



Yohannes Woldeamanuel

Basic Life Res Scientist, Neurology

Bio

BIO

Dr. Yohannes W. Woldeamanuel M.D. is a translational physician scientist, currently Instructor at Department of Neurology and Neurological Sciences and Senior Fellow at the Center for Innovation in Global Health, Stanford University School of Medicine. He obtained his M.D. from Addis Abeba University Medical Faculty in 2007. Following graduation, Dr. Woldeamanuel was Head of Department of Anatomy, Histology, Embryology at Jimma University School of Medicine where he successfully instructed medical students and other health profession disciplines for a year and a half. Afterwards, he did Clinical Neurology residency training at Addis Abeba University Medical Faculty combined with Basic Science and Clinical Research Fellowships concentrating in the areas of Neuroinfectious Diseases, Neuropathic Pain, Epilepsy, and Neuroepidemiology at Karolinska Institutet - Sweden, Albert Einstein College of Medicine - USA, University of Heidelberg - Germany, and Imperial College London - UK. He completed his Postdoctoral Fellowship in Headache Medicine at the Stanford Headache Program. He is Awardee of several prestigious Fellowships, namely, the International Brain Research Organization (IBRO) John G. Nicholls 2012, International Association for the Study of Pain (IASP) Scan|Design Foundation 2010, European Neurological Society (ENS) 2011, and International Headache Society (IHS) 2014. He also has vested interest and expertise in Digital Health as shown by his recent developments of clinically-validated self-management apps for neuropathy (CHANT) and migraine. He has strong track record of publishing many peer-reviewed first-authored articles in several high impact medical journals including The Lancet Oncology, Neurology, Pain, Journal of Neurology, Cephalalgia, and Journal of Neurological Sciences. He has been awarded the 2016 Emerging Leader in Global Health Innovation Award, Consortium of Universities for Global Health from Drs. Anvar and Pari Velji Family Foundation based on his leading role in the development, validation, and field-testing of a clinical instrument for the diagnosis of sensory neuropathy and neuropathic pain (Clinical HIV-Associated Neuropathy Tool or CHANT (Woldeamanuel et al., 2016)). He currently serves as the academic editor for Frontiers in Neurology, BMC Neurology, and BioMed Research International and regularly peer reviews for journals such as Neurology, JNNP, Cephalalgia, Headache. He is an invited editorial board member for the highest impact factor headache journal - The Journal of Headache & Pain. He has received the Publons Peer Review Award for 2017-18 as the Top 1% Reviewer on Publons Global Reviewers Database. He is ranked 3rd among headache and migraine experts from Stanford (see Expertscape rankings at https://expertscape.com/ex/migraine+headache/i/stanford_university). He is the first to receive NINDS/NIH award (K01) for headache research at Stanford. He is a certified Quantitative Sensory Testing investigator in accordance with the world-renowned German Research Network on Neuropathic Pain. He is an elected Member of the Juniors Special Interest Group at the International Headache Society since 2015. Dr. Woldeamanuel consults for his clinic in Addis Abeba, Advanced Clinical & Research Center, where he provides his expertise to neurological and general medical patients.

HONORS AND AWARDS

- Feasibility, Acceptability, and Pilot Testing of a Behavioral Intervention for Chronic Migraine, National Institute of Neurological Disorders & Stroke (2021-2026)
- Efficacy of Brief Behavioral Therapy for Cancer-Related Insomnia in Reducing Headache Burden, National Cancer Institute (National Institutes of Health) (2021-2023)
- 3rd ranked Expert in Migraine and Headache Disorders at Stanford, Expertscape. https://expertscape.com/ex/migraine+headache/i/stanford_university (2019, 2020)
- The Publons Peer Review Award: Top 1% Reviewer on Publons Global Reviewers Database, Publons (2018)

- Emerging Leader in Global Health, Innovation Award 2016, Consortium of Universities for Global Health & The Velji Family Foundation (2016)
- International Headache Society (IHS), International Headache Society (IHS) (2014)
- John G. Nicholls Fellowship, International Brain Research Organization (IBRO) (2012)
- European Neurological Society (ENS) Fellowship, European Neurological Society (ENS) (2011)
- International Association for the Study of Pain (IASP) Scan|Design Foundation, International Association for the Study of Pain (IASP) Scan|Design Foundation (2010)

