale, A. R., Pulicharam, R., Kowalski, J. W., Viswanathan, H. N., Lipton, et al
2019: 333102418825373
- **Clinical Features Contributing to Cortical Thickness Changes in Chronic Migraine - A Pilot Study HEADACHE**
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
2019; 59 (2): 180–91
- **Altered structural brain network topology in chronic migraine. Brain structure & function**
DeSouza, D. D., Woldeamanuel, Y. W., Sanjanwala, B. M., Bissell, D. A., Bishop, J. H., Peretz, A. n., Cowan, R. P.
2019
- **On Making a Headache Medicine Rotation Mandatory in Neurology Training. Headache**
Zhang, N. n., Cowan, R. P.
2019
- **Endogenous Na⁺, K⁺-ATPase inhibitors and CSF [Na⁺] contribute to migraine formation. PloS one**
Gross, N. B., Abad, N. n., Lichtstein, D. n., Taron, S. n., Aparicio, L. n., Fonteh, A. N., Arakaki, X. n., Cowan, R. P., Grant, S. C., Harrington, M. G.
2019; 14 (6): e0218041
- **Physician and patient preferences for dosing options in migraine prevention. The journal of headache and pain**
Cowan, R. n., Cohen, J. M., Rosenman, E. n., Iyer, R. n.
2019; 20 (1): 50
- **The impact of offering monthly and quarterly dosing options for a new class of migraine preventive therapy on likelihood of acceptance and adherence in adults with migraine (vol 19, pg P137, 2018) JOURNAL OF HEADACHE AND PAIN**
Cowan, R., Cohen, J., Rosenman, E., Fitzgerald, T., Iyer, R.
2018; 19
- **The Future of Migraine Prevention HEADACHE**
Cowan, R. P.
2018; 58: 291–97
- **The Future of Migraine Prevention. Headache**
Cowan, R. P.
2018

- **Deep Brain Stimulation for Chronic Cluster Headache: A Review.** *Neuromodulation : journal of the International Neuromodulation Society*
Vyas, D. B., Ho, A. L., Dadey, D. Y., Pendharkar, A. V., Sussman, E. S., Cowan, R., Halpern, C. H.
2018
- **Obesity-Related Cortical Thickness Changes in Chronic Migraine**
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
WILEY.2018: S83
- **American Headache Society Survey About Urgent and Emergency Management of Headache Patients** *HEADACHE*
Minen, M. T., Ortega, E., Lipton, R. B., Cowan, R.
2018; 58 (9): 1389–96
- **The impact on physician prescribing of monthly and quarterly dosing options for a new class of migraine preventive therapy**
Cowan, R., Rosenman, E., Fitzgerald, T., Cohen, J., Iyer, R.
SPRINGEROPEN.2018
- **Evaluation of the 6-Item Identify Chronic Migraine (ID-CM) Screener in a Large Medical Group**
Pavlovic, J. M., Yu, J. S., Silberstein, S. D., Reed, M. L., Kawahara, S. H., Cowan, R. P., Dabbous, F., Campbell, K. L., Pulicharam, R., Viswanathan, H. N., Lipton, R. B.
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- **The impact of offering monthly and quarterly dosing options for a new class of migraine preventive therapy on likelihood of acceptance and adherence in adults with migraine**
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