PROJECTS

- Development of Digital Tool for Regular Lifestyle Behavior in Migraine Self-management
- Clinical, Biomarker, Neuroimaging Understanding of Chronic Migraine - Stanford University
- Central Autonomic Symptoms among Primary Headache Disorders - a Cross-Sectional Clinical Study
- Efficacy of Gepants for Nausea Treatment in Episodic Migraine - Stanford University
- Medication Overuse Headache in Chronic Migraine Patients Using Cannabis - Stanford University
- Deep Phenotype Clinical Study on Post-Traumatic Headache - Stanford University
- Studying the Association between Migraine and Complex Regional Pain Syndrome - a Cross-Sectional Clinical Study
- Global Clinico-epidemiologic Study on Measuring the Burden of Migraine Headache - Stanford University
- Nationwide Cancer Burden Assessment in Ethiopia
- Case-Fatality of Adult Tetanus in Africa - Systematic Review and Meta-Analysis
- Headaches Secondary to Infections - Book Chapter
- Digit Skin Wrinkling in Distal Peripheral Neuropathy: Early Diagnostic Tool - University of Heidelberg in Mannheim; Stanford University; Addis Ababa University
- Physical Inactivity in Africa: Burden from Community-based Studies in Africa - Stanford University
- CHANT - Clinical HIV-Associated Neuropathy Tool

LINKS

- My Lab Site: https://www.researchgate.net/profile/Yohannes_Woldeamanuel2
- My Interview with MDLinx, June 10, 2016: <http://www.mdlinx.com/pediatrics/conference-interview/article/541>
- My interview with MedPage, Oct 17, 2016: <http://www.medpagetoday.com/clinical-context/migraines/60955>

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Ad Hoc Reviewer, Neurology; Headache; JNNP; Journal of Headache and Pain; Cephalalgia; Journal of Neurology (2016 - present)
- Editorial Board Member, The Journal of Headache and Pain (2021 - present)
- Associate Editor, BMC Neurology (2019 - present)
- Associate Editor, Frontiers in Neurology: Headache Medicine and Facial Pain (2016 - present)
- Academic Editor, BioMed Research International (2020 - present)
- Member, American Academy of Neurology (AAN) (2014 - present)
- Juniors Special Interest Group Committee Member, International Headache Society (IHS) (2016 - present)
- Senior Fellow, Center for Innovation in Global Health (CIGH) (2015 - present)
- Member, Society of Neuroscientists in Africa (SONA) (2012 - present)
- Affiliated Member, Stanford Center for Population Health Sciences (2015 - present)
- Reviewer, Stanford Center for Innovation in Global Health Medical Student Admissions (2020 - present)

Publications

PUBLICATIONS

- **What is the efficacy of aerobic exercise versus strength training in the treatment of migraine? A systematic review and network meta-analysis of clinical trials.** *The journal of headache and pain*
Woldeamanuel, Y. W., Oliveira, A. B.
2022; 23 (1): 134
- **Editorial: Lifestyle modifications to manage migraine.** *Frontiers in neurology*
Woldeamanuel, Y. W., Shrivastava, S., Vila-Pueyo, M.
2022; 13: 966424
- **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
- **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
- **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.
2018
- **Migraine affects 1 in 10 people worldwide featuring recent rise: A systematic review and meta-analysis of community-based studies involving 6 million participants** *Journal of the Neurological Sciences*
Woldeamanuel, Y. W., Cowan, R. P.
2017; 372: 307-315
- **Migraine and Complex Regional Pain Syndrome: A Case-Referent Clinical Study.** *BioMed research international*
Woldeamanuel, Y. W., Cooley, C. n., Foley-Saldana, K. n., Cowan, R. P.
2017; 2017: 5714673
- **Headache in Resource-Limited Settings.** *Current pain and headache reports*
Woldeamanuel, Y. W.
2017; 21 (12): 51
- **Development, Validation, and Field-Testing of an Instrument for Clinical Assessment of HIV-Associated Neuropathy and Neuropathic Pain in Resource-Restricted and Large Population Study Settings** *PLOS ONE*
Woldeamanuel, Y. W., Kamerman, P. R., Veliotes, D. G., Phillips, T. J., Asboe, D., Boffito, M., Rice, A. S.
2016; 11 (10)
- **The impact of regular lifestyle behavior in migraine: a prevalence case-referent study** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Cowan, R. P.
2016; 263 (4): 669-676
- **The place of corticosteroids in migraine attack management: A 65-year systematic review with pooled analysis and critical appraisal.** *Cephalalgia*
Woldeamanuel, Y. W., Rapoport, A. M., COWAN, R. P.
2015; 35 (11): 996-1024
- **Prevalence of migraine headache and its weight on neurological burden in Africa: a 43-year systematic review and meta-analysis of community-based studies.** *Journal of the neurological sciences*
Woldeamanuel, Y. W., Andreou, A. P., Cowan, R. P.
2014; 342 (1-2): 1-15
- **A 22-year-old Male Farmer from Rural Ethiopia with Difficulty Walking** *CLINICAL CASES IN TROPICAL MEDICINE. Manson's Tropical Diseases, 23rd Edition (ISBN: 978-0-7020-5101-2)*
Woldeamanuel, Y. W.
edited by Rothe, C.

Elsevier Science Health Science div.2014; 1st Edition: 261–265

- **Cancer in Ethiopia** *LANCET ONCOLOGY*
Woldeamanuel, Y. W., Girma, B., Teklu, A. M.
2013; 14 (4): 289-290
- **Tetanus in Ethiopia: Unveiling the Blight of an Entirely Vaccine-Preventable Disease** *CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS*
Woldeamanuel, Y. W.
2012; 12 (6): 655-665
- **Neurolathyrism: two Ethiopian case reports and review of the literature** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Hassan, A., Zenebe, G.
2012; 259 (7): 1263-1268
- **Expression profile of neuropeptide Y, its receptors and its role in seizures on mouse models of toxoplasmosis and African trypanosomiasis** *22nd Meeting of the European-Neurological-Society*
Woldeamanuel, Y. W.
SPRINGER HEIDELBERG.2012: S54–S55
- **Case Study: Watch for Tuberculous Encephalopathy in Endemic Areas** *WORLD NEUROLOGY*
Gebremichael, S. G., Adeb, M. D., Woldeamanuel, Y. W.
2009; 24 (6): 12
- **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., Knivel, K., Peretz, A. M., Ekpo, E., Sanjanwala, B. M., Woldeamanuel, Y. W.
2022
- **Association of illness mindsets with health-related quality of life in cancer survivors.** *Health psychology : official journal of the Division of Health Psychology, American Psychological Association*
Zeidman, A., Benedict, C., Zion, S. R., Fisher, S., Tolby, L., Kurian, A. W., Berek, J. S., Woldeamanuel, Y. W., Schapira, L., Palesh, O.
2022; 41 (6): 389-395
- **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
- **Medication overuse headache in patients with chronic migraine using cannabis: A case-referent study.** *Headache*
Zhang, N., Woldeamanuel, Y. W.
2021
- **Headache outcomes of a sleep behavioral intervention in breast cancer survivors: Secondary analysis of a randomized clinical trial.** *Cancer*
Woldeamanuel, Y. W., Blayney, D. W., Jo, B., Fisher, S. E., Benedict, C., Oakley-Girvan, I., Kesler, S. R., Palesh, O.
2021
- **Variable Diagnostic Performance of Stool Xpert in Pediatric Tuberculosis: A Systematic Review and Meta-analysis.** *Open forum infectious diseases*
Gebre, M., Cameron, L. H., Tadesse, G., Woldeamanuel, Y., Wassie, L.
2021; 8 (8): ofaa627
- **EFFICACY OF BRIEF BEHAVIORAL THERAPY FOR HEADACHE MANAGEMENT IN BREAST CANCER PATIENTS RECEIVING CHEMOTHERAPY**
Woldeamanuel, Y., Blayney, D. W., Jo, B., Fisher, S., Benedict, C., Kesler, S., Oakley-Girvan, I., Palesh, O.
OXFORD UNIV PRESS INC.2021: S182
- **ILLNESS MINDSETS, DEMOGRAPHIC AND MEDICAL FACTORS, AND HEALTH-RELATED QUALITY OF LIFE IN BREAST & GYNECOLOGIC CANCER SURVIVORS**
Zeidman, A., Benedict, C., Tolby, L., Zion, S., Fisher, S., Kurian, A. W., Berek, J. S., Woldeamanuel, Y., Schapira, L., Palesh, O.

OXFORD UNIV PRESS INC.2021: S266

- **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
- **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
- **Clinical Predictors associated with Persistent versus Acute Post-Traumatic Headache**
Chan, L., Woldeamanuel, Y.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Exploring naturally occurring clinical subgroups of post-traumatic headache.** *The journal of headache and pain*
Chan, T. L., Woldeamanuel, Y. W.
2020; 21 (1): 12
- **Plasma lipid metabolism exemplifies the interoceptive nature of chronic migraine.** *Experimental Biology 2020 Meeting*
Fonteh, A. N., Castor, K., Arakaki, X., Woldeamanuel, Y. W., Cowan, R., Harrington, M.
2020
- **Endogenous Glucocorticoids may be Potential Biomarkers for Migraine Chronification**
Woldeamanuel, Y. W., Sanjanwala, B. M., Cowan, R. P.
SAGE PUBLICATIONS LTD.2019: 379–80
- **Aberrant Structural Network Architecture in Chronic Migraine**
DeSouza, D. D., Woldeamanuel, Y. W., Sanjanwala, B. M., Bissell, D., Bishop, J. H., Cowan, R. P.
SAGE PUBLICATIONS LTD.2019: 392
- **Exploring Natural Cohorts of Chronic Migraine Phenotype**
Woldeamanuel, Y., Sanjanwala, B., Peretz, A., Cowan, R.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **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
- **Importance of Controlling for Comorbidities in Migraine Association Studies.** *Pain medicine (Malden, Mass.)*
Woldeamanuel, Y. W.
2019
- **Obesity-Related Cortical Thickness Changes in Chronic Migraine**
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
WILEY.2018: S83
- **Age-related Cortical Thickness Changes in Chronic Migraine**
Woldeamanuel, Y. W., DeSouza, D. D., Sanjanwala, B. M., Cowan, R. P.
WILEY.2018: 1292
- **Altered Permeability Of The Blood-CSF Barrier In Chronic Migraine**
Gross, N. B., Sweeney, M., Sagare, A., Zlokovic, B., Castor, K., Fonteh, A. N., Arakaki, X., Woldeamanuel, Y. W., Cowan, R. P., Harrington, M. G.
FEDERATION AMER SOC EXP BIOL.2018
- **Dysfunctional Plasma Lipid Metabolism Contributes to Chronic Migraine Pathology** *Experimental Biology 2018 Meeting*
Fonteh, A. N., Castor, K., Kershaw, K., Im, E. J., Dawlaty, J., Gross, N., Arakaki, X., Woldeamanuel, Y., Harrington, M., Cowan, R.
2018: 767.14–767.14
- **Headache Due to Infections and Disorders of Homeostasis** *Modern Day Management of Headache: Questions and Answers*

- Woldeamanuel, Y. W.
Jaypee Brothers Medical Publishers (P) Ltd. .2017 ; 1st: 291–301
- **Headache Secondary to Nonvascular Intracranial Disorders** *Modern Day Management of Headache: Questions and Answers*
Woldeamanuel, Y. W.
Jaypee Brothers Medical Publishers (P) Ltd..2017; 1st : 280–290
 - **Journal Club: Change in brain network connectivity during PACAP38-induced migraine attacks.** *Neurology*
DeSouza, D. D., O'Hare, M., Woldeamanuel, Y. W., Cowan, R. P.
2016; 87 (16): e199-e202
 - **Journal Club: Exacerbation of headache during dihydroergotamine for chronic migraine does not alter outcome.** *Neurology*
Woldeamanuel, Y. W., O'Hare, M., DeSouza, D. D., Cowan, R. P.
2016; 87 (16): e196-e198
 - **Case fatality of adult tetanus in Africa: Systematic review and meta-analysis.** *Journal of the neurological sciences*
Woldeamanuel, Y. W., Andemeskel, A. T., Kyei, K., Woldeamanuel, M. W., Woldeamanuel, W.
2016; 368: 292-299
 - **Indomethacin Responsive Headaches: Exhaustive Systematic Review With Pooled Analysis and Critical Appraisal of 81 Published Clinical Studies** *HEADACHE*
Bordini, E. C., Bordini, C. A., Woldeamanuel, Y. W., Rapoport, A. M.
2016; 56 (2): 422-435
 - **Spontaneous extracranial hemorrhagic phenomena in primary headache disorders: A systematic review of published cases.** *Cephalalgia*
Peretz, A. M., Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2015
 - **Primary Headaches as a Cause of Non-traumatic Ecchymosis: a 120-Year Systematic Review and Pooled Analysis of Published Case Studies** *American Academy of Neurology, 67th Annual Meeting*
Peretz, A., Woldeamanuel, Y., Cowan, R.
2015
 - **The Impact of Regular Lifestyle Behaviour in Migraine: a Prevalence Case-Referent Study from a Quaternary Headache Clinical Centre.** *International Headache Congress*
Woldeamanuel, Y. W., Cowan, R. P.
2015
 - **What is the evidence for the use of corticosteroids in migraine?** *Current pain and headache reports*
Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2014; 18 (12): 464
 - **Sensory, psychological, and metabolic dysfunction in HIV-associated peripheral neuropathy: A cross-sectional deep profiling study** *PAIN*
Phillips, T. J., Brown, M., Ramirez, J. D., Perkins, J., Woldeamanuel, Y. W., Williams, A. C., Orengo, C., Bennett, D. L., Bodi, I., Cox, S., Maier, C., Krumova, E. K., Rice, et al
2014; 155 (9): 1846-1860
 - **Contributing towards the betterment of translational epilepsy research in Africa: needs, challenges, resources, and opportunities.** *Current neurology and neuroscience reports*
Woldeamanuel, Y. W., Girma, B.
2014; 14 (8): 480-?
 - **A 43-year systematic review and meta-analysis: case-fatality and risk of death among adults with tuberculous meningitis in Africa** *JOURNAL OF NEUROLOGY*
Woldeamanuel, Y. W., Girma, B.
2014; 261 (5): 851-865
 - **The Socioeconomic and Neurological Burden of Neurolepsy in Ethiopia - the saga continues** *Cassava Cyanide Diseases and Neurolepsy Network News*
Woldeamanuel, Y. W.
2014: 3-6

- **EHMTI-0318. The place of corticosteroids in migraine attack management: systematic review and critical appraisal** *Abstracts from the 4th European Headache and Migraine Trust International Congress: EHMTIC 2014*
Woldeamanuel, Y. W., Rapoport, A. M., Cowan, R. P.
2014: G42
- **Tetanus Weighs on Neurological Burden in Ethiopia** *WORLD NEUROLOGY*
Woldeamanuel, Y. W., Hassan, A.
2010; 25 (5): 14

PRESENTATIONS

- Burden of Headache in Africa and Emerging Challenges - The First Turkish African Meeting of Headache and Pain Management – under the auspices of the International Headache Society. (May 3, 2015)
- Global Migraine Epidemiology: Systematic Review and Meta-analysis of 302 Community-based and Non-clinical Studies Involving 6 million Participants - American Headache Society (AHS) 58th Annual Scientific Meeting (June 9, 2016)
- The Place of Corticosteroids in Migraine Attack Management: a 65-year Systematic Review with Pooled Analysis and Critical Appraisal - American Academy of Neurology 67th Annual Meeting (April 22, 2015)
- Expression profile of Neuropeptide Y, its receptors and its role in seizures in mouse models of toxoplasmosis and African trypanosomiasis.' - 22nd Meeting of the European Neurological Society (ENS) (June 11, 2012)
- Age-related Cortical Thickness Changes in Chronic Migraine - 60th Annual Scientific Meeting of the American Headache Society (9/1/2018)
- Obesity-Related Cortical Thickness Changes in Chronic Migraine. - 143rd Annual Meeting of the American Neurological Association (ANA) (October 21, 2018 - October 23, 2018)